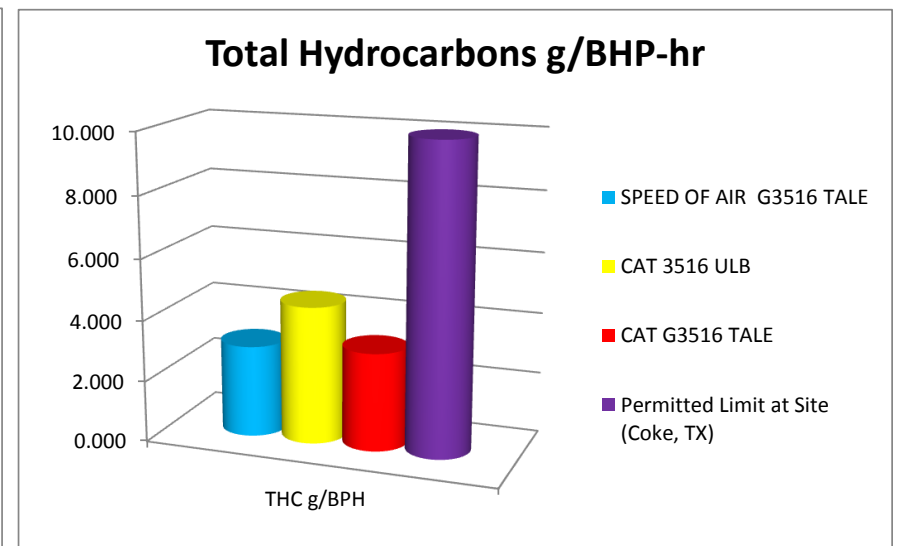
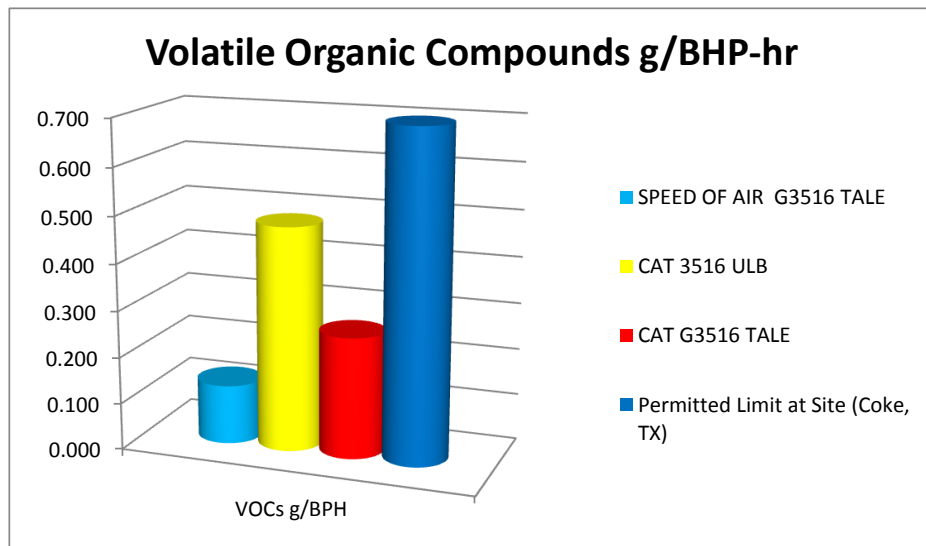
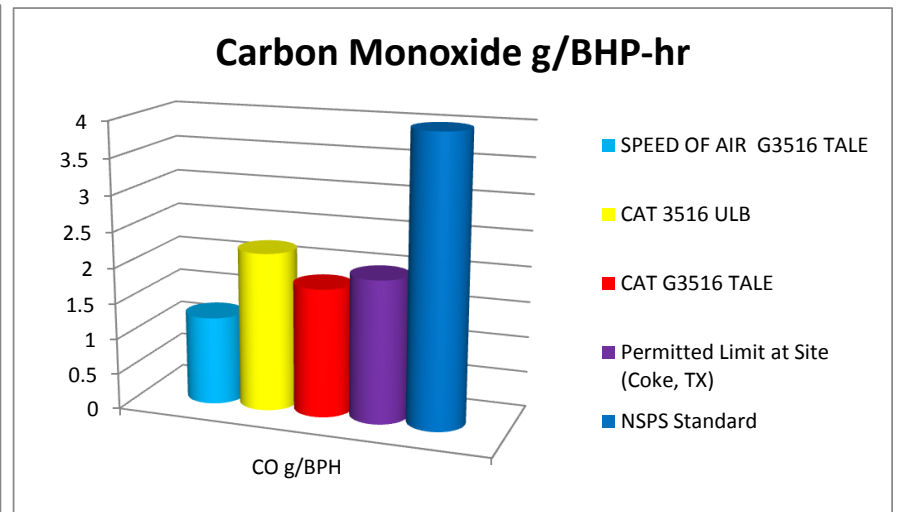
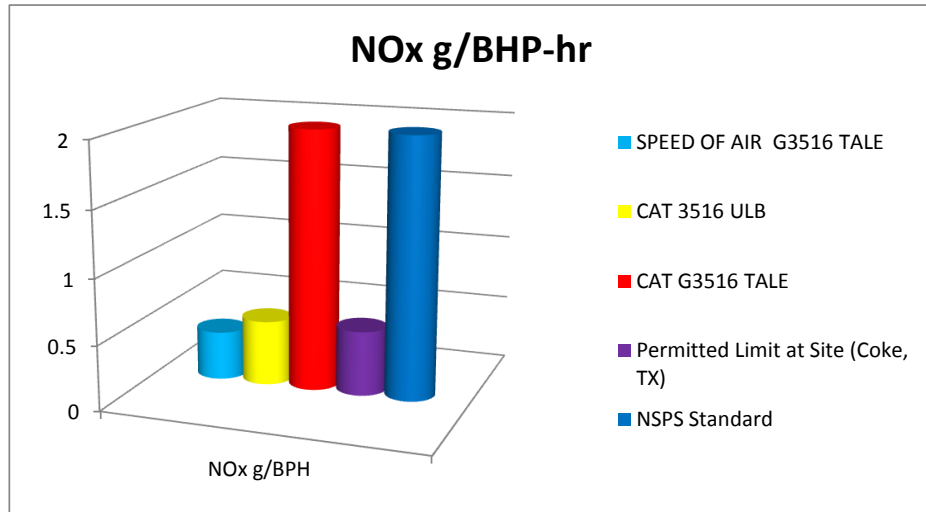


# Speed of Air, Inc.

## Speed of Air G3516TALE Emissions Comparison

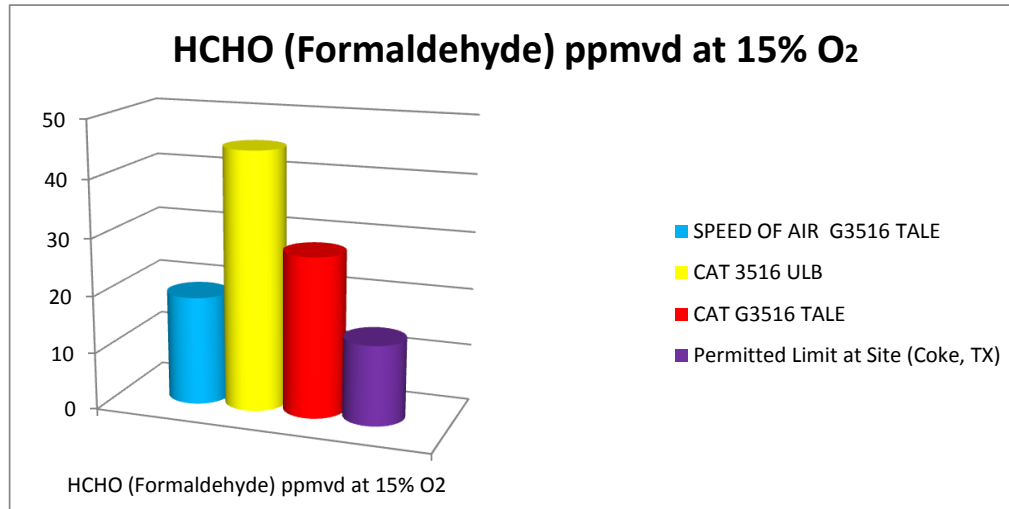
Engine	NOx g/BPH	Reduction	% Reduction	CO g/BPH	Reduction	% Reduction	VOCs g/BPH	Reduction	% Reduction	THC g/BPH	Reduction	% Reduction
SPEED OF AIR G3516 TALE	0.375			1.238			0.127			3.000		
CAT 3516 ULB	0.500	(0.125)	25%	2.220	(0.982)	44%	0.480	(0.353)	74%	4.500	(1.500)	33%
CAT G3516 TALE	2.000	(1.625)	81%	1.800	(0.562)	31%	0.260	(0.133)	51%	3.210	(0.210)	7%
Permitted Limit at Site (Coke, TX)	0.500	(0.125)	25%	2.000	(0.762)	38%	0.700	(0.573)	82%	10.000	(7.000)	70%
NSPS Standard	2.000	(1.625)	81%	4.000	(2.762)	69%	1.000	(0.873)	87%	N/A	N/A	N/A



# Speed of Air, Inc.

## Speed of Air G3516TALE Emissions Comparison

Engine	HCHO (Formaldehyde) ppmvd at 15% O <sub>2</sub>	Reduction	% Reduction
SPEED OF AIR G3516 TALE	19		
CAT 3516 ULB	45	(26)	58%
CAT G3516 TALE	28	(9)	20%
Permitted Limit at Site (Coke, TX)	14	5	-11%
NSPS Standard	N/A	N/A	N/A





# Vaquero Analytical Services LLC.

910 S.Crowley Rd.Suite 9-412

Crowley, TX. 76036

Ph.325-716-3521 Fax.817-297-7872

## **Emissions Test Report**

Job Number: N/A

Prepared for:

Speed of Air Inc

Tested at 100% load of Driver

Date:

February 28, 2013

Pollutant(s):

NOx, CO, VOCs, and HCHO

Location:

Speed Of Air Test Site West Texas,

Coke

TX

Emissions Source:

Spark-Ignited Caterpillar,G3516TALE Unit#C-35

S/N 4EK-01382

Regulation(s):

PBR 106.512, 40 CFR 60 Subpart JJJ, and 40 CFR 60 Subpart ZZZZ

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## Certification

Vaquero Analytical Services, Certifies that this Emission test and data obtained during this Emission test by the undersigned emission technician to be true and accurate to the best of their knowledge. All testing procedures are to follow EPA, ASTM methodology and Texas Commission Environmental Quality (TCEQ) guidelines.

---

Russell Reynolds  
Sr. Emission Tech.

## Introduction

Vaquero Analytical Service's conducted an emissions test on a Caterpillar G3516TALE spark-ignited engine located at the Speed Of Air Test Site West Texas ,Coke, TX.C-35.

The purpose of this test was to determine quantities of oxides of nitrogen (NOx), carbon monoxide (CO), volatile organic compounds (VOCs), and formaldehyde (HCHO) from the exhaust emissions from the spark-ignited engine Emission source.

Caterpillar G3516TALE Engine is rated at 1085@1200 This engine drives a natural gas compressor which is used to compress natural gas.This natural gas spark-ignited engine was tested on February 28, 2013

Joe Malfa representative of Speed of Air Inc. over saw the operations of the facility during emission testing of the natural gas spark-ignited engine. Russell Reynolds of Vaquero Analytical Service's performed the emission test. Speed of Air Inc. technicians gathered and recorded operational data during the emission test. Speed of Air Inc.furnished a natural gas fuel analysis of the fuel gas from the tested emission source, and this analysis was included in this report along with horse power specifications and compressor data to calculate horse power.

## Summary of Test Results

Vaquero Analytical Service performed a Emissions test on the spark-ignited engine. To show compliance at the Speed Of Air Test Site West Texas C-35 Coke, TX NO<sub>x</sub>, CO, VOCs, and HCHO

Mass emission rates were determined by 3 Test runs for 60 each, Logging every 10 All raw data acquired during this emission test is located in Appendix X of this emission report.

A complete summary of each test run performed during this emission test is contained in a table in this section of the report. The table provides volumetric stack flow utilizing EPA Methodology 19, operational data, ambient condition, and measured emissions

Test Methods: 3A, 19, and 205 D6348-03

## Emissions Summary

Pollutant	pounds / hour		tons / year		g/BHP-hr		ppmvd at 15% O <sub>2</sub>	
	Permitted	Emitted	Permitted	Emitted	Permitted	Emitted	Permitted	Emitted
CO	N/A	N/A	N/A	N/A	2.0000	1.2378	N/A	N/A
NO <sub>x</sub>	N/A	N/A	N/A	N/A	.5000	0.3751	N/A	N/A
VOCs	N/A	N/A	N/A	N/A	.70000	0.12734	N/A	N/A
THC	N/A	N/A	N/A	N/A	10	3	N/A	N/A
HCHO	N/A	N/A	N/A	N/A	N/A	N/A	14	19

## Sampling System and Test Procedures

Vaquero Analytical Services use's sampling and analytical data obtained in this sources emission test that follow's procedures and guidelines in CFR,40,part60, appendix A Utilizing 3A, 19, and 205 D6348-03 All effluent gases tested in this emission test utilizing, Fourier transform infrared spectrometer and instrumental analyzers. These analyzers were set-up and calibrated to manufactures recommendations. With all the obtained data included in this report. (Pre and Post O2 Ftir spiking,etc) The test equipment utilized by Vaquero Analytical Service meets or exceeds all requirements of CFR 40,part 60 appendix a.

The sources emissions effluent gases are transported to the analytical equipment thru a 3/8 stainless steel probe into a 50 foot heated sample line in to heated sample pump is set to pull 5 liters per minute of suction on the entire sample system. Then it is sent thru a heated filter unit to the FTIR analyzer where all the target analytcs concentrations maintained at 191C/376F are determined other then the sources emission O2 concentrations. From there the sample is sent to a Thermoelectric-sample conditioner where H2o is condensed from the sources emission gases then it is sent to the oxygen analyzer. Where the emission sources o2 concentration is measured .This data from the FTIR and o2 analyzer are then recorded using a data acquisition suite of software. This data is then utilized to measure emissions and all instruments responses'.



## Instrument Specifications

Description: FTIR Analyzer  
Manufacturer: MKS Instruments  
Model: 2030  
Serial Number: 017536903  
Technology Type: FTIR Spectrometry  
Range: between 10ppb and 100% fullscale  
Spectral Resolution: 0.5-128 1/cm  
Scan Speed: 1/sec @ 0.5 1/cm  
Detector Type: LN2-cooled MCT

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Description: Dilution Calibrator (Gas Diluter)  
Manufacturer: Teledyne  
Model: T700  
Serial Number: 00320  
Technology Type: Mass Flow Controller  
MFC's: 20LPM, 2LPM, and 200ccm

---

Description: Oxygen Analyzer  
Manufacturer: Advanced Micro Instruments, Inc.  
Model: 201RSP  
Serial Number: 110111-13  
Technology Type: N/A  
Range: 0-1%, 0-5%, 0-10%, and 0-25%  
Repeatability: +/-0.2% of range or +/-0.1% of oxygen, whichever is greater  
Minimum Detection: 0.01% of oxygen

5/29/12

Model:	T700	Serial Number:	329	Sales Order:	
Firmware:	T700 1.1.0 bid 94 MFC3	Technician:	DNG	SP#:	099355
Date:	5/29/2012				

Parameter	Displayed As	Observed Value	Units	Final Test Process Control Limits at Factory**	Acceptable Limits in Use
Act Cal Gas <sup>1</sup>	ACT CAL	0.9325	LPM	+ 1% of TARG CAL	± 1% of TARG CAL
Target Cal Gas <sup>2</sup>	TARG CAL	0.9325	LPM		
Act Dilution <sup>3</sup>	ACT DIL	3.968	LPM	+ 1% of TARG DIL	± 1% of TARG DIL
Target Dilution <sup>3</sup>	TARG DIL	3.968	LPM		
O3 Gen Ref <sup>1,3</sup>	O3 GEN REF		mVDC	25 - 600 mV	25 - 600 mV
O3 Flow <sup>1,3</sup>	O3 FLOW		LPM	0.100 - 0.200 LPM	0.100 - 0.200 LPM
O3 Gen Drive <sup>1,3</sup>	O3 GEN DRIVE		mVDC	800 mV	800 mV
Ozone Lamp Temp	O3 LAMP TEMP		°C	48 ± 0.5 °C	48 ± 0.5 °C
Cal Pressure	CAL PRESSURE	30	PSIG	25 - 35 PSIG	25 - 35 PSIG
Dilution Pressure	DIL PRESSURE	30	PSIG	25 - 35 PSIG	25 - 35 PSIG
Regulator Pressure	REG PRESSURE		PSIG	20 ± 1.0 PSIG	20 ± 1.0 PSIG
ACT NO Conc <sup>3</sup>	ACT=	799	PPB	± 1% of TARG=	± 1% of TARG=
Target NO Conc <sup>3</sup>	TARG=	800	PPB		
Box Temp	BOX TEMP	27.6	°C	30 - 35 °C	6 - 48 °C
Photo Measure <sup>1,3</sup>	PHOTO MEASURE		mVDC	4400 - 4600 mV	2500 - 4800 mV
Photo Reference <sup>1,3</sup>	PHOTO REFERENCE		mVDC	4400 - 4600 mV	2500 - 4800 mV
Photo Flow <sup>2</sup>	PHOTO FLOW		LPM	0.720 - 0.880 LPM	0.720 - 0.880 LPM
Photo Lamp Temp	PHOTO LAMP TEMP		°C	58 ± 0.5 °C	58 ± 0.5 °C
Photo Sam Press <sup>1,3</sup>	PHOTO SPRESS		In-Hg-A	27 - 29.9 In-Hg-A	24 - 30 In-Hg-A
Photo Sample Temp	PHOTO STEMP		°C	28 - 46 °C	28 - 46 °C
Photo Slope	PHOTO SLOPE			1 ± 0.03	1 ± 0.03
Photo Offset	PHOTO OFFSET		PPB	0 ± 3 PPB	0 ± 3 PPB
Dark Offset	DARK OFFSET		mVDC	0 ± 20mV	0 ± 20mV
Perm Tube Flow	PERM FLOW		LPM	0.100 - 0.200 LPM	0.100 - 0.200 LPM
Perm Tube Temp	PERM TEMP		°C	56 ± 0.3 °C	56 ± 0.3 °C

<sup>1</sup> For good instrument performance, the cleanliness of this signal is more important than its absolute value (within the operating range).  
<sup>2</sup> These are process control limits, and not specification limits. Items out of range do not imply the unit is out of specification.

**Statement of Calibration**

The unit identified above has been tested with MST measuring and test equipment using lot traceable materials. The testing is performed in accordance with ISO 9001-2008 and is traceable to MST and industry recognized standards.

<sup>1</sup> Recorded in Specialty Mtds.    <sup>2</sup> Recorded in General O3 mtds.    <sup>3</sup> Recorded in General NO mtds.





## Appendix X: Emissions Source Operational Data

	Test Run			Average
	1st	2nd	3rd	
<b>Test Run</b>				
Start Time	2:40 PM	3:46 PM	4:55 PM	
End Time	3:41 PM	4:46 PM	5:56 PM	
Interval (minutes)	61	60	61	61
<b>Ambient Conditions</b>				
Dry Bulb / Ambient Temperature (°F)	67.0	67.0	67.0	67.0
Wet Bulb Temperature (°F)	50.0	50.0	50.0	50.0
Calculated Relative Humidity (%)	29	29	29	29
Relative Humidity (%)	29.00	29.00	29.00	29.00
Barometric Pressure ("Hg)	29.65	29.65	29.65	29.65
Elevation (feet)	2000			
<b>Emissions Source</b>				
Manufacturer	Caterpillar			
Model	G3516TALE			
Serial Number	4EK-01382			
Unit ID	C-35			
Manufacture/Rebuild Date	10/2/2012			
<b>Emissions Source Type</b>	Engine			
<b>Emissions Source Operational Data: Engine</b>				
Fuel flow rate determined by:	RichBurn/LeanBurn			
Fuel Flow Rate (SCFH)				N/A
Calculated Fuel Flow Rate (SCFH)	N/A	N/A	N/A	N/A
BSFC (BTU/BHP/hr), LHV				
Calculated BSFC <sub>LHV</sub> (BTU/BHP/hr)	N/A	N/A	N/A	N/A
Rich Burn / Lean Burn	Lean Burn			
Fuel Header Pressure (PSIG)				N/A
Calculated Load (%)	100.0	100.0	100.0	100.0
Current Power (BHP)	1085	1085	1085	1085
Max Rated Power (BHP)	1085			
Max Rated Speed (RPM)	1200			
Emissions Control Equipment	OEM AFRC			
<b>Engine Type</b>	Spark-Ignited			

	Test Run			Average
	1st	2nd	3rd	
<b>Spark-Ignited Engine Operational Data</b>				
Current Speed (RPM)	1200	1200	1200	1200
Oxygen Sensor (mV)	60.00	60.00	60.00	60.00
Ignition Timing (°BTDC)	31.8	31.8	31.8	31.8
Boost Pressure (PSI)	33.60	33.60	33.60	33.60
Oil Pressure (PSIG)	47.0	47.0	47.0	47.0
Manifold Pressure (PSIA)	33.6	33.6	33.6	33.6
Manifold Temperature (°F)	132.0	132.0	132.0	132.0
Exhaust Back-Pressure ("H2O)				N/A
Exhaust Temperature (°F)	863.0	863.0	863.0	863.0
Pre-Converter Temperature (°F)				N/A
Post-Converter Temperature (°F)				N/A
Converter Pressure Drop ("H2O)				
Aspiration	Turbocharged			
<b>Driven Equipment</b>				
Manufacturer	Howden			
Model				
Serial Number				
Purpose	compress natural gas into pipelines			
Engine-Driven Equipment Type	Compressor			
<b>Driven Equipment Operational Data: Compressor</b>				
Suction Pressure (PSIG)	7.8	7.8	7.8	7.8
Suction Temperature (°F)	61.0	61.0	61.0	61.0
Discharge Pressure (PSIG)	152.0	152.0	152.0	152.0
Discharge Temperature (°F)	163.0	163.0	163.0	163.0
Capacity (MMSCFD)				N/A
Calculated Horsepower (BHP)	N/A	N/A	N/A	N/A
Compressor Type	Unknown			
<b>User-Defined Items</b>				
Test Run Item 1 (Units)				N/A
Test Run Item 2 (Units)				N/A
Test Run Item 3 (Units)				N/A
Test Run Item 4 (Units)				N/A
Test Run Item 5 (Units)				N/A
Emissions Test Item 1 (Units)				
Emissions Test Item 2 (Units)				
Emissions Test Item 3 (Units)				
Emissions Test Item 4 (Units)				
Emissions Test Item 5 (Units)				

## Vaquero-AS Field Data Sheet

customer *Speed of air* *100%* unit# *Howden 1, C325*

2-28-13	Test Run			
	1st	2nd	3rd	4th
<b>Ambient Conditions</b>				
Dry Bulb Temperature (°F)				
Wet Bulb Temperature (°F)				
Relative Humidity (%)				
Barometric Pressure ("Hg)				
Elevation (feet)		Eng.Hrs	2922	
<b>Emissions Source</b>				
Manufacturer	Caterpillar			
Model	G3516			
Serial Number	4EK1382			
Unit ID	C325			
Manufacture/Rebuild Date	10/12			
Emissions Source Type	Engine			
<b>Emissions Source Operational Data: Engine</b>				
Fuel flow rate determined by:				
Fuel Flow Rate (SCFH)				
BSFC (BTU/BHP/hr), LHV or HHV				
Rich Burn / Lean Burn				
Fuel Header Pressure ( )				
Max Rated Power (BHP)				
Max Rated Speed (RPM)				
Emissions Control Equipment				
Engine Type	Spark Ignited			
<b>Spark-Ignited Engine Operational Data</b>				
Current Speed (RPM)	1200	1200	1200	
Oxygen Sensor (mv) <i>NOX</i>	60	60	60	
Ignition Timing (°BTDC)	31.8	31.8	31.8	
Boost Pressure (PSI)	33.6A	33.6A	33.6A	
Oil Pressure (PSIG)	47	47	47	
Manifold Pressure ( )	33.6A	33.6A	33.6A	
Manifold Temperature (°F)	132	132	132	
Exhaust Back-Pressure ("H2O)				
Exhaust Temperature (°F)	L863 R 803	L F8 R P03	L P62 R 803	
Pre-Converter Temperature (°F)	870			
Post-Converter Temperature (°F)	861			
Converter Pressure Drop ("H2O)				
Aspiration	Turbo charged			





# Vaquero-As

Attendance Record

Client: Speed of air Make: Cat  
 Site Name: \_\_\_\_\_ Model: C3516  
 County: Coke State: TX Serial #: 4241302  
 Test Date: \_\_\_\_\_ Unit ID: 1325

Limits CO \_\_\_\_\_ NOX \_\_\_\_\_ VOC \_\_\_\_\_ HCHO \_\_\_\_\_ NH3 \_\_\_\_\_ THC \_\_\_\_\_  
 HP&RPM HP \_\_\_\_\_ RPM \_\_\_\_\_

Hp consumed \_\_\_\_\_

Name (please print)	Signature	Affiliation	Phone Number
Russell Reynolds	<i>Russell Reynolds</i>	Vaquero-As	
Mike Holman		Vaquero-As	
Alan Melton		West Texas Ind. Co.	
Joe Magra		Speed of air	
Michelle Wagon		Speed of air	



## **Appendix X: Emissions Calculations**

	Test Run			Average	
	1st	2nd	3rd		
<b>Fuel</b>					
HHV (BTU/SCF)	1002				
LHV (BTU/SCF)	907				
F-factor (DSCF/MMBTU)	8657				
<b>Measured Concentrations</b>					
O <sub>2</sub> (%vd)	8.81	8.85	8.82	8.83	
CO (ppmvd)	294.1	295.4	295.0	294.8	
NOx (ppmvd)	54.7	54.0	54.5	54.4	
VOCs (ppmvd)	18.1	19.6	20.1	19.3	
THC (ppmvd)	437.8	440.6	441.4	439.9	
HCHO (ppmvd)	35.068	42.199	41.931	39.733	
<b>Operating Conditions</b>					
Engine Horsepower (BHP)	1085	1085	1085	1085	
Fuel Flow Rate (SCFH)	9202	9202	9202	9202	
BSFC (BTU/BHP/hr), HHV	8500	8500	8500	8500	
Fuel BTU Consumption (MMBTU/hr)	9.22	9.22	9.22	9.22	
Exhaust Flow Rate (SCFH)	138017	138475	138131	138208	
Exhaust Flow Rate (SCFM)	2300.3	2307.9	2302.2	2303.5	
<b>Calculated Emissions</b>					
CO	(lb/hr)	2.949	2.972	2.961	2.961
	(ton/year)	12.918	13.018	12.968	12.968
	(g/BHP-hr)	1.233	1.243	1.238	1.238
	(ppmvd at 15% O <sub>2</sub> )	143.523	144.636	144.081	144.080
NOx	(lb/hr)	0.901	0.892	0.898	0.897
	(ton/year)	3.946	3.909	3.935	3.930
	(g/BHP-hr)	0.377	0.373	0.376	0.375
	(ppmvd at 15% O <sub>2</sub> )	26.694	26.440	26.618	26.584
VOCs	(lb/hr)	0.286	0.310	0.318	0.305
	(ton/year)	1.252	1.360	1.391	1.334
	(g/BHP-hr)	0.119	0.130	0.133	0.127
	(ppmvd at 15% O <sub>2</sub> )	8.833	9.597	9.817	9.416
THC	(lb/hr)	6.912	6.979	6.974	6.955
	(ton/year)	30.274	30.569	30.548	30.464
	(g/BHP-hr)	2.890	2.918	2.916	2.908
	(ppmvd at 15% O <sub>2</sub> )	213.649	215.729	215.584	214.988
HCHO	(lb/hr)	0.377	0.455	0.451	0.428
	(ton/year)	1.651	1.994	1.976	1.874
	(g/BHP-hr)	0.158	0.190	0.189	0.179
	(ppmvd at 15% O <sub>2</sub> )	17.113	20.662	20.480	19.418

Constants		
L	385.5	SCF, volume of 1 mole of ideal gas at 68°F / 1 atm
grams/lb	453.5924	grams in one pound
Molecular Weight	CO	28.0102
	NOx	28.0102
	Propane	44.0972
	HCHO	30.0261
	NH <sub>3</sub>	17.0306
		grams/mole

Example calculations for 1st test run using a fuel analysis (EPA Method 19)

**Nomenclature:**

- HHV - Higher heating value calculated from fuel analysis, units of BTU/SCF, also called BTUF and  $F_{btu}$
- LHV - Lower heating value calculated from fuel analysis, units of BTU/SCF
- Ffactor - EPA "F" factor calculated from fuel analysis, units of DSCF/MMBTU
- BSFC - Brake-specific fuel consumption, units BTU/BHP/hr
- R - Fuel BTU consumption is the amount of BTUs consumed in one hour, also called heat input, units of MMBTU/hr
- Qf - Fuel flow rate, units of SCFH
- Qd - Exhaust flow rate, units of SCFH
- PercentO2 - Measured dry concentration of oxygen in engine exhaust, post-emissions control equipment, bias-corrected, units of %
- PPMVD - Measured dry concentration of pollutant (by volume) in engine exhaust, post-emissions control equipment, bias-corrected if appropriate, units of ppmvd
- MW - Molecular weight of pollutant, units of grams/mole
- L - 385.5 SCF is the volume of 1 mole of ideal gas at 68°F and 1 atm (ideal gas law)
- grams/lb - 453.5924 grams in one pound (units conversion factor)
- BHP - Engine horsepower observed during a test run, units of BHP
- Lbs/hr - Mass emission rate of pollutant
- Tons/Year - Mass emission rate of pollutant
- g/BHP-hr - Horsepower-specific mass emission rate of pollutant
- ppmAt15O2 - Measured dry concentration of pollutant (by volume) in engine exhaust adjusted to 15% oxygen, units of ppmvd

**Fuel:**

$$\text{BSFC, HHV} = \boxed{8500} \text{ BTU/BHP/hr}$$

$$Q_f = \frac{\text{BHP} \mid \text{BSFC, HHV}}{\text{HHV}} = \frac{1085 \mid 8500}{1002} = \boxed{9202} \text{ SCFH}$$

$$R = \frac{Q_f \mid \text{HHV}}{1000000} = \frac{9202 \mid 1002}{1000000} = \boxed{9.22} \text{ MMBTU/hr}$$

