



REPORT ON ETHYLENE OXIDE TESTING

Catalytic Recuperative Thermal Oxidizer
– (CRTO) Stack

Sterilization Chamber Vent (SCV) and
Aeration Room Vent (ARV) Exhaust

Steri-Tech, Inc.
Salinas Industrial Park
Car. 701 KM.0.7 Lot No 7
Client Reference No. 22-13267

CleanAir Project No. 14799-2
A2LA ISO 17025 Certificate No. 4342.01
A2LA / STAC Certificate No. 4342.02
Revision 0, Final Report
April 1, 2024

REPORT REVISION HISTORY

Version	Revision	Date	Pages	Comments
Final	0	04/01/24	All	Final version of original document.

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ACRONYMS & ABBREVIATIONS

AAS (atomic absorption spectrometry)
 acfm (actual cubic feet per minute)
 ACI (activated carbon injection)
 ADL (above detection limit)
 AIG (ammonia injection grid)
 APC (air pollution control)
 AQCS (air quality control system(s))
 ASME (American Society of Mechanical Engineers)
 ASTM (American Society for Testing and Materials)
 BDL (below detection limit)
 Btu (British thermal units)
 CAM (compliance assurance monitoring)
 CARB (California Air Resources Board)
 CCM (Controlled Condensation Method)
 CE (capture efficiency)
 °C (degrees Celsius)
 CEMS (continuous emissions monitoring system(s))
 CFB (circulating fluidized bed)
 CFR (Code of Federal Regulations)
 cm (centimeter(s))
 COMS (continuous opacity monitoring system(s))
 CT (combustion turbine)
 CTI (Cooling Technology Institute)
 CTM (Conditional Test Method)
 CVAAS (cold vapor atomic absorption spectroscopy)
 CVAFS (cold vapor atomic fluorescence spectrometry)
 DI H₂O (de-ionized water)
 %dv (percent, dry volume)
 DLL (detection level limited)
 DE (destruction efficiency)
 DCI (dry carbon injection)
 DGM (dry gas meter)
 dscf (dry standard cubic feet)
 dscfm (dry standard cubic feet per minute)
 dscm (dry standard cubic meter)
 ESP (electrostatic precipitator)
 FAMS (flue gas adsorbent mercury speciation)
 °F (degrees Fahrenheit)
 FB (field blank)
 FCC (fluidized catalytic cracking)
 FCCU (fluidized catalytic cracking unit)
 FEGT (furnace exit gas temperatures)
 FF (fabric filter)
 FGD (flue gas desulfurization)
 FIA (flame ionization analyzer)
 FID (flame ionization detector)
 FPD (flame photometric detection)
 FRB (field reagent blank)
 FSTM (flue gas sorbent total mercury)
 ft (feet or foot)

ft² (square feet)
 ft³ (cubic feet)
 ft/sec (feet per second)
 FTIR (Fourier Transform Infrared Spectroscopy)
 FTRB (field train reagent blank)
 g (gram(s))
 GC (gas chromatography)
 GFAAS (graphite furnace atomic absorption spectroscopy)
 GFC (gas filter correlation)
 gr/dscf (grains per dry standard cubic feet)
 > (greater than)/ ≥ (greater than or equal to)
 g/s (grams per second)
 H₂O (water)
 HAP(s) (hazardous air pollutant(s))
 HI (heat input)
 hr (hour(s))
 HR GC/MS (high-resolution gas chromatography and mass spectrometry)
 HRVOC (highly reactive volatile organic compounds)
 HSRG(s) (heat recovery steam generator(s))
 HVT (high velocity thermocouple)
 IC (ion chromatography)
 IC/PCR (ion chromatography with post column reactor)
 ICP/MS (inductively coupled argon plasma mass spectroscopy)
 ID (induced draft)
 in. (inch(es))
 in. H₂O (inches water)
 in. Hg (inches mercury)
 IPA (isopropyl alcohol)
 ISE (ion-specific electrode)
 kg (kilogram(s))
 kg/hr (kilogram(s) per hour)
 < (less than)/ ≤ (less than or equal to)
 L (liter(s))
 lb (pound(s))
 lb/hr (pound per hour)
 lb/MMBtu (pound per million British thermal units)
 lb/TBtu (pound per trillion British thermal units)
 lb/lb-mole (pound per pound mole)
 LR GC/MS (low-resolution gas chromatography and mass spectrometry)
 m (meter)
 m³ (cubic meter)
 MACT (maximum achievable control technology)
 MASS® (Multi-Point Automated Sampling System)
 MATS (Mercury and Air Toxics Standards)
 MDL (method detection limit)
 µg (microgram(s))
 min. (minute(s))
 mg (milligram(s))

ml (milliliter(s))
 MMBtu (million British thermal units)
 MW (megawatt(s))
 NCASI (National Council for Air and Stream Improvement)
 ND (non-detect)
 NDIR (non-dispersive infrared)
 NDO (natural draft opening)
 NESHAP (National Emission Standards for Hazardous Air Pollutants)
 ng (nanogram(s))
 Nm³ (Normal cubic meter)
 % (percent)
 PEMS (predictive emissions monitoring systems)
 PFGC (pneumatic focusing gas chromatography)
 pg (picogram(s))
 PJFF (pulse jet fabric filter)
 ppb (parts per billion)
 PPE (personal protective equipment)
 ppm (parts per million)
 ppm_{dv} (parts per million, dry volume)
 ppm_{wv} (parts per million, wet volume)
 PSD (particle size distribution)
 psi (pound(s) per square inch)
 PTE (permanent total enclosure)
 PTFE (polytetrafluoroethylene)
 QA/QC (quality assurance/quality control)
 QI (qualified individual)
 QSTI (qualified source testing individual)
 QSTO (qualified source testing observer)
 RA (relative accuracy)
 RATA (relative accuracy test audit)
 RB (reagent blank)
 RE (removal or reduction efficiency)
 RM (reference method)
 scf (standard cubic feet)
 scfm (standard cubic feet per minute)
 SCR (selective catalytic reduction)
 SDA (spray dryer absorber)
 SNCR (selective non-catalytic reduction)
 STD (standard)
 STMS (sorbent trap monitoring system)
 TBtu (trillion British thermal units)
 TEOM (Tapered Element Oscillating Microbalance)
 TEQ (toxic equivalency quotient)
 ton/hr (ton per hour)
 ton/yr (ton per year)
 TSS (third stage separator)
 USEPA or EPA (United States Environmental Protection Agency)
 UVA (ultraviolet absorption)
 WFGD (wet flue gas desulfurization)
 %wv (percent, wet volume)

1. PROJECT OVERVIEW

TEST PROGRAM SUMMARY

Steri-Tech, Inc. (STI) contracted CleanAir Engineering (CleanAir) to complete testing on the Ethylene Oxide (EtO) control system at the facility, located in Salinas, Puerto Rico. The facility uses a Golf Coast Environmental Systems (GCES) catalytic recuperative thermal oxidizer (CRO) to control Sterilization Chamber Vent (SCV) and Aeration Room Vent (ARV) ethylene oxide emissions.

The main objective of this test program was to determine compliance as required by the United States Environmental Protection Agency (USEPA) 40 CFR 63 Subpart O "Ethylene Oxide Emissions Standards for Sterilization Facilities".

A summary of the test program limits is presented below. Section 2 Results provides a more detailed account of the test conditions and data analysis.

**Table 1-1:
Summary of Results**

Source	Constituent	Sampling Method	Average Emission	Permit Standard ¹
Catalytic Recuperative Thermal Oxidizer (CRO)				
	EtO Removal Efficiency (%) ² - SCV & ARV Exhaust	EPA 320, EPA 1-4	93.57	99.9

¹ Permit standards applicable to 40 CFR 63.362.

² Removal efficiency mass emission-based calculated from 40 CFR 63.365(d)

TEST PROGRAM DETAILS

PARAMETERS

The test program included the following measurements:

- EtO in parts per million (ppm) and parts per billion (ppb)
- EtO in pounds per hour (lb/hr)
- EtO removal efficiency (RE%), determined using 40 CFR 63.365(d)
- process gas composition (e.g., O₂, CO₂, H₂O) in volume-based percentage (%v)
- process gas temperature in degrees Fahrenheit (°F)
- process gas flow rate in dry standard cubic feet per minute (dscfm)
- process gas flow rate in actual cubic feet per minute (acfm)

SCHEDULE

Testing was performed during two separate mobilizations. The sterilization chamber (SCV) was tested on January 11-12, 2024. Table 1-2 outlines the on-site schedule followed during the test program.

Table 1-2:
Test Schedule

Run Number	Location	Method	Analyte	Date	Start Time	End Time
1	CRTO Stack	USEPA Method 2, 3A, 320	O ₂ , CO ₂ , Δp, EtO, H ₂ O	01/11/24	09:25	15:48
2	CRTO Stack	USEPA Method 2, 3A, 320	O ₂ , CO ₂ , Δp, EtO, H ₂ O	01/11/24	17:29	22:51
3	CRTO Stack	USEPA Method 2, 3A, 320	O ₂ , CO ₂ , Δp, EtO, H ₂ O	01/12/24	09:09	15:05

DISCUSSION

Project Synopsis

CleanAir arrived onsite the week of November 6th, 2023, to perform the test program. After some preliminary diagnostic readings, it was discovered that the Cavity Ring-Down Spectroscopy (Picarro) analyzer would not be able to correctly measure the EtO concentration being emitted from the CRTO Stack because the concentration was greater than the instrument's range (>100ppm). It was decided that an FTIR using Method 320 was going to be needed to collect the data for the SCV & ARV exhaust test portion of the test program. Testing was rescheduled for the SCV & ARV exhaust test based on CleanAir availability. This test was performed on January 11 & 12, 2024.

Test Scenario (Worst-Case Operational)

Worst-Case Test Scenario was based on the following:

Sterilization Chamber Vents (SCV):

The test included three sample runs (3 sets of paired chambers). Each Cycle was approximately 5 to 7 hours in duration. Two chambers, Chamber #1 and Chamber #2 running Cycle 102 with approximately 60lbs of EtO for each one, were advanced to gas dwell phase and held until the cycle was aborted to start the first evacuation simultaneously. Both chambers were empty of product and charged with normal loading humidification and EtO. Under normal operating scenarios Steri-Tech exercises caution scheduling cycle operations so that no two chambers are permitted to advance to first evacuation simultaneously. Further definition of "exercising caution" means to strictly adhere to the SOP which instructs operators to wait at least 30 minutes to start a cycle when another cycle is running.

Chambers	Approximate Mass EtO to be used
1	60 lbs
2	60 lbs

Worst-case chambers information:

Equipment Number	Chamber #1 and Chamber #2
Physical Dimensions	1.37 m Wide 2.01 m High 10.90 m Long
Usable Dimensions	1.22 m Wide 1.96 m High 10.85 m Long
Physical Volume	30.6 m ³
Usable Volume	25.8 m ³
Capacity	10 pallets

Determination of Ethylene Oxide Emissions

EtO concentrations were determined in accordance with procedures outlined in Method 320 Measurement of Vapor Phase Organic and Inorganic Emissions by Extractive Fourier Transform Infrared (FTIR) for the SCV & ARV Exhaust test on January 11-12, 2024.