**Exhaust:**

$$Q_d = \frac{R \mid \text{Ffactor} \mid 20.9}{20.9 - \text{PercentO}_2} = \frac{9.22 \mid 8657 \mid 20.9}{20.9 - 8.81}$$

$$= \boxed{138017} \text{ SCFH}$$

$$= \boxed{2300.3} \text{ SCFM}$$

**CO Emissions:**

$$\text{CO Lbs/hr} = \frac{\text{Qd} \mid \text{PPMVD} \mid \text{MW}}{\mid 1000000 \mid \mid \text{L}} = \frac{138017 \mid 294.1 \mid 28.0102}{\mid 1000000 \mid \mid 385.5}$$

$$= \boxed{2.949} \text{ lbs/hr}$$

$$\text{CO Tons/Year} = \frac{\text{Lbs/hr} \mid 24 \mid 365}{\mid 2000 \mid} = \frac{2.949 \mid 24 \mid 365}{\mid 2000 \mid}$$

$$= \boxed{12.918} \text{ tons/year}$$

$$\text{CO g/BHP-hr} = \frac{\text{Lbs/hr} \mid 453.5924}{\text{BHP}} = \frac{2.949 \mid 453.5924}{1085}$$

$$= \boxed{1.233} \text{ g/BHP-hr}$$

$$\text{CO ppmAt15O2} = \frac{\text{PPMVD} \mid 20.9 - 15}{\mid 20.9 - \text{PercentO2}} = \frac{294.1 \mid 20.9 - 15}{\mid 20.9 - 8.81}$$

$$= \boxed{143.523} \text{ ppmvd}$$

**NOx Emissions:**

$$\text{NOx Lbs/hr} = \frac{\text{Qd} \mid \text{PPMVD} \mid \text{MW}}{\mid 1000000 \mid \mid \text{L}} = \frac{138017 \mid 54.7 \mid 46.0056}{\mid 1000000 \mid \mid 385.5}$$

$$= \boxed{0.901} \text{ lbs/hr}$$

$$\text{NOx Tons/Year} = \frac{\text{Lbs/hr} \mid 24 \mid 365}{\mid 2000 \mid} = \frac{0.901 \mid 24 \mid 365}{\mid 2000 \mid}$$

$$= \boxed{3.946} \text{ tons/year}$$

$$\text{NOx g/BHP-hr} = \frac{\text{Lbs/hr} \mid 453.5924}{\text{BHP}} = \frac{0.901 \mid 453.5924}{1085}$$

$$= \boxed{0.377} \text{ g/BHP-hr}$$

$$\text{NOx ppmAt15O2} = \frac{\text{PPMVD} \mid 20.9 - 15}{\mid 20.9 - \text{PercentO2}} = \frac{54.7 \mid 20.9 - 15}{\mid 20.9 - 8.81}$$

$$= \boxed{26.694} \text{ ppmvd}$$



**VOC Emissions:**

$$\text{VOC Lbs/hr} = \frac{\text{Qd} \mid \text{PPMVD} \mid \text{MW}}{\mid 1000000 \mid \mid \text{L}} = \frac{138017 \mid 18.1 \mid 44.0972}{\mid 1000000 \mid \mid 385.5}$$

$$= \boxed{0.286} \text{ lbs/hr}$$

$$\text{VOC Tons/Year} = \frac{\text{Lbs/hr} \mid 24 \mid 365}{\mid 2000 \mid} = \frac{0.286 \mid 24 \mid 365}{\mid 2000 \mid}$$

$$= \boxed{1.252} \text{ tons/year}$$

$$\text{VOC g/BHP-hr} = \frac{\text{Lbs/hr} \mid 453.5924}{\text{BHP}} = \frac{0.286 \mid 453.5924}{1085}$$

$$= \boxed{0.119} \text{ g/BHP-hr}$$

$$\text{VOC ppmAt15O2} = \frac{\text{PPMVD} \mid 20.9 - 15}{\mid 20.9 - \text{PercentO2}} = \frac{18.1 \mid 20.9 - 15}{\mid 20.9 - 8.81}$$

$$= \boxed{8.833} \text{ ppmvd}$$

**THC Emissions:**

$$\text{THC Lbs/hr} = \frac{\text{Qd} \mid \text{PPMVD} \mid \text{MW}}{\mid 1000000 \mid \mid \text{L}} = \frac{138017 \mid 437.8 \mid 44.0972}{\mid 1000000 \mid \mid 385.5}$$

$$= \boxed{6.912} \text{ lbs/hr}$$

$$\text{THC Tons/Year} = \frac{\text{Lbs/hr} \mid 24 \mid 365}{\mid 2000 \mid} = \frac{6.912 \mid 24 \mid 365}{\mid 2000 \mid}$$

$$= \boxed{30.274} \text{ tons/year}$$

$$\text{THC g/BHP-hr} = \frac{\text{Lbs/hr} \mid 453.5924}{\text{BHP}} = \frac{6.912 \mid 453.5924}{1085}$$

$$= \boxed{2.890} \text{ g/BHP-hr}$$

$$\text{THC ppmAt15O2} = \frac{\text{PPMVD} \mid 20.9 - 15}{\mid 20.9 - \text{PercentO2}} = \frac{437.8 \mid 20.9 - 15}{\mid 20.9 - 8.81}$$

$$= \boxed{213.649} \text{ ppmvd}$$

**HCHO Emissions:**

$$\text{HCHO Lbs/hr} = \frac{\text{Qd} \mid \text{PPMVD} \mid \text{MW}}{\mid 1000000 \mid \mid \text{L} \mid} = \frac{138017 \mid 35.1 \mid 30.0261}{\mid 1000000 \mid \mid 385.5 \mid}$$
$$= \boxed{0.377} \text{ lbs/hr}$$

$$\text{HCHO Tons/Year} = \frac{\text{Lbs/hr} \mid 24 \mid 365}{\mid 2000 \mid} = \frac{0.377 \mid 24 \mid 365}{\mid 2000 \mid}$$
$$= \boxed{1.651} \text{ tons/year}$$

$$\text{HCHO g/BHP-hr} = \frac{\text{Lbs/hr} \mid 453.5924}{\text{BHP}} = \frac{0.377 \mid 453.5924}{1085}$$
$$= \boxed{0.158} \text{ g/BHP-hr}$$

$$\text{HCHO ppmAt15O2} = \frac{\text{PPMVD} \mid 20.9 - 15}{\mid 20.9 - \text{PercentO2} \mid} = \frac{35.068 \mid 20.9 - 15}{\mid 20.9 - 8.81 \mid}$$
$$= \boxed{17.113} \text{ ppmvd}$$

Fuel Analysis							
Lower Heating Value and Higher Heating Value							
Component	Mole % Yi x 100	MW	LHV (BTU/ft <sup>3</sup> )	LHV x Yi (BTU/ft <sup>3</sup> )	MW x Yi	HHV (BTU/ft <sup>3</sup> )	HHV x Yi (BTU/ft <sup>3</sup> )
Methane	89.8650	16.043	913.0	820.467	14.417	1010.0	907.637
Ethane	4.7600	30.070	1624.0	77.302	1.431	1769.6	84.233
Ethene	0.0000	28.054	1499.1	0.000	0.000		
Propane	0.4130	44.097	2322.0	9.590	0.182	2516.1	10.391
Propene	0.0000	42.081	2182.1	0.000	0.000		
I-Butane	0.0000	58.123	3010.0	0.000	0.000	3251.9	0.000
N-Butane	0.0000	58.123	3020.0	0.000	0.000	3262.3	0.000
I-Pentane	0.0000	72.150	3718.0	0.000	0.000	4000.9	0.000
N-Pentane	0.0000	72.150	3706.8	0.000	0.000	4008.9	0.000
N-Hexane	0.0000	86.177	4403.9	0.000	0.000	4755.9	0.000
N-Heptane	0.0000	100.204	5100.3	0.000	0.000	5502.5	0.000
Nitrogen	4.9290	28.013	0.0	0.000	1.381		
Oxygen	0.0000	31.999	0.0	0.000	0.000		
Helium	0.0000	4.003	0.0	0.000	0.000		
Carbon Dioxide	0.0000	44.010	0.0	0.000	0.000		
Carbon Monoxide	0.0000	28.010	320.5	0.000	0.000		
Hydrogen	0.0000	2.016	273.8	0.000	0.000		
Hydrgen Sulfide	0.0000	34.082	586.7	0.000	0.000		
Water Vapor	0.0000	18.015	0.0	0.000	0.000		
Total:		LHV (dry BTU/ft <sup>3</sup> ) at 60°F & 14.65 psia:			Total MW:	HHV (dry BTU/ft <sup>3</sup> ):	
99.9670		907.360			17.411	1002.261	

Notes:

Carbon Mole Weight = 12.01115  
Hydrogen Mole Weight = 1.00797  
Oxygen Mole Weight = 15.99940  
Nitrogen Mole Weight = 14.00670

**Calculation of O<sub>2</sub>-based EPA "F" Factor from Fuel Analysis via EPA Method 19**

$$O_2F_d = \frac{(K_H \times H) + (K_C \times C) + (K_S \times S) + (K_N \times N) - (K_O \times O) \times K}{GCV}$$

Nomenclature:

- O<sub>2</sub>F<sub>d</sub> - O<sub>2</sub> F-factor, DSCF/million BTU
- K - Conversion factor (1,000,000 BTU)
- K<sub>H</sub> - 3.64 SCF of exhaust / lb of hydrogen burned / Hydrogen%
- K<sub>C</sub> - 1.53 SCF of exhaust / lb of carbon burned / Carbon%
- K<sub>S</sub> - 0.57 SCF of exhaust / lb of sulphur burned / Sulphur%
- K<sub>N</sub> - 0.14 SCF of exhaust / lb of nitrogen burned / Nitrogen%
- K<sub>O</sub> - 0.46 SCF of exhaust / lb of oxygen burned / Oxygen%
- GCV - Gross caloric value of fuel from fuel analysis, BTU/lb

Percent of Total Mass (from fuel analysis):

Hydrogen%	=	22.65 %
Carbon%	=	69.42 %
Sulphur%	=	0.00 %
Nitrogen%	=	7.93 %
Oxygen%	=	0.00 %

Fuel F-factor:

O<sub>2</sub>F<sub>d</sub> = **8657** DSCF/MMBTU

## **Appendix X: Sampling System Calibration Data**

Post Oxygen Analyzer Calibration Error Check(s)								
Applies to Test Run(s): 1, 2, 3 Span = 12.00 %								
Gas Range		Actual Calibration Value (%)		Analyzer Calibration Response (%)		Absolute Difference (%)		Difference (% of Span)
Low		0.00		0.07		0.07		0.6
Mid		6.00		5.97		0.03		0.3
High		12.00		12.12		0.12		1.0

Post Oxygen Analyzer Calibration Summary								
Test Run	O <sub>2</sub> Upscale			O <sub>2</sub> Low			Actual O <sub>2</sub> Upscale Value (%)	Actual O <sub>2</sub> Low Value (%)
	Initial Drift Check (%)	Final Drift Check (%)	Average (%)	Initial Drift Check (%)	Final Drift Check (%)	Average (%)		
1st	6.08	5.97	6.03	0.07	0.11	0.09	6.00	0.00
2nd	5.97	6.03	6.00	0.11	0.06	0.09	6.00	0.00
3rd	6.03	5.99	6.01	0.06	0.12	0.09	6.00	0.00

Post Oxygen System Calibration, Bias, and Drift Data													
Test Run	O <sub>2</sub> Upscale					O <sub>2</sub> Low					Analyzer Response Mid Level (%)	Analyzer Response Low Level (%)	Span (%)
	Initial Response (%)	Initial Bias (%*)	Final Response (%)	Final Bias (%*)	Drift (%*)	Initial Response (%)	Initial Bias (%*)	Final Response (%)	Final Bias (%*)	Drift (%*)			
1st	6.08	0.9	5.97	0.0	0.9	0.07	0.0	0.11	0.3	0.3	5.97	0.07	12.00
2nd	5.97	0.0	6.03	0.5	0.5	0.11	0.3	0.06	0.1	0.4	5.97	0.07	12.00
3rd	6.03	0.5	5.99	0.2	0.3	0.06	0.1	0.12	0.4	0.5	5.97	0.07	12.00

\*Percent of Span

## Bias Corrections

		Test Run			Average
		1st	2nd	3rd	
Post O <sub>2</sub> (%)	Measured	8.81	8.81	8.79	8.80
	Corrected	8.81	8.85	8.82	8.83

### Example calculation of Post O<sub>2</sub> for 1st test run

#### Nomenclature:

- $C_{gas}$  - Effluent gas concentration, units of ppmvd or %, "Corrected" value in above table
- $C_{avg}$  - Average gas concentration indicated by analyzer, units of ppmvd or %, "Measured" value in above table
- $C_o$  - Average of initial and final system calibration bias check responses for zero gas, units of ppmvd or %, from "Analyzer Calibration Summary" table
- $C_m$  - Average of initial and final system calibration bias check responses for upscale calibration gas, units of ppmvd or %, from "Analyzer Calibration Summary" table
- $C_{ma}$  - Concentration of upscale calibration gas, units of ppmvd or %, from "Analyzer Calibration Summary" table

#### Calculation:

$$C_{gas} = \frac{C_{avg} - C_o}{C_m - C_o} \times C_{ma} = \frac{8.81 - 0.09}{6.03 - 0.09} \times 6.00$$

$$= \boxed{8.81} \%$$



## Percent Recovery Calculations

Sample File # Stack - Start  
 Sample File # Stack - Finish  
 Sample File # Stack & Spike - Start  
 Sample File # Stack & Spike - Finish

Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4

### Cylinder Concentrations

Carbon Monoxide  
 Nitric Oxide  
 Propane  
 Acetaldehyde  
 Ethylene

3002			
3025			
3020			
		1000	
	1001		

### Stack Concentrations

Stack CO2 Concentration  
 Stack CO Concentration  
 Stack NO Concentration  
 Stack Propane Concentration  
 Stack HONO Concentration  
 Stack Ethylene Concentration  
 Stack H2O Concentration

6.2	6.2	6.2	
264			
28			
2			
		1.8	
	25		
4.6	4.6	4.6	

### Spiked Concentrations

Stack CO2 Concentration w/Spike  
 Stack + CO Concentration  
 Stack + NO Concentration  
 Stack + Propane Concentration  
 Stack + HONO Concentration  
 Stack + Ethylene Concentration  
 Stack H2O with Spike

5.57	5.57	5.57	
537			
320			
298			
		100	
	117		
4.1	4.1	4.1	

### Dilution Percentage

Dilution from CO2  
 Dilution from H2O

0.102	0.102	0.102	#DIV/0!
0.109	0.109	0.109	#DIV/0!

### Percent Recovery

Carbon Monoxide  
 Nitric Oxide  
 Propane  
 Formaldehyde  
 Ethylene

98.29%	#DIV/0!	#DIV/0!	#DIV/0!
95.92%	#DIV/0!	#DIV/0!	#DIV/0!
96.52%	#DIV/0!	#DIV/0!	#DIV/0!
#DIV/0!	#DIV/0!	96.82%	#DIV/0!
#DIV/0!	92.95%	#DIV/0!	#DIV/0!

## Calibration Checks

### Pre-Test

Date: 2/28/2013  
unit C-325

	<u>Target Concentration</u>	<u>Actual Reading</u>	<u>Deviation</u>
Ethylene	50	49.5	1.0%
Carbon Monoxide	500	491	1.8%
Nitric Oxide	200	201	-0.5%
Propane	200	201	-0.5%
Acetaldehyde	50	49.9	0.2%

### Post-Test

	<u>Target Concentration</u>	<u>Actual Reading</u>	<u>Deviation</u>
Ethylene	50	49.7	0.6%
Carbon Monoxide	500	492.7	1.5%
Nitric Oxide	200	200	0.0%
Propane	200	202	
Acetaldehyde	50	49.6	0.8%

## Calibrator Validation

Serial #: 320

Date: 2/28/2013

Validation Cal Gas:

Concentration: 12.57%

	<u>Reading</u>
Check 1	12.4%
Check 2	12.6%
Check 3	12.5%
Avg	12.5%
Deviation	0.64%

Diluted Cal Gas:

Concentration: 80.00%

Target: 12.50%

	<u>Reading</u>	<u>Deviation</u>
Check 1	12.3%	1.60%
Check 2	12.7%	-1.60%
Check 3	12.3%	1.60%
Avg	12.4%	
Deviation	0.53%	

## Appendix X: Calibration Gas Cylinder Certificates



Jun 8, 2012

### Certificate of Analysis

FOR:


Matheson Tri-Gas Order Number:  
Customer P.O. Number:

Lot Number: 160321202  
Cylinder Tested: CC141150

Mixture Components	Requested Composition	Batch Result
Oxygen	30.0% ± 3% Rel	79.8%
Nitrogen	Balance	Balance

The undersigned certifies that the product(s) listed above reflect gas phase by volume (unless otherwise indicated) and meet or exceed the minimum purity specification(s).

This product was certified (depending on components) by a combination of analysis and/or gravimetric calculations using scales certified with weights traceable to NIST #627/254480, 39569, 40093, 179055, 241548, and 251996.

  
QA Reviewer

#### IMPORTANT

The information contained herein has been prepared at your request by qualified experts within the Matheson Tri-Gas Package Gas Division. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specified analyses performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Matheson Tri-Gas arising out of the use of the information supplied herein exceed the fee established for providing such information.



Dec 19, 2012

### Certificate of Batch Analysis

FOR: Matheson Tri-Gas Order Number:  
Customer P.O. Number:

Batch Number: 354321201  
Date Tested: CC141205

Mixture Components	Requested Composition	Batch Result
Oxygen	12.5% ± 10% Bal.	12.17 %
Nitrogen	Balance	Balance

The undersigned certifies that the product(s) listed above reflect gas phase by volume (unless otherwise indicated) and meet or exceed the minimum purity specification(s).

This product was certified (depending on components) by a combination of analysis and/or gravimetric calculations using scales certified with weights traceable to NIST #222254480, 28059, 40283, 179256, 261546, and 251496.

QA Reviewer 

#### DISCLAIMER

The information contained herein has been prepared at your request by qualified experts within the Matheson Tri-Gas Packaging/Quality Division. While we believe that this information is accurate within the limits of the analytical methods employed and is complete in the context of the specific analysis performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the user's discretion and risk of the user. It is recommended that the user of this information consult with their own qualified personnel regarding the use of the information.



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www.mathesongas.com

**Certificate of Analysis  
Certified Plus**

Greens Welding Supply 2501 HWY 377 West Granbury, TX 76048	<b>Type:</b> Gas Mol <b>Pressure:</b> 2000 psia <b>Volume:</b> 140.1 cf <b>Dew Point:</b> 0 C	<b>PO Number:</b> 688494 <b>Sales Order:</b> 6012 <b>Part Number:</b> BL1212064 <b>Order Number:</b> 05373177-001 <b>Date Issued:</b> December 19, 2012 <b>Expiration Date:</b> June 19, 2013
<b>Cylinder Size:</b> 1-150 <b>Cylinder No.:</b> EB0042923 <b>Valve:</b> CGA 350		

Component	Requested Concentration	Certified Concentration				Blending Tolerance	Analytical Accuracy
		Mol	Weight	Volume	Units		
Acetaldehyde	1000 ppm	1000.1	1571.7	1000.1	ppm	+/- 10%	+/- 5%
Sulfur Hexafluoride	5 ppm	5.0	29.3	5.0	ppm	+/- 10%	+/- 10%
Nitrogen	Balance				Balance		

**Note:**

*Stability of this blend cannot be guaranteed beyond the expiration date.  
Concentrations may vary with changes in temperature and pressures.*

Guaranteed By 

**N.I.S.T. Statement**

This blend was made at a minimum of ±1% accuracy to the above specified dew point. The scales used have weekly calibration checks for process control purposes. Scales are calibrated bi-annually with N.I.S.T. traceable weights. Mass Calibration Weights No's.: 1611, Certificate No.: 062014-1 • 009, Certificate No.: 009-52912 • 021, Certificate No.: 063511-1



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## Certificate of Analysis Certified Plus

Greens Welding Supply 2501 HWY 377 West Granbury, TX 76048	Type: Gas Mix	PG Number: 529303
	Pressure: 2000 psia	Sales Order: 5318
	Volume: 140.1 cf	Part Number: BL1206055
	Dew Point: 0 C	Order Number: 04137797-001
Cylinder Size: 1-150		Date Issued: June 11, 2012
Cylinder No.: SX50092		Expiration Date: June 11, 2013
Valve: COA 330		

Component	Requested Concentration	Certified Concentration				Blending Tolerance	Analytical Accuracy
		Mol	Weight	Volume	Units		
Ethylene	1000 ppm	1001	1002	1001	ppm	+/- 5%	+/- 2%
Sulfur Hexafluoride	5 ppm	5	29	5	ppm	+/- 10%	+/- 5%
Nitrogen	Balance				Balance		

### Note:

Stability of this blend cannot be guaranteed beyond the expiration date.  
Concentrations may vary with changes in temperature and pressures.

\_\_\_\_\_  
 Signature: *J. Sear*  
 NIST Statement

This blend was made to a maximum of ±1% accuracy to the above specified dew point. The scales used here were calibration checks for accuracy against primary. Scales are calibrated to accuracy with NIST traceable weights. Mass Calibration: Weigh set No. 03, Cal. Lab Certificate No. 045941-1; Weigh set No. 04, Cal. Lab Certificate No. 049-3291.



## Appendix X: Raw Data

Raw Data Filename:

C:\EmTestData\Speed Of Air Test 2\_Unitc-35\_2013-02-28\RawData.txt

EmTest Raw Data File (comma-delimited text)  
Version, 1.9.4439.37349

Notes:  
1. This data file was created by EmTest data acquisition and reporting program. This file contains data acquired during an emissions test. For clarity keep Notepad's word wrap off while viewing (main menu: Format | word wrap).  
2. To print an exported raw data file on letter-size paper, open the file with Notepad, and then configure Notepad via it's main menu: File | Page Setup... | Landscape | set left and right margins to 0.25 inches | ok button.

MISCELLANEOUS:  
RawDataFileCreationDate, 2/28/2013  
ClientCompanyName, Speed of Air Inc.  
EmissionsSourceUnitID, C-35

enabled	ID	manufacturer	model number	serial number	communications type	IP address	IP port	RS232 port	RS232 settings
True	1	"M&C"	"PMA-22"	"????????"	Analog	192.168.254.51	7700	COM1	"115200,N,8,1"
True	2	"MKS Instruments"	"2030"	"017048618"	MKS Toolweb	192.168.254.10	7700	COM2	"115200,N,8,1"
True	3	"Teledyne"	"T700"	"70"	Analog	192.168.254.53	7700	COM3	"115200,N,8,1"
False	4	"Vaisala"	"PTU300"	"G1620010"	Analog	192.168.254.54	7700	COM4	"115200,N,8,1"
False	6	"unknown manufacturer 5"	"model number 5"	"serial number 5"	Analog	192.168.254.56	7700	COM2	"115200,N,8,1"
False	6	"unknown manufacturer 6"	"model number 6"	"serial number 6"	Analog	192.168.254.56	7700	COM2	"115200,N,8,1"
False	7	"unknown manufacturer 7"	"model number 7"	"serial number 7"	Analog	192.168.254.57	7700	COM3	"115200,N,8,1"
True	8	"Advanced Micro Instruments, Inc."	"Z01RSP"	"110506-6"	Analog	192.168.254.58	7700	COM1	"115200,N,8,1"

MISC CALIBRATION GAS CYLINDERS:

calibration gas	rack slot	cylinder serial number	cylinder expiration date
MISC 1	2	CC141205	12-09-2015
MISC 2	3	CC141150	09-18-2015
MISC 3	4	EB0042923	06-19-2013
MISC 4	5	SX50092	06-11-2013
MISC 5	2	CC141205	12-09-2015
MISC 6	3	CC141150	09-18-2015

TEST RESULTS: \*\*\*\*\*Calibration Error Check 1\*\*\*\*\*

Record ID	Date/Time	Pre O2, Dry (%)	Post O2, Dry (%)	Pre CO, Dry (ppm)	Post CO, Dry (ppm)	NOx, Dry (ppm)	VOC Dry, as Prop (ppm)	THC Dry, as Prop (ppm)	HCHO, Dry (ppm)	NH3, Dry (ppm)	CO2, Dry (%)	Ambient Pressure, (inHg)	Ambient Temp, (degF)	Relative Humidity, (%)	H2O%, (%)	CO, wet (ppm)	NO, wet (ppm)	NO2, wet (ppm)	Propane, wet (ppm)	HCHO, wet (ppm)	NH3, wet (ppm)	CO2, wet (%)	Z2, (none)	Gas Pres, (atm)	Gas Temp (degC)
0	02/28/2013 09:07:18 AM	?	6.10	?	0.1	0.0	0.0	0.0	-0.090	0.0	0.01	?	?	?	0.00	0.1	0.0	0.0	-0.3	-0.090	0.0	0.01	?	0.991	190.7
1	02/28/2013 09:07:28 AM	?	6.10	?	0.1	-0.1	0.0	0.0	-0.163	0.0	-0.01	?	?	?	0.00	0.1	-0.1	0.0	-0.4	-0.163	0.0	-0.01	?	0.991	190.6
2	02/28/2013 09:07:38 AM	?	5.60	?	0.2	-0.1	0.0	0.0	-0.103	0.0	0.00	?	?	?	-0.01	0.2	-0.1	0.0	-0.5	-0.103	0.0	0.00	?	0.991	190.7
3	02/28/2013 09:07:48 AM	?	3.20	?	0.0	0.0	0.0	0.0	-0.074	0.0	0.00	?	?	?	0.00	0.0	0.1	0.0	0.0	-0.074	0.0	0.00	?	0.991	190.7
4	02/28/2013 09:07:58 AM	?	3.00	?	0.0	-0.1	0.0	0.0	-0.030	0.0	0.01	?	?	?	0.00	0.0	-0.1	0.0	0.0	-0.030	0.0	0.01	?	0.991	190.7
5	02/28/2013 09:08:08 AM	?	7.43	?	0.2	0.0	0.0	0.0	0.038	-0.1	0.01	?	?	?	0.00	0.2	0.0	0.0	-0.7	0.038	-0.1	0.01	?	0.992	190.7
6	02/28/2013 09:08:18 AM	?	10.07	?	0.0	-0.1	0.0	0.0	0.213	0.0	0.01	?	?	?	0.00	0.0	-0.1	0.0	0.2	0.213	0.0	0.01	?	0.992	190.7
7	02/28/2013 09:08:28 AM	?	11.24	?	0.0	0.0	0.0	0.0	-0.059	-0.1	0.00	?	?	?	0.00	0.0	0.0	0.0	-0.1	-0.059	-0.1	0.00	?	0.992	190.7
8	02/28/2013 09:08:38 AM	?	11.61	?	-0.1	0.2	0.0	0.0	-0.010	-0.1	-0.01	?	?	?	0.00	-0.1	0.2	0.0	-0.6	-0.010	-0.1	-0.01	?	0.992	190.7
9	02/28/2013 09:08:48 AM	?	11.77	?	0.0	0.0	0.0	0.0	0.048	0.0	0.00	?	?	?	0.00	0.0	-0.1	0.0	0.0	0.048	0.0	0.00	?	0.992	190.7
10	02/28/2013 09:08:58 AM	?	11.86	?	-0.1	-0.1	0.0	0.1	0.093	0.0	0.00	?	?	?	0.00	-0.1	-0.2	0.0	-0.5	0.093	0.0	0.00	?	0.990	190.7
11	02/28/2013 09:09:08 AM	?	11.87	?	0.1	0.0	0.0	0.0	-0.014	0.0	-0.01	?	?	?	0.00	0.1	0.0	0.0	-0.1	-0.014	0.0	-0.01	?	0.992	190.6
12	02/28/2013 09:09:18 AM	?	11.92	?	0.0	-0.1	0.0	0.0	0.002	0.0	-0.01	?	?	?	-0.01	0.0	-0.1	0.0	-0.5	0.002	0.0	-0.01	?	0.990	190.6
13	02/28/2013 09:09:29 AM	?	11.93	?	0.1	0.0	0.0	0.0	0.069	0.0	0.00	?	?	?	0.00	0.1	0.0	0.0	0.1	0.069	0.0	0.00	?	0.991	190.6
14	02/28/2013 09:09:39 AM	?	11.91	?	0.0	-0.1	0.0	0.0	0.127	0.0	0.00	?	?	?	0.00	0.0	-0.1	0.0	-0.5	0.127	0.0	0.00	?	0.992	190.7
15	02/28/2013 09:09:49 AM	?	11.91	?	0.2	-0.1	0.0	0.0	0.060	0.0	0.00	?	?	?	0.00	0.2	-0.1	0.0	-0.1	0.060	0.0	0.00	?	0.991	190.7
16	02/28/2013 09:09:59 AM	?	12.02	?	0.1	0.0	0.0	0.0	-0.037	0.0	-0.01	?	?	?	0.00	0.1	0.0	0.0	0.2	-0.037	0.0	-0.01	?	0.992	190.7
17	02/28/2013 09:10:09 AM	?	12.11	?	0.1	-0.1	0.0	0.0	0.044	0.0	-0.01	?	?	?	0.00	0.1	-0.1	0.0	-0.1	0.044	0.0	-0.01	?	0.991	190.7
18	02/28/2013 09:10:19 AM	?	12.12	?	0.2	0.0	0.0	0.0	0.062	0.0	0.01	?	?	?	0.00	0.2	-0.1	0.0	-0.2	0.062	0.0	0.01	?	0.992	190.7
19	02/28/2013 09:10:29 AM	?	12.12	?	0.1	0.0	0.0	0.1	-0.018	0.0	0.00	?	?	?	0.00	0.1	0.0	0.0	-0.4	-0.018	0.0	0.00	?	0.992	190.6
20	02/28/2013 09:10:39 AM	?	12.12	?	0.0	0.0	0.0	0.0	0.013	0.0	-0.01	?	?	?	0.00	0.0	0.0	0.0	0.0	0.013	0.0	-0.01	?	0.992	190.7
21	02/28/2013 09:10:49 AM	?	10.95	?	0.0	-0.1	0.0	0.0	-0.020	0.0	0.00	?	?	?	0.00	0.0	-0.1	0.0	-0.3	-0.020	0.0	0.00	?	0.991	190.7
22	02/28/2013 09:10:59 AM	?	5.96	?	0.0	0.0	0.0	0.0	0.044	0.0	0.01	?	?	?	0.00	0.0	0.0	0.0	0.0	0.044	0.0	0.00	?	0.990	190.6
23	02/28/2013 09:11:09 AM	?	2.49	?	-0.1	-0.1	0.0	0.0	0.030	0.0	-0.01	?	?	?	0.00	-0.1	-0.1	0.0	0.0	0.030	0.0	-0.01	?	0.992	190.7
24	02/28/2013 09:11:19 AM	?	0.92	?	0.1	0.0	0.0	0.0	-0.010	0.0	0.01	?	?	?	0.00	0.0	-0.1	0.0	0.1	-0.010	0.0	0.01	?	0.991	190.7
25	02/28/2013 09:11:29 AM	?	0.41	?	0.0	-0.1	0.0	0.0	-0.040	0.0	0.00	?	?	?	-0.01	0.0	0.0	0.1	0.0	-0.040	0.0	0.00	?	0.991	190.7
26	02/28/2013 09:11:39 AM	?	0.21	?	0.0	-0.1	0.0	0.0	-0.016	0.0	0.00	?	?	?	-0.01	-0.1	-0.1	0.0	0.0	-0.016	0.0	0.00	?	0.990	190.6
27	02/28/2013 09:11:49 AM	?	0.19	?	0.0	0.0	0.0	0.0	0.006	-0.1	0.01	?	?	?	0.00	0.0	-0.1	0.1	-0.4	0.006	-0.1	0.01	?	0.991	190.7
28	02/28/2013 09:12:00 AM	?	0.10	?	-0.1	0.0	0.0	0.0	0.059	0.0	0.00	?	?	?	0.00	-0.1	-0.1	0.0	-0.5	0.059	0.0	0.00	?	0.992	190.6
29	02/28/2013 09:12:10 AM	?	0.12	?	0.2	0.0	0.0	0.0	-0.076	0.0	0.00	?	?	?	0.00	0.2	0.0	0.0	-0.2	-0.076	0.0	0.00	?	0.992	190.6
30	02/28/2013 09:12:20 AM	?	0.08	?	0.1	0.0	0.0	0.0	0.034	0.0	0.01	?	?	?	0.00	0.1	0.0	0.0	0.0	0.034	0.0	0.01	?	0.992	190.6
31	02/28/2013 09:12:30 AM	?	0.07	?	0.1	-0.2	0.0	0.0	0.022	0.0	0.00	?	?	?	0.00	0.1	-0.2	0.0	-0.6	0.022	0.0	0.00	?	0.992	190.6
32	02/28/2013 09:12:40 AM	?	0.08	?	0.0	0.0	0.0	0.0	0.086	-0.1	0.01	?	?	?	0.00	0.0	0.0	0.0	0.0	0.086	-0.1	0.01	?	0.991	190.6
33	02/28/2013 09:12:50 AM	?	0.08	?	0.0	-0.2	0.0	0.0	0.041	0.0	0.00	?	?	?	0.00	0.0	-0.2	0.0	0.0	0.041	0.0	0.00	?	0.992	190.6
34	02/28/2013 09:13:00 AM	?	0.07	?	0.0	0.0	0.0	0.0	0.07	0.0	0.00	?	?	?	0.00	0.0	0.0	0.0	0.0	0.07	0.0	0.00	?	0.992	190.6
35	02/28/2013 09:13:10 AM	?	0.08	?	0.0	0.0	0.0	0.0	-0.001	0.0	0.00	?	?	?	0.00	0.0	0.0	0.0	-0.4	-0.001	0.0	0.00	?	0.992	190.7
36	02/28/2013 09:13:20 AM	?	2.74	?	0.2	0.0	0.0	0.0	-0.023	-0.1	0.00	?	?	?	0.00	0.2	0.0	0.0	0.0	-0.023	-0.1	0.00	?	0.991	190.7
37	02/28/2013 09:13:30 AM	?	4.56	?	0.1	-0.1	0.0	0.0	0.053	0.0	0.00	?	?	?	-0.01	0.1	0.1	0.0	-0.2	0.053	0.0	0.00	?	0.992	190.6
38	02/28/2013 09:13:40 AM	?	5.46	?	0.0	0.0	0.0	0.0	0.070	0.0	0.00	?	?	?	0.00	0.1	0.0	0.0	0.0	0.070	0.0	0.00	?	0.992	190.6
39	02/28/2013 09:13:50 AM	?	5.78	?	0.1	-0.1	0.0	0.0	0.030	0.0	0.00	?	?	?	0.00	0.1	-0.1	0.0	-0.6	0.030	0.0	0.00	?	0.991	190.6
40	02/28/2013 09:14:00 AM	?	5.87	?	0.0	-0.1	0.0	0.0	0.020	0.0	0.01	?	?	?	0.00	0.0	-0.1	0.0	-0.3	0.020	0.0	0.01	?	0.992	190.6
41	02/28/2013 09:14:10 AM	?	5.94	?	0.0	0.0	0.0	0.0	-0.039	-0.1	-0.01	?	?	?	0.00	0.0	0.0	0.0	-0.1	-0.039	-0.1	-0.01	?	0.991	190.6

42, 02/28/2013 09:14:21 AM,	?, 5.98,	?, -0.1,	0.0,	0.0,	0.0,	0.0,	0.0,	0.131,	0.0,	0.00,	?,	?,	?,	0.00,	-0.1,	-0.1,	0.0,	-0.2,	0.131,	0.0,	0.00,	?,	0.991,	190.6
43, 02/28/2013 09:14:31 AM,	?, 5.97,	?, 0.1,	0.0,	0.0,	0.0,	0.0,	0.0,	0.049,	0.0,	0.01,	?,	?,	?,	0.00,	0.1,	0.0,	0.0,	0.4,	0.049,	0.0,	0.01,	?,	0.992,	190.6
44, 02/28/2013 09:14:41 AM,	?, 5.99,	?, -0.1,	0.2,	0.0,	0.0,	0.0,	0.0,	-0.024,	0.0,	0.00,	?,	?,	?,	0.00,	-0.1,	0.1,	0.1,	0.3,	-0.024,	0.0,	0.00,	?,	0.991,	190.7
45, 02/28/2013 09:14:51 AM,	?, 5.98,	?, 0.0,	0.0,	0.0,	0.0,	0.0,	0.0,	0.000,	-0.1,	0.00,	?,	?,	?,	0.01,	0.0,	-0.1,	0.1,	0.0,	0.000,	-0.1,	0.00,	?,	0.991,	190.6

```

Miscellaneous:
LoggingInterval (seconds), 10
StabilizeInterval (seconds), 30
CalibrationErrorCheckTolerance (%), 2.0
PreO2InstrumentChannelRange, unknown
PostO2InstrumentChannelRange, 25
PreCOInstrumentChannelRange, unknown
PostCOInstrumentChannelRange, 250
NOxInstrumentChannelRange, 1000
DateTimeCompleted, 2/28/2013 9:14:56 AM, 3jHokzVpActXX5puHOGNIyw4FcnZpOyomZyEebNaII=

```

Summary:

calibration, gas,	cal gas, final cert. concentration,	accepted, measured concentration,	date/time, of accepted, measured concentration,	cylinder, serial, number,	cylinder, expiration date,
Low Post O2,	0.00 %,	0.07 %,	02/28/2013 09:12:15 AM,	zero-cylinder,	01-01-2099
Mid Post O2,	6.00 %,	5.97 %,	02/28/2013 09:14:52 AM,	CC141150,	09-18-2015
High Post O2,	12.00 %,	12.12 %,	02/28/2013 09:10:11 AM,	CC141150,	09-18-2015

\*\*\*\*\*Bias Check 1\*\*\*\*\*  
 TestCfgFilePathNameExt, "C:\EmTestData\Speed Of Air Test 2\_Unitc-35\_2013-02-28\EmTest.xls"

Raw Data:

Record, ID,	Date/Time,	Pre O2, Dry, (%),	Post O2, Dry, (%),	Pre CO, Dry, (ppm),	Post CO, Dry, (ppm),	NOx, Dry, (ppm),	VOC Dry, as Prop, (ppm),	THC Dry, as Prop, (ppm),	HCHO, Dry, (ppm),	NH3, Dry, (ppm),	CO2, Dry, (%),	Ambient, Pressure, (InHg),	Ambient, Temp, (degF),	Relative, Humidity, (%),	H2O%, (%),	CO, wet, (ppm),	NO, wet, (ppm),	NO2, wet, (ppm),	Propane, wet, (ppm),	HCHO, wet, (ppm),	NH3, wet, (ppm),	CO2, wet, (%),	ZZ, (none),	Gas, Pres, (atm),	Gas Temp (degC)
0,	02/28/2013 02:20:12 PM,	?,	19.88,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
1,	02/28/2013 02:20:22 PM,	?,	19.94,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
2,	02/28/2013 02:20:32 PM,	?,	19.98,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
3,	02/28/2013 02:20:42 PM,	?,	19.31,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
4,	02/28/2013 02:20:52 PM,	?,	12.39,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
5,	02/28/2013 02:21:02 PM,	?,	8.24,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
6,	02/28/2013 02:21:12 PM,	?,	6.78,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
7,	02/28/2013 02:21:22 PM,	?,	6.34,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
8,	02/28/2013 02:21:32 PM,	?,	6.22,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
9,	02/28/2013 02:21:42 PM,	?,	6.18,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
10,	02/28/2013 02:21:52 PM,	?,	6.12,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
11,	02/28/2013 02:22:02 PM,	?,	6.13,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
12,	02/28/2013 02:22:12 PM,	?,	6.12,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
13,	02/28/2013 02:22:22 PM,	?,	6.13,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
14,	02/28/2013 02:22:32 PM,	?,	6.13,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
15,	02/28/2013 02:22:42 PM,	?,	6.08,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
16,	02/28/2013 02:22:52 PM,	?,	6.02,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
17,	02/28/2013 02:23:02 PM,	?,	6.03,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
18,	02/28/2013 02:23:12 PM,	?,	6.03,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
19,	02/28/2013 02:23:22 PM,	?,	4.87,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
20,	02/28/2013 02:23:32 PM,	?,	3.18,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
21,	02/28/2013 02:23:42 PM,	?,	1.78,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
22,	02/28/2013 02:23:52 PM,	?,	0.67,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
23,	02/28/2013 02:24:02 PM,	?,	0.29,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
24,	02/28/2013 02:24:12 PM,	?,	0.16,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?
25,	02/28/2013 02:24:22 PM,	?,	0.11,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?,	?

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Miscellaneous:
LoggingInterval (seconds), 10
StabilizeInterval (seconds), 30
BiasCheckTolerance (%), 5.0
DriftCheckTolerance (%), 3.0
DateTimeCompleted, 2/28/2013 2:24:27 PM, ea74Rgyv7woJ09C/3IipkrH7MV7zjz0fmErQyez/0w=

```

Summary:

calibration, gas,	cal gas, final cert. concentration,	accepted, measured concentration,	date/time, of accepted, measured concentration,	cylinder, serial, number,	cylinder, expiration date,
Low Post O2,	0.00 %,	0.07 %,	02/28/2013 02:24:24 PM,	zero-cylinder,	01-01-2099
Mid Post O2,	6.00 %,	6.08 %,	02/28/2013 02:22:44 PM,	CC141150,	09-18-2015

\*\*\*\*\*Test Run 1\*\*\*\*\*  
 TestCfgFilePathNameExt, "C:\EmTestData\Speed Of Air Test 2\_Unitc-35\_2013-02-28\EmTest.xls"