The CRTO stack was measured by a typical MKS MultiGas 2030 Fourier transform infrared (FTIR) spectrometer for the SCV & ARV Exhaust test. Steri-Tech provided CleanAir with the total amount of EtO used at the CRTO inlet location for the SCV & ARV Exhaust Test Condition. CleanAir then used this data to calculate the removal efficiency across the CRTO using 40 CFR 63.365(d). Three (3) sample runs (3 sets of paired chambers) were performed. Each cycle was approximately 5 to 7 hours in duration.

EtO concentrations were measured on a wet volumetric basis. EtO concentrations measured in conjunction with effluent gas volumetric flow, were utilized to convert wet volumetric concentrations to mass emission rates in lb/hr & lb.

Determination of Volumetric Flow

EPA Methods 1, 2, 3A, and 4 were conducted, in conjunction with Method 320, to determine volumetric flow rate that was utilized to convert the concentrations of EtO to mass emission rates in lb/hr.

During the SCV & ARV testing the sample point was placed near the center of the duct because of the sterilization cycle dependency and the temporal variability of the chamber vent process are not conducive for conducting a traditional EPA Method 2 traverse and Method 7E stratification check. Also, since the EtO being vented out the stack was above the permissible exposure limit (PEL) for EtO, this created a safety issue with working near the stack opening, so probe was placed into the port prior to the chambers being vented to the CRTO.

Concentrations of oxygen (O₂) and carbon dioxide (CO₂) were determined in accordance with procedures outlined in EPA Method 3A. O₂ and CO₂ concentrations were utilized to determine molecular weight of the effluent gas and were determined concurrently with EPA Method 320 sampling utilizing the same sample train. CRTO Stack O₂/CO₂ concentrations were measured by a Servomex analyzer on a dry basis.

Moisture content (%H₂O) was determined in accordance with EPA Method 4, Section 16.3, with reference to EPA Method 320. Moisture content was determined by the FTIR and utilized to convert wet-based concentrations to dry-based concentrations, and to determine molecular weight of the effluent gas.

Determination of Final %RE Results

EtO results are reported in units of lb/hr. Mass emission rates in units of lb/hr were determined from EtO concentrations and volumetric flow rates. Results for each location are an average of three (3) valid test runs.

Removal efficiency (RE%) was determined using 40 CFR 63.365(d). Final removal efficiencies are an average of three (3) valid test runs.

Sample calculations for concentrations, volumetric flow rates, and emission rates are presented in Appendix B of this test report.

End of Section

2. RESULTS

This section summarizes the test program results. Additional results are available in the report appendices.

Table 2-1:
SCV & ARV Exhaust Results: Method 320

Run No.	1	2	3	Average
Date (2024)	Jan 11	Jan 11	Jan 12	
Start Time (approx.)	09:25	17:29	09:09	
Stop Time (approx.)	15:48	22:51	15:05	
Process Conditions				
P ₁ Chamber #1 Inlet EtO Mass (lb)	60	60	60	60
P ₂ Chamber #2 Inlet EtO Mass (lb)	60	60	60	60
P ₃ Total CRTO Inlet (lb)	120	120	120	120
P ₄ Total CRTO Inlet (lb/hr)	18.8	22.4	20.2	20.5
CRTO Stack				
Gas Conditions				
O ₂ Oxygen (dry volume %)	20.28	20.05	20.07	20.13
CO ₂ Carbon Dioxide (dry volume %)	0.66	0.71	0.67	0.68
T _s Sample Temperature (°F)	328.0	326.6	326.9	327.2
B _w Actual water vapor in gas (% by volume)	3.51	3.33	3.66	3.50
Gas Flow Rate				
Q _a Volumetric flow rate, actual (acfm)	7,371	7,455	7,394	7,407
Q _s Volumetric flow rate, standard (scfm)	4,947	5,012	4,969	4,976
Q _{std} Volumetric flow rate, dry standard (dscfm)	4,773	4,845	4,787	4,802
V Volume of Gas Exiting CRTO Stack (dscf)	1,828,116	1,560,214	1,704,331	1,697,554
EtO Results				
C _{sw} Concentration (ppbwv)	36,024	43,831	35,793	38,549
C _{sw} Concentration (ppmwv)	36.0	43.8	35.8	38.5
C _{sd} Concentration (ppmdv)	37.33	45.34	37.15	39.94
E _{lb/hr} Emission Rate (lb/hr)	1.22	1.51	1.22	1.32
C _{lb} Concentration (lb)	7.80	8.09	7.24	7.71
DRE Removal Efficiency (%) by 40 CFR 63.365(d)	93.50%	93.26%	93.97%	93.57%

Table 2-2:
CRTO Stack – Dynamic Spike: Method 320

Spike Date (2024)	Pre-Run 1 1/11	Pre-Run 3 1/12	Post-Run 3 1/12
Location	CRTO Stack	CRTO Stack	CRTO Stack
Spike Start Time	8:39:24	9:02:07	15:25:04
Spike Stop Time	8:44:57	9:05:17	15:29:49
QA Analyte	EtO	EtO	EtO
QA Cylinder Conc. (ppm)	100.5	100.5	100.5
Tracer	SF ₆	SF ₆	SF ₆
Tracer Cylinder Conc. (ppm)	5.02	5.02	5.02
QA Direct (ppm)	102.59	100.24	100.24
Tracer Direct (ppm)	5.02	5.03	5.03
QA Native Conc. (ppm)	0.253	0.46	-0.022
Tracer Native Conc. (ppm)	-0.004	-0.006	-0.004
QA Spike Conc. (ppm)	10.741	9.68	10.03
Tracer Spike Conc. (ppm)	0.49	0.473	0.515
Dilution Factor	0.099	0.095	0.103
Expected Spike Conc. (ppm)	10.40	9.97	10.33
Spike Bias (ppm)	0.339	-0.288	-0.302
Spike Recovery (%) (70-130%)	103.3%	97.1%	97.1%

End of Section

3. DESCRIPTION OF INSTALLATION

PROCESS DESCRIPTION

Steri-Tech is a commercial ethylene oxide sterilization facility providing sterilization of pharmaceutical products and medical devices. Product to be sterilized is processed in a pre-conditioning room with elevated temperature and humidity. Conditioned products are loaded into one of four chambers for exposure to EtO, nitrogen and humidity. Sterilization Chamber Vent (SCV) vacuum pumps remove sterilant gas from the chambers to a GCES catalytic recuperative thermal oxidizer abatement system for destruction of EtO. Product is then transferred to aeration rooms for final off-gassing.

Sterilization Equipment Description

Chamber No. 1 – 10 pallet 1080 ft³ Vacuudyne

Chamber No. 2 – 10 pallet 1080 ft³ Vacuudyne

Chamber No. 4 – 6 pallet 675 ft³ Vacuudyne

Chamber No. 5 – 16 pallet 1582 ft³ double stacked Beverly Pacific

Heated Aeration Rooms

Aeration Room 1 - 3,431 ft³ - 110-120 ° F

Aeration Room 2 - 10,800 ft³ - 110-130 ° F

Aeration Room 3 - 9,678 ft³ - 110-120 ° F

Aeration Room 4 - 10,224 ft³ - 110-120 ° F

Abatement System Description

Steri-Tech used a Gulf Coast Environmental Systems (GCES) catalytic recuperative thermal oxidizer (CRTO) to control Sterilization Chamber Vent (SCV) and Aeration Room Vent (ARV) emissions. The CRTO is a propane fired Catalytic Recuperative Thermal Oxidizer (CRTO).

Vacuum pumps transfer EtO laden SCV gases to the CRTO where it is thermally destroyed. According to GCES, the method of reduction of Volatile Organic Compounds (VOCs) in a Catalytic Oxidizer revolves around an accelerated thermal oxidation reaction. The chemical process of catalytic oxidation is quite simple. VOC laden process gas is heated to a VOC catalyst reaction temperature and then passed through a catalyst, where a rapid oxidation reaction takes place. This breaks the bonds that hold the VOC molecules together and converts them to combinations of carbon dioxide and water vapor, while also releasing heat.

To assist in raising the process stream temperature to the desired set point, a recuperative heat exchanger is incorporated into the system to recover the heat from the exiting hot, clean gas and apply it to pre-heat the incoming cold, dirty process stream. This is a simple and efficient way to help minimize the additional input energy needed.

For gas streams with low levels of oxygen present dilution with air may be required to ensure that enough oxygen is present for complete oxidation of the pollutants. Additionally, more air may be added during periods of high VOC heat release to protect from overheating of the internal system components.

Due to the possibility of occasional high VOC loading in this application steps need to be taken to assure safe and reliable operation in the max load cases while not compromising performance on basic routine operation. The first step is to dilute the incoming gas stream with enough air so that VOC concentrations are kept below 25% the lower flammability limit (LFL) to prevent the possibility of any potentially explosive conditions. The LFL was continuously monitored so that air can be added as needed as the VOC concentration begins to rise.

Additionally, there was a recuperative heat exchanger in use with a modulating bypass damper controlling the flow through the hot gas side. By limiting, or even completely shutting off flow through the heat exchanger, an effective system of variable heat recovery is established, allowing for high heat recovery during periods of low VOC heat release and reduced heat recovery during high load situations. This prevents overheating of the incoming air stream, a situation which could compound quickly as a now hotter gas stream has more heat added to it.

The manufacturer's minimum temperature in the inlet to catalyst bed is 350°F or 176°C. The GCES CRTO was operated continuously to control SCV and ARV emissions. For EtO-containing chamber evacuations the CRTO must be 100% ready with a minimum DRE of 99.9% w/w per 40 CFR 63.632.

Process air flow rate, scfm	10,000
Flow direction through catalyst bed	Vertical downward
Total catalyst volume, ft ³	60
Catalyst mass, lb	5,625
Maximum space velocity in catalyst bed, hr ⁻¹	10,000
Destruction efficiency for ethylene oxide after catalyst beds	99.9% +
Maximum outlet concentration of ethylene oxide after catalyst bed	20 ppm
Minimum temperature in the inlet to catalyst bed, °F	350
Estimated outlet temperature after catalyst bed at maximum inlet concentration of ethylene oxide, °F	1,100
Maximum temperature in catalyst bed, °F	
Continuous operations	1,400
Hourly long temperature excursions	1,650

Control Efficiency – 99.9 % removal efficiency

Compliance Parameter – Catalyst bed baseline temperature of 600°F (recommended manufacturer oxidation temperature) and STI was attempted to find the lowest oxidizing temperature that is still within the 99.9 % DRE prior to chamber evacuation was established as the setpoint with this test. Combustion chamber temperature is recorded continuously. It should be noted that when ethylene oxide gas is present, the temperature momentarily increases. However, the fresh air damper modulated the catalyst bed temperature to prevent overheating.