```

PreO2DryIndex, -1
PostO2DryIndex, -1
PreCOdryIndex, 3
PostCOdryIndex, 3
NOxDryIndex, 4
VOCdryIndex, 5
THCdryIndex, 6
HCHOdryIndex, 7
NH3dryIndex, 8
Spare1DryIndex, -1
Spare2DryIndex, -1
Spare3DryIndex, -1
Spare4DryIndex, -1

```

H2OIndex, 13  
 NmhwetIndex, -1  
 ThcwetIndex, -1  
 CowetIndex, 14  
 NowetIndex, 15  
 NoZwetIndex, 16  
 PropanewetIndex, 17  
 HchowetIndex, 18  
 NH3wetIndex, 19  
 Spare1wetIndex, -1  
 Spare2wetIndex, -1  
 Spare3wetIndex, -1  
 Spare4wetIndex, -1

Raw Data:

Record ID	Date/Time	Pre O2 (%)	Post O2 (%)	Pre CO2 (ppm)	Post CO2 (ppm)	NOx (ppm)	VOC Dry, as Prop. (ppm)	THC Dry, as Prop. (ppm)	HCHO, Dry (ppm)	NH3, Dry (ppm)	CO2, Dry (%)	Ambient Pressure (InHg)	Ambient Temp (degF)	Relative Humidity (%)	H2O% (%)	CO, Wet (ppm)	NO, Wet (ppm)	NO2, Wet (ppm)	Propane, Wet (ppm)	HCHO, Wet (ppm)	NH3, Wet (ppm)	CO2, Wet (%)	Gas Pres. (none)	Gas Temp (degC)	
0	02/28/2013 02:40:46 PM	?	8.68	?	289.7	55.6	15.8	425.9	27.085	xxxxxxx	6.34	?	?	?	7.15	269.0	16.7	34.9	1.2	25.149	xxxxxxx	5.89	?	0.986	190.9
1	02/28/2013 02:40:56 PM	?	8.74	?	295.4	69.7	15.7	412.6	26.585	xxxxxxx	6.39	?	?	?	6.81	275.2	25.2	39.7	1.0	24.774	xxxxxxx	5.95	?	0.986	190.9
2	02/28/2013 02:41:06 PM	?	8.80	?	301.9	72.7	16.4	401.5	28.113	xxxxxxx	6.33	?	?	?	6.40	282.6	25.6	42.4	1.8	26.314	xxxxxxx	5.93	?	0.987	190.9
3	02/28/2013 02:41:16 PM	?	8.69	?	290.7	59.0	15.8	427.0	23.006	xxxxxxx	6.34	?	?	?	5.89	273.5	18.5	37.0	0.5	21.652	xxxxxxx	5.97	?	0.986	190.8
4	02/28/2013 02:41:26 PM	?	8.69	?	288.1	47.5	16.0	438.8	21.214	xxxxxxx	6.30	?	?	?	5.61	271.9	12.1	32.7	0.8	20.025	xxxxxxx	5.95	?	0.986	190.9
5	02/28/2013 02:41:36 PM	?	8.79	?	291.9	61.6	15.9	418.8	16.072	xxxxxxx	6.38	?	?	?	5.93	274.6	20.1	38.0	0.7	15.118	xxxxxxx	6.00	?	0.986	190.9
6	02/28/2013 02:41:46 PM	?	8.84	?	295.7	75.9	15.7	403.1	19.084	xxxxxxx	6.44	?	?	?	7.14	275.8	28.8	42.0	0.8	17.798	xxxxxxx	6.01	?	0.986	190.9
7	02/28/2013 02:41:56 PM	?	8.78	?	294.4	77.0	15.6	399.8	22.873	xxxxxxx	6.43	?	?	?	6.74	273.3	29.3	42.3	1.1	21.241	xxxxxxx	5.97	?	0.987	190.9
8	02/28/2013 02:42:07 PM	?	8.69	?	296.2	75.5	15.9	406.2	24.043	xxxxxxx	6.41	?	?	?	6.81	276.0	28.3	42.0	0.8	22.405	xxxxxxx	5.97	?	0.987	190.9
9	02/28/2013 02:42:17 PM	?	8.63	?	295.3	72.9	15.8	409.8	21.758	xxxxxxx	6.41	?	?	?	6.45	276.3	26.9	41.3	0.6	20.355	xxxxxxx	6.00	?	0.986	190.9
10	02/28/2013 02:42:27 PM	?	8.63	?	292.2	61.1	16.0	419.7	19.616	xxxxxxx	6.38	?	?	?	6.32	273.8	19.4	37.9	0.6	18.377	xxxxxxx	5.98	?	0.986	190.9
11	02/28/2013 02:42:37 PM	?	8.68	?	291.5	50.5	16.2	437.2	19.481	xxxxxxx	6.32	?	?	?	6.25	273.3	13.6	33.8	1.2	18.262	xxxxxxx	5.92	?	0.987	190.9
12	02/28/2013 02:42:47 PM	?	8.73	?	286.8	44.1	16.1	449.0	20.842	xxxxxxx	6.28	?	?	?	6.22	269.0	10.4	30.9	1.3	19.546	xxxxxxx	5.89	?	0.986	190.9
13	02/28/2013 02:42:57 PM	?	8.83	?	288.8	42.7	16.3	450.1	25.077	xxxxxxx	6.27	?	?	?	5.97	271.6	10.0	30.2	1.3	23.524	xxxxxxx	5.90	?	0.987	190.9
14	02/28/2013 02:43:07 PM	?	8.89	?	289.4	38.3	16.5	463.0	22.764	xxxxxxx	6.25	?	?	?	5.41	273.8	8.3	28.0	1.1	21.532	xxxxxxx	5.91	?	0.987	190.9
15	02/28/2013 02:43:17 PM	?	8.94	?	291.0	36.8	16.7	466.4	17.247	xxxxxxx	6.24	?	?	?	5.04	276.3	7.7	27.2	0.8	16.378	xxxxxxx	5.93	?	0.987	190.9
16	02/28/2013 02:43:27 PM	?	8.95	?	291.0	43.3	16.4	450.1	16.309	xxxxxxx	6.29	?	?	?	4.99	276.5	10.5	30.6	0.6	15.496	xxxxxxx	5.98	?	0.986	190.9
17	02/28/2013 02:43:37 PM	?	8.95	?	296.7	76.3	16.0	409.5	16.687	xxxxxxx	6.40	?	?	?	4.92	275.7	23.4	40.2	1.0	15.866	xxxxxxx	6.09	?	0.987	190.9
18	02/28/2013 02:43:47 PM	?	8.86	?	295.6	75.9	16.0	401.8	14.528	xxxxxxx	6.43	?	?	?	4.77	281.5	28.8	43.5	0.4	13.836	xxxxxxx	6.12	?	0.987	190.8
19	02/28/2013 02:43:57 PM	?	8.75	?	291.2	53.5	16.3	432.2	16.809	xxxxxxx	6.33	?	?	?	5.38	275.5	15.2	35.4	1.1	15.905	xxxxxxx	5.99	?	0.986	190.9
20	02/28/2013 02:44:07 PM	?	8.69	?	293.1	53.0	16.3	442.0	18.125	xxxxxxx	6.33	?	?	?	5.30	277.6	15.1	35.1	0.8	17.164	xxxxxxx	5.99	?	0.986	190.9
21	02/28/2013 02:44:17 PM	?	8.83	?	288.9	62.6	16.2	428.6	18.692	xxxxxxx	6.37	?	?	?	5.26	277.6	16.2	34.6	1.1	17.717	xxxxxxx	6.02	?	0.986	190.9
22	02/28/2013 02:44:27 PM	?	8.80	?	287.1	54.1	16.1	420.7	17.733	xxxxxxx	6.35	?	?	?	5.20	272.2	15.6	35.7	0.8	16.811	xxxxxxx	6.02	?	0.987	190.9
23	02/28/2013 02:44:37 PM	?	8.84	?	293.2	73.2	16.1	403.3	17.638	xxxxxxx	6.43	?	?	?	5.31	277.6	27.4	41.9	0.6	16.701	xxxxxxx	6.09	?	0.987	190.9
24	02/28/2013 02:44:47 PM	?	8.79	?	296.4	75.8	16.1	402.1	19.498	xxxxxxx	6.43	?	?	?	5.56	279.9	28.5	43.1	0.8	18.413	xxxxxxx	6.08	?	0.986	190.9
25	02/28/2013 02:44:57 PM	?	8.69	?	298.0	73.8	16.1	407.6	20.681	xxxxxxx	6.47	?	?	?	5.63	281.2	27.2	42.5	0.8	19.615	xxxxxxx	6.06	?	0.987	190.9
26	02/28/2013 02:45:07 PM	?	8.64	?	291.0	62.7	16.2	413.2	22.229	xxxxxxx	6.37	?	?	?	5.54	274.9	20.6	38.7	1.0	20.997	xxxxxxx	6.02	?	0.988	190.9
27	02/28/2013 02:45:18 PM	?	8.69	?	290.4	48.5	16.5	440.0	22.865	xxxxxxx	6.30	?	?	?	5.64	274.0	12.8	33.0	0.9	21.575	xxxxxxx	5.94	?	0.986	190.9
28	02/28/2013 02:45:28 PM	?	8.73	?	291.1	43.6	16.6	451.3	26.871	xxxxxxx	6.25	?	?	?	6.20	267.2	10.1	29.9	1.4	24.483	xxxxxxx	5.74	?	0.987	190.9
29	02/28/2013 02:45:38 PM	?	8.83	?	290.7	62.0	16.9	420.8	18.807	xxxxxxx	6.48	?	?	?	6.90	273.0	21.7	39.2	1.5	20.304	xxxxxxx	5.94	?	0.987	190.9
30	02/28/2013 02:45:48 PM	?	8.94	?	290.9	38.7	16.9	460.8	25.891	xxxxxxx	6.22	?	?	?	8.24	266.9	8.1	27.4	1.4	23.759	xxxxxxx	5.71	?	0.987	190.9
31	02/28/2013 02:45:58 PM	?	8.94	?	290.3	36.4	17.0	466.3	24.917	xxxxxxx	6.24	?	?	?	8.10	266.8	7.2	26.2	1.4	22.899	xxxxxxx	5.73	?	0.986	190.9
32	02/28/2013 02:46:08 PM	?	8.95	?	290.0	44.0	17.0	454.5	26.566	xxxxxxx	6.27	?	?	?	7.91	267.0	10.9	29.7	1.7	24.465	xxxxxxx	5.78	?	0.987	190.9
33	02/28/2013 02:46:18 PM	?	8.94	?	296.7	76.3	16.0	409.5	16.687	xxxxxxx	6.40	?	?	?	7.06	275.7	23.4	40.2	1.0	15.866	xxxxxxx	6.09	?	0.987	190.9
34	02/28/2013 02:46:28 PM	?	8.84	?	291.1	50.6	16.6	435.3	22.806	xxxxxxx	6.31	?	?	?	6.88	271.1	13.8	33.2	1.3	21.237	xxxxxxx	5.88	?	0.986	190.9
35	02/28/2013 02:46:38 PM	?	8.68	?	288.7	45.1	16.6	454.2	20.329	xxxxxxx	6.27	?	?	?	6.75	269.2	11.0	31.0	1.5	18.957	xxxxxxx	5.85	?	0.987	190.9
36	02/28/2013 02:46:48 PM	?	8.79	?	292.6	48.1	17.3	441.3	20.131	xxxxxxx	6.29	?	?	?	6.79	272.7	12.3	32.5	1.8	18.765	xxxxxxx	5.87	?	0.987	190.9
37	02/28/2013 02:47:38 PM	?	8.83	?	293.3	65.4	16.5	409.7	21.807	xxxxxxx	6.38	?	?	?	6.90	273.0	21.7	39.2	1.5	20.304	xxxxxxx	5.94	?	0.987	190.9
38	02/28/2013 02:47:48 PM	?	8.83	?	293.9	72.6	16.1	401.3	26.787	xxxxxxx	6.43	?	?	?	6.82	273.9	25.9	41.8	0.7	24.960	xxxxxxx	5.99	?	0.986	190.9
39	02/28/2013 02:47:58 PM	?	8.74	?	295.4	75.5	16.2	400.4	20.877	xxxxxxx	6.43	?	?	?	6.65	275.8	27.8	42.7	0.7	19.488	xxxxxxx	6.00	?	0.988	190.8
40	02/28/2013 02:47:28 PM	?	8.69	?	293.9	62.9	16.5	417.9	20.605	xxxxxxx	6.36	?	?	?	6.63	274.4	20.0	38.7	1.1	19.239	xxxxxxx	5.94	?	0.986	190.8
41	02/28/2013 02:47:38 PM	?	8.69	?	291.2	47.8	17.0	442.2	20.551	xxxxxxx	6.30	?	?	?	6.60	272.0	11.9	32.7	1.6	19.199	xxxxxxx	5.88	?	0.987	190.8
42	02/28/2013 02:47:48 PM	?	8.73	?	290.4	41.0	16.9	469.2	20.532	xxxxxxx	6.25	?	?	?	6.29	271.3	9.0	29.3	1.4	19.178	xxxxxxx	5.84	?	0.987	190.8
43	02/28/2013 02:47:58 PM	?	8.84	?	291.8	42.8	16.9	452.0	21.436	xxxxxxx	6.25	?	?	?	6.55	272.6	9.7	30.3	1.0	20.031	xxxxxxx	5.85	?	0.988	190.7
44	02/28/2013 02:48:08 PM	?	8.89	?	293.7	59.0	16.5	433.3	21.602	xxxxxxx	6.35	?	?	?	6.52	274.6	18.4	36.7	1.0	20.191	xxxxxxx	5.94	?	0.987	190.8
45	02/28/2013 02:48:18 PM	?	8.90	?	297.6	77.5	16.3	402.7	21.147	xxxxxxx	6.43	?	?	?	6.75	277.5	29.2	43.1	0.8	19.719	xxxxxxx	5.99	?	0.987	190.7
46	02/28/2013 02:48:28 PM	?	8.73	?	297.3	81.3	16.2	397.6	30.648	xxxxxxx	6.42	?	?	?	8.94	270.7	31.2	42.8	1.1	27.906	xxxxxxx	5.85	?	0.987	190.7
47	02/28/2013 02:48:38 PM	?	8.66	?	292.2	43.5	17.0	460.1	27.348	xxxxxxx	6.25	?	?	?	8.20	268.2	9.8	30.1	1.4	25.104	xxxxxxx	5.74	?	0.987	190.8
48	02/28/2013 02:48:48 PM	?	8.69	?	293.0	40.1	18.2	496.5	24.244	xxxxxxx	6.22	?	?	?	7.98	269.6	9.0	27.9	2.0	22.310	xxxxxxx	5.72	?	0.986	190.8
49	02/28/2013 02:48:58 PM	?	8.79	?	291.1	32.5	17.6	479.1	26.373	xxxxxxx	6.16	?	?	?	8.76	265.6	5.7	23.9	1.8	24.062	xxxxxxx	5.62	?	0.987	190.7
50	02/28/2013 02:49:08 PM	?	8.91	?	293.4	32.8	18.4	492.5	30.564	xxxxxxx	6.17	?	?	?	9.25	266.3	5.9	23.9	2.0	27.736	xxxx				

81.	02/28/2013	02:54:19	PM	?	8.79	?	293.1	60.8	16.7	420.4	29.890	xxxxxxx	6.35	?	?	?	?	8.18	269.2	18.1	37.7	0.8	27.446	xxxxxxx	5.83	?	0.986	190.9
82.	02/28/2013	02:54:29	PM	?	8.84	?	296.9	79.4	16.4	395.4	31.552	xxxxxxx	6.44	?	?	?	?	8.08	272.9	29.3	43.6	0.3	29.002	xxxxxxx	5.92	?	0.987	190.9
83.	02/28/2013	02:54:39	PM	?	8.80	?	299.2	83.5	16.4	397.5	26.331	xxxxxxx	6.45	?	?	?	?	7.90	275.5	33.0	43.8	1.1	24.251	xxxxxxx	5.94	?	0.986	190.9
84.	02/28/2013	02:54:49	PM	?	8.69	?	294.8	61.2	16.8	424.4	26.803	xxxxxxx	6.34	?	?	?	?	8.22	270.5	18.6	37.6	1.4	24.600	xxxxxxx	5.82	?	0.986	190.9
85.	02/28/2013	02:54:59	PM	?	8.63	?	292.8	42.7	16.9	448.9	28.728	xxxxxxx	6.26	?	?	?	?	8.28	265.1	9.3	29.9	1.2	26.349	xxxxxxx	5.74	?	0.986	190.9
86.	02/28/2013	02:55:09	PM	?	8.75	?	293.0	40.2	18.5	461.2	24.922	xxxxxxx	6.23	?	?	?	?	8.75	267.4	8.2	28.5	2.1	22.742	xxxxxxx	5.68	?	0.986	190.9
87.	02/28/2013	02:55:19	PM	?	8.88	?	291.4	35.3	18.8	469.5	24.840	xxxxxxx	6.20	?	?	?	?	9.07	265.0	6.6	25.6	2.1	22.587	xxxxxxx	5.64	?	0.987	190.8
88.	02/28/2013	02:55:29	PM	?	8.77	?	289.8	33.6	18.8	468.5	25.928	xxxxxxx	6.21	?	?	?	?	8.81	264.2	6.0	24.7	2.2	23.642	xxxxxxx	5.66	?	0.986	190.8
89.	02/28/2013	02:55:39	PM	?	8.93	?	291.6	34.5	19.7	470.6	25.447	xxxxxxx	6.21	?	?	?	?	8.51	266.8	6.2	25.4	2.4	23.280	xxxxxxx	5.68	?	0.986	190.9
90.	02/28/2013	02:55:49	PM	?	9.04	?	290.1	47.8	17.0	431.0	24.069	xxxxxxx	6.29	?	?	?	?	8.16	266.4	11.7	32.2	1.3	22.106	xxxxxxx	5.77	?	0.987	190.8
91.	02/28/2013	02:55:59	PM	?	9.00	?	297.4	75.4	16.6	398.6	25.500	xxxxxxx	6.42	?	?	?	?	10.0	273.4	27.2	42.2	1.0	23.441	xxxxxxx	5.91	?	0.986	190.9
92.	02/28/2013	02:56:09	PM	?	8.94	?	299.5	81.9	16.6	404.2	26.169	xxxxxxx	6.45	?	?	?	?	7.97	275.7	32.0	43.5	0.9	24.082	xxxxxxx	5.94	?	0.986	190.9
93.	02/28/2013	02:56:19	PM	?	8.79	?	293.6	64.2	16.7	429.9	24.971	xxxxxxx	6.38	?	?	?	?	8.65	270.6	20.6	38.6	1.0	23.015	xxxxxxx	5.88	?	0.986	190.8
94.	02/28/2013	02:56:29	PM	?	8.70	?	295.5	70.2	16.5	411.3	24.116	xxxxxxx	6.39	?	?	?	?	7.71	272.7	24.5	40.3	1.2	22.258	xxxxxxx	5.90	?	0.987	190.8
95.	02/28/2013	02:56:39	PM	?	8.69	?	293.0	57.6	16.8	425.7	25.058	xxxxxxx	6.34	?	?	?	?	7.63	270.7	16.8	36.4	1.0	23.147	xxxxxxx	5.86	?	0.987	190.8
96.	02/28/2013	02:56:49	PM	?	8.69	?	291.3	53.8	16.9	425.8	26.291	xxxxxxx	6.32	?	?	?	?	7.58	269.2	15.0	34.8	1.5	24.298	xxxxxxx	5.84	?	0.987	190.9
97.	02/28/2013	02:56:59	PM	?	8.79	?	292.6	60.3	16.9	421.0	27.531	xxxxxxx	6.34	?	?	?	?	7.58	270.5	18.9	36.8	1.4	25.444	xxxxxxx	5.86	?	0.987	190.9
98.	02/28/2013	02:57:09	PM	?	8.79	?	299.3	83.0	16.4	397.3	28.629	xxxxxxx	6.47	?	?	?	?	7.48	276.9	33.0	43.8	1.3	26.886	xxxxxxx	5.99	?	0.986	190.9
99.	02/28/2013	02:57:19	PM	?	8.73	?	296.0	80.7	16.3	395.6	26.795	xxxxxxx	6.44	?	?	?	?	7.41	274.0	31.2	43.6	0.7	24.810	xxxxxxx	5.96	?	0.986	190.8
100.	02/28/2013	02:57:29	PM	?	8.64	?	296.0	71.2	16.5	407.7	28.004	xxxxxxx	6.41	?	?	?	?	7.38	274.1	25.0	41.0	1.1	25.937	xxxxxxx	5.94	?	0.986	190.9
101.	02/28/2013	02:57:39	PM	?	8.64	?	293.8	55.5	16.9	435.7	29.840	xxxxxxx	6.32	?	?	?	?	7.36	272.2	16.0	35.4	1.4	27.644	xxxxxxx	5.86	?	0.986	190.8
102.	02/28/2013	02:57:49	PM	?	8.69	?	291.5	45.4	17.4	451.9	31.658	xxxxxxx	6.25	?	?	?	?	7.36	270.0	11.1	31.0	1.8	29.327	xxxxxxx	5.79	?	0.986	190.9
103.	02/28/2013	02:57:59	PM	?	8.78	?	293.2	38.6	17.6	474.8	33.307	xxxxxxx	6.21	?	?	?	?	7.30	271.8	8.3	27.4	1.7	30.874	xxxxxxx	5.76	?	0.987	190.9
104.	02/28/2013	02:58:09	PM	?	8.78	?	290.0	40.3	17.3	463.6	32.012	xxxxxxx	6.26	?	?	?	?	6.79	270.3	9.1	28.4	1.7	29.838	xxxxxxx	5.83	?	0.986	190.9
105.	02/28/2013	02:58:19	PM	?	8.99	?	292.4	36.6	17.6	422.7	23.552	xxxxxxx	6.37	?	?	?	?	7.75	272.7	28.7	36.1	1.6	24.066	xxxxxxx	5.94	?	0.986	190.9
106.	02/28/2013	02:58:29	PM	?	8.99	?	297.8	73.3	17.3	404.0	23.645	xxxxxxx	6.42	?	?	?	?	7.86	274.4	26.2	41.3	1.8	21.786	xxxxxxx	5.92	?	0.986	190.9
107.	02/28/2013	02:58:39	PM	?	8.89	?	295.5	74.6	16.6	403.1	21.988	xxxxxxx	6.41	?	?	?	?	7.93	272.1	27.5	41.2	1.4	20.245	xxxxxxx	5.90	?	0.987	190.9
108.	02/28/2013	02:58:49	PM	?	8.73	?	295.2	53.2	17.1	449.1	22.223	xxxxxxx	6.31	?	?	?	?	8.13	271.2	14.4	34.5	1.4	20.416	xxxxxxx	5.80	?	0.987	190.9
109.	02/28/2013	02:58:59	PM	?	8.79	?	292.0	40.0	18.2	429.0	23.800	xxxxxxx	6.29	?	?	?	?	7.86	266.6	7.0	26.1	1.4	22.800	xxxxxxx	5.77	?	0.986	190.9
110.	02/28/2013	02:59:09	PM	?	8.77	?	295.1	36.3	19.8	480.3	25.335	xxxxxxx	6.20	?	?	?	?	8.75	269.2	7.0	26.1	2.4	23.118	xxxxxxx	5.66	?	0.986	190.9
111.	02/28/2013	02:59:19	PM	?	8.90	?	290.9	43.5	17.1	443.6	24.458	xxxxxxx	6.27	?	?	?	?	8.65	265.8	9.9	29.9	1.4	22.343	xxxxxxx	5.72	?	0.987	190.9
112.	02/28/2013	02:59:29	PM	?	8.99	?	289.5	52.6	16.7	422.1	25.424	xxxxxxx	6.34	?	?	?	?	8.67	264.4	14.1	34.0	1.2	23.221	xxxxxxx	5.79	?	0.986	190.9
113.	02/28/2013	02:59:39	PM	?	8.83	?	292.0	40.0	18.2	429.0	23.800	xxxxxxx	6.29	?	?	?	?	7.86	268.6	7.0	26.1	1.4	24.066	xxxxxxx	5.77	?	0.986	190.9
114.	02/28/2013	02:59:50	PM	?	8.83	?	296.5	74.3	16.6	403.6	27.061	xxxxxxx	6.43	?	?	?	?	8.42	271.6	26.4	41.7	0.9	24.784	xxxxxxx	5.89	?	0.986	190.9
115.	02/28/2013	03:00:00	PM	?	8.73	?	292.6	57.9	16.9	436.7	26.571	xxxxxxx	6.35	?	?	?	?	8.06	269.0	16.7	36.6	1.5	24.429	xxxxxxx	5.84	?	0.986	190.9
116.	02/28/2013	03:00:10	PM	?	8.70	?	292.0	47.9	17.1	439.8	23.989	xxxxxxx	6.32	?	?	?	?	7.89	269.0	12.1	32.0	1.6	22.096	xxxxxxx	5.82	?	0.985	190.9
117.	02/28/2013	03:00:20	PM	?	8.79	?	289.6	40.7	17.4	449.7	23.828	xxxxxxx	6.26	?	?	?	?	7.89	266.7	7.9	27.5	1.6	22.096	xxxxxxx	5.77	?	0.986	190.9
118.	02/28/2013	03:00:30	PM	?	8.84	?	290.8	38.4	17.3	455.9	25.377	xxxxxxx	6.26	?	?	?	?	7.88	267.8	9.0	28.6	1.6	23.376	xxxxxxx	5.77	?	0.985	190.9
119.	02/28/2013	03:00:40	PM	?	8.92	?	290.8	51.9	17.0	428.6	29.311	xxxxxxx	6.31	?	?	?	?	7.66	268.6	14.0	33.9	1.6	27.065	xxxxxxx	5.83	?	0.987	190.8
120.	02/28/2013	03:00:50	PM	?	8.94	?	296.1	73.0	16.6	402.6	27.330	xxxxxxx	6.42	?	?	?	?	7.41	274.1	26.3	41.3	1.2	25.304	xxxxxxx	5.94	?	0.986	190.9
121.	02/28/2013	03:01:00	PM	?	8.99	?	297.9	77.0	16.6	400.3	25.953	xxxxxxx	6.44	?	?	?	?	7.27	276.2	28.7	36.1	1.6	24.066	xxxxxxx	5.94	?	0.986	190.9
122.	02/28/2013	03:01:10	PM	?	8.79	?	291.5	63.7	16.6	418.8	22.784	xxxxxxx	6.36	?	?	?	?	7.13	270.7	20.7	38.5	1.5	21.159	xxxxxxx	5.91	?	0.986	190.9
123.	02/28/2013	03:01:20	PM	?	8.69	?	291.4	44.7	18.7	454.2	21.714	xxxxxxx	6.26	?	?	?	?	7.17	270.5	10.6	30.9	2.2	20.158	xxxxxxx	5.81	?	0.986	190.8
124.	02/28/2013	03:01:30	PM	?	8.68	?	290.1	37.3	17.4	459.5	21.904	xxxxxxx	6.23	?	?	?	?	7.24	269.1	7.6	27.0	1.7	20.317	xxxxxxx	5.78	?	0.987	190.9
125.	02/28/2013	03:01:40	PM	?	8.83	?	291.7	32.8	18.0	479.9	22.722	xxxxxxx	6.20	?	?	?	?	7.28	270.4	6.0	24.5	1.7	21.068	xxxxxxx	5.74	?	0.986	190.9
126.	02/28/2013	03:01:50	PM	?	8.94	?	291.3	30.9	18.6	495.3	23.615	xxxxxxx	6.18	?	?	?	?	7.24	270.2	5.4	23.2	2.0	21.904	xxxxxxx	5.74	?	0.987	190.9
127.	02/28/2013	03:02:00	PM	?	8.98	?	295.9	30.6	20.2	503.4	27.034	xxxxxxx	6.16	?	?	?	?	10.76	272.4	5.5	22.6	2.5	24.884	xxxxxxx	5.67	?	0.986	190.9
128.	02/28/2013	03:02:10	PM	?	9.05	?	294.8	29.8	19.9	508.2	46.624	xxxxxxx	6.14	?	?	?	?	7.95	263.1	4.6	22.0	2.3	41.608	xxxxxxx	5.48	?	0.987	190.9
129.	02/28/2013	03:02:20	PM	?	9.10	?	296.0	29.6	20.1	494.6	40.989	xxxxxxx	6.44	?	?	?	?	9.84	267.6	6.0	22.8	1.9	36.957	xxxxxxx	5.66	?	0.986	190.9
130.	02/28/2013	03:02:30	PM	?	9.09	?	292.2	32.1	18.9	488.7	33.495	xxxxxxx	6.19	?	?	?	?	9.25	265.1	5.5	23.6	2.0	30.398	xxxxxxx	5.62	?	0.98	

181	02/28/2013	03:11:01 PM	?	8.73	?	295.2	40.6	19.6	469.9	29.768	xxxxxxx	6.24	?	?	?	9.09	268.4	8.2	28.7	2.2	27.063	xxxxxxx	5.67	?	0.986	190.9
182	02/28/2013	03:11:11 PM	?	8.84	?	294.9	37.5	20.8	474.4	31.845	xxxxxxx	6.23	?	?	?	9.78	266.0	7.3	26.6	2.8	28.731	xxxxxxx	5.62	?	0.986	190.8
183	02/28/2013	03:11:21 PM	?	8.90	?	293.3	36.3	20.0	475.9	34.574	xxxxxxx	6.21	?	?	?	9.70	264.8	7.0	25.8	2.3	31.221	xxxxxxx	5.61	?	0.986	190.9
184	02/28/2013	03:11:31 PM	?	8.99	?	293.1	41.5	18.6	461.9	33.780	xxxxxxx	6.25	?	?	?	9.34	265.7	9.1	28.5	2.0	30.625	xxxxxxx	5.67	?	0.986	190.9
185	02/28/2013	03:11:41 PM	?	8.99	?	294.7	37.4	17.4	423.9	35.716	xxxxxxx	6.34	?	?	?	9.15	267.3	16.7	35.5	1.5	32.446	xxxxxxx	5.76	?	0.986	190.9
186	02/28/2013	03:11:51 PM	?	8.99	?	299.7	75.0	17.2	405.9	33.180	xxxxxxx	6.41	?	?	?	8.87	273.1	26.7	41.6	0.9	30.235	xxxxxxx	5.84	?	0.986	190.9
187	02/28/2013	03:12:01 PM	?	8.78	?	298.9	80.8	16.9	396.0	32.262	xxxxxxx	6.46	?	?	?	8.81	272.6	30.3	43.3	0.9	29.420	xxxxxxx	5.89	?	0.986	190.8
188	02/28/2013	03:12:11 PM	?	8.68	?	294.4	67.8	17.1	410.0	34.689	xxxxxxx	6.39	?	?	?	9.44	266.6	22.6	38.9	1.3	31.415	xxxxxxx	5.79	?	0.986	190.9
189	02/28/2013	03:12:22 PM	?	8.65	?	292.9	49.9	17.8	435.6	42.188	xxxxxxx	6.32	?	?	?	10.55	262.0	12.0	32.6	1.8	37.737	xxxxxxx	5.66	?	0.986	190.9
190	02/28/2013	03:12:32 PM	?	8.74	?	292.5	46.2	17.6	445.0	44.136	xxxxxxx	6.28	?	?	?	10.12	262.9	10.9	30.6	1.5	39.668	xxxxxxx	5.64	?	0.986	190.9
191	02/28/2013	03:12:42 PM	?	8.78	?	291.5	53.4	17.4	421.5	42.363	xxxxxxx	6.32	?	?	?	9.40	264.1	14.2	34.2	1.5	38.381	xxxxxxx	5.73	?	0.987	190.8
192	02/28/2013	03:12:52 PM	?	8.89	?	294.0	62.9	17.0	412.2	44.308	xxxxxxx	6.37	?	?	?	9.32	266.6	19.4	37.6	1.2	40.179	xxxxxxx	5.78	?	0.986	190.8
193	02/28/2013	03:13:02 PM	?	8.84	?	296.8	73.9	17.3	403.8	46.425	xxxxxxx	6.40	?	?	?	8.90	269.8	26.0	41.1	1.7	42.200	xxxxxxx	5.82	?	0.987	190.9
194	02/28/2013	03:13:12 PM	?	8.78	?	293.8	59.1	17.6	431.1	48.101	xxxxxxx	6.32	?	?	?	9.02	267.3	17.4	36.4	1.1	43.762	xxxxxxx	5.75	?	0.987	190.9
195	02/28/2013	03:13:22 PM	?	8.69	?	292.4	45.8	19.0	455.9	36.813	xxxxxxx	6.26	?	?	?	8.87	266.4	10.6	31.2	2.1	33.548	xxxxxxx	5.70	?	0.988	190.9
196	02/28/2013	03:13:32 PM	?	8.73	?	297.6	35.9	20.3	496.5	35.530	xxxxxxx	6.18	?	?	?	9.12	270.5	6.8	25.8	2.3	32.291	xxxxxxx	5.62	?	0.987	190.8
197	02/28/2013	03:13:42 PM	?	8.83	?	298.8	30.8	21.3	511.6	34.227	xxxxxxx	6.15	?	?	?	8.90	272.2	5.0	23.0	2.7	31.182	xxxxxxx	5.60	?	0.987	190.9
198	02/28/2013	03:13:52 PM	?	8.99	?	298.4	28.5	21.4	538.7	34.779	xxxxxxx	6.15	?	?	?	8.75	272.3	4.3	21.6	2.8	31.736	xxxxxxx	5.61	?	0.986	190.8
199	02/28/2013	03:14:02 PM	?	9.03	?	301.1	29.5	22.2	537.7	35.655	xxxxxxx	6.16	?	?	?	8.54	275.4	4.6	22.3	3.3	32.610	xxxxxxx	5.64	?	0.986	190.8
200	02/28/2013	03:14:12 PM	?	9.09	?	297.5	29.1	21.4	532.4	34.411	xxxxxxx	6.16	?	?	?	8.33	272.7	4.5	22.1	2.8	31.545	xxxxxxx	5.65	?	0.986	190.9
201	02/28/2013	03:14:22 PM	?	9.15	?	297.0	29.4	21.6	523.5	36.310	xxxxxxx	6.18	?	?	?	8.25	272.5	4.6	22.3	3.0	33.315	xxxxxxx	5.67	?	0.986	190.9
202	02/28/2013	03:14:32 PM	?	9.10	?	298.8	28.6	19.0	503.7	36.683	xxxxxxx	6.15	?	?	?	8.09	274.6	4.3	22.0	1.8	33.717	xxxxxxx	5.65	?	0.986	190.9
203	02/28/2013	03:14:42 PM	?	9.09	?	296.4	29.6	20.6	492.7	38.909	xxxxxxx	6.18	?	?	?	8.00	272.7	5.1	22.1	2.4	35.796	xxxxxxx	5.69	?	0.986	190.9
204	02/28/2013	03:14:52 PM	?	9.09	?	293.1	38.0	19.4	459.5	32.239	xxxxxxx	6.24	?	?	?	8.24	269.0	3.4	27.4	2.1	29.582	xxxxxxx	5.73	?	0.986	190.9
205	02/28/2013	03:15:02 PM	?	8.73	?	302.3	85.8	17.1	391.3	27.160	xxxxxxx	6.46	?	?	?	8.18	277.6	37.1	45.7	1.0	41.025	xxxxxxx	5.72	?	0.987	190.9
206	02/28/2013	03:15:12 PM	?	8.86	?	300.8	85.2	16.8	393.2	25.746	xxxxxxx	6.48	?	?	?	8.12	276.4	32.8	45.5	0.6	23.654	xxxxxxx	5.95	?	0.986	190.8
207	02/28/2013	03:15:22 PM	?	8.69	?	295.0	66.3	17.0	412.4	25.621	xxxxxxx	6.38	?	?	?	8.12	271.0	21.4	39.5	0.9	23.541	xxxxxxx	5.87	?	0.986	190.8
208	02/28/2013	03:15:32 PM	?	8.59	?	290.0	47.5	17.2	432.5	25.876	xxxxxxx	6.30	?	?	?	8.21	266.2	11.0	32.6	1.5	23.751	xxxxxxx	5.78	?	0.985	190.9
209	02/28/2013	03:15:42 PM	?	8.79	?	293.3	65.3	17.2	414.1	156.891	xxxxxxx	6.05	?	?	?	8.21	266.2	11.0	32.6	1.5	23.751	xxxxxxx	5.78	?	0.986	190.9
210	02/28/2013	03:15:52 PM	?	8.79	?	292.8	45.6	18.0	445.6	29.738	xxxxxxx	6.28	?	?	?	8.85	266.8	10.4	31.2	1.8	27.106	xxxxxxx	5.73	?	0.987	190.9
211	02/28/2013	03:16:02 PM	?	8.81	?	294.0	65.2	17.1	411.7	30.092	xxxxxxx	6.40	?	?	?	8.89	267.9	19.5	31.0	1.2	27.418	xxxxxxx	5.83	?	0.986	190.9
212	02/28/2013	03:16:12 PM	?	8.84	?	300.2	83.5	16.8	392.1	28.656	xxxxxxx	6.46	?	?	?	9.48	271.7	33.4	44.0	1.1	25.938	xxxxxxx	5.84	?	0.985	190.8
213	02/28/2013	03:16:22 PM	?	8.68	?	297.0	65.3	17.0	414.1	156.891	xxxxxxx	6.05	?	?	?	8.21	266.2	11.0	32.6	1.5	23.751	xxxxxxx	5.78	?	0.986	190.9
214	02/28/2013	03:16:32 PM	?	8.64	?	297.2	79.0	17.0	396.6	42.022	xxxxxxx	6.39	?	?	?	15.64	250.7	27.9	38.7	1.6	35.451	xxxxxxx	5.39	?	0.986	190.8
215	02/28/2013	03:16:42 PM	?	8.59	?	291.7	64.3	19.2	411.7	95.199	xxxxxxx	6.24	?	?	?	22.11	227.2	18.8	31.3	2.3	74.153	xxxxxxx	4.86	?	0.986	190.9
216	02/28/2013	03:16:52 PM	?	8.58	?	293.6	55.0	21.3	428.8	149.628	xxxxxxx	6.01	?	?	?	26.40	216.1	17.3	23.2	2.4	110.124	xxxxxxx	4.42	?	0.986	190.9
217	02/28/2013	03:17:02 PM	?	8.68	?	296.8	65.3	17.0	414.1	156.891	xxxxxxx	6.05	?	?	?	17.67	213.6	27.3	24.1	2.4	114.025	xxxxxxx	4.42	?	0.986	190.9
218	02/28/2013	03:17:12 PM	?	8.73	?	294.4	73.6	18.8	399.3	126.953	xxxxxxx	6.16	?	?	?	25.38	219.7	26.2	28.7	2.1	94.729	xxxxxxx	4.60	?	0.986	190.9
219	02/28/2013	03:17:22 PM	?	8.69	?	295.2	72.1	17.7	401.3	76.950	xxxxxxx	6.30	?	?	?	21.70	231.1	23.5	33.0	1.8	60.251	xxxxxxx	4.93	?	0.986	190.9
220	02/28/2013	03:17:32 PM	?	8.64	?	291.3	46.4	20.3	447.8	60.765	xxxxxxx	6.20	?	?	?	18.45	237.6	10.9	27.0	2.6	49.553	xxxxxxx	5.06	?	0.986	190.8
221	02/28/2013	03:17:42 PM	?	8.64	?	291.3	46.4	20.3	447.8	60.765	xxxxxxx	6.20	?	?	?	18.45	237.6	10.9	27.0	2.6	49.553	xxxxxxx	5.06	?	0.986	190.8
222	02/28/2013	03:17:52 PM	?	8.74	?	291.1	35.0	19.2	467.2	49.581	xxxxxxx	6.16	?	?	?	16.01	244.5	6.6	22.9	2.0	41.641	xxxxxxx	5.17	?	0.986	190.9
223	02/28/2013	03:18:02 PM	?	8.90	?	292.6	43.5	18.2	446.5	40.577	xxxxxxx	6.25	?	?	?	14.63	249.8	9.4	27.7	1.8	34.641	xxxxxxx	5.33	?	0.986	190.8
224	02/28/2013	03:18:12 PM	?	8.94	?	292.9	55.8	19.7	425.3	56.933	xxxxxxx	6.30	?	?	?	16.74	243.9	14.4	32.1	2.4	47.403	xxxxxxx	5.25	?	0.986	190.8
225	02/28/2013	03:18:22 PM	?	8.94	?	292.9	55.8	19.7	425.3	56.933	xxxxxxx	6.30	?	?	?	16.74	243.9	14.4	32.1	2.4	47.403	xxxxxxx	5.25	?	0.986	190.8
226	02/28/2013	03:18:32 PM	?	8.80	?	297.4	77.0	17.2	400.7	84.388	xxxxxxx	6.34	?	?	?	20.10	237.6	25.9	35.6	1.5	67.429	xxxxxxx	5.07	?	0.986	190.9
227	02/28/2013	03:18:42 PM	?	8.68	?	296.0	65.4	17.6	413.7	43.198	xxxxxxx	6.31	?	?	?	15.90	248.9	21.0	34.0	1.7	36.328	xxxxxxx	5.31	?	0.986	190.8
228	02/28/2013	03:18:52 PM	?	8.74	?	292.8	43.3	17.9	451.9	39.290	xxxxxxx	6.24	?	?	?	14.37	250.7	9.3	27.9	1.6	33.642	xxxxxxx	5.35	?	0.986	190.8
229	02/28/2013	03:19:02 PM	?	8.64	?	294.9	65.3	17.0	414.1	156.891	xxxxxxx	6.05	?	?	?	14.82	251.2	27.7	24.9	1.9	38.066	xxxxxxx	5.27	?	0.987	190.8
230	02/28/2013	03:19:12 PM	?	8.87	?	296.8	33.8	20.6	491.9	44.728	xxxxxxx	6.18	?	?	?	14.48	253.8	5.7	23.2	2.4	38.251	xxxxxxx	5.29	?	0.985	190.8
231	02/28/2013	03:19:22 PM	?	8.95	?	292.3	31.5	20.4	477.9	45.837	xxxxxxx	6.17	?	?	?	14.22	250.8	5.0	22.0	2.3	39.318	xxxxxxx	5.29	?	0.986	190.8
232	02/28/2013	03:19:32 PM	?	9.03	?	287.0	33.2	20.2	468.6	64.835	xxxxxxx	6.17	?	?	?	16.70	239.1	5.1	22.6	2.3	54.008	xxxx				

281	02/28/2013	03:27:46	PM	?	8.78	?	292.8	57.7	17.4	422.9	23.680	xxxxxxx	6.39	?	?	?	8.47	268.0	16.2	36.6	1.4	21.673	xxxxxxx	5.85	?	0.982	190.8
282	02/28/2013	03:27:56	PM	?	8.73	?	292.8	57.7	17.4	422.9	23.680	xxxxxxx	6.39	?	?	?	8.47	268.0	16.2	36.6	1.4	21.673	xxxxxxx	5.85	?	0.982	190.8
283	02/28/2013	03:28:06	PM	?	8.68	?	264.4	69.4	35.1	422.9	269.779	xxxxxxx	4.28	?	?	?	42.40	152.3	37.1	2.9	4.9	155.389	xxxxxxx	2.46	?	0.985	190.9
284	02/28/2013	03:28:18	PM	?	8.68	?	264.4	69.4	35.1	422.9	269.779	xxxxxxx	4.28	?	?	?	42.40	152.3	37.1	2.9	4.9	155.389	xxxxxxx	2.46	?	0.985	190.9
285	02/28/2013	03:28:28	PM	?	8.73	?	292.8	57.7	17.4	422.9	23.680	xxxxxxx	6.39	?	?	?	32.30	195.2	17.7	9.3	3.4	67.613	xxxxxxx	3.75	?	0.986	190.8
286	02/28/2013	03:28:40	PM	?	8.82	?	288.3	39.9	26.3	449.9	99.868	xxxxxxx	5.54	?	?	?	32.30	195.2	17.7	9.3	3.4	67.613	xxxxxxx	3.75	?	0.986	190.8
287	02/28/2013	03:28:50	PM	?	8.84	?	290.9	41.8	22.6	450.2	66.487	xxxxxxx	6.04	?	?	?	25.02	218.1	11.4	19.9	3.3	49.851	xxxxxxx	4.53	?	0.985	190.8
288	02/28/2013	03:29:01	PM	?	8.80	?	290.9	41.8	22.6	450.2	66.487	xxxxxxx	6.04	?	?	?	25.02	218.1	11.4	19.9	3.3	49.851	xxxxxxx	4.53	?	0.985	190.8
289	02/28/2013	03:29:11	PM	?	8.69	?	296.1	65.4	17.7	410.2	52.156	xxxxxxx	6.33	?	?	?	19.48	238.4	19.9	32.7	1.6	41.996	xxxxxxx	5.10	?	0.987	190.9
290	02/28/2013	03:29:21	PM	?	8.68	?	293.4	47.9	17.9	443.8	38.243	xxxxxxx	6.28	?	?	?	13.79	252.9	11.4	29.8	1.5	32.970	xxxxxxx	5.41	?	0.986	190.8
291	02/28/2013	03:29:31	PM	?	8.74	?	294.0	40.7	21.5	473.1	36.188	xxxxxxx	6.22	?	?	?	12.46	257.4	9.0	26.6	3.0	31.681	xxxxxxx	5.44	?	0.986	190.8
292	02/28/2013	03:29:41	PM	?	8.83	?	290.7	39.7	20.3	458.7	35.156	xxxxxxx	6.40	?	?	?	11.44	257.5	8.2	27.0	2.5	31.132	xxxxxxx	5.53	?	0.987	190.9
293	02/28/2013	03:29:51	PM	?	8.78	?	293.2	46.1	19.9	439.6	35.298	xxxxxxx	6.29	?	?	?	10.35	262.9	11.4	29.9	2.3	31.644	xxxxxxx	5.62	?	0.986	190.8
294	02/28/2013	03:30:01	PM	?	8.89	?	295.3	62.1	18.1	416.3	27.502	xxxxxxx	6.28	?	?	?	9.30	267.9	19.6	36.7	1.7	24.946	xxxxxxx	5.79	?	0.986	190.9
295	02/28/2013	03:30:11	PM	?	8.83	?	297.4	70.6	18.4	411.0	24.753	xxxxxxx	6.41	?	?	?	8.64	271.7	24.6	39.9	1.9	22.615	xxxxxxx	5.86	?	0.986	190.8
296	02/28/2013	03:30:21	PM	?	8.74	?	295.3	65.8	17.8	412.4	23.524	xxxxxxx	6.40	?	?	?	8.27	270.9	21.5	38.9	1.6	21.578	xxxxxxx	5.87	?	0.986	190.9
297	02/28/2013	03:30:31	PM	?	8.69	?	293.9	49.0	20.3	450.5	23.525	xxxxxxx	6.29	?	?	?	7.96	270.5	13.2	31.9	2.3	21.652	xxxxxxx	5.79	?	0.987	190.9
298	02/28/2013	03:30:41	PM	?	8.79	?	294.0	41.7	20.1	457.7	23.522	xxxxxxx	6.27	?	?	?	7.60	271.6	9.4	29.1	2.2	21.735	xxxxxxx	5.79	?	0.987	190.9
299	02/28/2013	03:30:51	PM	?	8.90	?	295.0	38.3	22.0	470.2	22.817	xxxxxxx	6.25	?	?	?	7.55	272.8	8.2	29.2	3.4	21.095	xxxxxxx	5.78	?	0.986	190.9
300	02/28/2013	03:31:01	PM	?	8.93	?	292.9	48.1	20.1	445.2	23.701	xxxxxxx	6.32	?	?	?	7.68	270.4	12.8	31.7	2.4	21.881	xxxxxxx	5.83	?	0.986	190.9
301	02/28/2013	03:31:11	PM	?	8.89	?	296.2	68.7	18.1	407.2	22.406	xxxxxxx	6.41	?	?	?	7.48	274.1	23.3	39.7	1.8	20.730	xxxxxxx	5.93	?	0.986	190.9
302	02/28/2013	03:31:21	PM	?	8.79	?	298.4	69.2	17.5	413.2	21.105	xxxxxxx	6.43	?	?	?	7.02	277.5	24.2	40.2	1.3	19.624	xxxxxxx	5.98	?	0.985	190.9
303	02/28/2013	03:31:31	PM	?	8.69	?	292.3	46.5	20.3	446.4	22.599	xxxxxxx	6.31	?	?	?	6.82	272.4	11.7	31.6	2.4	21.021	xxxxxxx	5.88	?	0.987	190.9
304	02/28/2013	03:31:41	PM	?	8.73	?	294.5	42.2	19.3	464.3	21.015	xxxxxxx	6.28	?	?	?	6.52	275.2	9.7	29.7	2.0	19.642	xxxxxxx	5.87	?	0.986	190.9
305	02/28/2013	03:31:51	PM	?	8.74	?	292.9	45.7	18.1	425.7	18.730	xxxxxxx	6.30	?	?	?	6.84	274.3	16.5	36.6	1.7	20.730	xxxxxxx	5.96	?	0.986	190.9
306	02/28/2013	03:32:01	PM	?	8.88	?	297.8	71.5	17.8	404.5	18.103	xxxxxxx	6.45	?	?	?	6.24	279.2	25.4	41.7	1.4	16.973	xxxxxxx	6.05	?	0.986	190.9
307	02/28/2013	03:32:11	PM	?	8.79	?	298.5	70.1	17.7	408.4	17.525	xxxxxxx	6.45	?	?	?	6.27	279.8	24.4	41.4	1.5	16.426	xxxxxxx	6.05	?	0.986	190.9
308	02/28/2013	03:32:21	PM	?	8.69	?	294.5	48.7	19.4	452.1	29.411	xxxxxxx	6.30	?	?	?	8.96	268.1	12.2	32.2	2.1	26.775	xxxxxxx	5.74	?	0.986	190.9
309	02/28/2013	03:32:31	PM	?	8.88	?	290.7	40.0	20.2	452.6	20.797	xxxxxxx	6.30	?	?	?	8.96	268.1	12.2	32.2	2.1	26.775	xxxxxxx	5.74	?	0.986	190.9
310	02/28/2013	03:32:41	PM	?	8.88	?	293.3	40.1	20.2	462.2	27.197	xxxxxxx	6.25	?	?	?	8.68	267.8	8.3	28.3	2.2	24.836	xxxxxxx	5.71	?	0.986	190.9
311	02/28/2013	03:32:51	PM	?	8.95	?	295.5	35.8	21.4	480.8	31.706	xxxxxxx	6.23	?	?	?	8.24	268.1	7.0	25.5	2.7	28.775	xxxxxxx	5.65	?	0.985	190.9
312	02/28/2013	03:33:01	PM	?	8.98	?	294.8	37.9	19.0	462.7	26.596	xxxxxxx	6.25	?	?	?	8.49	269.8	7.6	27.0	1.8	24.339	xxxxxxx	5.72	?	0.986	190.9
313	02/28/2013	03:33:11	PM	?	8.99	?	294.8	37.9	19.0	462.7	26.596	xxxxxxx	6.25	?	?	?	8.49	269.8	7.6	27.0	1.8	24.339	xxxxxxx	5.72	?	0.986	190.9
314	02/28/2013	03:33:21	PM	?	8.88	?	299.9	77.7	17.6	400.3	24.125	xxxxxxx	6.43	?	?	?	8.41	274.7	28.8	42.4	1.4	22.096	xxxxxxx	5.89	?	0.986	190.8
315	02/28/2013	03:33:31	PM	?	8.74	?	298.7	71.3	19.3	411.3	24.028	xxxxxxx	6.40	?	?	?	8.43	273.5	24.6	40.7	2.1	22.002	xxxxxxx	5.86	?	0.985	190.8
316	02/28/2013	03:33:41	PM	?	8.68	?	295.5	58.0	18.1	424.1	27.770	xxxxxxx	6.34	?	?	?	9.35	267.9	16.8	35.7	1.6	25.174	xxxxxxx	5.75	?	0.986	190.8
317	02/28/2013	03:33:51	PM	?	8.74	?	294.8	44.7	20.1	452.6	24.939	xxxxxxx	6.36	?	?	?	9.23	267.6	13.4	34.8	1.7	35.688	xxxxxxx	5.75	?	0.986	190.8
318	02/28/2013	03:34:02	PM	?	8.83	?	292.0	41.8	21.4	459.8	30.864	xxxxxxx	6.24	?	?	?	10.30	261.9	8.9	28.6	3.0	27.684	xxxxxxx	5.70	?	0.985	190.8
319	02/28/2013	03:34:12	PM	?	8.89	?	291.2	39.3	20.4	460.0	41.452	xxxxxxx	6.23	?	?	?	11.80	256.8	7.8	26.9	2.4	36.559	xxxxxxx	5.49	?	0.986	190.9
320	02/28/2013	03:34:22	PM	?	8.94	?	293.2	43.1	19.0	446.4	35.973	xxxxxxx	6.27	?	?	?	10.73	261.8	9.2	29.3	2.0	32.115	xxxxxxx	5.60	?	0.986	190.9
321	02/28/2013	03:34:32	PM	?	8.94	?	296.8	64.3	18.0	413.5	36.791	xxxxxxx	6.36	?	?	?	10.47	265.7	20.5	36.6	1.7	32.941	xxxxxxx	5.70	?	0.986	190.8
322	02/28/2013	03:34:42	PM	?	8.79	?	299.7	78.4	17.7	400.8	36.690	xxxxxxx	6.42	?	?	?	10.28	268.9	29.4	41.0	1.6	32.919	xxxxxxx	5.76	?	0.985	190.9
323	02/28/2013	03:34:52	PM	?	8.84	?	293.5	63.4	18.9	418.0	38.926	xxxxxxx	6.37	?	?	?	10.16	263.7	20.0	37.0	2.0	34.970	xxxxxxx	5.72	?	0.986	190.9
324	02/28/2013	03:35:02	PM	?	8.70	?	295.4	62.4	19.0	427.8	43.969	xxxxxxx	6.35	?	?	?	9.96	266.0	19.2	37.0	2.1	39.591	xxxxxxx	5.72	?	0.986	190.8
325	02/28/2013	03:35:12	PM	?	8.74	?	294.8	44.7	18.2	429.6	39.316	xxxxxxx	6.37	?	?	?	8.65	270.5	6.9	26.7	1.9	29.948	xxxxxxx	5.70	?	0.986	190.8
326	02/28/2013	03:35:22	PM	?	8.79	?	291.1	42.9	19.0	447.5	32.429	xxxxxxx	6.27	?	?	?	8.79	265.5	9.3	29.8	2.0	29.578	xxxxxxx	5.72	?	0.986	190.8
327	02/28/2013	03:35:32	PM	?	8.87	?	296.7	38.0	21.1	478.3	30.640	xxxxxxx	6.23	?	?	?	8.70	270.8	7.3	27.4	1.8	27.974	xxxxxxx	5.69	?	0.986	190.8
328	02/28/2013	03:35:42	PM	?	8.94	?	294.0	35.9	19.4	503.4	30.712	xxxxxxx	6.21	?	?	?	8.67	268.5	6.6	26.2	2.7	28.049	xxxxxxx	5.67	?	0.987	190.9
329	02/28/2013	03:35:52	PM	?	8.98	?	296.2	36.8	19.4	480.8	32.784	xxxxxxx	6.23	?	?	?	8.65	270.5	6.9	26.7	1.9	29.948	xxxxxxx	5.70	?	0.986	190.8
330	02/28/2013	03:36:02	PM	?	8.90	?	292.5	46.1	18.8	442.9	37.238	xxxxxxx	6.31	?	?	?	8.50	267.7	10.9	31.2	1.9	34.074	xxxxxxx	5.78	?	0.985	190.9
331	02/28/2013	03:36:12	PM	?	8.98	?	299.6	73.9	18.0	411.6	29.919	xxxxxxx	6.42	?	?	?	7.31	277.7	26.7	41.8	1.8	27.734					

2, 02/28/2013 03:41:36 PM	?	8.62	?	292.4	47.0	18.7	459.0	44.006	0.5	6.30	?	?	?	10.78	260.9	10.9	31.0	2.0	39.261	0.5	5.62	?	0.986	190.9
3, 02/28/2013 03:41:46 PM	?	8.74	?	292.4	47.0	18.7	459.0	44.006	0.5	6.30	?	?	?	10.78	260.9	10.9	31.0	2.0	39.261	0.5	5.62	?	0.986	190.9
4, 02/28/2013 03:41:56 PM	?	6.97	?	25.3	19.8	16.9	55.4	441.289	-0.9	-1.04	?	?	?	42.92	14.4	25.0	-13.7	3.6	251.885	-0.5	-0.59	?	0.984	190.9
5, 02/28/2013 03:42:06 PM	?	3.40	?	-0.9	17.0	21.2	41.5	309.098	-0.8	-1.40	?	?	?	43.12	-0.5	25.2	-15.6	3.3	175.801	-0.4	-0.79	?	0.985	190.8
6, 02/28/2013 03:42:16 PM	?	1.21	?	1.8	-3.8	13.2	24.1	173.243	0.0	-0.72	?	?	?	36.87	1.2	15.2	-17.6	2.3	109.374	0.0	-0.45	?	0.986	190.8
7, 02/28/2013 03:42:26 PM	?	0.52	?	3.0	-0.5	1.0	5.6	98.633	0.4	-0.27	?	?	?	30.12	2.1	6.9	-7.3	1.3	68.924	0.3	-0.19	?	0.986	190.9
8, 02/28/2013 03:42:36 PM	?	0.25	?	3.4	-0.2	0.0	0.1	60.471	0.7	0.00	?	?	?	22.95	2.6	0.8	-1.0	0.5	46.594	0.6	0.00	?	0.986	190.9
9, 02/28/2013 03:42:46 PM	?	0.16	?	3.7	-0.3	0.0	0.0	53.110	0.9	0.06	?	?	?	20.59	2.9	-0.3	0.1	-0.4	42.176	0.7	0.04	?	0.986	190.8
10, 02/28/2013 03:42:56 PM	?	0.12	?	3.4	-0.5	0.0	0.0	50.433	0.8	0.03	?	?	?	18.96	2.7	0.1	-0.5	0.3	40.869	0.7	0.02	?	0.986	190.8
11, 02/28/2013 03:43:06 PM	?	0.11	?	3.4	-0.1	0.0	0.0	49.938	0.8	0.04	?	?	?	17.51	2.8	-0.4	0.3	0.0	41.194	0.6	0.04	?	0.986	190.9
12, 02/28/2013 03:43:16 PM	?	0.10	?	3.1	0.1	0.1	0.1	48.574	0.7	0.03	?	?	?	15.76	2.6	0.1	0.1	-0.2	40.919	0.6	0.03	?	0.985	190.8
13, 02/28/2013 03:43:26 PM	?	0.13	?	3.6	0.1	0.0	1.3	39.618	0.7	0.07	?	?	?	13.32	3.1	-0.7	0.8	-0.8	34.339	0.6	0.06	?	0.987	190.8
14, 02/28/2013 03:43:36 PM	?	0.11	?	1.4	1.0	0.0	0.0	12.893	0.5	0.02	?	?	?	8.51	1.3	-0.3	1.2	-0.2	11.796	0.4	0.02	?	0.986	190.8
15, 02/28/2013 03:43:46 PM	?	0.66	?	0.4	0.2	0.0	0.0	10.327	0.4	0.02	?	?	?	6.56	0.4	-0.4	0.5	-0.5	9.650	0.4	0.02	?	0.987	190.8
16, 02/28/2013 03:43:56 PM	?	3.39	?	0.1	0.3	0.0	0.0	10.442	0.3	0.02	?	?	?	5.50	0.1	-0.5	0.7	-0.6	9.868	0.3	0.02	?	0.986	190.8
17, 02/28/2013 03:44:06 PM	?	4.97	?	0.0	0.5	0.0	0.0	9.739	0.3	0.02	?	?	?	4.72	0.0	-0.3	0.8	-0.8	9.279	0.3	0.02	?	0.987	190.8
18, 02/28/2013 03:44:16 PM	?	5.61	?	0.3	0.1	0.0	0.1	8.954	0.3	0.04	?	?	?	3.95	0.3	0.1	0.0	0.1	8.601	0.3	0.04	?	0.987	190.8
19, 02/28/2013 03:44:26 PM	?	5.83	?	0.2	0.1	0.0	0.2	7.558	0.2	0.02	?	?	?	3.37	0.2	0.0	0.0	-0.2	7.304	0.2	0.02	?	0.987	190.8
20, 02/28/2013 03:44:36 PM	?	5.93	?	0.0	0.0	0.0	0.0	6.492	0.2	0.02	?	?	?	2.89	0.0	-0.2	0.1	-0.4	6.304	0.2	0.02	?	0.986	190.8
21, 02/28/2013 03:44:46 PM	?	5.91	?	0.1	-0.1	0.0	0.0	6.005	0.2	0.01	?	?	?	2.58	0.0	-0.3	0.2	-1.1	5.850	0.2	0.01	?	0.986	190.8
22, 02/28/2013 03:44:56 PM	?	5.97	?	0.0	0.1	0.0	0.0	5.299	0.2	0.01	?	?	?	2.19	0.1	-0.1	0.2	-1.3	5.183	0.2	0.01	?	0.987	190.8

Miscellaneous:  
 LoggingInterval (seconds) 10  
 StabilizeInterval (seconds) 30  
 BiasCheckTolerance (%) 5.0  
 DriftCheckTolerance (%) 3.0  
 DateTimeCompleted, 2/28/2013 3:45:03 PM, Q5R1NIz6211Df1I54s/OPT3hxEU8pG8mr17WeEEGDS=

Summary:

calibration, gas,	cal gas, final cert, concentration,	accepted, measured, concentration,	date/time, of accepted, measured concentration,	cylinder, serial, number,	cylinder, expiration, date
Low Post O2,	0.00 %	0.11 %	02/28/2013 03:43:09 PM,	zero-cylinder,	01-01-2099
Mid Post O2,	6.00 %	5.97 %	02/28/2013 03:45:00 PM,	CC141150,	09-18-2015

\*\*\*\*\*Test Run 2\*\*\*\*\*

- TestCfgFilePathNameExt, "C:\EmTestData\Speed Of Air Test\_2\_Unitc-35\_2013-02-28\EmTest.xls"
- PreO2DryIndex, 1
- PostO2DryIndex, 1
- PreCO2DryIndex, 1
- PostCO2DryIndex, 3
- NOxDryIndex, 4
- VOCDryIndex, 5
- THCDryIndex, 6
- HCHODryIndex, 8
- NH3DryIndex, 8
- Spare1DryIndex, -1
- Spare2DryIndex, -1
- Spare3DryIndex, -1
- Spare4DryIndex, -1
- H2OIndex, -13
- NmhcWetIndex, -1
- ThcWetIndex, -1
- CowetIndex, -14
- NowetIndex, 15
- No2wetIndex, 16
- PropanewetIndex, 17
- HchowetIndex, 18
- NH3wetIndex, 19
- Spare1wetIndex, -1
- Spare2wetIndex, -1
- Spare3wetIndex, -1
- Spare4wetIndex, -1

Record, ID,	Pre O2, Dry, (%),	Post O2, Dry, (%),	Pre CO, Dry, (ppm),	Post CO, Dry, (ppm),	NOx, Dry, (ppm),	VOC Dry, as Prop, (ppm),	THC Dry, as Prop, (ppm),	HCHO, Dry, (ppm),	NH3, Dry, (ppm),	CO2, Dry, (%),	Ambient, Pressure, (InHg),	Ambient, Temp, (degF),	Relative, Humidity, (%),	H2O%, (%),	CO, wet, (ppm),	NO, wet, (ppm),	NO2, wet, (ppm),	Propane, wet, (ppm),	HCHO, wet, (ppm),	NH3, wet, (ppm),	CO2, wet, (%),	22, (none),	Gas, Pres, (atm),	Gas Temp (degC)
0, 02/28/2013 03:46:47 PM	?	8.84	?	294.9	43.2	18.3	447.6	15.998	xxxxxxx	6.32	?	?	?	4.86	280.6	10.4	30.6	1.1	15.221	xxxxxxx	6.01	?	0.986	190.8
1, 02/28/2013 03:46:57 PM	?	8.83	?	299.3	59.7	18.2	424.9	16.423	xxxxxxx	6.37	?	?	?	4.58	285.6	19.1	37.9	1.0	15.670	xxxxxxx	6.08	?	0.986	190.9
2, 02/28/2013 03:47:07 PM	?	8.79	?	300.7	73.5	17.7	406.1	12.979	xxxxxxx	6.46	?	?	?	4.28	287.8	27.6	42.8	0.5	12.424	xxxxxxx	6.18	?	0.986	190.8
3, 02/28/2013 03:47:17 PM	?	8.69	?	302.0	83.1	19.7	398.1	12.611	xxxxxxx	6.51	?	?	?	4.15	289.4	34.6	45.0	2.5	12.088	xxxxxxx	6.24	?	0.987	190.8
4, 02/28/2013 03:47:27 PM	?	8.64	?	298.8	74.8	17.7	404.0	12.893	xxxxxxx	6.48	?	?	?	4.07	286.6	28.9	42.9	1.2	12.375	xxxxxxx	6.12	?	0.986	190.9
5, 02/28/2013 03:47:37 PM	?	8.64	?	297.4	48.8	20.5	449.3	13.356	xxxxxxx	6.36	?	?	?	3.79	286.2	13.4	33.6	2.4	12.849	xxxxxxx	6.12	?	0.986	190.9
6, 02/28/2013 03:47:47 PM	?	8.75	?	295.4	42.6	21.1	458.1	11.896	xxxxxxx	6.30	?	?	?	3.54	285.0	10.5	30.6	2.9	11.475	xxxxxxx	6.08	?	0.987	190.9
7, 02/28/2013 03:47:57 PM	?	8.83	?	293.7	39.3	18.9	458.7	11.844	xxxxxxx	6.31	?	?	?	3.38	283.8	8.9	29.0	1.8	11.444	xxxxxxx	6.09	?	0.986	190.8
8, 02/28/2013 03:48:07 PM	?	8.89	?	297.0	50.3	18.9	441.4	10.954	xxxxxxx	6.36	?	?	?	3.10	287.7	14.6	34.2	1.8	10.566	xxxxxxx	6.16	?	0.987	190.9
9, 02/28/2013 03:48:17 PM	?	8.88	?	296.9	17.6	410.6	10.013	xxxxxxx	6.46	?	?	?	?	3.02	287.9	24.0	41.7	1.2	9.711	xxxxxxx	6.27	?	0.985	190.9
10, 02/28/2013 03:48:27 PM	?	8.78	?	294.5	70.3	17.5	403.6	10.400	xxxxxxx	6.46	?	?	?	2.96	285.8	25.6	42.7	1.4	10.092	xxxxxxx	6.27	?	0.986	190.9
11, 02/28/2013 03:48:37 PM	?	8.68	?	298.0	70.7	17.6	407.1	10.644	xxxxxxx	6.45	?	?	?	2.92	289.3	25.9	42.7	1.1	10.333	xxxxxxx	6.26	?	0.986	190.9
12, 02/28/2013 03:48:47 PM	?	8.69	?	295.9	50.3	18.4	448.0	11.076	xxxxxxx	6.35	?	?	?	2.86	287.4	13.9	34.9	1.8	10.759	xxxxxxx	6.17	?	0.986	190.8
13, 02/28/2013 03:48:57 PM	?	8.74	?	298.9	39.7	20.3	483.3	10.697	xxxxxxx	6.28	?	?	?	2.81	290.5	9.0	29.6	2.3	10.396	xxxxxxx	6.10	?	0.986	190.9
14, 02/28/2013 03:49:07 PM	?	8.89	?	299.3	36.4	21.0	489.3	11.570	xxxxxxx	6.26	?	?	?	2.79	291.0	7.8	27.6	2.5	11.247	xxxxxxx	6.09	?	0.986	190.8
15, 02/28/2013 03:49:17 PM	?	8.99	?	297.4	34.6	20.4	493.5	12.395	xxxxxxx	6.25	?	?	?	2.67	289.5	7.3	26.4	2.2	12.064	xxxxxxx	6.09	?	0.986	190.8
16, 02/28/2013 03:49:27 PM	?	8.89	?	295.9	41.1	18.7	459.5	8.325	xxxxxxx	6.30	?	?	?	2.48	288.6	9.8	30.3	1.6	8.118	xxxxxxx	6.14	?	0.985	190.8
17, 02/28/2013 03:49:37 PM	?	8.92	?	301.1	78.6	17.6	400.5	6.710	xxxxxxx	6.48	?	?	?	2.43	293.7	31.1	45.7	1.0	6.547	xxxxxxx	6.33	?	0.986	190.9
18, 02/28/2013 03:49:47 PM	?	8.78	?	298.2	64.0	17.8	420.1	6.832	xxxxxxx	6.42	?	?	?	2.44	291.0	21.4	41.1	1.4	6.665	xxxxxxx	6.27	?	0.985	190.8
19, 02/28/2013 03:49:57 PM	?	8.69	?	295.7	49.6	18.6	443.6	6.869	xxxxxxx	6.36	?	?	?	2.42	288.5	13.3	35.1	1.7	6.703	xxxxxxx	6.21	?	0.986	190.8
20, 02/28/2013 03:50:08 PM	?	8.74	?	296.6	50.1	18.4	444.6	6.891	xxxxxxx	6.35	?	?	?	2.46	289.3	13.9	35.2	1.6	6.721	xxxxxxx	6.19	?	0.986	190.8
21, 02/28/2013 03:50:18 PM	?	8.80	?	294.0	46.4	18.3	447.9	14.510	xxxxxxx	6.30	?	?	?	4.80	279.9	11.0	33.1	1.4	13.814	xxxxxxx	6.00	?	0.986	190.8
22, 02/28/2013 03:50:28 PM	?	8.85	?	297.5	52.3	18.4	438.8	21.344	xxxxxxx	6.35	?	?	?	4.81	283.2	14.5	35.0	0.9	20.317	xxxxxxx	6.04	?	0.986	190.8
23, 02/28/2013 03:50:38 PM	?	8.83	?	297.5	69.6	17.8	409.3	16.045	xxxxxxx	6.42	?	?	?	5.71	280.5	24.0	41.6	1.3	15.129	xxxxxxx	6.05	?	0.986	190.8



24	02/28/2013	03:50:48 PM	?	8.77	?	294.3	71.8	17.6	398.3	18.316	xxxxxxx	6.45	?	?	?	5.80	277.2	25.2	42.4	1.2	17.254	xxxxxxx	6.07	?	0.986	190.8
25	02/28/2013	03:50:58 PM	?	8.68	?	298.5	75.6	17.6	400.9	19.755	xxxxxxx	6.48	?	?	?	5.69	281.5	27.6	43.7	1.0	18.631	xxxxxxx	6.11	?	0.985	190.8
26	02/28/2013	03:51:08 PM	?	8.64	?	296.0	60.2	17.9	423.0	20.523	xxxxxxx	6.38	?	?	?	5.59	279.4	18.5	38.4	0.9	19.376	xxxxxxx	6.03	?	0.986	190.8
27	02/28/2013	03:51:18 PM	?	8.68	?	296.5	43.3	19.5	462.6	19.587	xxxxxxx	6.29	?	?	?	5.52	280.1	9.9	31.0	2.0	18.504	xxxxxxx	5.94	?	0.986	190.8
28	02/28/2013	03:51:28 PM	?	8.80	?	296.2	20.4	47.2	5.5	19.013	xxxxxxx	6.27	?	?	?	5.52	279.7	7.2	27.2	2.2	17.963	xxxxxxx	5.93	?	0.985	190.9
29	02/28/2013	03:51:38 PM	?	8.91	?	294.9	33.8	20.7	481.8	18.681	xxxxxxx	6.24	?	?	?	5.51	278.7	6.5	25.5	2.3	17.652	xxxxxxx	5.90	?	0.985	190.8
30	02/28/2013	03:51:48 PM	?	8.98	?	294.2	34.6	19.3	474.6	18.955	xxxxxxx	6.25	?	?	?	5.87	276.9	6.7	25.9	1.9	17.842	xxxxxxx	5.88	?	0.985	190.8
31	02/28/2013	03:51:58 PM	?	8.99	?	296.5	33.9	21.3	485.2	22.492	xxxxxxx	6.23	?	?	?	6.68	276.7	6.5	25.1	2.6	20.990	xxxxxxx	5.82	?	0.986	190.8
32	02/28/2013	03:52:08 PM	?	8.98	?	296.9	60.1	18.0	420.7	26.336	xxxxxxx	6.40	?	?	?	6.44	277.8	18.9	37.4	1.2	24.641	xxxxxxx	5.99	?	0.985	190.9
33	02/28/2013	03:52:18 PM	?	8.95	?	299.2	74.6	17.8	402.6	25.147	xxxxxxx	6.48	?	?	?	5.92	281.5	27.3	42.9	1.0	23.659	xxxxxxx	6.10	?	0.984	190.9
34	02/28/2013	03:52:28 PM	?	8.80	?	297.8	75.5	17.7	399.9	21.744	xxxxxxx	6.46	?	?	?	5.28	281.8	28.0	43.5	1.2	20.574	xxxxxxx	6.11	?	0.986	190.9
35	02/28/2013	03:52:38 PM	?	8.69	?	298.7	75.6	17.7	401.5	18.783	xxxxxxx	6.47	?	?	?	5.08	283.5	28.0	43.7	0.9	17.828	xxxxxxx	6.14	?	0.986	190.9
36	02/28/2013	03:52:48 PM	?	8.64	?	296.9	68.6	17.9	430.6	15.889	xxxxxxx	6.38	?	?	?	4.97	282.2	18.4	38.2	1.0	15.098	xxxxxxx	6.06	?	0.986	190.9
37	02/28/2013	03:52:58 PM	?	8.65	?	296.8	42.3	19.1	475.0	15.110	xxxxxxx	6.29	?	?	?	5.29	281.1	9.7	30.4	1.9	14.320	xxxxxxx	5.96	?	0.985	190.8
38	02/28/2013	03:53:08 PM	?	8.79	?	301.7	33.8	21.3	510.9	16.140	xxxxxxx	6.21	?	?	?	5.63	284.7	6.5	25.4	2.4	15.231	xxxxxxx	5.86	?	0.985	190.9
39	02/28/2013	03:53:18 PM	?	8.94	?	299.4	31.6	21.7	515.6	16.825	xxxxxxx	6.19	?	?	?	5.67	282.4	5.7	24.1	2.8	15.870	xxxxxxx	5.84	?	0.985	190.9
40	02/28/2013	03:53:28 PM	?	9.05	?	299.0	32.2	21.6	514.7	17.515	xxxxxxx	6.19	?	?	?	5.69	282.0	6.0	24.4	2.7	20.519	xxxxxxx	5.84	?	0.986	190.9
41	02/28/2013	03:53:38 PM	?	9.09	?	295.5	33.5	20.3	495.5	21.152	xxxxxxx	6.23	?	?	?	6.27	277.0	6.3	25.1	2.2	19.825	xxxxxxx	5.84	?	0.985	190.9
42	02/28/2013	03:53:48 PM	?	9.05	?	296.3	49.4	18.2	438.2	21.533	xxxxxxx	6.36	?	?	?	6.20	278.0	13.2	32.1	1.6	20.199	xxxxxxx	5.96	?	0.986	190.9
43	02/28/2013	03:53:58 PM	?	8.94	?	301.1	76.8	17.7	403.3	21.668	xxxxxxx	6.47	?	?	?	6.10	282.7	28.7	43.4	1.3	20.345	xxxxxxx	6.07	?	0.986	190.9
44	02/28/2013	03:54:08 PM	?	8.74	?	300.3	77.9	17.6	403.9	25.369	xxxxxxx	6.45	?	?	?	6.00	282.3	29.4	38.8	1.5	23.848	xxxxxxx	6.07	?	0.987	190.9
45	02/28/2013	03:54:18 PM	?	8.69	?	296.5	63.3	17.7	420.5	25.862	xxxxxxx	6.40	?	?	?	5.56	280.0	20.2	39.6	0.5	24.424	xxxxxxx	6.05	?	0.985	190.9
46	02/28/2013	03:54:28 PM	?	8.73	?	294.9	48.5	18.1	456.3	16.621	xxxxxxx	6.32	?	?	?	4.90	280.5	12.1	34.0	1.3	15.807	xxxxxxx	6.01	?	0.986	190.8
47	02/28/2013	03:54:38 PM	?	8.73	?	293.5	39.1	19.6	483.2	16.257	xxxxxxx	6.26	?	?	?	5.02	278.7	8.0	29.2	2.1	15.440	xxxxxxx	5.95	?	0.985	190.9
48	02/28/2013	03:54:48 PM	?	8.94	?	294.4	38.7	20.0	476.9	16.608	xxxxxxx	6.26	?	?	?	5.07	279.4	7.9	29.4	1.2	19.765	xxxxxxx	5.94	?	0.986	190.9
49	02/28/2013	03:54:58 PM	?	8.94	?	297.2	36.6	20.3	493.7	17.861	xxxxxxx	6.22	?	?	?	5.28	281.5	7.0	27.7	2.2	16.918	xxxxxxx	5.90	?	0.986	190.9