Design Load Criteria for the CRTO (maximum loading rate of EtO):

- 7,000 ppmv of Ethylene Oxide represents approximately 25% LEL. This is ultimately the maximum concentration that the unit is designed to process on a continuous basis, and therefore also the maximum concentration which can be accepted from the plant without the need for fresh air dilution.
- The CRTO can briefly tolerate higher concentrations, but if greater than 7,000 ppmv is sent from the process the fresh air damper will open to dilute until below 25% LEL.
- If greater than 50% LEL is ever detected, or if the catalyst exit temperature is too high due to excessive process heat release, this will trigger an alarm which automatically closes the process isolation damper and begins to cool down the unit.
- The fresh air damper is controlled by two control loops; average catalyst exit temperature and inlet LFL (Lower Flammability Limit). As the catalyst exit temperature increases, the fresh air damper will modulate open to dilute the incoming air stream. Likewise, if the inlet LFL level increases, the fresh air damper will modulate open to dilute the incoming air stream. Whichever control loop requires the most fresh air has control of the fresh air damper

The testing reported in this document was performed at the ARV Inlet & CRTO Stack. Figure 3-1 and 3-2 presents photos of the locations.

Figure 3-1:
CRTO Stack



TEST LOCATION

The sterilization cycle dependency and the temporal variability of the chamber vent process are not conducive for conducting a traditional EPA Method 7E stratification check and EPA Method 2 traverse. Single point sampling was performed for all testing locations. During the SCV & ARV Exhaust test the same temporal variability of the process resulted in the velocity/temperature traverse being performed at a single point. In addition to the process variability, the permissible exposure limit (PELs) at the CRTO Stack was elevated. For the safety of CleanAir personnel, the data collection was performed from a single point for the SCV & ARV Exhaust test.

When no EtO was being vented to the unit CleanAir performed a verification of absence of cyclonic flow check. This showed there was no cyclonic flow in the duct. Table 3-1 presents the sampling information for the test locations. The figures represent the layout of the test locations.

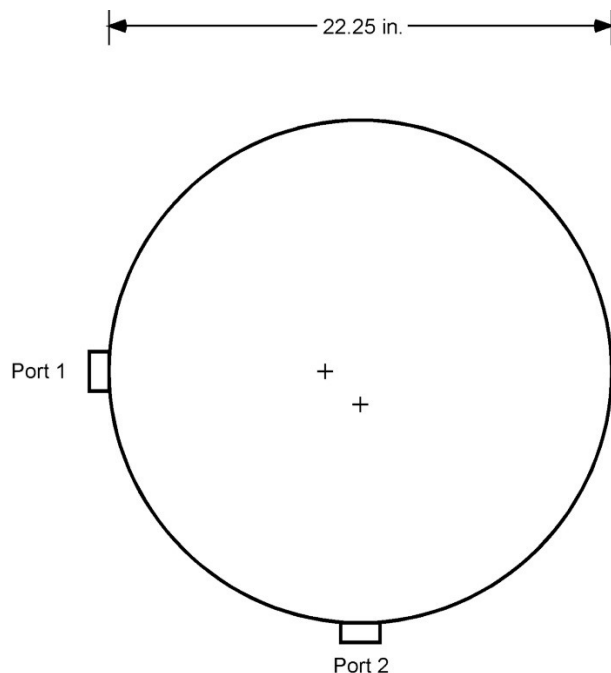
**Table 3-1:
Sampling Information**

Source		Run		Points per	Minutes per		
Constituent	Method (USEPA)	No.	Ports	Port	Point	Total Minutes	Figure
Test Condition: SCV & ARV Exhaust							
<u>CRTO Stack¹</u>							
EtO, O ₂ , CO ₂ , H ₂ O	3A, 320	3	1	1	383, 322, 356	383, 322, 356	3-2
Velocity & Temperature	2	3	1	1	383, 322, 356	383, 322, 356	3-2

¹ Single Point sample was performed at the CRTO Stack because EtO concentration was above the PELs limits & the temporal variability in the process.

² Manual velocity traverse was performed but single point was used for the results from the CRTO Stack and Inlet during the ARV Exhaust only test.

Figure 3-2:
CRTO Stack Sample Point Layout – SCV & ARV Exhaust



Sampling & Flow for the SCV & ARV Exhaust Condition was performed near the center of the duct. Single point sampling was used because of the variability in the process and EtO concentration being vented was above the permissible exposure limits (PELs)

Sampling Point	% of Stack Diameter	Port to Point Distance (inches)
1	50.0	11.125

Duct diameters upstream from flow disturbance (A): 4.36

Limit: 0.5

Duct diameters downstream from flow disturbance (B): 7.91

Limit: 2.0

End of Section

4. METHODOLOGY

PROCEDURES AND REGULATIONS

The test program sampling measurements followed procedures and regulations outlined by the USEPA and Puerto Rico Department of Environmental and Natural Resource. These methods appear in detail in Title 40 of the CFR and at <https://www.epa.gov/emc>.

Appendix A includes diagrams of the sampling apparatus, as well as specifications for sampling, recovery, and analytical procedures. Any modifications to standard test methods are explicitly indicated in this appendix. In accordance with ASTM D7036 requirements, CleanAir included a description of any such modifications along with the full context of the objectives and requirements of the test program in the test protocol submitted prior to the measurement portion of this project. Modifications to standard methods are not covered by the ISO 17025 and TNI portions of CleanAir's A2LA accreditation.

CleanAir follows specific QA/QC procedures outlined in the individual methods and in USEPA "Quality Assurance Handbook for Air Pollution Measurement Systems: Volume III Stationary Source-Specific Methods," EPA/600/R-94/038C. Appendix D contains additional QA/QC measures, as outlined in CleanAir's internal Quality Manual.

TITLE 40 CFR PART 60, APPENDIX A

Method 1	"Sample and Velocity Traverses for Stationary Sources"
Method 1A	"Sample and Velocity Traverses for Stationary Sources with Small Stacks or Ducts"
Method 2	"Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)"
Method 3	"Gas Analysis for the Determination of Dry Molecular Weight"
Method 3A	"Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)"
Method 4	"Determination of Moisture Content in Stack Gases"
Method 7E	"Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)"

TITLE 40 CFR PART 63, APPENDIX A

Method 320	"Measurement of Vapor Phase Organic and Inorganic Emissions by Extractive Fourier Transform Infrared (FTIR) Spectroscopy"
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AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS

ASTM D6348-12	"Standard Test Method for Determination of Gaseous Compounds by Extractive Direct Interface Fourier Transform Infrared (FTIR) Spectroscopy"
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METHODOLOGY DISCUSSION

EPA METHOD 320 / ASTM D6348-12 – ETO AND H₂O TESTING

EtO emissions and moisture content were determined using an FTIR per EPA Method 320. EtO testing adhered to specifications and procedures outlined in Method 320. Procedures outlined in ASTM D6348-12, regarding dynamic spikes and spectral validation, were also followed. Approximately one-minute data points for EtO (wet basis) and H₂O were collected and logged during each test run.

Sample Train

In accordance with the method, for each sample system, the effluent gas was continuously extracted through a heated stainless-steel probe, filter, and Teflon sample lines, and then directly interfaced with the instrumentation in a temperature-controlled setting. The sampling system was assembled, and leak-checked (<200 ml/min) and was allowed to reach and stabilize at the operating temperature of approximately 150°C. Sample gas was extracted at a constant rate and delivered hot and wet to the FTIR. Refer to Appendix A for further sample train specifications.

QA/QC

A calibration transfer standard (CTS) was used to demonstrate suitable agreement between sample spectra and reference spectra. CTS gas system checks were conducted prior to each test run. Following the test run, another CTS spectrum was recorded. The pre- and post-test CTS spectra were then compared to determine if peak absorbance pre- and post-test CTS met the required $\pm 5\%$ of the mean value validating the run. Results can be found in Appendix D.

During the mobilization, a dynamic spike was conducted per procedures outlined in Method 320 and ASTM D6348-12. A spike/tracer gas at a constant flow rate below 10% of the total sample flow was introduced into the sampled exhaust gas stream prior to the external filter. QA spike checks passed per the criteria in Method 320 specifications (70% to 130% expected value).

An on-site minimum detection limit (MDL) study was performed for the target analyte using procedures outlined in ASTM D6348-12, A2.3.1. The MDL, labeled MDC#2 by the method, is calculated as three times the standard deviation of the concentrations from eight representative blank spectra collected while sampling effluent gas with a similar gas matrix to the source to be tested. In this case, ambient air was sampled as blank spectra.

Spectral Analysis

Procedures outlined in ASTM D6348-12 Annex 8 were utilized to manually quantify and validate EtO concentrations from test runs. Post-mobilization, a random spectrum was selected from each test run to determine the validity of EtO concentrations. The selected spectrum was manually quantified and then compared to the concentration output by the respective analytical algorithm/FTIR method. Results can be found in Appendix E.

5. *APPENDIX*

Appendix A: Test Method Specifications

Appendix B: Sample Calculations

Appendix C: Parameters

Appendix D: QA/QC Data

Appendix E: Raw Data

Appendix F: Reference Method Monitor Data

Appendix G: Facility Operating Data

Appendix H: CleanAir Resumes and Certifications

APPENDIX A: TEST METHOD SPECIFICATIONS

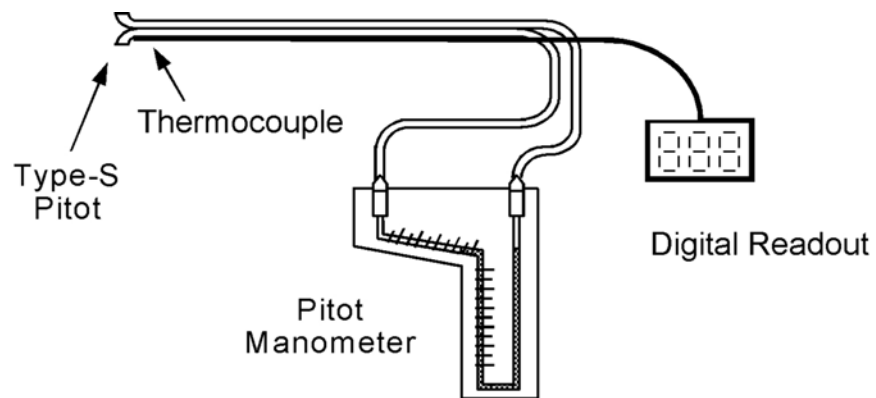
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Specification Sheet for EPA Method 2

Source Location Name(s) CRTO Stack
 Pollutant(s) to be Determined None
 Other Parameters to be Determined from Train Flow Rate