50	02/28/2013	03:55:08 PM	?	8.99	?	297.5	36.4	19.9	492.6	19.356	xxxxxxx	6.23	?	?	?	5.25	281.9	7.1	27.4	2.0	18.341	xxxxxxx	5.91	?	0.986	190.9
51	02/28/2013	03:55:18 PM	?	8.99	?	296.6	50.3	18.2	444.5	20.816	xxxxxxx	6.34	?	?	?	5.21	281.1	13.5	34.2	0.7	19.731	xxxxxxx	6.01	?	0.986	190.9
52	02/28/2013	03:55:28 PM	?	8.99	?	296.6	50.3	18.2	444.5	20.816	xxxxxxx	6.34	?	?	?	5.21	281.1	13.5	34.2	0.7	19.731	xxxxxxx	6.01	?	0.986	190.9
53	02/28/2013	03:55:38 PM	?	8.79	?	298.7	73.6	17.5	406.7	20.521	xxxxxxx	6.45	?	?	?	5.27	282.9	26.4	43.3	1.0	19.441	xxxxxxx	6.11	?	0.985	190.9
54	02/28/2013	03:55:48 PM	?	8.68	?	296.1	54.6	18.1	434.9	21.015	xxxxxxx	6.37	?	?	?	5.35	280.3	15.0	36.7	1.5	19.890	xxxxxxx	6.03	?	0.986	190.9
55	02/28/2013	03:55:58 PM	?	8.74	?	297.3	46.3	18.5	474.3	21.729	xxxxxxx	6.31	?	?	?	5.32	281.5	10.9	32.9	1.7	20.573	xxxxxxx	5.97	?	0.986	190.9
56	02/28/2013	03:56:08 PM	?	8.80	?	296.1	58.9	18.3	462.6	20.803	xxxxxxx	6.31	?	?	?	5.32	281.5	10.9	32.9	1.7	20.573	xxxxxxx	5.97	?	0.986	190.9
57	02/28/2013	03:56:18 PM	?	8.89	?	295.9	37.9	20.1	485.9	21.020	xxxxxxx	6.25	?	?	?	5.21	280.5	7.5	28.5	2.2	19.925	xxxxxxx	5.93	?	0.985	190.9
58	02/28/2013	03:56:28 PM	?	8.94	?	294.2	52.0	17.7	437.8	16.873	xxxxxxx	6.34	?	?	?	5.14	279.1	14.7	34.7	0.9	16.005	xxxxxxx	6.01	?	0.986	190.9
59	02/28/2013	03:56:38 PM	?	8.89	?	297.9	75.6	17.5	400.7	16.156	xxxxxxx	6.39	?	?	?	5.11	282.7	27.7	44.0	1.5	15.330	xxxxxxx	6.14	?	0.985	190.9
60	02/28/2013	03:56:48 PM	?	8.73	?	294.4	67.9	17.4	409.3	35.719	xxxxxxx	6.39	?	?	?	11.68	260.7	21.2	38.3	1.5	31.546	xxxxxxx	5.64	?	0.986	190.9
61	02/28/2013	03:56:58 PM	?	8.64	?	295.2	67.9	17.4	409.3	35.719	xxxxxxx	6.39	?	?	?	11.68	260.7	21.2	38.3	1.5	31.546	xxxxxxx	5.64	?	0.986	190.9
62	02/28/2013	03:57:09 PM	?	8.68	?	293.4	48.7	18.7	442.7	36.358	xxxxxxx	6.28	?	?	?	11.98	258.3	11.9	31.0	2.0	32.161	xxxxxxx	5.53	?	0.985	190.9
63	02/28/2013	03:57:19 PM	?	8.77	?	291.3	45.3	18.3	440.6	36.413	xxxxxxx	6.27	?	?	?	11.23	258.5	10.1	30.1	1.8	32.323	xxxxxxx	5.57	?	0.984	190.9
64	02/28/2013	03:57:29 PM	?	8.84	?	294.6	62.1	18.3	415.8	33.059	xxxxxxx	6.41	?	?	?	10.68	263.0	19.0	36.4	1.5	29.527	xxxxxxx	5.75	?	0.985	190.9
65	02/28/2013	03:57:39 PM	?	8.83	?	299.6	78.5	17.4	399.4	32.347	xxxxxxx	6.42	?	?	?	10.54	268.1	29.0	41.2	1.6	28.937	xxxxxxx	5.74	?	0.986	190.9
66	02/28/2013	03:57:49 PM	?	8.72	?	296.5	66.5	17.5	413.0	31.530	xxxxxxx	6.48	?	?	?	10.43	265.5	21.9	37.2	1.4	28.240	xxxxxxx	5.71	?	0.985	190.9
67	02/28/2013	03:57:59 PM	?	8.69	?	293.7	51.7	19.7	437.0	35.430	xxxxxxx	6.32	?	?	?	11.52	259.9	13.2	32.5	2.2	31.347	xxxxxxx	5.59	?	0.986	190.9
68	02/28/2013	03:58:09 PM	?	8.78	?	294.9	50.8	19.5	445.5	35.045	xxxxxxx	6.31	?	?	?	10.91	262.7	12.7	32.5	2.0	31.221	xxxxxxx	5.62	?	0.986	190.9
69	02/28/2013	03:58:19 PM	?	8.78	?	297.1	39.0	20.6	474.4	33.764	xxxxxxx	6.26	?	?	?	10.68	265.3	7.6	27.3	2.3	30.159	xxxxxxx	5.59	?	0.985	190.9
70	02/28/2013	03:58:29 PM	?	8.90	?	296.1	37.2	21.0	482.6	34.592	xxxxxxx	6.21	?	?	?	10.49	265.0	7.5	25.8	2.5	30.963	xxxxxxx	5.56	?	0.985	190.9
71	02/28/2013	03:58:39 PM	?	8.93	?	293.7	41.6	19.7	453.6	36.609	xxxxxxx	6.25	?	?	?	10.31	263.4	9.1	28.3	2.1	32.836	xxxxxxx	5.61	?	0.985	190.9
72	02/28/2013	03:58:49 PM	?	8.73	?	296.7	41.3	18.4	462.6	32.067	xxxxxxx	6.41	?	?	?	10.36	266.5	12.0	32.2	2.1	32.191	xxxxxxx	5.75	?	0.985	190.9
73	02/28/2013	03:58:59 PM	?	8.78	?	299.4	79.3	17.4	396.4	41.785	xxxxxxx	6.45	?	?	?	9.72	270.3	29.6	41.9	1.2	37.724	xxxxxxx	5.83	?	0.985	190.9
74	02/28/2013	03:59:09 PM	?	8.64	?	297.5	76.2	17.5	404.7	36.996	xxxxxxx	6.44	?	?	?	8.91	271.0	27.7	41.7	1.4	33.701	xxxxxxx	5.87	?	0.986	190.9
75	02/28/2013	03:59:19 PM	?	8.64	?	299.2	79.6	17.4	399.1	34.197	xxxxxxx	6.47	?	?	?	8.83	272.8	29.7	42.9	0.8	31.177	xxxxxxx	5.89	?	0.984	190.9
76	02/28/2013	03																								

124	02/28/2013	04:07:31 PM	?	8.65	?	294.3	49.1	19.3	456.3	31.368	xxxxxxx	6.30	?	?	?	7.26	272.9	12.8	32.8	2.1	29.091	xxxxxxx	5.84	?	0.986	190.9
125	02/28/2013	04:07:41 PM	?	8.74	?	294.6	40.5	21.4	486.3	30.462	xxxxxxx	6.24	?	?	?	7.13	273.6	9.0	28.7	2.9	28.291	xxxxxxx	5.80	?	0.986	190.9
126	02/28/2013	04:07:51 PM	?	8.89	?	295.8	36.1	18.9	476.5	27.741	xxxxxxx	6.24	?	?	?	6.97	275.2	7.2	26.3	1.7	25.807	xxxxxxx	5.80	?	0.986	190.9
127	02/28/2013	04:08:01 PM	?	8.92	?	299.1	36.0	20.3	480.0	26.224	xxxxxxx	6.24	?	?	?	6.89	278.5	6.8	26.7	2.1	24.418	xxxxxxx	5.81	?	0.985	190.9
128	02/28/2013	04:08:11 PM	?	8.94	?	293.9	47.7	19.3	443.9	27.901	xxxxxxx	6.32	?	?	?	6.85	274.3	12.0	32.0	2.0	25.990	xxxxxxx	5.88	?	0.986	190.9
129	02/28/2013	04:08:21 PM	?	8.94	?	298.4	71.7	17.7	406.6	27.677	xxxxxxx	6.43	?	?	?	6.70	278.4	25.0	41.9	0.9	25.824	xxxxxxx	6.00	?	0.985	190.8
130	02/28/2013	04:08:31 PM	?	8.73	?	300.5	81.6	17.7	396.6	25.284	xxxxxxx	6.48	?	?	?	6.45	281.1	31.4	45.0	1.3	23.654	xxxxxxx	6.06	?	0.985	190.8
131	02/28/2013	04:08:41 PM	?	8.64	?	297.9	60.4	18.8	431.3	23.054	xxxxxxx	6.36	?	?	?	7.45	275.7	18.2	37.7	1.9	21.336	xxxxxxx	5.89	?	0.985	190.8
132	02/28/2013	04:08:51 PM	?	8.69	?	295.6	49.5	18.9	457.1	24.336	xxxxxxx	6.30	?	?	?	7.83	272.5	12.3	33.3	1.9	22.430	xxxxxxx	5.81	?	0.985	190.9
133	02/28/2013	04:09:01 PM	?	8.72	?	295.6	41.1	19.5	467.0	24.875	xxxxxxx	6.26	?	?	?	8.29	271.1	8.4	29.3	2.0	22.813	xxxxxxx	5.74	?	0.986	190.9
134	02/28/2013	04:09:11 PM	?	8.73	?	295.0	46.4	18.5	448.9	28.287	xxxxxxx	6.30	?	?	?	8.29	269.1	10.6	31.7	1.5	25.801	xxxxxxx	5.74	?	0.985	190.9
135	02/28/2013	04:09:21 PM	?	8.89	?	298.0	62.8	18.7	422.5	31.777	xxxxxxx	6.39	?	?	?	8.51	272.7	19.2	38.2	1.8	29.072	xxxxxxx	5.85	?	0.985	190.8
136	02/28/2013	04:09:31 PM	?	8.83	?	299.6	71.0	18.1	413.1	34.351	xxxxxxx	6.41	?	?	?	8.06	275.5	24.2	41.2	1.6	31.591	xxxxxxx	5.90	?	0.986	190.9
137	02/28/2013	04:09:41 PM	?	8.74	?	298.2	74.4	18.0	407.4	30.181	xxxxxxx	6.42	?	?	?	7.44	276.1	26.9	41.9	1.7	27.937	xxxxxxx	5.94	?	0.986	190.9
138	02/28/2013	04:09:51 PM	?	8.68	?	293.7	55.0	18.8	434.6	26.229	xxxxxxx	6.36	?	?	?	7.09	272.9	15.4	35.7	1.9	24.369	xxxxxxx	5.91	?	0.986	190.9
139	02/28/2013	04:10:01 PM	?	8.69	?	295.2	44.3	19.8	466.1	27.305	xxxxxxx	6.28	?	?	?	6.98	274.5	10.1	31.1	2.1	25.398	xxxxxxx	5.84	?	0.986	190.9
140	02/28/2013	04:10:11 PM	?	8.78	?	296.6	42.8	18.8	483.5	26.972	xxxxxxx	6.27	?	?	?	6.93	276.1	9.5	30.3	1.6	25.102	xxxxxxx	5.84	?	0.985	190.9
141	02/28/2013	04:10:21 PM	?	8.89	?	295.5	49.0	18.6	448.1	27.085	xxxxxxx	6.34	?	?	?	6.93	275.0	12.1	33.5	1.7	25.208	xxxxxxx	5.90	?	0.986	190.9
142	02/28/2013	04:10:31 PM	?	8.90	?	295.5	56.4	19.6	448.8	28.269	xxxxxxx	6.38	?	?	?	6.89	275.1	16.0	36.5	2.2	26.322	xxxxxxx	5.94	?	0.985	190.9
143	02/28/2013	04:10:41 PM	?	8.81	?	295.0	64.6	18.0	413.3	30.252	xxxxxxx	6.43	?	?	?	6.60	275.5	20.7	39.4	1.6	28.255	xxxxxxx	6.00	?	0.985	190.9
144	02/28/2013	04:10:51 PM	?	8.73	?	295.9	63.0	18.0	416.6	23.832	xxxxxxx	6.42	?	?	?	6.25	277.4	19.7	39.6	1.5	22.343	xxxxxxx	6.02	?	0.985	190.9
145	02/28/2013	04:11:01 PM	?	8.73	?	295.6	41.5	20.4	472.2	25.636	xxxxxxx	6.29	?	?	?	6.03	277.8	8.8	30.2	2.3	24.091	xxxxxxx	5.91	?	0.986	190.9
146	02/28/2013	04:11:11 PM	?	8.78	?	294.5	41.3	18.8	463.1	24.649	xxxxxxx	6.29	?	?	?	5.64	277.9	8.9	30.1	1.7	23.260	xxxxxxx	5.93	?	0.986	190.9
147	02/28/2013	04:11:21 PM	?	8.89	?	294.9	37.9	19.2	476.9	17.246	xxxxxxx	6.26	?	?	?	5.27	279.3	7.6	28.3	1.8	16.337	xxxxxxx	5.93	?	0.986	190.9
148	02/28/2013	04:11:31 PM	?	8.94	?	293.5	46.6	18.3	452.5	17.601	xxxxxxx	6.32	?	?	?	5.42	277.4	11.7	30.4	1.6	14.748	xxxxxxx	5.98	?	0.986	190.9
149	02/28/2013	04:11:41 PM	?	8.94	?	297.7	68.7	18.1	411.0	17.009	xxxxxxx	6.41	?	?	?	5.77	280.5	23.4	41.4	1.6	16.027	xxxxxxx	6.04	?	0.986	190.9
150	02/28/2013	04:11:51 PM	?	8.84	?	297.0	77.0	17.8	398.8	18.208	xxxxxxx	6.45	?	?	?	5.78	279.8	28.7	43.9	0.6	17.155	xxxxxxx	6.08	?	0.986	190.8
151	02/28/2013	04:12:01 PM	?	8.72	?	294.9	66.8	17.9	410.6	19.799	xxxxxxx	6.42	?	?	?	5.81	277.7	22.2	40.7	1.6	18.648	xxxxxxx	6.04	?	0.985	190.9
152	02/28/2013	04:12:11 PM	?	8.73	?	294.4	65.2	18.0	431.3	22.611	xxxxxxx	6.42	?	?	?	6.23	276.7	19.6	38.5	1.7	19.128	xxxxxxx	5.95	?	0.985	190.9
153	02/28/2013	04:12:21 PM	?	8.73	?	293.8	54.2	18.3	432.3	22.732	xxxxxxx	6.34	?	?	?	6.48	274.8	15.1	35.6	1.7	21.258	xxxxxxx	5.93	?	0.986	190.9
154	02/28/2013	04:12:31 PM	?	8.79	?	295.0	54.8	18.4	433.3	20.232	xxxxxxx	6.36	?	?	?	6.31	276.4	15.2	36.2	1.6	18.956	xxxxxxx	5.96	?	0.986	190.9
155	02/28/2013	04:12:41 PM	?	8.77	?	295.5	52.9	18.2	438.2	20.409	xxxxxxx	6.35	?	?	?	6.28	276.9	14.2	35.4	1.3	19.128	xxxxxxx	5.95	?	0.985	190.9
156	02/28/2013	04:12:51 PM	?	8.76	?	294.4	62.1	18.0	419.6	20.429	xxxxxxx	6.35	?	?	?	6.49	276.4	19.6	38.9	1.6	22.529	xxxxxxx	6.02	?	0.985	190.9
157	02/28/2013	04:13:01 PM	?	8.83	?	294.5	50.3	19.7	453.6	22.376	xxxxxxx	6.34	?	?	?	6.12	276.4	13.0	34.2	2.1	21.006	xxxxxxx	5.96	?	0.987	190.9
158	02/28/2013	04:13:11 PM	?	8.83	?	298.4	63.8	18.4	428.2	19.881	xxxxxxx	6.41	?	?	?	6.04	280.3	20.6	39.4	1.8	18.800	xxxxxxx	6.02	?	0.985	190.9
159	02/28/2013	04:13:21 PM	?	8.73	?	298.0	74.5	17.8	403.6	20.427	xxxxxxx	6.45	?	?	?	6.01	280.1	26.7	43.2	1.2	19.200	xxxxxxx	6.06	?	0.985	190.8
160	02/28/2013	04:13:31 PM	?	8.73	?	298.0	62.1	18.0	419.6	20.429	xxxxxxx	6.45	?	?	?	6.07	277.7	19.6	38.9	1.2	19.128	xxxxxxx	6.06	?	0.986	190.9
161	02/28/2013	04:13:41 PM	?	8.63	?	298.5	45.2	19.6	481.4	18.721	xxxxxxx	6.28	?	?	?	5.87	281.0	10.3	32.2	1.9	17.623	xxxxxxx	5.91	?	0.986	190.9
162	02/28/2013	04:13:51 PM	?	8.74	?	300.0	33.5	22.5	521.2	17.713	xxxxxxx	6.22	?	?	?	5.93	282.2	6.1	25.4	3.4	16.663	xxxxxxx	5.85	?	0.986	190.8
163	02/28/2013	04:14:01 PM	?	8.89	?	302.6	28.4	22.9	531.0	19.322	xxxxxxx	6.17	?	?	?	6.68	282.4	4.8	21.7	3.3	18.032	xxxxxxx	5.76	?	0.986	190.8
164	02/28/2013	04:14:11 PM	?	9.10	?	297.5	35.8	23.7	485.3	12.940	xxxxxxx	6.14	?	?	?	9.30	274.5	4.2	21.0	3.2	24.848	xxxxxxx	5.74	?	0.986	190.8
165	02/28/2013	04:14:21 PM	?	9.10	?	300.2	26.8	23.6	534.3	34.407	xxxxxxx	6.14	?	?	?	8.86	273.6	4.0	20.5	3.8	31.359	xxxxxxx	5.60	?	0.985	190.8
166	02/28/2013	04:14:31 PM	?	9.15	?	298.5	28.9	22.0	514.3	36.359	xxxxxxx	6.19	?	?	?	8.44	273.3	4.4	22.0	2.6	33.292	xxxxxxx	5.66	?	0.985	190.8
167	02/28/2013	04:14:41 PM	?	9.11	?	295.4	38.0	21.1	471.9	32.911	xxxxxxx	6.28	?	?	?	7.59	272.9	8.0	27.1	2.5	30.412	xxxxxxx	5.80	?	0.985	190.8
168	02/28/2013	04:14:51 PM	?	9.04	?	297.2	62.9	18.4	418.3	24.448	xxxxxxx	6.44	?	?	?	7.10	276.1	10.1	38.4	1.4	23.494	xxxxxxx	5.84	?	0.986	190.8
169	02/28/2013	04:15:01 PM	?	8.85	?	297.6	67.2	17.9	408.3	24.448	xxxxxxx	6.28	?	?	?	7.00	276.8	21.8	40.6	1.3	22.737	xxxxxxx	5.99	?	0.986	190.9
170	02/28/2013	04:15:11 PM	?	8.73	?	295.7	70.9	17.8	402.2	23.313	xxxxxxx	6.46	?	?	?	7.08	274.8	24.1	41.7	1.5	21.662	xxxxxxx	6.00	?	0.986	190.9
171	02/28/2013	04:15:21 PM	?	8.69	?	299.2	77.1	17.7	401.1	25.059	xxxxxxx	6.46	?	?	?	7.29	277.4	28.1	43.4	1.2	23.233	xxxxxxx	5.99	?	0.985	190.8
172	02/28/2013	04:15:31 PM	?	8.64	?	296.4	64.0	18.7	409.6	23.609	xxxxxxx	6.46	?	?	?	7.02	277.7	26.6	40.9	1.2	21.646	xxxxxxx	5.99	?	0.985	190.8
173	02/28/2013	04:15:41 PM	?	8.64	?	296.2	64.2	19.0	417.0	24.439	xxxxxxx	6.41	?	?	?	7.17	275.0	20.4	39.3	2.0	22.686	xxxxxxx	5.95	?	0.986	190.8
174	02/28/2013	04:15:51 PM	?	8.69	?	295.2	51.3	19.2	453.4	26.167	xxxxxxx	6.32	?	?	?	7.11	274.2	13.3	34.3	2.0	24.307	xxxxxxx	5.87	?	0.986	190.8
175	02/28/2013	04:16:01 PM	?	8.74	?	295.6	43.4	18.7	459.6	27.224	xxxxxxx	6.28	?	?	?	7.02	274.8	9.5	30.8	1.8	25.313	xxxxxxx	5.84	?	0.987	

224	02/28/2013	04:24:14 PM	?	8.73	?	294.1	48.7	19.4	436.8	26.329	xxxxxxx	6.31	?	?	?	9.15	267.2	12.3	32.0	2.1	23.920	xxxxxxx	5.73	?	0.985	190.7
225	02/28/2013	04:24:24 PM	?	8.78	?	294.3	61.7	19.0	415.8	25.480	xxxxxxx	6.31	?	?	?	8.91	268.1	19.1	37.1	2.0	23.209	xxxxxxx	5.80	?	0.986	190.7
226	02/28/2013	04:24:34 PM	?	8.80	?	296.7	71.1	17.8	404.8	25.346	xxxxxxx	6.47	?	?	?	8.75	270.7	24.4	40.4	1.6	23.127	xxxxxxx	5.85	?	0.985	190.7
227	02/28/2013	04:24:44 PM	?	8.71	?	301.1	78.0	17.9	402.2	25.321	xxxxxxx	6.46	?	?	?	8.67	275.0	28.7	42.6	1.5	23.127	xxxxxxx	5.90	?	0.984	190.8
228	02/28/2013	04:24:54 PM	?	8.63	?	297.3	87.2	17.7	402.2	30.976	xxxxxxx	6.42	?	?	?	8.63	275.0	26.6	40.2	1.5	27.793	xxxxxxx	5.76	?	0.985	190.7
229	02/28/2013	04:25:04 PM	?	8.75	?	294.7	64.0	17.9	415.4	33.487	xxxxxxx	6.37	?	?	?	10.39	264.1	20.6	36.8	1.6	30.007	xxxxxxx	5.70	?	0.986	190.7
230	02/28/2013	04:25:14 PM	?	8.69	?	293.2	50.6	20.0	439.6	32.315	xxxxxxx	6.30	?	?	?	10.13	263.5	13.2	32.2	2.3	29.041	xxxxxxx	5.66	?	0.986	190.8
231	02/28/2013	04:25:24 PM	?	8.78	?	297.0	34.9	21.1	485.1	31.897	xxxxxxx	6.21	?	?	?	9.46	268.9	6.6	25.0	2.5	28.880	xxxxxxx	5.62	?	0.985	190.8
232	02/28/2013	04:25:34 PM	?	8.94	?	295.2	38.1	19.7	463.6	31.309	xxxxxxx	6.25	?	?	?	9.00	268.6	7.8	26.8	2.1	28.492	xxxxxxx	5.67	?	0.985	190.7
233	02/28/2013	04:25:44 PM	?	8.90	?	294.4	45.6	20.0	442.9	28.547	xxxxxxx	6.29	?	?	?	8.85	268.3	10.8	30.8	2.2	26.021	xxxxxxx	5.73	?	0.984	190.7
234	02/28/2013	04:25:54 PM	?	9.08	?	294.2	57.8	18.5	423.3	27.061	xxxxxxx	6.36	?	?	?	9.06	267.5	17.0	35.6	1.9	24.609	xxxxxxx	5.79	?	0.985	190.7
235	02/28/2013	04:26:04 PM	?	8.89	?	295.4	61.3	18.1	416.1	28.607	xxxxxxx	6.38	?	?	?	9.59	267.1	18.7	36.7	1.6	25.863	xxxxxxx	5.77	?	0.985	190.7
236	02/28/2013	04:26:14 PM	?	8.78	?	294.9	61.1	17.9	415.3	32.526	xxxxxxx	6.37	?	?	?	9.00	265.0	18.5	36.4	1.6	29.229	xxxxxxx	5.73	?	0.985	190.7
237	02/28/2013	04:26:24 PM	?	8.74	?	297.2	52.2	20.5	439.6	32.872	xxxxxxx	6.32	?	?	?	9.74	268.3	13.9	33.2	2.4	29.670	xxxxxxx	5.70	?	0.985	190.7
238	02/28/2013	04:26:34 PM	?	8.73	?	296.2	41.1	20.1	463.5	32.764	xxxxxxx	6.26	?	?	?	9.49	268.1	8.8	28.4	2.2	29.654	xxxxxxx	5.67	?	0.986	190.7
239	02/28/2013	04:26:44 PM	?	8.83	?	296.6	35.3	21.8	489.9	34.333	xxxxxxx	6.22	?	?	?	9.42	268.6	6.8	25.3	2.9	31.101	xxxxxxx	5.63	?	0.986	190.8
240	02/28/2013	04:26:54 PM	?	8.94	?	297.1	33.3	22.0	502.8	36.238	xxxxxxx	6.21	?	?	?	9.38	269.3	6.1	24.1	3.0	32.839	xxxxxxx	5.63	?	0.986	190.7
241	02/28/2013	04:27:04 PM	?	8.98	?	296.1	34.8	21.3	496.2	38.547	xxxxxxx	6.23	?	?	?	9.18	268.9	6.6	25.0	2.6	35.009	xxxxxxx	5.66	?	0.985	190.7
242	02/28/2013	04:27:14 PM	?	8.99	?	295.1	42.4	19.5	454.7	39.568	xxxxxxx	6.23	?	?	?	8.74	269.3	9.3	29.4	2.1	36.109	xxxxxxx	5.76	?	0.985	190.7
243	02/28/2013	04:27:24 PM	?	8.94	?	298.4	63.3	18.3	418.4	36.800	xxxxxxx	6.42	?	?	?	8.34	273.5	20.1	38.0	1.7	33.730	xxxxxxx	5.88	?	0.985	190.7
244	02/28/2013	04:27:34 PM	?	8.77	?	298.9	75.8	17.6	403.8	36.416	xxxxxxx	6.45	?	?	?	7.92	275.2	27.8	42.5	1.5	33.531	xxxxxxx	5.94	?	0.985	190.8
245	02/28/2013	04:27:44 PM	?	8.69	?	296.2	17.9	41.2	414.0	31.500	xxxxxxx	6.42	?	?	?	7.56	273.8	22.5	39.7	1.8	29.118	xxxxxxx	5.94	?	0.985	190.7
246	02/28/2013	04:27:54 PM	?	8.69	?	295.0	51.9	18.4	438.9	28.848	xxxxxxx	6.34	?	?	?	7.32	273.4	13.9	34.2	1.8	26.736	xxxxxxx	5.87	?	0.986	190.7
247	02/28/2013	04:28:04 PM	?	8.74	?	292.7	46.5	18.2	446.6	28.724	xxxxxxx	6.29	?	?	?	7.21	271.6	11.2	31.9	1.7	26.652	xxxxxxx	5.84	?	0.985	190.8
248	02/28/2013	04:28:14 PM	?	8.88	?	293.6	41.0	18.6	458.9	31.642	xxxxxxx	6.28	?	?	?	7.19	272.5	8.8	27.7	3.0	32.839	xxxxxxx	5.63	?	0.986	190.7
249	02/28/2013	04:28:24 PM	?	8.88	?	296.5	40.0	19.8	462.4	29.142	xxxxxxx	6.28	?	?	?	7.43	274.4	8.4	28.6	2.1	26.976	xxxxxxx	5.81	?	0.986	190.7
250	02/28/2013	04:28:34 PM	?	8.89	?	293.6	37.9	20.8	464.0	27.691	xxxxxxx	6.26	?	?	?	7.47	271.6	7.6	27.5	2.6	25.621	xxxxxxx	5.80	?	0.986	190.7
251	02/28/2013	04:28:44 PM	?	8.93	?	294.3	52.0	18.9	431.4	27.402	xxxxxxx	6.35	?	?	?	7.38	272.5	14.4	33.8	2.0	25.380	xxxxxxx	5.88	?	0.986	190.7
252	02/28/2013	04:28:54 PM	?	8.89	?	294.2	49.8	18.2	427.2	27.602	xxxxxxx	6.35	?	?	?	7.22	276.9	12.2	27.7	2.0	27.402	xxxxxxx	5.77	?	0.984	190.7
253	02/28/2013	04:29:05 PM	?	8.73	?	299.4	78.1	17.3	32.592	xxxxxxx	6.45	?	?	?	9.22	271.8	28.4	42.6	1.0	29.588	xxxxxxx	5.85	?	0.984	190.8	
254	02/28/2013	04:29:15 PM	?	8.63	?	294.7	63.8	17.6	413.0	30.386	xxxxxxx	6.39	?	?	?	8.86	268.6	19.6	38.6	1.7	27.694	xxxxxxx	5.83	?	0.985	190.8
255	02/28/2013	04:29:25 PM	?	8.68	?	294.1	57.2	18.2	427.2	30.103	xxxxxxx	6.37	?	?	?	8.62	268.7	15.6	36.6	1.8	26.956	xxxxxxx	5.82	?	0.985	190.8
256	02/28/2013	04:29:35 PM	?	8.79	?	294.2	60.4	18.6	438.9	33.662	xxxxxxx	6.36	?	?	?	8.53	273.5	24.0	40.2	1.5	29.669	xxxxxxx	5.76	?	0.986	190.7
257	02/28/2013	04:29:45 PM	?	8.79	?	297.6	57.1	18.6	432.7	27.595	xxxxxxx	6.36	?	?	?	8.74	271.6	15.9	36.2	1.9	25.184	xxxxxxx	5.80	?	0.985	190.7
258	02/28/2013	04:29:55 PM	?	8.79	?	295.8	67.9	17.4	409.6	27.959	xxxxxxx	6.41	?	?	?	9.20	268.6	22.0	39.6	1.1	25.386	xxxxxxx	5.82	?	0.985	190.8
259	02/28/2013	04:30:05 PM	?	8.73	?	298.6	75.2	17.6	403.2	31.665	xxxxxxx	6.43	?	?	?	10.19	268.2	26.4	41.1	1.5	28.438	xxxxxxx	5.78	?	0.985	190.7
260	02/28/2013	04:30:15 PM	?	8.79	?	294.2	69.8	18.6	438.9	33.662	xxxxxxx	6.43	?	?	?	10.19	268.2	26.4	41.1	1.5	28.438	xxxxxxx	5.78	?	0.985	190.7
261	02/28/2013	04:30:25 PM	?	8.69	?	293.3	45.4	20.6	450.0	33.529	xxxxxxx	6.29	?	?	?	10.69	262.0	9.9	30.6	2.5	29.947	xxxxxxx	5.62	?	0.986	190.7
262	02/28/2013	04:30:35 PM	?	8.79	?	294.6	44.9	20.3	452.2	31.863	xxxxxxx	6.28	?	?	?	10.37	264.1	10.2	30.0	2.4	28.558	xxxxxxx	5.63	?	0.985	190.7
263	02/28/2013	04:30:45 PM	?	8.72	?	293.9	40.4	20.7	467.5	31.007	xxxxxxx	6.26	?	?	?	10.27	263.7	8.4	27.9	2.4	27.823	xxxxxxx	5.62	?	0.985	190.7
264	02/28/2013	04:30:55 PM	?	8.90	?	293.5	41.0	20.6	430.2	32.056	xxxxxxx	6.36	?	?	?	10.40	264.4	15.7	31.2	2.2	31.725	xxxxxxx	5.12	?	0.984	190.8
265	02/28/2013	04:31:05 PM	?	8.83	?	300.8	79.9	18.1	398.8	33.227	xxxxxxx	6.44	?	?	?	10.48	269.3	29.8	41.7	1.8	29.745	xxxxxxx	5.77	?	0.985	190.8
266	02/28/2013	04:31:15 PM	?	8.72	?	302.2	86.3	17.5	392.7	34.563	xxxxxxx	6.46	?	?	?	10.44	270.6	33.9	43.4	1.4	30.954	xxxxxxx	5.78	?	0.986	190.7
267	02/28/2013	04:31:25 PM	?	8.58	?	299.6	75.5	17.8	404.5	35.971	xxxxxxx	6.44	?	?	?	10.39	268.5	26.9	40.8	1.6	32.333	xxxxxxx	5.77	?	0.985	190.8
268	02/28/2013	04:31:35 PM	?	8.78	?	294.2	60.4	17.9	420.3	35.748	xxxxxxx	6.40	?	?	?	10.15	264.4	18.4	35.9	2.9	32.121	xxxxxxx	5.66	?	0.986	190.7
269	02/28/2013	04:31:45 PM	?	8.71	?	294.4	47.7	19.9	448.2	34.855	xxxxxxx	6.30	?	?	?	10.06	264.8	11.5	31.4	2.2	31.249	xxxxxxx	5.66	?	0.986	190.8
270	02/28/2013	04:31:55 PM	?	8.78	?	292.0	38.2	20.4	477.7	35.074	xxxxxxx	6.23	?	?	?	10.07	262.6	7.7	26.7	2.3	31.543	xxxxxxx	5.60	?	0.985	190.8
271	02/28/2013	04:32:05 PM	?	8.90	?	293.7	35.9	20.9	485.9	36.010	xxxxxxx	6.21	?	?	?	10.12	264.0	6.8	25.4	2.4	32.367	xxxxxxx	5.59	?	0.985	190.8
272	02/28/2013	04:32:15 PM	?	8.72	?	294.7	34.4	21.9	494.7	36.916	xxxxxxx	6.21	?	?	?	10.09	264.9	7.9	24.7	2.0	34.619	xxxxxxx	5.79	?	0.986	190.7
273	02/28/2013	04:32:25 PM	?	8.98	?	294.9	48.0	20.3	445.6	45.901	xxxxxxx	6.31	?	?	?	9.80	266.0	12.1	31.2	2.3	41.402	xxxxxxx	5.69	?	0.985	190.7
274	02/28/2013	04:32:35 PM	?	8.75	?	300.1	19.1	40.4	404.3	36.480	xxxxxxx	6.44	?	?	?	8.94	273.3	27.2	41.5	2.1	33.218	xxxxxxx	5.87	?	0.985	190.8
275	02/28/2013	04:32:45 PM	?	8.69	?	291.4	58.8	20.1	417.3	49.827	xxxxxxx	6.33	?	?	?	16.93	242.1	15.4	33.5	2.4	41.392	xxxxxxx	5.26	?		

324	02/28/2013	04:40:57 PM	?	8.84	?	298.8	69.6	17.8	407.9	31.893	xxxxxxx	6.42	?	?	?	7.89	275.2	23.6	40.5	1.6	29.377	xxxxxxx	5.91	?	0.986	190.9																									
325	02/28/2013	04:41:07 PM	?	8.73	?	299.5	79.2	18.0	396.9	32.603	xxxxxxx	6.48	?	?	?	7.63	276.6	29.9	43.3	1.8	30.115	xxxxxxx	5.99	?	0.984	190.9																									
326	02/28/2013	04:41:17 PM	?	8.65	?	296.4	74.4	17.5	401.2	30.298	xxxxxxx	6.44	?	?	?	7.28	274.9	26.9	42.1	1.5	28.092	xxxxxxx	5.98	?	0.985	190.9																									
327	02/28/2013	04:41:27 PM	?	8.59	?	294.9	62.4	17.6	419.6	28.670	xxxxxxx	6.38	?	?	?	7.15	273.8	19.4	38.5	1.2	26.619	xxxxxxx	5.92	?	0.985	190.9																									
328	02/28/2013	04:41:37 PM	?	8.68	?	298.7	50.1	19.7	441.5	28.306	xxxxxxx	6.31	?	?	?	7.11	274.2	12.7	33.9	2.2	26.294	xxxxxxx	5.86	?	0.985	190.9																									
329	02/28/2013	04:41:47 PM	?	8.78	?	294.5	38.2	19.9	483.5	28.273	xxxxxxx	6.23	?	?	?	7.10	273.6	7.7	27.7	2.1	26.265	xxxxxxx	5.79	?	0.986	190.9																									
330	02/28/2013	04:41:57 PM	?	8.89	?	295.3	37.1	20.3	490.4	28.027	xxxxxxx	6.24	?	?	?	7.05	274.5	7.4	27.2	2.3	26.052	xxxxxxx	5.80	?	0.985	190.9																									
331	02/28/2013	04:42:07 PM	?	8.93	?	297.5	54.5	18.5	432.4	28.975	xxxxxxx	6.37	?	?	?	8.50	272.2	14.6	35.2	1.8	26.512	xxxxxxx	5.82	?	0.985	190.9																									
332	02/28/2013	04:42:17 PM	?	8.94	?	300.4	72.4	17.8	408.0	26.913	xxxxxxx	6.44	?	?	?	8.28	275.5	24.5	41.9	1.4	24.683	xxxxxxx	5.91	?	0.985	190.9																									
333	02/28/2013	04:42:27 PM	?	8.80	?	298.0	76.7	17.5	402.3	24.752	xxxxxxx	6.46	?	?	?	8.03	274.1	27.5	43.1	1.3	22.765	xxxxxxx	5.94	?	0.986	190.9																									
334	02/28/2013	04:42:37 PM	?	8.69	?	292.9	53.3	20.3	444.3	23.963	xxxxxxx	6.31	?	?	?	9.68	264.5	13.9	34.2	2.4	21.643	xxxxxxx	5.70	?	0.986	190.9																									
335	02/28/2013	04:42:47 PM	?	8.68	?	294.0	41.4	20.0	463.6	25.094	xxxxxxx	6.28	?	?	?	10.58	262.9	7.9	29.1	2.2	22.440	xxxxxxx	5.61	?	0.986	190.9																									
336	02/28/2013	04:42:57 PM	?	8.78	?	294.0	36.9	21.5	490.9	27.328	xxxxxxx	6.23	?	?	?	10.57	262.9	6.4	26.6	2.9	24.438	xxxxxxx	5.57	?	0.985	190.9																									
337	02/28/2013	04:43:07 PM	?	8.89	?	295.5	34.4	21.1	487.1	30.327	xxxxxxx	6.22	?	?	?	10.58	264.2	5.7	25.1	2.6	27.119	xxxxxxx	5.66	?	0.986	190.9																									
338	02/28/2013	04:43:17 PM	?	8.94	?	294.3	34.3	20.7	472.8	34.017	xxxxxxx	6.22	?	?	?	10.47	263.5	6.3	24.4	2.4	30.454	xxxxxxx	5.57	?	0.986	190.9																									
339	02/28/2013	04:43:27 PM	?	8.98	?	293.8	48.9	18.6	436.9	45.405	xxxxxxx	6.33	?	?	?	10.88	261.8	11.7	31.8	1.9	40.463	xxxxxxx	5.64	?	0.982	190.9																									
340	02/28/2013	04:43:37 PM	?	8.91	?	297.4	68.7	29.4	415.5	601.932	xxxxxxx	4.86	?	?	?	38.36	171.0	27.2	15.2	4.1	371.039	xxxxxxx	2.99	?	0.982	190.9																									
341	02/28/2013	04:43:47 PM	?	8.79	?	245.2	87.7	47.2	433.4	468.721	xxxxxxx	2.82	?	?	?	49.51	123.8	50.7	-6.4	4.8	236.678	xxxxxxx	1.43	?	0.983	190.9																									
342	02/28/2013	04:43:57 PM	?	8.73	?	273.4	56.7	39.8	454.1	228.078	xxxxxxx	4.32	?	?	?	41.85	159.0	30.2	2.8	4.7	132.638	xxxxxxx	2.43	?	0.985	190.9																									
343	02/28/2013	04:44:07 PM	?	8.73	?	284.1	36.9	26.8	449.7	104.447	xxxxxxx	5.48	?	?	?	32.75	191.1	16.8	8.1	3.6	70.242	xxxxxxx	3.68	?	0.985	190.9																									
344	02/28/2013	04:44:17 PM	?	8.78	?	290.8	35.7	22.3	476.5	65.104	xxxxxxx	6.06	?	?	?	12.61	256.9	19.3	34.4	2.1	33.397	xxxxxxx	5.55	?	0.985	190.9																									
345	02/28/2013	04:44:28 PM	?	8.89	?	291.0	35.3	20.5	461.1	59.576	xxxxxxx	6.16	?	?	?	20.47	231.4	6.6	21.4	2.4	47.381	xxxxxxx	4.90	?	0.986	190.9																									
346	02/28/2013	04:44:38 PM	?	8.91	?	293.9	47.2	20.2	437.0	55.406	xxxxxxx	6.24	?	?	?	17.98	241.1	11.3	27.4	2.3	45.447	xxxxxxx	5.12	?	0.985	190.9																									
347	02/28/2013	04:44:48 PM	?	8.90	?	292.9	54.0	19.2	422.3	49.803	xxxxxxx	6.30	?	?	?	15.36	247.9	14.8	30.9	2.2	42.153	xxxxxxx	5.33	?	0.985	190.9																									
348	02/28/2013	04:44:58 PM	?	8.83	?	294.0	61.4	19.0	413.3	38.215	xxxxxxx	6.35	?	?	?	12.61	256.9	19.3	34.4	2.1	33.397	xxxxxxx	5.55	?	0.985	190.9																									
349	02/28/2013	04:45:08 PM	?	8.76	?	299.8	76.2	17.4	403.0	34.038	xxxxxxx	6.42	?	?	?	10.78	267.5	27.6	40.4	1.3	30.367	xxxxxxx	5.73	?	0.985	190.9																									
350	02/28/2013	04:45:18 PM	?	8.69	?	297.0	65.3	17.7	415.4	32.054	xxxxxxx	6.38	?	?	?	9.66	268.3	21.7	37.3	1.6	28.958	xxxxxxx	5.77	?	0.985	190.9																									
351	02/28/2013	04:45:28 PM	?	8.64	?	296.5	49.6	19.3	446.3	28.238	xxxxxxx	6.30	?	?	?	8.72	270.6	13.0	32.3	2.1	25.775	xxxxxxx	5.75	?	0.985	190.9																									
352	02/28/2013	04:45:38 PM	?	8.91	?	294.0	42.5	18.7	460.1	75.376	xxxxxxx	6.27	?	?	?	8.91	268.7	9.7	29.2	1.9	23.297	xxxxxxx	5.71	?	0.985	190.9																									
353	02/28/2013	04:45:48 PM	?	8.83	?	291.9	38.5	19.7	488.8	36.458	xxxxxxx	6.19	?	?	?	15.10	247.9	7.6	25.1	2.2	30.954	xxxxxxx	5.26	?	0.985	190.9																									
354	02/28/2013	04:45:58 PM	?	8.88	?	287.9	36.7	22.1	453.1	76.432	xxxxxxx	6.07	?	?	?	23.88	219.2	8.5	19.4	3.2	58.183	xxxxxxx	4.62	?	0.984	190.9																									
355	02/28/2013	04:46:08 PM	?	8.89	?	286.5	45.2	25.2	430.7	200.037	xxxxxxx	5.66	?	?	?	31.68	195.7	19.1	11.8	3.1	136.659	xxxxxxx	3.87	?	0.984	190.9																									
356	02/28/2013	04:46:18 PM	?	8.79	?	295.5	71.9	25.7	406.7	189.486	xxxxxxx	5.65	?	?	?	32.80	197.2	31.8	5.6	2.4	127.337	xxxxxxx	3.80	?	0.985	190.9																									
357	02/28/2013	04:46:28 PM	?	8.63	?	291.3	60.0	23.3	411.6	169.007	xxxxxxx	5.74	?	?	?	31.53	199.5	25.8	15.3	2.3	115.726	xxxxxxx	3.93	?	0.984	190.9																									
358	02/28/2013	04:46:38 PM	?	8.64	?	287.4	46.2	23.5	429.3	156.631	xxxxxxx	5.83	?	?	?	29.43	202.8	16.4	16.2	3.0	110.536	xxxxxxx	4.11	?	0.985	190.9																									
359	02/28/2013	04:46:48 PM	?	8.69	?	296.5	70.5	20.0	404.7	81.886	xxxxxxx	6.28	?	?	?	21.47	232.8	23.0	32.4	2.4	64.301	xxxxxxx	4.93	?	0.986	190.9																									
360	02/28/2013	04:46:58 PM	?	8.69	?	298.5	75.4	20.1	402.7	58.394	xxxxxxx	6.33	?	?	?	18.70	242.7	26.1	35.1	2.5	47.475	xxxxxxx	5.15	?	0.986	190.9																									
AverageMeasuredValues,																												?	8.81	?	295.4	54.0	19.6	440.6	42.199	xxxxxxx	6.27	?	?	?	10.11	265.7	15.9	32.6	2.0	34.721	xxxxxxx	5.66	?	0.985	190.8

Miscellaneous:  
 LoggingInterval (seconds), 10  
 TestRunInterval (minutes), 60  
 DateTimeCompleted, 2/28/2013 4:46:59 PM, i22o956tcfwqxn8bvVQf2TuA7AB28ecUEEq1DsZuQ=

\*\*\*\*\*Bias Check 3\*\*\*\*\*  
 TestCfgFilePathNameExt, "C:\EmTest\data\Speed of Air Test 2\_Unitc-35\_2013-02-28\EmTest.x1s"

Record ID	Date/Time	Pre O2 (%)	Post O2 (%)	Pre CO (ppm)	Post CO (ppm)	NOx (ppm)	VOC Dry (ppm)	THC Dry (ppm)	HCHO (ppm)	NH3 (ppm)	CO2 (ppm)	Ambient Pressure (InHg)	Ambient Temp (degF)	Relative Humidity (%)	H2O (%)	CO Wet (ppm)	NO Wet (ppm)	NO2 Wet (ppm)	Propane Wet (ppm)	HCHO Wet (ppm)	NH3 Wet (ppm)	CO2 Wet (%)	22 (none)	Gas Pres (atm)	Gas Temp (degC)
0	02/28/2013 04:49:20 PM	?	8.89	?	293.4	52.9	20.2	430.5	30.207	0.3	6.36	?	?	?	7.51	271.3	14.3	34.6	2.4	27.938	0.3	5.88	?	0.986	190.9
1	02/28/2013 04:49:30 PM	?	8.84	?	297.0	67.1	18.1	414.8	26.453	0.3	6.41	?	?	?	7.31	275.3	22.5	39.7	1.6	24.519	0.3	5.94	?	0.986	190.9
2	02/28/2013 04:49:40 PM	?	8.78	?	297.8	73.7	17.6	402.8	26.649	0.3	6.45	?	?	?	7.25	276.3	26.3	42.0	1.0	24.718	0.3	5.98	?	0.986	190.9
3	02/28/2013 04:49:50 PM	?	8.70	?	296.1	73.2	17.7	400.0	26.944	0.3	6.44	?	?	?	7.12	275.0	26.1	41.9	1.5	25.024	0.3	5.98	?	0.986	190.9
4	02/28/2013 04:50:00 PM	?	8.61	?	194.6	49.5	13.0	178.0	154.936	0.1	2.88	?	?	?	20.72	154.3	14.1	25.2	-0.2	122.829	0.0	2.29	?	0.983	190.9
5	02/28/2013 04:50:10 PM	?	7.36	?	16.0	6.7	15.4	38.8	364.302	-0.8	-0.74	?	?	?	39.68	9.7	18.1	-14.0	2.7	219.744	-0.5	-0.45	?	0.983	190.9
6	02/28/2013 04:50:20 PM	?	6.16	?	0.6	11.2	17.8	35.0	348.654	-0.8	-1.13	?	?	?	41.17	0.4	20.3	-13.6	2.7	205.114	-0.5	-0.66	?	0.985	190.9
7	02/28/2013 04:50:30 PM	?	5.96	?	2.6	-1.5	10.0	19.4	160.493	-0.2	-0.59	?	?	?	35.50	1.7	12.4	-13.4	1.9	103.516	-0.1	-0.38	?	0.985	190.9
8	02/28/2013 04:50:40 PM	?	6.02	?	3.3	-0.7	0.4	4.2	95.787	0.2	-0.19	?	?	?	28.83	2.3	5.2	-5.7	1.7	68.168	0.2	-0.13	?	0.985	190.9
9	02/28/2013 04:50:50 PM	?	6.02	?	4.0	0.9	0.0	1.5	84.497	0.5	-0.03	?	?	?	24.97	3.0	1.7	-2.4	0.8	63.400	0.4	-0.02	?	0.986	190.9
10	02/28/2013 04:51:00 PM	?	6.02	?	3.9	-0.6	0.0	0.0	74.858	0.5	0.04	?	?	?	21.54	3.0	-0.1	-0.4	0.4	58.736	0.4	0.03	?	0.986	190.9
11	02/28/2013 04:51:10 PM	?	6.03	?	3.8	-0.1	0.0	0.0	61.871	0.5	0.05	?	?	?	18.36	3.1	-0.4	0.3	0.3	50.509	0.4	0.04	?	0.986	

\*\*\*\*\*Test Run 3\*\*\*\*\*

TestCfgFilePathNameExt, "C:\EmTestData\Speed Of Air Test\_2\_Unitc-35\_2013-02-28\EmTest.x1s"  
 PreO2DryIndex, -1  
 PostO2DryIndex, 1  
 PreCO2DryIndex, 3  
 PostCO2DryIndex, 4  
 NOxDryIndex, 5  
 VOCDryIndex, 6  
 THCDryIndex, 7  
 HCHOdryIndex, 8  
 NH3DryIndex, 8  
 Spare1DryIndex, -1  
 Spare2DryIndex, -1  
 Spare3DryIndex, -1  
 Spare4DryIndex, -1  
 H2OIndex, 13  
 NmhcWetIndex, -1  
 ThcWetIndex, -1  
 CoWetIndex, 14  
 NowetIndex, 15  
 NoZwetIndex, 16  
 PropaneWetIndex, 17  
 HchowetIndex, 18  
 NH3wetIndex, 19  
 Spare1wetIndex, -1  
 Spare2wetIndex, -1  
 Spare3wetIndex, -1  
 Spare4wetIndex, -1

Record ID	Date/Time	Pre O2, Dry (%)	Post O2, Dry (%)	Pre CO, Dry (ppm)	Post CO, Dry (ppm)	NOx, Dry (ppm)	VOC Dry, as Prop. (ppm)	THC Dry, as Prop. (ppm)	HCHO, Dry (ppm)	NH3, Dry (ppm)	CO2, Dry (%)	Ambient, Pressure, (InHg)	Ambient, Temp, (degF)	Relative, Humidity, (%)	H2O%, wet, (%)	CO, wet, (ppm)	NO, wet, (ppm)	NO2, wet, (ppm)	Propane, wet, (ppm)	HCHO, wet, (ppm)	NH3, wet, (ppm)	CO2, wet, (%)	22, (none)	Gas, Pres, (atm)	Gas Temp (degC)
0	02/28/2013 04:55:55 PM	?	8.60	?	296.2	45.4	20.5	460.9	11.275	xxxxxxx	6.33	?	?	?	3.16	286.9	11.8	32.2	2.4	10.919	xxxxxxx	6.13	?	0.985	190.9
1	02/28/2013 04:56:05 PM	?	8.68	?	296.2	37.2	21.3	473.6	10.466	xxxxxxx	6.27	?	?	?	3.07	287.2	8.2	27.8	2.8	10.145	xxxxxxx	6.08	?	0.986	190.9
2	02/28/2013 04:56:15 PM	?	8.83	?	296.1	35.2	20.6	475.7	10.552	xxxxxxx	6.25	?	?	?	3.00	287.3	7.5	26.6	2.3	10.236	xxxxxxx	6.06	?	0.986	190.9
3	02/28/2013 04:56:25 PM	?	8.89	?	297.3	33.9	21.2	490.1	10.264	xxxxxxx	6.25	?	?	?	2.83	288.8	7.2	25.8	2.5	9.973	xxxxxxx	6.07	?	0.985	190.9
4	02/28/2013 04:56:35 PM	?	8.94	?	297.7	37.5	20.4	480.8	9.867	xxxxxxx	6.26	?	?	?	2.68	289.7	8.2	28.3	2.2	9.603	xxxxxxx	6.10	?	0.986	190.9
5	02/28/2013 04:56:45 PM	?	8.94	?	292.1	49.0	18.5	432.7	9.940	xxxxxxx	6.24	?	?	?	4.31	284.5	13.6	34.1	1.8	9.681	xxxxxxx	6.17	?	0.986	190.9
6	02/28/2013 04:56:55 PM	?	8.88	?	297.4	63.3	17.9	414.0	10.166	xxxxxxx	6.40	?	?	?	2.57	289.8	21.6	40.1	1.3	9.905	xxxxxxx	6.23	?	0.986	190.9
7	02/28/2013 04:57:05 PM	?	8.73	?	297.6	59.7	18.1	423.4	10.533	xxxxxxx	6.38	?	?	?	2.51	290.1	19.4	38.8	1.2	10.269	xxxxxxx	6.22	?	0.986	190.9
8	02/28/2013 04:57:15 PM	?	8.74	?	296.8	61.8	17.9	419.5	8.860	xxxxxxx	6.40	?	?	?	2.40	289.7	20.5	39.9	1.5	8.647	xxxxxxx	6.25	?	0.986	190.9
9	02/28/2013 04:57:25 PM	?	8.69	?	297.3	67.9	17.8	411.0	7.608	xxxxxxx	6.43	?	?	?	2.37	290.3	24.1	42.2	0.3	7.428	xxxxxxx	6.27	?	0.985	190.9
10	02/28/2013 04:57:35 PM	?	8.69	?	298.6	60.0	18.0	432.9	7.510	xxxxxxx	6.39	?	?	?	2.37	291.5	19.2	39.4	0.9	7.333	xxxxxxx	6.24	?	0.985	190.9
11	02/28/2013 04:57:45 PM	?	8.66	?	295.3	53.3	18.2	439.4	7.468	xxxxxxx	6.34	?	?	?	2.36	288.4	15.5	36.5	1.7	7.292	xxxxxxx	6.19	?	0.986	191.0
12	02/28/2013 04:57:55 PM	?	8.73	?	294.7	42.3	18.4	456.4	7.453	xxxxxxx	6.29	?	?	?	2.35	287.8	10.2	31.1	1.2	7.278	xxxxxxx	6.25	?	0.986	190.9
13	02/28/2013 04:58:05 PM	?	8.78	?	293.8	35.7	20.7	489.3	8.034	xxxxxxx	6.25	?	?	?	2.34	286.9	7.6	27.3	2.5	7.846	xxxxxxx	6.14	?	0.986	190.9
14	02/28/2013 04:58:15 PM	?	8.90	?	298.2	41.5	19.7	470.6	7.996	xxxxxxx	6.28	?	?	?	2.32	291.3	10.2	30.4	2.0	7.810	xxxxxxx	6.14	?	0.985	191.0
15	02/28/2013 04:58:25 PM	?	8.94	?	297.0	55.8	18.0	430.4	7.434	xxxxxxx	6.39	?	?	?	2.29	290.2	17.0	37.5	0.9	7.263	xxxxxxx	6.24	?	0.985	191.0
16	02/28/2013 04:58:35 PM	?	8.88	?	298.1	71.1	17.6	406.8	7.329	xxxxxxx	6.44	?	?	?	2.28	291.3	26.4	43.0	1.0	7.162	xxxxxxx	6.29	?	0.986	191.0
17	02/28/2013 04:58:45 PM	?	8.72	?	299.3	78.7	17.5	400.1	7.324	xxxxxxx	6.48	?	?	?	2.26	292.6	31.0	45.9	1.0	7.158	xxxxxxx	6.33	?	0.986	190.9
18	02/28/2013 04:58:55 PM	?	8.64	?	298.9	71.6	17.7	410.2	7.032	xxxxxxx	6.44	?	?	?	2.26	292.1	26.3	43.7	1.1	6.874	xxxxxxx	6.30	?	0.985	191.0
19	02/28/2013 04:59:05 PM	?	8.60	?	297.2	54.0	18.4	455.9	6.836	xxxxxxx	6.35	?	?	?	2.24	290.5	16.0	36.8	1.5	6.683	xxxxxxx	6.20	?	0.985	190.9
20	02/28/2013 04:59:15 PM	?	8.73	?	293.3	43.4	18.8	459.8	6.784	xxxxxxx	6.29	?	?	?	2.23	286.8	10.8	31.7	1.8	6.633	xxxxxxx	6.15	?	0.985	190.9
21	02/28/2013 04:59:25 PM	?	8.80	?	297.5	37.2	20.6	490.9	6.430	xxxxxxx	6.28	?	?	?	2.23	290.9	8.2	28.2	2.3	6.286	xxxxxxx	6.14	?	0.986	190.9
22	02/28/2013 04:59:35 PM	?	8.89	?	301.3	34.1	21.2	514.9	6.373	xxxxxxx	6.21	?	?	?	2.28	294.4	7.3	26.1	2.4	6.228	xxxxxxx	6.07	?	0.985	190.9
23	02/28/2013 04:59:45 PM	?	8.98	?	294.4	39.9	19.8	465.6	16.770	xxxxxxx	6.25	?	?	?	5.63	277.8	8.8	28.8	2.1	15.826	xxxxxxx	5.90	?	0.985	190.9
24	02/28/2013 04:59:55 PM	?	8.99	?	295.1	60.3	17.9	428.8	19.673	xxxxxxx	6.39	?	?	?	2.01	280.3	19.5	37.8	1.4	18.688	xxxxxxx	6.07	?	0.985	190.9
25	02/28/2013 05:00:05 PM	?	8.90	?	297.4	67.0	18.0	412.2	15.026	xxxxxxx	6.41	?	?	?	4.12	284.1	22.7	41.4	1.5	14.353	xxxxxxx	6.12	?	0.987	190.9
26	02/28/2013 05:00:15 PM	?	8.77	?	297.6	73.7	17.6	406.0	14.888	xxxxxxx	6.44	?	?	?	4.40	284.6	27.2	43.3	0.6	14.233	xxxxxxx	6.16	?	0.986	190.9
27	02/28/2013 05:00:26 PM	?	8.68	?	296.9	72.6	17.5	407.6	15.322	xxxxxxx	6.43	?	?	?	4.36	283.9	26.5	42.9	1.2	14.654	xxxxxxx	6.15	?	0.985	190.9
28	02/28/2013 05:00:36 PM	?	8.64	?	295.8	57.3	18.0	430.8	15.593	xxxxxxx	6.36	?	?	?	4.28	283.1	17.2	37.7	1.1	14.925	xxxxxxx	6.09	?	0.985	191.0
29	02/28/2013 05:00:46 PM	?	8.64	?	294.3	41.1	19.6	465.1	13.126	xxxxxxx	6.28	?	?	?	4.26	281.8	9.1	30.3	2.0	12.567	xxxxxxx	6.01	?	0.985	190.9
30	02/28/2013 05:00:56 PM	?	8.79	?	294.1	37.3	19.9	482.2	15.189	xxxxxxx	6.25	?	?	?	5.51	277.9	7.6	27.6	2.1	14.352	xxxxxxx	5.91	?	0.986	190.9
31	02/28/2013 05:01:06 PM	?	8.89	?	294.5	33.9	19.1	479.5	16.874	xxxxxxx	6.25	?	?	?	5.76	277.6	6.5	25.5	1.9	15.904	xxxxxxx	5.87	?	0.985	190.9
32	02/28/2013 05:01:16 PM	?	8.94	?	298.5	34.3	21.0	501.1	16.764	xxxxxxx	6.21	?	?	?	5.20	281.5	6.6	25.7	2.4	15.808	xxxxxxx	5.85	?	0.986	190.9
33	02/28/2013 05:01:26 PM	?	8.94	?	294.5	35.9	19.4	481.0	17.214	xxxxxxx	6.24	?	?	?	4.85	277.6	7.4	26.5	1.9	16.223	xxxxxxx	5.88	?	0.986	190.9
34	02/28/2013 05:01:36 PM	?	8.94	?	293.6	54.8	18.5	426.0	18.272	xxxxxxx	6.35	?	?	?	5.83	276.4	16.3	35.3	1.8	17.206	xxxxxxx	5.98	?	0.986	190.9
35	02/28/2013 05:01:46 PM	?	8.83	?	299.5	78.6	17.7	397.5	18.841	xxxxxxx	6.46	?	?	?	5.88	281.9	30.1	46.8	1.3	17.733	xxxxxxx	6.08	?	0.985	191.0
36	02/28/2013 05:01:56 PM	?	8.64	?	302.2	83.8	17.7	399.2	18.655	xxxxxxx	6.45	?	?	?	5.95	284.2	33.4	45.5	1.0	17.546	xxxxxxx	6.07	?	0.986	190.9
37	02/28/2013 05:02:06 PM	?	8.58	?	297.0	65.9	17.7	415.9	19.188	xxxxxxx	6.41	?	?	?	6.10	278.9	21.5	40.3	1.2	18.018	xxxxxxx	6.02	?	0.986	190.9
38	02/28/2013 05:02:16 PM	?	8.64	?	294.9	49.4	19.5	445.3	22.664	xxxxxxx	6.30	?	?	?	6.95	274.4	12.7	33.2	2.1	21.089	xxxxxxx	5.86	?	0.985	190.9
39	02/28/2013 05:02:26 PM	?	8.79	?	294.0	42.6	19.2	459.9	27.864	xxxxxxx	6.27	?	?	?	7.56	271.8	9.7	29.7	2.7	25.779	xxxxxxx	5.79	?	0.986	190.9
40	02/28/2013 05:02:36 PM	?	8.79	?	292.7	43.5	19.4	447.6	28.441	xxxxxxx	6.29	?	?	?	7.14	271.8	9.9	30.5	2.1	26.409	xxxxxxx	5.84	?	0.985	190.9
41	02/28/2013 05:02:46 PM	?	8.83	?	293.5	47.5	19.6	444.7	22.516	xxxxxxx	6.28	?	?	?	6.44	274.0	12.0	32.4	2.2	21.022	xxxxxxx	5.87	?	0.986	190.9
42	02/28/2013 05:02:56 PM	?	8.84	?	296.6	63.9	18.0	427.8	21.318	xxxxxxx	6.39	?	?	?	6.54	277.2	20.7	39.0	1.4	19.923	xxxxxxx	5.97	?	0.985	190.9
43	02/28/2013 05:03:06 PM	?	8.93	?	296.3	69.1	17.7	409.8	23.661	xxxxxxx	6.43	?	?	?	6.51	277.0	23.6	40.9	1.4	20.451	xxxxxxx	6.01	?	0.984	190.9
44	02/28/2013 05:03:16 PM	?	8.69	?	295.9	65.4	17.8	413.7	24.529	xxxxxxx	6.40	?	?	?	6.44	276.8	21.2	40.0	1.5	22.950	xxxxxxx	5.99	?	0.986	190.9
45	02/28/2013 05:03:26 PM	?	8.64	?	295.1	53.4	18.2	435.5	25.338	xxxxxxx	6.35	?	?	?	6.20	276.8	14.5	35.6	1.6	23.767	xxxxxxx	5.95	?	0.985	190.9
46	02/28/2013 05:03:36 PM	?	8.68	?	295.8	46.4	19.0	455.4	23.724	xxxxxxx	6.30	?	?	?	5.77	278.7	11.3	32.4	1.9	22.356	xxxxxxx	5.94	?	0.986	190.9
47	02/28/2013 05:03:46 PM	?	8.78	?	296.2	40.5	18.1	482.3	20.160	xxxxxxx	6.29	?	?	?	5.76	279.2	8.8	29.7	2.8	19.046	xxxxxxx	5.92	?	0.986	190.9
48	02/28/2013 05:03:56 PM	?	8.84	?	296.4	38.0	20.6	488.6	19.063	xxxxxxx	6.24	?	?	?	5.48	280.2	7.5	28.4	2.3	18.018	xxxxxxx	5.90	?	0.986	190.9
49	02/28/2013 05:04:06 PM	?	8.99	?	295.2	35.8	20.9	494.4	18.595	xxxxxxx	6.22	?	?	?	5.47	279.1	7.0	26.9	2.4	17.578	xxxxxxx	5.88	?	0.986	190.9

63	02/28/2013	05:06:27 PM	?	8.69	?	294.9	45.0	18.9	453.9	20.382	xxxxxxx	6.29	?	?	?	5.91	277.5	10.8	31.6	1.9	19.178	xxxxxxx	5.91	?	0.985	190.9
64	02/28/2013	05:06:37 PM	?	8.79	?	292.2	39.6	18.7	464.4	18.307	xxxxxxx	6.25	?	?	?	5.84	275.1	8.5	28.7	1.9	17.238	xxxxxxx	5.88	?	0.986	190.9
65	02/28/2013	05:06:47 PM	?	8.88	?	291.8	39.9	20.5	457.6	17.934	xxxxxxx	6.27	?	?	?	5.88	274.6	8.6	28.9	2.4	16.879	xxxxxxx	5.90	?	0.985	191.0
66	02/28/2013	05:06:57 PM	?	8.90	?	292.7	50.3	19.4	433.6	18.368	xxxxxxx	6.32	?	?	?	5.95	275.3	13.3	34.0	2.2	17.276	xxxxxxx	5.95	?	0.985	190.9
67	02/28/2013	05:07:07 PM	?	8.83	?	291.7	61.9	17.5	394.0	26.375	xxxxxxx	6.45	?	?	?	7.09	278.0	32.2	43.8	1.2	24.504	xxxxxxx	5.99	?	0.985	190.9
68	02/28/2013	05:07:17 PM	?	8.95	?	295.1	69.6	17.7	406.3	23.535	xxxxxxx	6.40	?	?	?	6.38	276.3	24.5	40.7	1.3	22.034	xxxxxxx	6.00	?	0.986	190.9
69	02/28/2013	05:07:27 PM	?	8.59	?	294.5	58.6	17.8	422.4	21.596	xxxxxxx	6.37	?	?	?	6.13	276.4	17.6	37.5	1.3	20.272	xxxxxxx	5.98	?	0.985	190.9
70	02/28/2013	05:07:37 PM	?	8.63	?	297.3	68.3	17.7	411.9	22.685	xxxxxxx	6.41	?	?	?	6.01	279.4	23.5	40.7	0.8	21.321	xxxxxxx	6.02	?	0.985	190.9
71	02/28/2013	05:07:47 PM	?	8.69	?	294.6	65.3	18.9	414.5	25.361	xxxxxxx	6.36	?	?	?	7.61	272.2	21.6	38.8	2.0	23.432	xxxxxxx	5.88	?	0.985	190.9
72	02/28/2013	05:07:57 PM	?	8.69	?	294.5	64.6	18.8	410.9	45.041	xxxxxxx	6.35	?	?	?	13.91	253.5	19.3	36.3	2.0	38.776	xxxxxxx	5.47	?	0.985	190.9
73	02/28/2013	05:08:07 PM	?	8.69	?	292.0	57.6	18.1	422.0	48.615	xxxxxxx	6.28	?	?	?	15.11	247.9	16.1	32.8	1.7	41.268	xxxxxxx	5.33	?	0.986	190.9
74	02/28/2013	05:08:17 PM	?	8.67	?	295.6	58.2	19.9	449.0	54.593	xxxxxxx	6.29	?	?	?	15.04	251.2	16.5	32.9	2.2	46.384	xxxxxxx	5.35	?	0.984	190.9
75	02/28/2013	05:08:27 PM	?	8.74	?	294.8	45.7	20.1	450.3	40.332	xxxxxxx	6.25	?	?	?	13.70	254.4	10.2	29.2	2.2	34.808	xxxxxxx	5.39	?	0.986	190.9
76	02/28/2013	05:08:37 PM	?	8.78	?	291.5	39.6	19.9	467.6	41.764	xxxxxxx	6.22	?	?	?	13.96	250.8	7.6	26.4	2.2	35.935	xxxxxxx	5.35	?	0.985	190.9
77	02/28/2013	05:08:47 PM	?	8.89	?	291.9	36.2	19.8	472.7	43.276	xxxxxxx	6.21	?	?	?	13.80	251.6	6.3	24.8	2.1	37.306	xxxxxxx	5.36	?	0.985	190.9
78	02/28/2013	05:08:57 PM	?	8.94	?	293.3	38.6	21.6	464.3	42.041	xxxxxxx	6.18	?	?	?	13.16	254.7	8.0	25.5	2.9	36.510	xxxxxxx	5.37	?	0.986	190.9
79	02/28/2013	05:09:07 PM	?	8.91	?	294.5	53.1	19.5	433.2	44.315	xxxxxxx	6.29	?	?	?	12.68	257.1	14.8	31.6	2.1	38.697	xxxxxxx	5.49	?	0.986	190.9
80	02/28/2013	05:09:17 PM	?	8.82	?	298.4	75.7	18.0	399.6	43.836	xxxxxxx	6.40	?	?	?	11.82	263.1	26.7	40.1	1.8	38.657	xxxxxxx	5.65	?	0.985	190.9
81	02/28/2013	05:09:27 PM	?	8.62	?	296.1	72.2	19.3	402.3	51.128	xxxxxxx	6.37	?	?	?	13.04	257.5	24.4	38.4	2.2	44.460	xxxxxxx	5.54	?	0.985	190.9
82	02/28/2013	05:09:37 PM	?	8.64	?	295.8	58.3	19.1	423.7	64.091	xxxxxxx	6.30	?	?	?	14.86	251.9	16.3	33.3	2.0	54.569	xxxxxxx	5.36	?	0.985	190.9
83	02/28/2013	05:09:47 PM	?	8.64	?	293.9	49.0	20.1	441.4	47.697	xxxxxxx	6.25	?	?	?	12.52	257.1	12.3	30.4	2.3	41.727	xxxxxxx	5.47	?	0.985	190.9
84	02/28/2013	05:09:57 PM	?	8.67	?	294.0	45.3	20.0	458.1	44.664	xxxxxxx	6.27	?	?	?	11.75	259.5	10.3	29.7	2.2	39.426	xxxxxxx	5.54	?	0.984	190.9
85	02/28/2013	05:10:07 PM	?	8.80	?	295.4	44.2	20.7	457.7	43.716	xxxxxxx	6.26	?	?	?	11.21	262.2	9.7	29.6	2.4	38.813	xxxxxxx	5.56	?	0.985	190.9
86	02/28/2013	05:10:17 PM	?	8.83	?	290.7	52.8	17.9	423.0	42.054	xxxxxxx	6.30	?	?	?	10.81	259.2	13.7	33.4	1.5	37.506	xxxxxxx	5.62	?	0.986	190.9
87	02/28/2013	05:10:27 PM	?	8.78	?	298.2	66.0	17.8	414.4	43.734	xxxxxxx	6.26	?	?	?	10.70	266.3	20.8	38.1	2.0	39.054	xxxxxxx	5.70	?	0.985	190.9
88	02/28/2013	05:10:37 PM	?	8.74	?	295.6	65.5	19.1	411.1	47.711	xxxxxxx	6.37	?	?	?	10.51	264.5	21.0	37.7	2.1	42.698	xxxxxxx	5.70	?	0.987	191.0
89	02/28/2013	05:10:47 PM	?	8.99	?	295.8	66.8	17.9	409.6	49.758	xxxxxxx	6.38	?	?	?	9.59	267.5	21.7	38.7	1.7	44.988	xxxxxxx	5.77	?	0.985	190.9
90	02/28/2013	05:10:57 PM	?	8.64	?	294.6	54.2	18.4	431.4	35.283	xxxxxxx	6.33	?	?	?	8.48	269.6	14.8	34.8	1.8	32.290	xxxxxxx	5.79	?	0.985	190.9
91	02/28/2013	05:11:07 PM	?	8.83	?	296.7	40.8	19.8	420.3	40.815	xxxxxxx	6.33	?	?	?	9.83	264.8	6.3	24.4	2.0	43.933	xxxxxxx	5.72	?	0.985	190.9
92	02/28/2013	05:11:18 PM	?	8.83	?	293.2	33.0	21.8	474.9	38.683	xxxxxxx	6.17	?	?	?	12.24	257.3	5.8	23.2	2.9	33.947	xxxxxxx	5.49	?	0.986	190.9
93	02/28/2013	05:11:28 PM	?	8.94	?	291.4	37.5	20.8	462.3	46.539	xxxxxxx	6.18	?	?	?	12.91	253.8	7.6	25.1	2.5	40.531	xxxxxxx	5.38	?	0.986	190.9
94	02/28/2013	05:11:38 PM	?	8.91	?	297.8	70.8	20.2	406.6	53.759	xxxxxxx	6.36	?	?	?	12.13	261.7	23.8	38.5	2.5	47.236	xxxxxxx	5.58	?	0.986	190.9
95	02/28/2013	05:11:48 PM	?	8.99	?	296.7	75.9	20.2	399.2	47.795	xxxxxxx	6.16	?	?	?	11.30	266.2	10.2	29.9	2.0	41.304	xxxxxxx	5.49	?	0.985	190.9
96	02/28/2013	05:11:58 PM	?	8.69	?	294.1	63.0	18.2	415.8	50.411	xxxxxxx	6.35	?	?	?	10.67	262.7	19.2	37.0	1.8	45.030	xxxxxxx	5.67	?	0.986	190.9
97	02/28/2013	05:12:08 PM	?	8.64	?	293.6	45.3	20.6	454.6	45.233	xxxxxxx	6.25	?	?	?	10.29	263.4	10.6	30.0	2.4	40.580	xxxxxxx	5.60	?	0.986	190.9
98	02/28/2013	05:12:18 PM	?	8.70	?	294.2	36.3	21.7	480.7	42.106	xxxxxxx	6.26	?	?	?	9.99	264.8	6.9	25.7	2.9	37.898	xxxxxxx	5.58	?	0.985	190.9
99	02/28/2013	05:12:28 PM	?	8.95	?	293.3	34.0	21.3	483.0	40.042	xxxxxxx	6.16	?	?	?	9.83	266.3	6.3	24.4	2.9	36.105	xxxxxxx	5.56	?	0.986	190.9
100	02/28/2013	05:12:38 PM	?	8.95	?	297.1	31.4	21.7	491.2	40.289	xxxxxxx	6.20	?	?	?	9.74	268.2	5.5	22.8	2.7	36.365	xxxxxxx	5.56	?	0.985	190.9
101	02/28/2013	05:12:48 PM	?	8.99	?	296.9	30.9	22.3	499.5	40.380	xxxxxxx	6.15	?	?	?	9.83	267.8	5.4	22.4	3.0	36.411	xxxxxxx	5.54	?	0.985	190.9
102	02/28/2013	05:12:58 PM	?	9.05	?	296.3	40.0	21.3	463.7	44.186	xxxxxxx	6.21	?	?	?	10.49	265.2	8.9	26.9	2.6	39.552	xxxxxxx	5.56	?	0.985	190.9
103	02/28/2013	05:13:08 PM	?	8.83	?	297.4	19.8	21.6	413.4	48.907	xxxxxxx	6.42	?	?	?	10.70	266.3	10.2	37.0	2.0	37.054	xxxxxxx	5.37	?	0.985	190.9
104	02/28/2013	05:13:18 PM	?	8.83	?	299.2	78.0	17.6	395.4	50.536	xxxxxxx	6.42	?	?	?	10.38	268.1	28.5	41.4	1.4	45.290	xxxxxxx	5.75	?	0.985	190.9