	Standard Method Specification	Actual Specification Used
Pollutant Sampling Information		
Duration of Run	N/A	Varied
No. of Sample Traverse Points	N/A	1
Sample Time per Point	N/A	Varied
Sampling Rate	N/A	N/A
Sampling Probe		
Nozzle Material	N/A	N/A
Nozzle Design	N/A	N/A
Probe Liner Material	N/A	N/A
Effective Probe Length	Sufficient to Traverse Points	TBD
Probe Temperature Set-Point	N/A	N/A
Velocity Measuring Equipment		
Pitot Tube Design	Type S	Type S
Pitot Tube Coefficient	N/A	0.84
Pitot Tube Calibration by	Geometric or Wind Tunnel	Geometric
Pitot Tube Attachment	Attached to Probe	Attached to Probe
Metering System Console		
Meter Type	Dry Gas Meter	N/A
Meter Accuracy	N/A	N/A
Meter Resolution	N/A	N/A
Meter Size	N/A	N/A
Meter Calibrated Against	N/A	N/A
Pump Type	N/A	N/A
Temperature Measurements	N/A	Type K Thermocouple/Pyrometer
Temperature Resolution	5.4°F	1.0°F
ΔP Differential Pressure Gauge	Inclined Manometer or Equivalent	Inclined Manometer/Digital Manometer
ΔH Differential Pressure Gauge	Inclined Manometer or Equivalent	N/A
Barometer	Mercury or Aneroid	Digital Barometer calibrated w/Mercury Aneroid
Filter Description		
Filter Location	N/A	N/A
Filter Holder Material	N/A	N/A
Filter Support Material	N/A	N/A
Cyclone Material	N/A	N/A
Filter Heater Set-Point	N/A	N/A
Filter Material	N/A	N/A
Other Components		
Description	N/A	N/A
Location	N/A	N/A
Operating Temperature	N/A	N/A

EPA Method 2 Sampling Train Configuration



Specification Sheet for

EPA Method 320 (FTIR)

Source Location Name(s)
Pollutant(s) to be Determined
Also Measures

CRTO Stack
Ethylene Oxide (EtO)
Moisture, O₂/CO₂

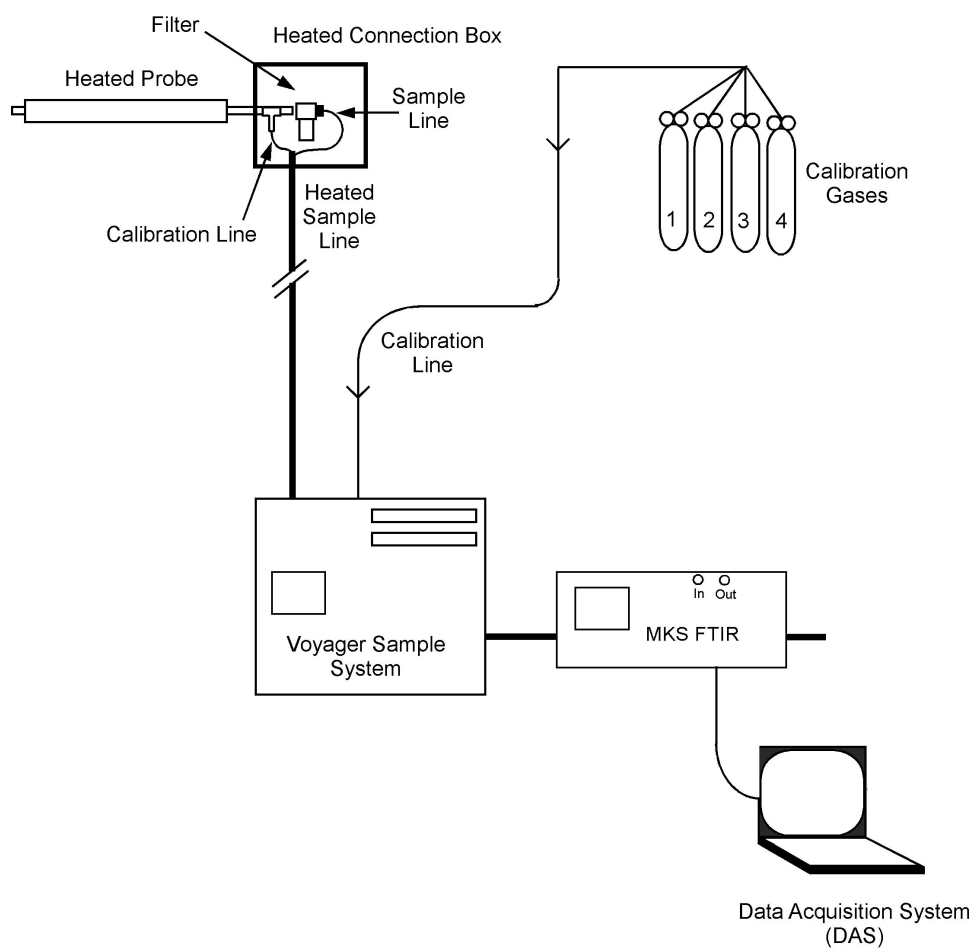
	Standard Method Specification	Actual Specification Used
Pollutant Sampling Information		
Duration of Run	N/A	Varies
No. of Sample Traverse Points	N/A	1
Sample Time per Point	N/A	Varies
Sampling Rate	Constant Rate	Constant Rate, 5.0 lpm
Sampling Probe		
Nozzle Material	N/A	None
Nozzle Design	N/A	N/A
Probe Liner Material	Stainless Steel or Equivalent	Stainless Steel
Effective Probe Length	Sufficient to Traverse Points	3 feet
Probe Temperature Set-Point	Prevent Condensation (Min. 250°F)	300°F±10°F
Particulate Filter		
In-Stack Filter	Optional	N/A
In-Stack Filter Material	N/A	N/A
External Filter	Yes	Yes
External Filter Material	Glass Fiber Mat	Borosilicate Glass Fiber Mat
External Filter Set-Point	Prevent Condensation (Min. 250°F)	300°F±10°F
Sample Delivery System		
Heated Sample Line Material	Stainless Steel or Teflon	Teflon
Heated Sample Line Set-Point	Prevent Condensation (Min. 250°F)	300°F±10°F
Heated Sample Line Connections	Probe Exit to Pump to FTIR	Probe to Pump to FTIR
Moisture Removal System	N/A	N/A
Sample Pump Type	N/A	Diaphragm
Sample Pump Material	Non-reactive to sample gases	Teflon
Sample Flow Control	Constant Rate	Constant Rate
Non-Heated Sample Line Material	N/A	N/A
Non-Heated Sample Line Connections	N/A	N/A
Additional Filters	Optional	N/A
Additional Filter Type	N/A	N/A
Additional Filter Location	N/A	N/A
Filter Material	N/A	N/A
Analyzer Description		
Ethylene Oxide (C ₂ H ₄ O)	EPA Method 320 (FTIR)	EPA Method 320 (FTIR)
Propylene Oxide (C ₃ H ₆ O)	EPA Method 320 (FTIR)	N/A
Water (H ₂ O)	EPA Method 320 (FTIR)	EPA Method 320 (FTIR)
Carbon Dioxide (CO ₂)	EPA Method 3A (NDIR)	EPA Method 3A (NDIR)
Oxygen (O ₂)	EPA Method 3A (Paramagnetic)	EPA Method 3A (Paramagnetic)
Nitrogen Dioxides (NO ₂)	EPA Method 320 (FTIR)	N/A
Nitrogen Monoxides (NO)	EPA Method 320 (FTIR)	N/A
Carbon Monoxide (CO)	EPA Method 320 (FTIR)	N/A

Specification Sheet for

EPA Method 320 (FTIR)

	Standard Method Specification	Actual Specification Used
Calibration Gas Span		
Ethylene Oxide (C ₂ H ₄ O)	N/A	0-100 ppm
Propylene Oxide (C ₃ H ₆ O)	N/A	N/A
Water (H ₂ O)	N/A	0-53.9%
Carbon Dioxide (CO ₂)	N/A	0-25%
Oxygen (O ₂)	N/A	0-25%
Nitrogen Dioxides (NO ₂)	N/A	N/A
Nitrogen Monoxides (NO)	N/A	N/A
Carbon Monoxide (CO)	N/A	N/A
Data Acquisition		
Data Recorder	Computer with Software for Automated Collection	Analog Computer / Digital Recorder
Scan Rate	No Requirement (64 Scans ~ 1 minute)	64 Scans / 1 per second
Data Storage	Automatic	Automatic
Calibration Gas Specifications		
Ethylene Oxide (C ₂ H ₄ O) (QA)	Best Commercially Available Accuracy (±5%)	Best Commercial Accuracy (±1%)
Sulfur Hexafluoride (SF ₆) (Tracer)	Best Commercially Available Accuracy (±5%)	Best Commercial Accuracy (±1%)
Methane (CH ₄) (CTS)	EPA Protocol 1	EPA Protocol 1
Zero Nitrogen	N/A	Ultra High Purity
Carbon Dioxide (CO ₂)	EPA Protocol 1	EPA Protocol 1
Oxygen (O ₂)	EPA Protocol 1	EPA Protocol 1
Nitrogen Monoxides (NO)	N/A	N/A
Carbon Monoxide (CO)	N/A	N/A
* Note: M320 only requires that the gases used come with a certificate of accuracy		

EPA Method 320 Standard FTIR Sampling Train Configuration



Servomex 1415 CO2 Analyzer

Rental and Application Notes

- Shipping Weight: 28 lbs.
- The Servomex 1420C/1415C can be plumbed together in a 19" rack mount. The combined weight is 44 lbs.
- These units are compatible with the older 1400B series



	Specifications
Weight	12 lbs
Dimensions	19" x 7" x 14"
Power	120VAC
Output	0-1v non-isolated or 4-20mA
Range	0-20 & 25% CO2
Response Time	<10 seconds
Accuracy	1% of selected range
Flow Rate	1 - 6 L/min
Inlet Pressure	1 - 10 psig
Vent Pressure	13.1 to 16.0 psia
Linearity	1% of selected range
Repeatability	1% of selected range
Zero Drift	2% of full scale/week
Span Drift	1% of reading/day
Relative Humidity	0% - 90% non-condensing
Storage Temperature	-4° F to 158° F

Servomex 1420C O2 Analyzer

Rental and Application Notes

- Shipping Weight: 28 lbs.
- The analyzer measures the partial pressure of oxygen in the sample gas. Therefore, any change in sample pressure at the measuring cell will have an effect, which is proportional to the change in absolute pressure from the time of calibration.
- The Servomex 1420C/1415C can be plumbed together in a 19" rack mount. The combined weight is 44 lbs.
- These units are compatible with the older 1400B series



	Specifications
Weight	12 lbs
Dimensions	19" x 7" x 14"
Power	120VAC
Output	0-1v non-isolated or 4-20mA
Range	O2 0-25%, 0-100%
Response Time	<3 seconds
Accuracy	+/- 0.1%
Flow Rate	1 - 6 L/min
Inlet Pressure	1 - 10 psig
Vent Pressure	11.8-15.9 psia
Linearity	+/- 0.1%
Repeatability	+/- 0.1%
Zero Drift	< + 0.002% O2/hour
Span Drift	< + 0.002% O2/hour
Relative Humidity	0 - 90% non-condensing
Storage Temperature	-4° F to 158° F

MKS MultiGas 2030 FTIR



RENTAL AND APPLICATION NOTES:

- Shipping Weight: 120 lbs.
- Designed to meet EPA Method 318,320,321 and various VOC and inorganic gas sampling including Formaldehyde, Ammonia and HCl.
- Nitrogen and Ethylene calibration gases are needed.
- Liquid Nitrogen is needed for most applications.
- Instrument rental of the MKS FTIR is accompanied with an operator unless otherwise arranged through CleanAir Instrument Rental.

SPECIFICATIONS:

- Weight: 100 lbs.
- Power 120 or 240VAC, 50/60 Hz, 3amps.
- Measurement Technique: FTIR Spectrometry.
- 21 μ m 0.25mm LN₂ cooled detector, 7 μ m 0.25mm TE cooled also available.
- Ranges: Full scale setting < 100ppb to 100% concentration.
- Averaging Time: 0.2 sec to 5 min.
- Spectral Range: 2 μ m - 20 μ m (500 - 5,000cm⁻¹).
- Temperature and pressure measured internally.
- Sample Flow: 0.2 - 10 L/min.
- Sample Pressure: 0.01 - 4 Atm.
- N₂ Purge: 20psig (1.5 bar) max, 0.1 L/min.
- Gas Cell: Nickel coated Aluminum.
- Cell Temperature: Ambient to 191° C.
- Cell Mirrors: Nickel plated Aluminum Substrate with rugged gold coating.
- Cell Windows: KBr or ZnSe.

End of Appendix Section

APPENDIX B: SAMPLE CALCULATIONS

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CEM Field Sample Calculations for O2 CRTO Stack

Sample data taken from Run 1
and Channel 1

Note: The tables presenting the results are generated electronically from raw data. It may not be possible to exactly duplicate these results using a calculator. The reference method data, results and all calculations are carried to sixteen decimal places throughout. The final table is formatted to an appropriate number of significant figures.

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1. Average of a calibration series

$$C_{mce} = \frac{(C_1 + C_2 + C_3)}{3}$$

Where:

C_1, C_2, C_3 = concentrations of 3 consecutive gas samples that are representative of the calibration gas

C_{mce}	= average concentration of a calibration series	=	12.084	%dv
	In this example the mid cal series for O2			

2. Calibration Error Check for non-Hydrocarbons (2% of Instrument Span)

$$E_{cal} = abs \left| \frac{C_{mce} - C_{ma}}{Span} \right| \leq l_{cal}$$

Where:

C_{mce}	= average concentration of a calibration series	=	12.084	%dv
	In this example the mid cal series for O2			
C_{ma}	= concentration of actual calibration gas value	=	12.040	%dv
Span	= instrument span value	=	21.160	
l_{cal}	= limit for calibration error for non-hydrocarbons	=	2.0%	

E	= calibration error check value	=	0.21%	Pass
---	---------------------------------	---	-------	-------------

3. System Bias as Percent of Span Value (5% is allowed)

$$E_{Bias} = abs \left| \frac{C_{mf} - C_{mce}}{Span} \right| \leq l_{bias}$$

Where:

C_{mce}	= average concentration of a calibration series	=	12.084	%dv
	in this example the mid cal series for O2			
C_{mf}	= upscale cal response concentration for CalBias01	=	12.057	%dv
Span	= instrument span value	=	21.160	%dv
l_{bias}	= limit for system bias error	=	5.0%	
E_{bias}	= upscale calibration bias error check value	=	0.13%	Pass

Note: zero calibration bias error check value is calculated in a similar manner.

4. System Drift as Percent of Span Value (3%)

$$E_{drift} = abs \left| \frac{C_{mf} - C_{mi}}{Span} \right| \leq l_{drift}$$

Where:

C_{mf}	= cal response concentration for CalBias01 (final)	=	12.057	%dv
C_{mi}	= cal response concentration for CalBias00 (initial)	=	12.084	%dv
Span	= instrument span value	=	21.160	%dv
l_{drift}	= limit for system drift error	=	3.0%	
E_{drift}	= upscale calibration drift error check value	=	0.13%	Pass

Note: zero calibration drift error check value is calculated in a similar manner.

5. Average Concentration for an entire Run

$$C = \left(\frac{\sum_{i=1}^N C_i}{N} \right)$$

Where:

C_i	= all concentration readings for the entirety of Run 1 for the instrument analyzing O2 on channel 1	=	$i=1$ 20.391	%dv
N	= total number of readings in Run 1	=	390	
C	= average O2 concentration for Run 1	=	20.322	%dv

6. Drift-Corrected Average Concentration for an entire Run

$$C_{DC} = \left(C - \frac{C_{oi} + C_{of}}{2} \right) \left(\frac{C_{ma}}{\frac{C_{mi} + C_{mf}}{2} - \frac{C_{oi} + C_{of}}{2}} \right)$$

C_{ma}	= concentration of actual calibration gas value	=	12.040	%dv
C	= average O2 concentration for Run 1	=	20.322	%dv
C_{mf}	= upscale response concentration for CalBias01 (final)	=	12.057	%dv
C_{mi}	= upscale response concentration for CalBias00 (initial)	=	12.084	%dv
C_{of}	= zero response concentration for CalBias01 (final)	=	0.051	%dv
C_{oi}	= zero response concentration for CalBias00 (initial)	=	-0.027	%dv
C_{DC}	= drift average O2 concentration for Run 1	=	20.279	%dv

EPA Method 320 Field Sample Calculations

Run 1

Note: The tables presenting the results are generated electronically from raw data. It may not be possible to exactly duplicate these results using a calculator. The reference method data, results and all calculations are carried to sixteen decimal places throughout. The final table is formatted to an appropriate number of significant figures.

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1. CTS System Bias as Percent of CTS Certification Concentration

$$E_{Bias} = abs \left| \frac{C_{sys} - C_{dir}}{C_{dir}} \right| \times 100$$

Where:

C_{sys}	= Average concentration of system CTS	=	11.992	ppm
C_{dir}	= Average concentration of certified CTS	=	11.990	ppm
E_{bias}	= CTS system bias	=	0.01%	

2. Pre-/Post-run CTS Deviation (<5%)

$$E_{dev} = abs \left| \frac{C_{pre} - C_{post}}{C_{pre}} \right| \times 100$$

Where:

C_{pre}	= Average concentration of pre-run CTS	=	11.992	ppm
C_{post}	= Average concentration of post-run CTS	=	12.034	ppm
E_{dev}	= CTS system bias	=	0.4%	Pass

3. Dilution Factor of Spike Gas

$$DF = \frac{T_{spike} - T_{nat}}{T_{direct}}$$

Where:

T_{spike}	= Diluted tracer gas concentration measured in spiked sample	=	0.49	ppm
T_{direct}	= Tracer gas concentration measured directly	=	5.02	ppm
T_{nat}	= Native tracer gas concentration measured in effluent gas stream	=	-0.004	ppm
DF	= Dilution factor of spike gas	=	0.0992	

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Puerto Rico
CRTO Stack

4. Expected EtO in spiked sample

$$X_{Exp} = (X_{dir})(DF) + (X_{nat})(1 - DF)$$

Where:

X_{Dir}	= Average concentration of direct QA analyte	=	102.591	ppm
DF	= Dilution factor (dimensionless)	=	0.0992	
X_{nat}	= Average concentration of native QA analyte in effluent stream	=	10.741	ppm
X_E	= Expected concentration in spiked sample	=	10.4020	ppm

5. Spike recovery (%) (70-130%)

$$\%SR = \left(\frac{X_S}{X_E} \right) \times 100$$

Where:

X_S	= Concentration of QA analyte in spiked sample	=	10.7412	ppm
X_E	= Expected concentration in spiked sample	=	10.4020	ppm
%SR	= Spike recovery (%)	=	103.26%	Pass

EtO Emissions Sample Calculations for the CRTO Stack

Sample data taken from Run 1

Note: The tables presenting the results are generated electronically from raw data. It may not be possible to exactly duplicate these results using a calculator. The reference method data, results and all calculations are carried to sixteen decimal places throughout. The final table is formatted to an appropriate number of significant figures.

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1. EtO concentration (ppmdv)

$$C(ppmdv) = \frac{C_{ppmwv}}{(1 - B_w/100)}$$

Where:

C_{ppmwv}	= concentration	=	36.02	ppmwv
B_w	= actual water vapor in gas (% v/v)	=	3.51	% v/v
100	= conversion factor to change percentage to decimal	=	100	
$C(ppmdv)$	= EtO concentration (ppmdv)	=	37.33	ppmdv

2. EtO concentration (ppbvw)

$$C(ppbvw) = k_1 \times C_{ppmwv}$$

Where:

C_{ppmwv}	= concentration	=	36.02	ppmwv
k_1	= ppb to ppm conversion factor for diluent gases	=	1,000	
$C(ppbvw)$	= EtO concentration (ppbvw)	=	36,024	ppbvw

3. EtO concentration (lb/dscf)

$$C(lb/dscf) = \frac{C(ppmdv) \times MW(gas)}{10^6 ppm \times 385.3}$$

Where:

$C(ppmdv)$	= EtO concentration (ppmdv)	=	37.33	ppmdv
MW	= Molecular Weight of EtO gas	=	44.05	lb/lb-mole
10^6	= conversion factor from decimal to ppm	=	1.00E+06	
385.3	= molar volume	=	385.3	dscf/lb-mole
$C(lb/dscf)$	= EtO concentration (lb/dscf)	=	4.27E-06	lb/dscf

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CRTO Stack

4. EtO concentration (lb/scf)

$$C(lb/scf) = C(lb/dscf) \times \frac{Q_{std}}{Q_s}$$

Where:

C (lb/dscf)	= EtO concentration (lb/dscf)	=	4.27E-06	lb/dscf
Q _{std}	= volumetric flow rate at standard conditions, dry basis (dscfm)	=	4,773.15	dscfm
Q _s	= volumetric flow rate (scfm)	=	4,946.79	scfm
C (lb/scf)	= EtO concentration (lb/scf)	=	4.12E-06	lb/scf

5. EtO concentration (lb/acf)

$$C(lb/acf) = C(lb/dscf) \times \frac{Q_{std}}{Q_a}$$

Where:

C (lb/dscf)	= EtO concentration (lb/dscf)	=	4.27E-06	lb/dscf
Q _{std}	= volumetric flow rate at standard conditions, dry basis (dscfm)	=	4,773.15	dscfm
Q _a	= volumetric flow rate (acfm)	=	7,370.64	acfm
C (lb/acf)	= EtO concentration (lb/acf)	=	2.76E-06	lb/acf

6. Volume of Gas Exiting CRTO Stack (dscf)

$$V(dscf) = Q_{std} \times 60 \times Time$$

Q _{std}	= Volumetric Flow Rate, dry standard	=	4773.149	dscfm
Time	= Total Test Run Time	=	6.38	hour
60	= conversion factor (min/hr)	=	60	min/hr
V	= Volume of Gas Exiting CRTO	=	1,828,116	dscf

7. EtO concentration (lb)

$$C(lb) = \frac{V \times C(ppmdv) \times MW}{10^6 ppm \times 385.3}$$

Where:

C (ppmdv)	= EtO concentration (ppmdv)	=	37.33	ppmdv
V	= volume of gas exiting CRTO Stack	=	1,828,116	dscf
MW	= Molecular Weight of EtO gas	=	44.05	lb/lb-mole
10 ⁶	= conversion factor from decimal to ppm	=	1.00E+06	
385.3	= molar volume	=	385.3	dscf/lb-mole
C (lb)	= EtO concentration (lb)	=	7.80	lb

8. EtO emission rate (lb/hr)

$$E_{lb/hr} = C(lb/dscf) \times Q_{std} \times 60$$

Where:

C (lb/dscf)	= EtO concentration (lb/dscf)	=	4.27E-06	lb/dscf
Q _{std}	= volumetric flow rate at standard conditions, dry basis (dscfm)	=	4,773	dscfm
60	= conversion factor (min/hr)	=	60	min/hr
E _{lb/hr}	= EtO emission rate (lb/hr)	=	1.22	lb/hr

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Puerto Rico
CRTO Stack

9. EtO Removal Efficiency% by 40 CFR 63.365(d)

$$RE = \frac{(C_i - C_o)}{C_i}$$

Where:

C _i	= Average input emission rate for Run 1	=	120.000	lb
C _o	= Average outlet emission rate for Run 1	=	7.80	lb
RE	= Recovery Efficiency (%)	=	93.50%	

End of Appendix Section

APPENDIX C: PARAMETERS

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CleanAir Project No. 14799
Salinas, Puerto Rico
CRTO Stack

Continuous Emissions Monitoring Parameters

Run Number	1			
Date (2024)	Jan 11			
Start Time	9:25			
End Time	15:48			
Elapsed Time (hh:mm)	06:23			
Channel	1	2	3	4
Parameter	O2	CO2	Δp	Ts
Location	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
Measurement Units	%dv	%dv	inWC	degF
Measured Average	20.279	0.661		
	(Drift-Corrected)	(Drift-Corrected)	(Drift-Corrected)	(Drift-Corrected)
Concentration (%dv)	20.279	0.661	N/A	N/A
Concentration (%wv)	20.279	0.661		
Run Number	2			
Date (2024)	Jan 11			
Start Time	17:29			
End Time	22:51			
Elapsed Time (hh:mm)	05:22			
Channel	1	2	3	4
Parameter	O2	CO2	Δp	Ts
Location	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
Measurement Units	%dv	%dv	inWC	degF
Measured Average	20.054	0.714		
	(Drift-Corrected)	(Drift-Corrected)	(Drift-Corrected)	(Drift-Corrected)
Concentration (%dv)	20.054	0.714	N/A	N/A
Concentration (%wv)	20.054	0.714		

Steri-Tech, Inc.
CleanAir Project No. 14799
Salinas, Puerto Rico
CRTO Stack

Continuous Emissions Monitoring Parameters

Run Number	3			
Date (2024)	Jan 12			
Start Time	9:09			
End Time	15:05			
Elapsed Time (hh:mm)	05:56			
Channel	1	2	3	4
Parameter	O2	CO2	Δp	Ts
Location	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
Measurement Units	%dv	%dv	inWC	degF
Measured Average	20.065	0.671		
	(Drift-Corrected)	(Drift-Corrected)	(Drift-Corrected)	(Drift-Corrected)
Concentration (%dv)	20.065	0.671	N/A	N/A
Concentration (%wv)	20.065	0.671		

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CleanAir Project No: 14799

CRTO Stack

Run No.	1	2	3
Date (2024)	Jan 11	Jan 11	Jan 12
Start Time (approx.)	9:25	17:29	9:09
Stop Time (approx.)	15:48	22:51	15:05

Sampling Conditions

C _p	Pitot tube coefficient	0.8400	0.8400	0.8400
P _g	Static pressure (in. H ₂ O)	-0.2700	-0.2700	-0.2700
A _s	Sample Location area (sq. ft.)	2.7001	2.7001	2.7001
P _b	Barometric pressure (in. Hg)	30.0000	30.0000	30.0000
O ₂	Oxygen (dry volume %)	20.2785	20.0538	20.0654
CO ₂	Carbon dioxide (dry volume %)	0.6610	0.7141	0.6709
T _s	Sample gas temp. (deg F)	327.9785	326.5747	326.9308
√ΔP	Velocity head (sqrt in. H ₂ O)	0.6601	0.6685	0.6624

Flow Results

V _{wstd}	Volume of water vapor (scf)	0.0000	0.0000	0.0000
V _{mstd}	Volume of gas metered (dscf)	0.0000	#VALUE!	#VALUE!
P _s	Sample gas pres., abs. (in. Hg)	29.9801	29.9801	29.9801
P _v	Water vapor pres., abs. (in. Hg)	29.9801	29.9801	29.9801
B _{wo}	Moisture in sample (by vol.)	0.0313	0.0333	0.0362
B _{ws}	Saturated moisture (by vol.)	1.0000	1.0000	1.0000
√ΔP	Velocity head (sqrt in. H ₂ O)	0.6601	0.6685	0.6624
M _d	MW of sample gas, dry (lb/lb-mole)	28.9169	28.9164	28.9100
M _s	MW of sample gas, wet (lb/lb-mole)	28.5750	28.5526	28.5151
ρ	Gas density (lb/cf)	0.0498	0.0498	0.0497
V _s	Velocity of sample gas (ft/sec)	45.4632	46.0179	45.6393
Q _a	Volumetric flow rate (acfm)	7,365	7,455	7,394
Q _{std}	Volumetric flow rate (scfm)	4,943	5,012	4,969
Q _{std}	Volumetric flow rate (dscfm)	4,788	4,845	4,789
Q _{std}	Gas flow rate (lb/hr)	21,989	22,279	22,057

End of Appendix Section

APPENDIX D: QA/QC DATA

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Steri-Tech, Inc.
CleanAir Project No. 14799
Salinas, Puerto Rico

CleanAir Reference Method CEMS QA/QC Results

Channel:	1	2	3	4
Constituent:	O ₂	CO ₂	Δp	Ts
Location:	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack

Analyzer Calibration Error as Percent of Calibration Span Value (±2%) (07:17 - 07:37)

Zero	0.1%	0.1%	N/A	N/A
Low	N/A	N/A	N/A	N/A
Mid	0.2%	0.2%	N/A	N/A
High	0.1%	-0.1%	N/A	N/A

System Bias as Percent of Calibration Span Value (±5%) - Bias 00 (06:37 - 06:43)

Zero	-0.2%	0.2%	0.0%	0.0%
Upscale	0.0%	0.0%	0.0%	0.0%

System Bias as Percent of Calibration Span Value (±5%) - Bias 01 (14:51 - 15:03)

Zero	0.2%	-0.1%	0.0%	0.0%
Upscale	-0.1%	0.0%	0.0%	0.0%

Drift Assessment as Percent of Calibration Span Value (±3%)

Zero	0.4%	-0.3%	0.0%	0.0%
Upscale	-0.1%	0.0%	0.0%	0.0%

System Bias as Percent of Calibration Span Value (±5%) - Bias 02 (23:00 - 23:09)

Zero	0.3%	0.1%	0.0%	0.0%
Upscale	0.3%	0.0%	0.0%	0.0%

Drift Assessment as Percent of Calibration Span Value (±3%)

Zero	0.2%	0.1%	0.0%	0.0%
Upscale	0.4%	0.1%	0.0%	0.0%

Steri-Tech, Inc.
CleanAir Project No. 14799
Salinas, Puerto Rico

CleanAir Reference Method CEMS QA/QC Results

Channel:	1	2	3	4
Constituent:	O2	CO2	Δp	Ts
Location:	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack

Analyzer Calibration Error as Percent of Calibration Span Value (±2%) (08:03 - 08:15)

Zero	0.5%	0.2%	N/A	N/A
Low	N/A	N/A	N/A	N/A
Mid	0.6%	1.0%	N/A	N/A
High	0.2%	-0.3%	N/A	N/A

System Bias as Percent of Calibration Span Value (±5%) - Bias 0 B (08:16 - 08:24)

Zero	-0.1%	0.1%	0.0%	0.0%
Upscale	0.0%	-0.7%	0.0%	0.0%

System Bias as Percent of Calibration Span Value (±5%) - Bias 03 (15:07 - 15:14)

Zero	0.1%	0.1%	0.0%	0.0%
Upscale	-0.1%	-1.2%	0.0%	0.0%

Drift Assessment as Percent of Calibration Span Value (±3%)

Zero	0.2%	0.0%	0.0%	0.0%
Upscale	-0.1%	-0.5%	0.0%	0.0%

System Bias as Percent of Calibration Span Value (±5%) - Bias 02 (00:00 - 00:00)

Zero		0.0%	0.0%
Upscale		0.0%	0.0%

Drift Assessment as Percent of Calibration Span Value (±3%)

Zero		0.0%	0.0%
Upscale		0.0%	0.0%

Steri-Tech
14799
CRTO Stack
Method 320

January 10, 2024
Start Time 16:21
Stop Time 16:24

MDC#2 Study

MDC#2 Study for EtO - CRTO Stack Sample Train

Analysis Description: MKS 2030 FTIR
Asset #: 210233
Description: Ambient, 60 sec

FTIR Cell Volume (ml): 200
Sample Flow Rate (lpm): 5.0
Min. Spectra Acquisition (s-1): 15
Min. Indep. Samples per Spectrum: 6.25

			EtO (ppmwv)
3 x RMS			0.3103
Date	Time		
020524 080554			
14799_000813.LAB	1/10/2024	16:21:27	0.1419
14799_000814.LAB	1/10/2024	16:21:37	0.1737
14799_000815.LAB	1/10/2024	16:21:46	0.1972
14799_000816.LAB	1/10/2024	16:21:56	0.0559
14799_000817.LAB	1/10/2024	16:22:05	0.1666
14799_000818.LAB	1/10/2024	16:22:15	0.2959
14799_000819.LAB	1/10/2024	16:22:24	0.1313
14799_000820.LAB	1/10/2024	16:22:34	0.0643
14799_000821.LAB	1/10/2024	16:22:43	0.0392
14799_000822.LAB	1/10/2024	16:22:53	-0.1177
14799_000823.LAB	1/10/2024	16:23:03	0.1268
14799_000824.LAB	1/10/2024	16:23:12	0.4260
14799_000825.LAB	1/10/2024	16:23:22	0.1407
14799_000826.LAB	1/10/2024	16:23:31	0.1576
14799_000827.LAB	1/10/2024	16:23:41	0.0441
14799_000828.LAB	1/10/2024	16:23:50	0.0315
14799_000829.LAB	1/10/2024	16:24:00	0.1317
14799_000830.LAB	1/10/2024	16:24:09	0.1778
14799_000831.LAB	1/10/2024	16:24:19	0.1262
14799_000832.LAB	1/10/2024	16:24:28	0.1663
14799_000833.LAB	1/10/2024	16:24:38	0.1029