105	02/28/2013	05:13:28 PM	?	8.67	?	298.6	82.4	17.7	392.7	50.589	xxxxxxx	6.42	?	?	?	10.27	268.0	31.5	42.4	1.6	45.396	xxxxxxx	5.76	?	0.985	190.9
106	02/28/2013	05:13:38 PM	?	8.60	?	298.5	78.6	19.6	400.5	50.840	xxxxxxx	6.41	?	?	?	10.24	268.0	29.2	41.4	2.3	45.632	xxxxxxx	5.75	?	0.985	190.9
107	02/28/2013	05:13:48 PM	?	8.59	?	298.5	78.9	19.3	399.5	57.115	xxxxxxx	6.40	?	?	?	11.19	265.1	28.7	41.3	2.0	50.722	xxxxxxx	5.69	?	0.985	190.9
108	02/28/2013	05:13:58 PM	?	8.60	?	294.7	69.6	18.6	405.8	65.637	xxxxxxx	6.36	?	?	?	12.16	258.8	23.2	38.0	2.0	57.657	xxxxxxx	5.59	?	0.985	190.9
109	02/28/2013	05:14:08 PM	?	8.63	?	295.3	54.0	19.4	437.5	58.925	xxxxxxx	6.30	?	?	?	11.61	261.1	14.5	33.2	2.1	52.086	xxxxxxx	5.57	?	0.986	190.9
110	02/28/2013	05:14:18 PM	?	8.74	?	295.1	47.2	21.0	451.2	46.503	xxxxxxx	6.27	?	?	?	11.25	261.9	11.1	30.7	2.6	41.272	xxxxxxx	5.56	?	0.985	190.9
111	02/28/2013	05:14:28 PM	?	8.83	?	296.4	44.8	20.3	460.2	44.860	xxxxxxx	6.28	?	?	?	11.06	264.7	10.2	29.9	2.0	39.164	xxxxxxx	5.56	?	0.985	190.9
112	02/28/2013	05:14:38 PM	?	8.84	?	295.1	47.5	20.6	447.4	45.712	xxxxxxx	6.28	?	?	?	11.73	260.5	11.2	30.7	2.4	40.351	xxxxxxx	5.54	?	0.985	190.9
113	02/28/2013	05:14:48 PM	?	8.83	?	295.2	57.6	20.2	422.0	50.344	xxxxxxx	6.32	?	?	?	11.34	261.8	16.4	34.7	2.3	44.637	xxxxxxx	5.60	?	0.985	190.9
114	02/28/2013	05:14:58 PM	?	8.83	?	297.4	65.4	20.8	420.7	50.728	xxxxxxx	6.35	?	?	?	10.48	266.2	21.1	37.5	2.6	45.413	xxxxxxx	5.68	?	0.985	

163	02/28/2013	05:23:10 PM	?	8.62	?	296.1	77.4	17.4	396.6	28.207	xxxxxxx	6.47	?	?	?	6.98	275.4	28.8	43.2	1.0	26.238	xxxxxxx	6.01	?	0.985	190.9
164	02/28/2013	05:23:20 PM	?	8.58	?	295.8	66.2	17.7	412.7	23.016	xxxxxxx	6.29	?	?	?	6.82	275.7	22.0	39.7	1.4	21.446	xxxxxxx	5.96	?	0.985	190.9
165	02/28/2013	05:23:30 PM	?	8.64	?	294.9	47.5	18.2	445.5	25.054	xxxxxxx	6.39	?	?	?	6.73	275.0	11.7	32.6	1.6	23.367	xxxxxxx	5.87	?	0.985	190.9
166	02/28/2013	05:23:40 PM	?	8.73	?	293.0	50.7	18.9	437.1	25.691	xxxxxxx	6.30	?	?	?	6.59	273.7	13.3	34.1	1.9	23.999	xxxxxxx	5.89	?	0.985	190.9
167	02/28/2013	05:23:50 PM	?	8.78	?	292.0	65.5	17.8	410.6	23.643	xxxxxxx	6.40	?	?	?	6.42	275.7	21.5	39.8	1.6	22.125	xxxxxxx	5.99	?	0.985	190.9
168	02/28/2013	05:24:00 PM	?	8.79	?	295.9	76.9	17.4	436.2	22.908	xxxxxxx	6.45	?	?	?	6.39	277.0	28.4	43.6	1.4	21.443	xxxxxxx	6.04	?	0.985	190.9
169	02/28/2013	05:24:10 PM	?	8.68	?	297.4	78.8	17.4	399.7	22.857	xxxxxxx	6.45	?	?	?	6.35	278.5	29.8	44.0	1.2	21.406	xxxxxxx	6.04	?	0.986	190.9
170	02/28/2013	05:24:20 PM	?	8.63	?	297.0	75.9	17.5	400.9	22.508	xxxxxxx	6.43	?	?	?	6.32	278.2	27.8	43.2	1.5	21.083	xxxxxxx	6.02	?	0.986	190.9
171	02/28/2013	05:24:30 PM	?	8.58	?	296.2	68.9	17.5	410.6	23.432	xxxxxxx	6.39	?	?	?	6.42	277.2	23.4	41.0	0.9	21.927	xxxxxxx	5.98	?	0.986	190.9
172	02/28/2013	05:24:40 PM	?	8.64	?	294.2	52.9	18.2	436.4	24.838	xxxxxxx	6.32	?	?	?	6.40	275.4	14.2	35.3	1.5	23.250	xxxxxxx	5.92	?	0.986	190.9
173	02/28/2013	05:24:50 PM	?	8.69	?	293.8	41.3	19.3	461.4	24.281	xxxxxxx	6.26	?	?	?	6.27	275.4	9.0	29.8	2.0	22.758	xxxxxxx	5.87	?	0.986	190.9
174	02/28/2013	05:25:00 PM	?	8.83	?	298.0	35.2	21.0	487.1	20.340	xxxxxxx	6.22	?	?	?	6.19	279.5	6.8	26.2	2.4	19.070	xxxxxxx	5.84	?	0.985	190.9
175	02/28/2013	05:25:10 PM	?	8.94	?	297.3	35.7	21.2	495.0	19.801	xxxxxxx	6.22	?	?	?	6.18	278.9	6.8	26.7	2.5	18.578	xxxxxxx	5.84	?	0.985	190.9
176	02/28/2013	05:25:20 PM	?	8.98	?	291.8	39.3	19.5	455.1	19.492	xxxxxxx	6.26	?	?	?	6.25	273.6	8.1	28.7	2.1	18.275	xxxxxxx	5.87	?	0.985	190.9
177	02/28/2013	05:25:30 PM	?	8.94	?	294.2	59.8	18.0	416.1	24.021	xxxxxxx	6.36	?	?	?	7.40	272.5	18.4	37.0	1.6	22.243	xxxxxxx	5.89	?	0.986	190.9
178	02/28/2013	05:25:41 PM	?	8.79	?	296.9	74.1	17.7	401.1	34.948	xxxxxxx	6.42	?	?	?	8.80	270.8	25.9	41.6	1.4	31.874	xxxxxxx	5.86	?	0.985	190.9
179	02/28/2013	05:25:51 PM	?	8.67	?	296.6	63.8	18.7	419.1	30.151	xxxxxxx	6.37	?	?	?	7.36	274.7	20.3	38.7	2.0	27.940	xxxxxxx	5.90	?	0.985	190.9
180	02/28/2013	05:26:01 PM	?	8.64	?	296.9	48.7	20.0	448.8	27.470	xxxxxxx	6.31	?	?	?	7.06	275.9	12.6	32.7	2.2	25.531	xxxxxxx	5.86	?	0.986	190.9
181	02/28/2013	05:26:11 PM	?	8.69	?	294.5	46.4	20.8	448.9	23.465	xxxxxxx	6.32	?	?	?	6.88	274.2	11.3	32.0	2.6	21.850	xxxxxxx	5.88	?	0.985	190.9
182	02/28/2013	05:26:21 PM	?	8.79	?	295.6	61.3	18.4	424.4	23.549	xxxxxxx	6.38	?	?	?	6.92	275.2	18.9	38.2	1.8	21.918	xxxxxxx	5.94	?	0.985	190.9
183	02/28/2013	05:26:31 PM	?	8.79	?	296.5	70.0	17.8	412.9	23.862	xxxxxxx	6.39	?	?	?	6.96	275.9	24.2	40.9	1.4	22.202	xxxxxxx	5.94	?	0.986	190.9
184	02/28/2013	05:26:41 PM	?	8.79	?	298.6	79.9	17.8	398.5	23.708	xxxxxxx	6.43	?	?	?	6.97	277.8	30.6	43.7	1.6	22.054	xxxxxxx	5.98	?	0.986	191.0
185	02/28/2013	05:26:52 PM	?	8.69	?	297.2	73.0	17.7	405.5	22.421	xxxxxxx	6.42	?	?	?	6.96	276.6	26.1	41.8	1.4	20.860	xxxxxxx	5.98	?	0.985	190.9
186	02/28/2013	05:27:02 PM	?	8.64	?	294.3	52.6	18.5	435.7	22.758	xxxxxxx	6.32	?	?	?	7.07	273.5	14.3	34.6	1.8	21.149	xxxxxxx	5.87	?	0.986	190.9
187	02/28/2013	05:27:12 PM	?	8.69	?	293.8	40.4	16.5	465.0	24.679	xxxxxxx	6.24	?	?	?	7.16	272.7	8.9	29.7	2.0	22.911	xxxxxxx	5.87	?	0.986	190.9
188	02/28/2013	05:27:22 PM	?	8.84	?	295.9	38.6	21.2	481.5	29.230	xxxxxxx	6.23	?	?	?	7.09	274.9	8.1	27.7	2.5	27.158	xxxxxxx	5.78	?	0.985	190.9
189	02/28/2013	05:27:32 PM	?	8.94	?	292.7	43.8	19.7	453.7	28.609	xxxxxxx	6.29	?	?	?	6.52	273.6	10.2	30.7	2.1	26.742	xxxxxxx	5.88	?	0.986	190.9
190	02/28/2013	05:27:42 PM	?	8.89	?	293.5	55.5	17.9	426.6	21.219	xxxxxxx	6.37	?	?	?	6.15	275.4	15.8	36.3	1.4	19.914	xxxxxxx	5.98	?	0.985	190.9
191	02/28/2013	05:27:52 PM	?	8.79	?	294.4	68.3	17.8	404.4	20.481	xxxxxxx	6.37	?	?	?	6.18	274.1	12.1	36.8	1.4	22.486	xxxxxxx	5.92	?	0.986	190.9
192	02/28/2013	05:28:02 PM	?	8.73	?	294.6	56.2	18.3	432.3	20.303	xxxxxxx	6.37	?	?	?	6.07	276.8	15.9	36.9	1.7	18.863	xxxxxxx	5.98	?	0.986	190.9
193	02/28/2013	05:28:12 PM	?	8.72	?	296.5	45.0	20.4	461.1	19.596	xxxxxxx	6.32	?	?	?	6.06	278.5	10.6	31.7	2.3	18.408	xxxxxxx	5.93	?	0.985	190.9
194	02/28/2013	05:28:22 PM	?	8.83	?	297.4	34.4	20.4	484.7	20.776	xxxxxxx	6.22	?	?	?	6.35	278.5	6.6	25.6	2.1	19.457	xxxxxxx	5.83	?	0.985	190.9
195	02/28/2013	05:28:32 PM	?	8.99	?	296.6	59.0	18.4	429.2	23.174	xxxxxxx	6.37	?	?	?	6.22	276.2	13.5	32.6	1.4	22.408	xxxxxxx	5.92	?	0.985	190.9
196	02/28/2013	05:28:42 PM	?	8.99	?	294.3	37.1	21.7	474.5	26.182	xxxxxxx	6.22	?	?	?	6.87	274.0	7.5	27.1	2.8	24.382	xxxxxxx	5.80	?	0.986	190.9
197	02/28/2013	05:28:52 PM	?	8.98	?	295.5	52.2	18.8	434.0	28.848	xxxxxxx	6.34	?	?	?	7.30	273.9	14.4	34.1	1.8	26.742	xxxxxxx	5.87	?	0.985	191.0
198	02/28/2013	05:29:02 PM	?	8.95	?	297.3	70.5	17.7	401.5	37.247	xxxxxxx	6.49	?	?	?	10.31	266.6	23.8	39.4	1.2	33.407	xxxxxxx	5.73	?	0.986	190.9
199	02/28/2013	05:29:12 PM	?	8.79	?	299.6	78.8	17.8	396.6	36.008	xxxxxxx	6.32	?	?	?	10.00	269.5	24.8	42.0	1.8	39.963	xxxxxxx	5.80	?	0.985	190.9
200	02/28/2013	05:29:22 PM	?	8.65	?	299.1	83.6	17.8	406.0	36.112	xxxxxxx	6.32	?	?	?	9.89	269.5	32.2	43.1	1.5	32.542	xxxxxxx	5.78	?	0.985	190.9
201	02/28/2013	05:29:32 PM	?	8.58	?	296.7	75.1	18.2	405.4	36.684	xxxxxxx	6.38	?	?	?	10.07	266.8	26.9	40.6	1.8	32.991	xxxxxxx	5.74	?	0.986	190.9
202	02/28/2013	05:29:42 PM	?	8.59	?	292.9	58.1	19.9	424.8	35.869	xxxxxxx	6.33	?	?	?	9.91	263.9	17.0	35.4	2.3	32.315	xxxxxxx	5.71	?	0.986	190.9
203	02/28/2013	05:29:52 PM	?	8.68	?	292.4	40.4	19.3	436.5	37.062	xxxxxxx	6.30	?	?	?	9.44	267.7	13.5	31.6	1.9	33.563	xxxxxxx	5.74	?	0.985	190.9
204	02/28/2013	05:30:03 PM	?	8.74	?	294.6	41.4	20.3	462.9	33.896	xxxxxxx	6.25	?	?	?	8.81	268.6	8.6	29.2	2.2	30.910	xxxxxxx	5.70	?	0.986	190.9
205	02/28/2013	05:30:13 PM	?	8.84	?	297.2	48.5	18.6	447.7	35.407	xxxxxxx	6.30	?	?	?	8.61	271.6	11.8	32.5	1.6	32.358	xxxxxxx	5.76	?	0.985	190.9
206	02/28/2013	05:30:23 PM	?	8.83	?	296.3	70.8	18.3	407.5	29.769	xxxxxxx	6.40	?	?	?	9.39	268.5	23.8	40.3	1.8	26.973	xxxxxxx	5.80	?	0.986	190.9
207	02/28/2013	05:30:33 PM	?	8.69	?	291.9	60.3	18.5	417.6	32.219	xxxxxxx	6.34	?	?	?	10.14	262.2	17.9	36.8	1.9	28.951	xxxxxxx	5.70	?	0.986	190.9
208	02/28/2013	05:30:43 PM	?	8.79	?	295.5	57.2	19.2	423.7	34.002	xxxxxxx	6.33	?	?	?	9.82	266.4	15.8	35.8	2.0	30.664	xxxxxxx	5.71	?	0.986	190.9
209	02/28/2013	05:30:53 PM	?	8.68	?	294.3	52.0	18.8	435.1	38.847	xxxxxxx	6.31	?	?	?	9.42	266.6	13.1	34.0	1.8	35.186	xxxxxxx	5.72	?	0.985	190.9
210	02/28/2013	05:31:03 PM	?	8.75	?	294.4	44.0	19.9	464.3	35.872	xxxxxxx	6.26	?	?	?	8.56	269.3	9.5	29.7	2.1	32.803	xxxxxxx	5.72	?	0.986	190.9
211	02/28/2013	05:31:13 PM	?	8.69	?	296.6	45.1	19.4	436.5	37.062	xxxxxxx	6.30	?	?	?	8.74	272.8	11.6	29.7	1.8	32.897	xxxxxxx	5.74	?	0.985	190.9
212	02/28/2013	05:31:23 PM	?	8.89	?	293.5	42.3	21.4	475.0	33.168	xxxxxxx	6.26	?	?	?	8.13	269.7	8.8	30.1	2.6	30.470	xxxxxxx	5.75	?	0.986	190.9
213	02/28/2013	05:31:33 PM	?	8.89	?	294.6	48.8	18.4	442.1	34.272	xxxxxxx	6.30	?	?	?	8.04	270.9	11.9	33.1	1.5	31.516	xxxxxxx	5.79	?	0.986	190.9
214	02/28/2013	05:31:43 PM	?	8.89	?	293.8	59.9	18.1	417.9	34.224	xxxxxxx	6.37	?	?	?	7.70	271.2	18.1	37.1	1.6	31.589	xxxxxxx	5.88	?		

263	02/28/2013	05:39:55 PM	?	8.73	?	282.7	34.2	32.2	482.6	159.368	xxxxxxx	4.80	?	?	?	38.13	174.9	21.1	0.0	4.8	98.599	xxxxxxx	2.97	?	0.985	190.8
264	02/28/2013	05:40:05 PM	?	8.80	?	282.9	23.1	29.0	477.4	149.393	xxxxxxx	5.22	?	?	?	34.45	185.5	15.4	-0.3	4.1	97.930	xxxxxxx	3.42	?	0.986	190.8
265	02/28/2013	05:40:15 PM	?	8.93	?	286.6	26.6	27.3	476.3	130.261	xxxxxxx	5.53	?	?	?	31.17	197.3	12.5	5.8	3.8	89.660	xxxxxxx	3.82	?	0.986	190.9
266	02/28/2013	05:40:25 PM	?	8.95	?	287.5	31.8	25.0	465.1	114.793	xxxxxxx	5.79	?	?	?	28.40	205.8	10.7	12.1	3.4	82.189	xxxxxxx	4.14	?	0.984	190.8
267	02/28/2013	05:40:35 PM	?	8.94	?	287.0	40.5	22.0	441.3	104.645	xxxxxxx	5.95	?	?	?	26.11	212.7	12.2	8.8	2.8	77.318	xxxxxxx	4.40	?	0.986	190.8
268	02/28/2013	05:40:45 PM	?	8.95	?	296.3	65.9	20.5	408.4	93.570	xxxxxxx	6.19	?	?	?	23.71	226.1	22.3	28.0	2.4	71.388	xxxxxxx	4.72	?	0.986	190.8
269	02/28/2013	05:40:55 PM	?	8.78	?	296.6	70.4	20.2	402.1	81.562	xxxxxxx	6.31	?	?	?	20.93	234.5	23.3	32.3	2.3	64.493	xxxxxxx	4.99	?	0.986	190.8
270	02/28/2013	05:41:05 PM	?	8.69	?	295.0	65.9	19.8	410.7	67.764	xxxxxxx	6.31	?	?	?	18.08	241.7	21.1	32.9	2.3	55.513	xxxxxxx	5.17	?	0.986	190.9
271	02/28/2013	05:41:15 PM	?	8.64	?	295.5	48.2	18.9	445.3	48.541	xxxxxxx	6.22	?	?	?	15.33	250.2	12.4	28.4	1.8	41.099	xxxxxxx	5.27	?	0.986	190.8
272	02/28/2013	05:41:25 PM	?	8.72	?	294.4	40.9	21.2	462.6	43.261	xxxxxxx	6.23	?	?	?	13.45	254.8	8.8	26.6	2.5	37.440	xxxxxxx	5.39	?	0.985	190.8
273	02/28/2013	05:41:35 PM	?	8.84	?	293.8	33.7	21.9	486.6	36.512	xxxxxxx	6.19	?	?	?	11.48	260.0	6.6	23.3	3.0	32.319	xxxxxxx	5.48	?	0.985	190.9
274	02/28/2013	05:41:45 PM	?	8.94	?	296.8	33.6	21.6	487.2	31.286	xxxxxxx	6.17	?	?	?	10.17	266.6	6.9	23.2	2.6	28.104	xxxxxxx	5.54	?	0.986	190.9
275	02/28/2013	05:41:55 PM	?	8.98	?	298.0	32.5	22.6	493.0	27.668	xxxxxxx	6.18	?	?	?	9.40	270.0	6.3	23.2	3.3	25.066	xxxxxxx	5.60	?	0.985	190.9
276	02/28/2013	05:42:05 PM	?	8.99	?	296.0	56.1	20.4	489.4	25.457	xxxxxxx	6.35	?	?	?	8.46	270.9	16.8	34.6	2.3	23.304	xxxxxxx	5.81	?	0.985	190.8
277	02/28/2013	05:42:15 PM	?	8.99	?	299.1	75.4	18.0	400.3	24.269	xxxxxxx	6.45	?	?	?	7.88	275.5	28.4	41.0	1.6	22.356	xxxxxxx	5.94	?	0.985	190.9
278	02/28/2013	05:42:25 PM	?	8.83	?	297.5	74.8	17.8	398.0	23.203	xxxxxxx	6.44	?	?	?	7.48	275.2	27.9	41.3	1.4	21.467	xxxxxxx	5.96	?	0.986	190.9
279	02/28/2013	05:42:35 PM	?	8.65	?	297.4	63.8	19.0	420.5	22.771	xxxxxxx	6.39	?	?	?	7.15	276.2	21.0	38.3	2.0	21.143	xxxxxxx	5.93	?	0.985	190.9
280	02/28/2013	05:42:45 PM	?	8.64	?	296.3	53.3	20.3	448.8	22.129	xxxxxxx	6.33	?	?	?	6.88	276.0	15.2	34.4	2.3	20.607	xxxxxxx	5.90	?	0.985	190.9
281	02/28/2013	05:42:55 PM	?	8.69	?	295.8	45.3	21.4	460.5	20.191	xxxxxxx	6.28	?	?	?	6.55	276.5	11.1	31.2	2.8	18.870	xxxxxxx	5.87	?	0.986	190.9
282	02/28/2013	05:43:06 PM	?	8.78	?	295.5	37.6	20.3	471.3	19.499	xxxxxxx	6.24	?	?	?	6.37	276.7	8.0	27.3	2.2	18.257	xxxxxxx	5.84	?	0.986	190.9
283	02/28/2013	05:43:16 PM	?	8.89	?	295.1	57.8	21.1	469.4	18.678	xxxxxxx	6.26	?	?	?	6.26	276.7	2.1	27.4	2.6	17.509	xxxxxxx	5.87	?	0.985	190.9
284	02/28/2013	05:43:26 PM	?	8.93	?	296.6	50.4	19.3	437.1	18.618	xxxxxxx	6.34	?	?	?	6.19	278.3	13.9	33.4	2.0	17.466	xxxxxxx	5.95	?	0.985	190.9
285	02/28/2013	05:43:36 PM	?	8.89	?	294.3	62.3	17.9	413.5	20.535	xxxxxxx	6.39	?	?	?	6.81	274.3	20.0	38.0	1.6	19.137	xxxxxxx	5.96	?	0.986	190.9
286	02/28/2013	05:43:46 PM	?	8.80	?	298.3	75.4	18.0	402.5	20.998	xxxxxxx	6.43	?	?	?	6.88	277.7	28.1	42.1	1.7	19.553	xxxxxxx	5.99	?	0.986	190.9
287	02/28/2013	05:43:56 PM	?	8.69	?	292.8	69.8	18.0	417.8	20.368	xxxxxxx	6.27	?	?	?	7.04	272.1	18.5	5.0	1.7	18.131	xxxxxxx	5.96	?	0.986	190.9
288	02/28/2013	05:44:06 PM	?	8.69	?	296.3	53.9	19.6	436.7	21.479	xxxxxxx	6.31	?	?	?	7.47	274.2	15.1	34.7	2.1	19.874	xxxxxxx	5.84	?	0.985	190.9
289	02/28/2013	05:44:16 PM	?	8.72	?	295.9	45.0	20.1	458.2	22.633	xxxxxxx	6.27	?	?	?	7.61	273.4	10.9	30.7	2.2	20.911	xxxxxxx	5.79	?	0.986	190.9
290	02/28/2013	05:44:26 PM	?	8.83	?	294.6	38.1	19.3	465.7	26.661	xxxxxxx	6.26	?	?	?	7.68	272.0	7.9	27.2	2.0	24.613	xxxxxxx	5.78	?	0.986	190.9
291	02/28/2013	05:44:36 PM	?	8.89	?	296.8	65.3	18.3	466.7	26.665	xxxxxxx	6.26	?	?	?	7.40	272.0	20.7	27.2	2.0	20.986	xxxxxxx	5.76	?	0.986	190.9
292	02/28/2013	05:44:46 PM	?	8.89	?	296.3	63.8	17.8	414.7	21.788	xxxxxxx	6.41	?	?	?	6.02	277.2	20.7	39.0	1.2	20.378	xxxxxxx	5.99	?	0.985	190.9
293	02/28/2013	05:44:56 PM	?	8.83	?	298.7	71.7	17.8	408.7	20.088	xxxxxxx	6.42	?	?	?	6.31	279.8	25.6	41.6	1.0	18.820	xxxxxxx	6.01	?	0.987	190.9
294	02/28/2013	05:45:06 PM	?	8.73	?	295.6	54.1	18.3	443.9	19.964	xxxxxxx	6.35	?	?	?	6.25	277.1	15.1	35.6	1.5	18.715	xxxxxxx	5.95	?	0.987	190.9
295	02/28/2013	05:45:16 PM	?	8.73	?	294.6	66.8	18.0	418.3	20.699	xxxxxxx	6.26	?	?	?	6.23	276.0	8.5	41.2	1.0	18.232	xxxxxxx	6.01	?	0.986	190.9
296	02/28/2013	05:45:26 PM	?	8.77	?	297.7	39.4	20.9	483.6	21.731	xxxxxxx	6.26	?	?	?	6.18	279.3	8.2	28.7	2.4	20.387	xxxxxxx	5.87	?	0.985	190.9
297	02/28/2013	05:45:36 PM	?	8.90	?	295.1	39.8	21.2	469.9	19.427	xxxxxxx	6.27	?	?	?	5.98	277.5	8.6	28.9	2.7	18.265	xxxxxxx	5.89	?	0.985	190.9
298	02/28/2013	05:45:46 PM	?	8.90	?	295.5	53.4	19.2	436.7	17.715	xxxxxxx	6.33	?	?	?	5.88	278.1	14.9	35.3	2.0	16.673	xxxxxxx	5.96	?	0.986	190.9
299	02/28/2013	05:45:56 PM	?	8.84	?	296.1	66.8	18.0	411.9	17.354	xxxxxxx	6.34	?	?	?	6.11	286.4	22.5	40.4	1.1	16.336	xxxxxxx	6.01	?	0.986	190.9
300	02/28/2013	05:46:06 PM	?	8.73	?	297.4	76.5	18.1	430.9	17.329	xxxxxxx	6.44	?	?	?	5.87	279.9	28.6	43.3	1.8	16.311	xxxxxxx	6.06	?	0.986	191.0
301	02/28/2013	05:46:16 PM	?	8.64	?	294.7	72.1	17.5	402.8	17.590	xxxxxxx	6.22	?	?	?	5.85	277.5	25.6	42.2	1.2	16.560	xxxxxxx	6.05	?	0.986	190.9
302	02/28/2013	05:46:26 PM	?	8.64	?	294.7	55.2	18.1	435.2	17.462	xxxxxxx	6.34	?	?	?	5.86	277.4	15.9	36.1	1.5	16.439	xxxxxxx	5.97	?	0.986	190.9
303	02/28/2013	05:46:36 PM	?	8.72	?	294.9	40.0	20.6	466.7	17.449	xxxxxxx	6.24	?	?	?	5.95	278.5	5.9	25.5	2.0	16.439	xxxxxxx	5.97	?	0.987	190.9
304	02/28/2013	05:46:46 PM	?	8.85	?	298.0	35.5	21.7	496.3	18.230	xxxxxxx	6.20	?	?	?	6.55	278.5	6.9	26.3	2.9	17.036	xxxxxxx	5.79	?	0.986	190.9
305	02/28/2013	05:46:56 PM	?	8.94	?	296.5	29.5	22.5	524.0	21.505	xxxxxxx	6.16	?	?	?	7.43	274.5	5.3	22.0	3.5	19.907	xxxxxxx	5.70	?	0.986	190.9
306	02/28/2013	05:47:07 PM	?	9.05	?	296.1	30.1	23.2	531.7	37.578	xxxxxxx	6.13	?	?	?	10.49	265.0	5.4	21.6	3.9	33.635	xxxxxxx	5.48	?	0.985	190.9
307	02/28/2013	05:47:17 PM	?	9.05	?	294.1	41.2	21.2	467.4	39.314	xxxxxxx	6.39	?	?	?	10.02	264.7	9.6	27.5	3.9	35.374	xxxxxxx	5.89	?	0.986	190.9
308	02/28/2013	05:47:27 PM	?	8.98	?	296.7	69.0	17.8	405.0	34.995	xxxxxxx	6.19	?	?	?	9.24	269.3	23.7	39.0	1.6	31.763	xxxxxxx	5.80	?	0.986	190.9
309	02/28/2013	05:47:37 PM	?	8.89	?	297.8	80.2	17.5	394.3	36.921	xxxxxxx	6.42	?	?	?	8.94	271.1	30.4	42.6	1.6	33.619	xxxxxxx	5.85	?	0.986	190.9
310	02/28/2013	05:47:47 PM	?	8.69	?	296.2	84.9	18.2	389.8	36.078	xxxxxxx	6.44	?	?	?	8.46	271.1	34.1	43.7	1.9	33.026	xxxxxxx	5.90	?	0.985	190.9
311	02/28/2013	05:47:57 PM	?	8.59	?	293.6	80.0	17.3	340.5	34.203	xxxxxxx	6.13	?	?	?	8.16	271.5	21.5	36.1	2.5	31.413	xxxxxxx	5.85	?	0.986	190.9
312	02/28/2013	05:48:07 PM	?	8.54	?	292.5	63.8	18.0	417.5	32.673	xxxxxxx	6.35	?	?	?	7.81	269.7	21.2	37.7	2.5	30.121	xxxxxxx	5.86	?	0.986	190.9
313	02/28/2013	05:48:17 PM	?	8.59	?	293.7	56.8	19.1	432.8	29.168	xxxxxxx	6.31	?	?	?	7.48	271.7	17.1	35.5	2.1	26.985	xxxxxxx	5.84	?	0.986	190.9
314	02/28/2013	05:48:27 PM	?	8.69	?	292.9	48.1	20.6	449.2	26.006	xxxxxxx	6.28	?	?	?	7.31	271.5	12.7	31.9	2.5	24.105	xxxxxxx	5.82</			



Miscellaneous: 10  
 LoggingInterval (seconds), 60  
 TestRunInterval (minutes), 2/28/2013 5:56:09 PM, J15sLkL44B/h1a57k9xv+ehJX7uhZzPo1704MvzR1He=  
 DateTimeCompleted,

\*\*\*\*\*Bias Check 4\*\*\*\*\*  
 TestCfgFilePathNameExt, "C:\EmTestData\Speed Of Air Test\_2\_Unitc-35\_2013-02-28\EmTest.xls"

Record ID	Date/Time	Pre O2 Dry (%)	Post O2 Dry (%)	Pre CO Dry (ppm)	Post CO Dry (ppm)	NOx Dry (ppm)	VOC Dry as Prop (ppm)	THC Dry as Prop (ppm)	HCHO Dry (ppm)	NH3 Dry (ppm)	CO2 Dry (%)	Ambient Pressure (InHg)	Ambient Temp (degF)	Relative Humidity (%)	H2O% (%)	CO Wet (ppm)	NO Wet (ppm)	NO2 Wet (ppm)	Propane wet (ppm)	HCHO wet (ppm)	NH3 wet (ppm)	CO2 Wet (%)	22 (none)	Gas Pres (atm)	Gas Temp (degC)
0	02/28/2013 05:56:19 PM	?	8.69	?	297.1	76.8	17.4	396.1	35.148	0.2	6.44	?	?	?	8.98	270.4	28.2	41.7	1.3	31.991	0.2	5.86	?	0.986	190.9
1	02/28/2013 05:56:29 PM	?	8.61	?	297.0	65.4	18.2	416.3	36.264	0.3	6.28	?	?	?	9.20	269.7	21.4	38.0	1.7	32.927	0.3	5.79	?	0.986	190.9
2	02/28/2013 05:56:39 PM	?	8.64	?	298.5	52.4	19.3	455.5	39.626	0.3	6.28	?	?	?	9.34	270.6	14.1	33.4	2.0	35.926	0.2	5.70	?	0.986	191.0
3	02/28/2013 05:56:49 PM	?	8.73	?	297.3	43.1	19.5	460.8	42.168	0.3	6.23	?	?	?	9.07	270.4	9.8	29.4	2.0	38.343	0.2	5.67	?	0.986	190.9
4	02/28/2013 05:56:59 PM	?	8.79	?	216.2	27.4	16.9	227.8	201.497	0.1	3.09	?	?	?	19.45	174.2	5.3	16.8	-0.4	162.307	0.1	2.49	?	0.983	190.9
5	02/28/2013 05:57:09 PM	?	6.36	?	23.5	16.7	12.1	47.7	505.671	-1.1	-0.93	?	?	?	42.06	13.6	23.1	-13.4	2.9	292.963	-0.7	-0.54	?	0.984	190.9
6	02/28/2013 05:57:19 PM	?	2.85	?	-0.9	29.1	21.4	44.5	391.166	-1.3	-1.58	?	?	?	44.41	-0.5	28.9	-12.8	3.7	217.445	-0.7	-0.88	?	0.986	190.9
7	02/28/2013 05:57:29 PM	?	1.06	?	3.2	-1.8	1.9	7.0	115.493	0.1	-0.31	?	?	?	30.93	2.2	7.8	-9.1	1.3	79.775	0.1	-0.21	?	0.986	190.9
8	02/28/2013 05:57:39 PM	?	0.43	?	3.6	-1.5	0.0	2.0	85.452	0.2	-0.10	?	?	?	26.30	2.7	3.3	-4.4	1.2	62.976	0.2	-0.07	?	0.987	190.9
9	02/28/2013 05:57:49 PM	?	0.21	?	3.6	-0.1	0.0	0.1	74.208	0.3	-0.01	?	?	?	23.32	2.8	1.3	-1.4	0.6	56.899	0.2	-0.01	?	0.985	190.9
10	02/28/2013 05:57:59 PM	?	0.16	?	3.9	-0.5	0.0	0.0	70.812	0.4	-0.05	?	?	?	20.89	3.1	-0.2	-0.2	0.5	56.020	0.3	0.04	?	0.986	190.9
11	02/28/2013 05:58:09 PM	?	0.12	?	3.6	-0.2	0.0	0.0	66.168	0.3	0.03	?	?	?	18.51	3.0	-0.1	-0.1	0.0	53.923	0.3	0.02	?	0.987	190.9
12	02/28/2013 05:58:19 PM	?	0.12	?	3.7	-0.1	0.0	0.0	65.012	0.4	0.06	?	?	?	16.37	3.1	-0.8	0.7	-0.1	54.373	0.3	0.05	?	0.986	190.9
13	02/28/2013 05:58:29 PM	?	0.12	?	4.0	-0.1	0.0	0.8	51.243	0.3	0.06	?	?	?	13.85	3.5	-0.6	0.6	-0.1	44.147	0.2	0.05	?	0.987	190.9
14	02/28/2013 05:58:39 PM	?	0.11	?	1.2	0.3	0.0	0.0	22.313	0.2	0.04	?	?	?	10.99	1.1	-0.5	0.8	-0.4	19.861	0.2	0.03	?	0.987	190.9
15	02/28/2013 05:58:49 PM	?	0.83	?	0.3	0.2	0.0	0.0	17.352	0.2	0.02	?	?	?	8.43	0.3	-0.7	0.9	-0.3	15.890	0.2	0.02	?	0.986	190.9
16	02/28/2013 05:58:59 PM	?	3.48	?	0.1	0.1	0.0	0.0	15.074	0.1	0.01	?	?	?	6.56	0.1	-0.3	0.5	-0.8	14.085	0.1	0.01	?	0.988	190.9
17	02/28/2013 05:59:09 PM	?	5.02	?	0.1	0.2	0.0	0.0	12.296	0.1	0.02	?	?	?	5.53	0.1	-0.4	0.6	-0.6	11.617	0.1	0.02	?	0.987	190.9
18	02/28/2013 05:59:19 PM	?	5.62	?	0.1	0.0	0.0	0.0	10.669	0.1	0.01	?	?	?	4.86	0.1	-0.6	0.7	-1.1	10.150	0.1	0.01	?	0.988	190.9
19	02/28/2013 05:59:29 PM	?	5.83	?	0.1	0.4	0.0	0.0	10.172	0.1	0.01	?	?	?	4.26	0.1	-0.4	0.8	-1.4	9.739	0.1	0.01	?	0.987	190.9
20	02/28/2013 05:59:39 PM	?	5.87	?	0.1	0.0	0.0	0.0	8.839	0.1	0.03	?	?	?	3.33	0.1	0.0	0.0	-0.6	8.545	0.1	0.03	?	0.987	190.9
21	02/28/2013 05:59:50 PM	?	5.93	?	0.0	0.1	0.0	0.1	6.632	0.0	0.02	?	?	?	2.90	0.0	0.0	0.1	-0.7	6.439	0.0	0.02	?	0.987	190.9
22	02/28/2013 06:00:00 PM	?	5.92	?	-0.1	0.1	0.0	0.0	5.996	0.0	0.02	?	?	?	2.65	-0.1	0.1	0.1	-0.7	5.837	0.0	0.02	?	0.988	190.9
23	02/28/2013 06:00:10 PM	?	5.97	?	0.1	0.1	0.0	0.0	5.642	0.1	0.00	?	?	?	2.31	0.1	-0.1	0.2	-0.8	5.532	0.1	0.00	?	0.987	190.9
24	02/28/2013 06:00:20 PM	?	5.97	?	0.2	0.0	0.0	0.0	3.924	0.1	0.01	?	?	?	1.91	0.2	-0.1	0.2	-1.6	3.849	0.1	0.01	?	0.987	190.9

Miscellaneous: 10  
 LoggingInterval (seconds), 30  
 StabilizeInterval (seconds), 5.0  
 BiasCheckTolerance (%), 3.0  
 DriftCheckTolerance (%), 2/28/2013 6:00:24 PM, IOS20XwFgchqdtF0G3zu1sRpbLpQvyyqfFJRgATXQuDI=  
 DateTimeCompleted,

Summary:

calibration gas	cal gas concentration	accepted measured concentration	date/time of accepted measured concentration	cylinder serial number	cylinder expiration date
Low Post O2	0.00 %	0.12 %	02/28/2013 05:58:11 PM	zero-cylinder	01-01-2099
Mid Post O2	6.00 %	5.99 %	02/28/2013 06:00:22 PM	CC141150	09-18-2015