Per ref. method procedures in ASTM D6348-12, the MCD#2 for EtO is 310.3 ppb

Function	Compound	Concentration	Cylinder ID	Exp. Date	Uncertainty
Zero/Background	UHP N ₂	99.9995%	N2	N/A	N/A
High QA Analyte	EtO	100.5	CC203415	3/15/2025	± 1 %
Tracer	SF ₆	5.02	CC203415	3/15/2025	± 1 %
M-3A & CTS	O ₂ /CO ₂	12.04 / 11.99 %	CC426832	6/20/2026	± 0.4 %/±0.7 %
M-3A	O ₂ /CO ₂	21.16 / 20.78 %	CC743547	10/12/2029	± 0.5 %/± 0.6 %

Instrument	Technology	Function	Asset #
MKS 2030	FTIR Spectrometry	Outlet EtO, H ₂ O, CH ₄ , C ₂ H ₆	210233
Servomex 1420C	Paramagnetic	Outlet O ₂	208593
Servomex 1420C	NDIR	Outlet CO ₂	208208
Pressure / Temperature Transducer	Diff. Press. "WC/K-Type Thermo	Outlet Pressure	204347
Pressure / Temperature Transducer	Diff. Press. "WC/K-Type Thermo	Outlet Temperature	204347
Voyager system	pump/flow panel	pump/flow panel	211611/212219/212186

Calibration Transfer Standard (CTS)

Location	Chamber	Run	CTS Gas	Cert. Value	Pre-Test	CertValue %Diff	Post-Test	CertValue% Diff	Pre- Post%Diff.	Limit (%)
CRTO Stack	1 & 2	1	CO2	11.99	11.992	0.0%	12.034	0.4%	0.4%	< ±5
CRTO Stack	1 & 2	2	CO2	11.99	12.034	0.4%	11.944	-0.4%	-0.7%	< ±5
CRTO Stack	1 & 2	3	CO2	11.99	12.029	0.3%	11.906	-0.7%	-1.0%	< ±5

Spike No. Spike Date (2024) Location	Spiking Setup Day 1/10 CROTO Stack		Pre-Run 1 1/11 CROTO Stack	Pre-Run 3 1/12 CROTO Stack	Post-Run 3 1/12 CROTO Stack
Spike Start Time	16:34:18		8:39:24	9:02:07	15:25:04
Spike Stop Time	16:39:22		8:44:57	9:05:17	15:29:49
QA Analyte	EtO		EtO	EtO	EtO
QA Cylinder Conc. (ppm)	100.5		100.5	100.5	100.5
Tracer	SF ₆		SF ₆	SF ₆	SF ₆
Tracer Cylinder Conc. (ppm)	5.02		5.02	5.02	5.02
QA Direct (ppm)	96.06		102.59	100.24	100.24
Tracer Direct (ppm)	4.92		5.02	5.03	5.03
QA Native Conc. (ppm)	0.132		0.253	0.46	-0.022
Tracer Native Conc. (ppm)	0.001		-0.004	-0.006	-0.004
QA Spike Conc. (ppm)	10.227		10.741	9.68	10.03
Tracer Spike Conc. (ppm)	0.55		0.49	0.473	0.515
Dilution Factor	0.111		0.099	0.095	0.103
Expected Spike Conc. (ppm)	10.75		10.40	9.97	10.33
Spike Bias (ppm)	-0.523		0.339	-0.288	-0.302
Spike Recovery (%) (70-130%)	95.1%		103.3%	97.1%	97.1%

Location	Run	SPC#	Date	Time	Analyte	Reported (ppmwv)	Manual (ppmwv)	Difference (ppmwv)	%Error	Limit (%)
CRTO Stack	1	1557	1/11/24	10:32	EtO	84.24	76.80	7.443	9.7%	< ±20
CRTO Stack	2	2262	1/11/24	19:36	EtO	48.95	44.78	4.169	9.3%	< ±20
CRTO Stack	3	3229	1/12/24	14:35	EtO	9.93	9.93	0.000	0.0%	< ±20
Pre-Run 1	Spike	1365	1/11/24	8:41	EtO	11.39	10.38	1.007	9.7%	< ±20
Pre-Run 1	Spike	1365	1/11/24	8:41	SF6	0.49	0.48	0.012	2.5%	< ±20
Pre-Run 3	Spike	2873	1/12/24	9:04	EtO	9.69	9.69	0.000	0.0%	< ±20
Pre-Run 3	Spike	2873	1/12/24	9:04	SF6	0.47	0.47	0.000	-0.1%	< ±20
Post-Run 3	Spike	3350	1/12/24	15:27	EtO	10.46	10.47	-0.006	-0.1%	< ±20
Post-Run 3	Spike	3350	1/12/24	15:27	SF6	0.51	0.51	0.000	0.0%	< ±20

Analysis Validation Utility V01.00.01

Sample filename

Load Sample

C:\Users\JasonMcKeever\Desktop\CleanAir Projects\14799 Steri-Tech Inc\2nd Mob\FTIR Spec\Spec\14799_001557.LAB

Nu

Abs

Support Spectra

Load Recipe

C:\OLT\recipes\McKeever 1.MGRCP

Display

ASTM D6348/m320

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	Range	Span
ACETALDEHYDE 150C	28.28	2.35	0.67	2.93	3.55	2.85	3.55	0-911	-
ACETYLENE 150C	0.45	6.21	0.70	2.91	4.33	9.24	9.24	0-1086	-
BUTANE 150C	0.50	0.81	0.74	0.98	1.52	1.25	1.52	0-4500	-
CH4 % 150C	0.00	0.19	0.07	0.46	0.69	0.29	0.69	0-100	-
CO2% 150C	0.74	0.19	-	0.01	0.01	0.27	0.27	0-20	0.96
ETHANE 150C	0.43	1.61	0.82	1.90	2.87	2.44	2.87	0-3000	-
ETHYLENE 150C	0.69	0.63	0.64	1.30	2.30	1.12	2.30	0-3000	-
ETO CLEANAIR 150C LOW 4	76.80	1.69	2.42	3.16	4.42	2.37	4.42	0-548	0.91
FORMALDEHYDE 150C	11.21	0.57	0.61	1.28	1.51	0.67	1.51	0-69	-
FORMIC ACID 150C	0.55	0.35	0.31	0.62	0.76	0.43	0.76	0-932	-
H2O% 150C	3.67	0.19	-	0.20	0.47	0.57	0.57	0-54	-
NO HIGH 150C	1.57	2.69	1.40	1.84	2.62	3.83	3.83	0-12720	-
NO2 HIGH 150C	1.12	6.12	5.82	7.42	9.34	7.71	9.34	0-10000	-
PROPANE 150C	0.87	0.89	0.78	1.27	2.00	1.40	2.00	0-1011	-
PROPYLENE HIGH 150C	-21.02	25.39	56.61	49.37	68.27	35.11	68.27	0-50000	-
SULFUR HEXAFLUORIDE 150C	-0.01	0.03	0.02	0.05	0.11	0.07	0.11	0-55	0.93
N2O 150C	0.44	0.30	0.42	0.23	0.27	0.35	0.35	0-798	-

Good

Close to DL

Check it!

All values in the same unit as the concentration readings

Show goodness of fit

Wavenumber

Absorbance

Scaled Reference

Sample - all others

Spectral Residuals

List of gases

Acetaldehyde 150c

ACETYLENE 150C

Butane 150C

CH4 % 150C

CO2% 150C

Ethane 150c

Ethylene 150C

ETO CleanAir 150C Low 4

Formaldehyde 150c

Formic Acid 150C

H2O% 150C

NO high 150C

NO2 high 150c

Propane 150c

Propylene High 150c

SULFUR HEXAFLUORIDE

Concentration

76.804

MDC3

1.692

MDC3%

2.2%

<= The two plots should match as well as possible

<= Should look like a "noise-only" flat spectrum with no features

Analysis Validation Utility V01.00.01

Sample filename
C:\Users\JasonMcKeever\Desktop\CleanAir Projects\14799 Steri-Tech Inc\2nd Mob\FTIR Spec\Spec\14799_002262.LAB

Load Sample
Support Spectra

5.0165
4.0000
3.0000
2.0000
1.0000
-0.0383

600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4500

Load Recipe
C:\OLT\recipes\McKeever 1.MGRCP

Display
ASTM D6348/m320

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	Range	Span	
ACETALDEHYDE 150C	16.26	1.64	0.67	2.93	3.55	1.99	3.55	0-911	-	
ACETYLENE 150C	0.30	5.08	0.70	2.91	4.33	7.55	7.55	0-1086	-	
BUTANE 150C	0.36	0.57	0.74	0.98	1.52	0.88	1.52	0-4500	-	
CH4 % 150C	0.00	0.18	0.07	0.46	0.69	0.27	0.69	0-100	-	
CO2% 150C	0.69	0.13	-	0.01	0.01	0.18	0.18	0-20	0.96	
ETHANE 150C	0.32	1.04	0.82	1.90	2.87	1.58	2.87	0-3000	-	
ETHYLENE 150C	0.62	0.49	0.64	1.30	2.30	0.87	2.30	0-3000	-	
ETO CLEANAIR 150C LOW 4	44.78	1.20	2.42	3.16	4.42	1.68	4.42	0-548	0.91	
FORMALDEHYDE 150C	8.14	0.51	0.61	1.28	1.51	0.60	1.51	0-69	-	
FORMIC ACID 150C	0.61	0.28	0.31	0.62	0.76	0.34	0.76	0-932	-	
H2O% 150C	3.29	0.16	-	0.20	0.47	0.47	0.47	0-54	-	
NO HIGH 150C	1.28	2.53	1.40	1.84	2.62	3.59	3.59	0-12720	-	
NO2 HIGH 150C	1.21	3.99	5.82	7.42	9.34	5.02	9.34	0-10000	-	
PROPANE 150C	1.42	0.61	0.78	1.27	2.00	0.96	2.00	0-1011	-	
PROPYLENE HIGH 150C	-15.23	22.60	56.61	49.37	68.27	31.25	68.27	0-50000	-	
SULFUR HEXAFLUORIDE 150C	-0.01	0.02	0.02	0.05	0.11	0.05	0.11	0-55	0.93	
N2O 150C	0.42	0.26	0.42	0.23	0.27	0.30	0.30	0-798	-	

Good Close to DL Check it! All values in the same unit as the concentration readings

Run 2 - SPC# 2262 - Manual Validation

Show goodness of fit

Wavenumber
Absorbance

0.0398
0.0350
0.0300
0.0250
0.0200
0.0150
0.0100
0.0050
-0.0007

707 725 750 775 800 825 850 875 900 925 950 975 1000 1025 1057

Spectral Residuals

0.0016
0.0010
0.0000
-0.0015

707 725 750 775 800 825 850 875 900 925 950 975 1000 1025 1057

Scaled Reference
Sample - all others

<= The two plots should match as well as possible

List of gases
Acetaldehyde 150c
ACETYLENE 150C
Butane 150C
CH4 % 150C
CO2% 150C
Ethane 150c
Ethylene 150C
ETO CleanAir 150C Low 4
Formaldehyde 150c
Formic Acid 150C
H2O% 150C
NO high 150C
NO2 high 150c
Propane 150c
Propylene High 150c
SULFUR HEXAFLUORIDE

Concentration 44.782
MDC3 1.204
MDC3% 2.7%

<= Should look like a "noise-only" flat spectrum with no features

D - 12

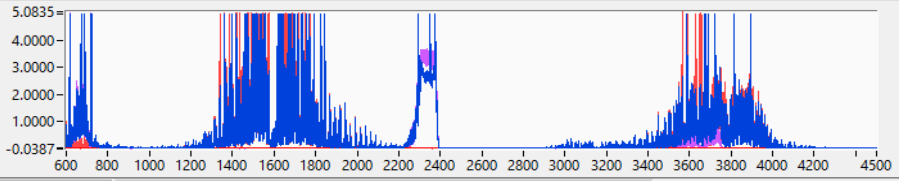
Run 3 - SPC# 3229 - Manual Validation

Analysis Validation Utility V01.00.01

Show goodness of fit

Sample filename
C:\Users\JasonMcKeever\Desktop\CleanAir Projects\14799 Steri-Tech Inc\2nd Mob\FTIR Spec\Spec\14799_003229.LAB

Load Sample
Support Spectra



Load Recipe
C:\OLT\recipes\McKeever 1.MGRCP

Display
ASTM D6348/m320

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	Range	Span		
ACETALDEHYDE 150C	3.33	1.27	0.67	2.93	3.55	1.54	3.55	0-911	-		
ACETYLENE 150C	0.24	6.00	0.70	2.91	4.33	8.92	8.92	0-1086	-		
BUTANE 150C	0.76	0.44	0.74	0.98	1.52	0.67	1.52	0-4500	-		
CH4 % 150C	0.00	0.19	0.07	0.46	0.69	0.29	0.69	0-100	-		
CO2% 150C	0.60	0.06	-	0.01	0.01	0.08	0.08	0-20	0.96		
ETHANE 150C	0.17	0.82	0.82	1.90	2.87	1.25	2.87	0-3000	-		
ETHYLENE 150C	0.54	0.46	0.64	1.30	2.30	0.82	2.30	0-3000	-		
ETO CLEANAIR 150C LOW 4	9.93	1.00	2.42	3.16	4.42	1.40	4.42	0-548	0.91		
FORMALDEHYDE 150C	2.26	0.46	0.61	1.28	1.51	0.54	1.51	0-69	-		
FORMIC ACID 150C	0.17	0.28	0.31	0.62	0.76	0.34	0.76	0-932	-		
H2O% 150C	3.64	0.17	-	0.20	0.47	0.52	0.52	0-54	-		
NO HIGH 150C	1.05	2.86	1.40	1.84	2.62	4.07	4.07	0-12720	-		
NO2 HIGH 150C	0.74	2.81	5.82	7.42	9.34	3.54	9.34	0-10000	-		
PROPANE 150C	0.03	0.49	0.78	1.27	2.00	0.78	2.00	0-1011	-		
PROPYLENE HIGH 150C	-29.65	20.12	56.61	49.37	68.27	27.82	68.27	0-50000	-		
SULFUR HEXAFLUORIDE 150C	-0.00	0.02	0.02	0.05	0.11	0.05	0.11	0-55	0.93		
N2O 150C	0.38	0.18	0.42	0.23	0.27	0.21	0.27	0-798	-		

Good

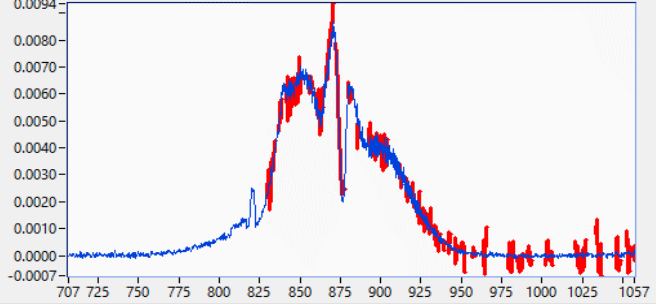
Close to DL

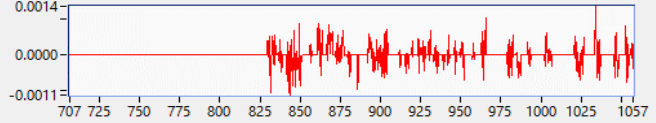
Check it !

All values in the same unit as the concentration readings

Wavenumber
Absorbance

Scaled Reference
Sample - all others



Spectral Residuals


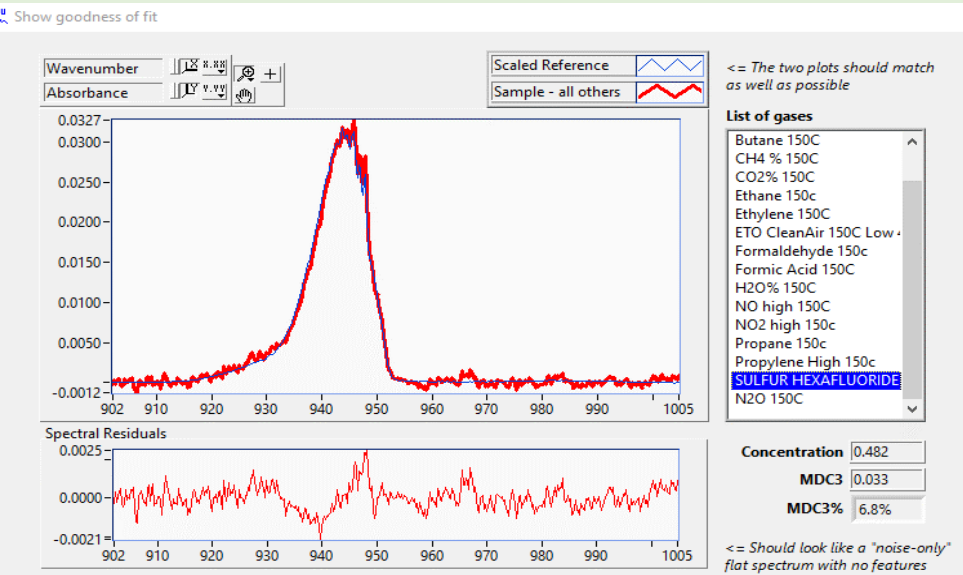
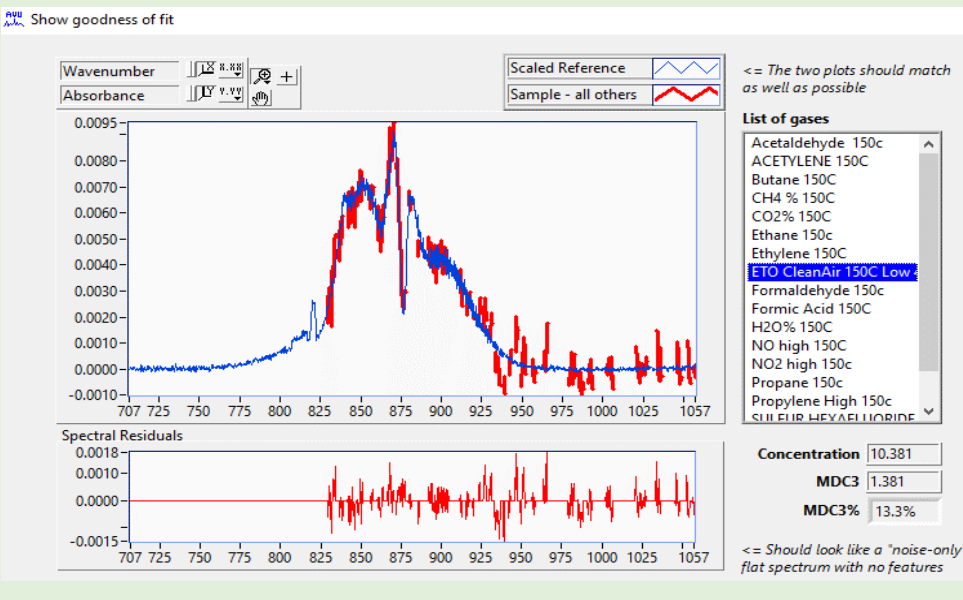
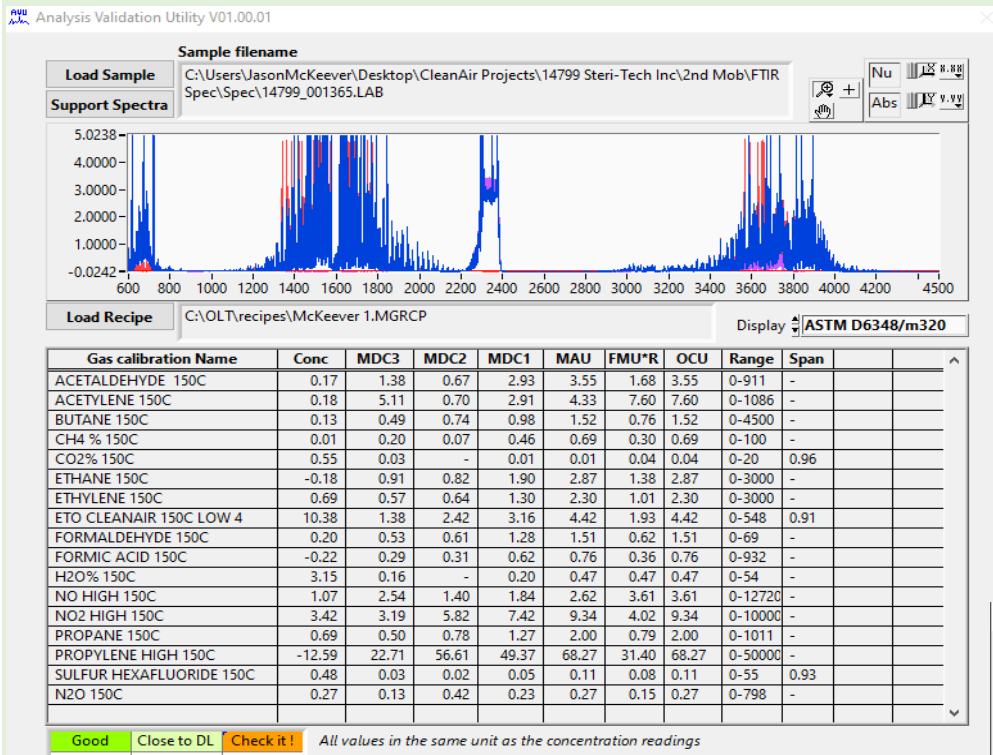
List of gases
Acetaldehyde 150c
ACETYLENE 150C
Butane 150C
CH4 % 150C
CO2% 150C
Ethane 150c
Ethylene 150C
ETO CleanAir 150C Low 4
Formaldehyde 150c
Formic Acid 150C
H2O% 150C
NO high 150C
NO2 high 150c
Propane 150c
Propylene High 150c
SULFUR HEXAFLUORIDE

Concentration
MDC3
MDC3%

<= The two plots should match as well as possible

<= Should look like a "noise-only" flat spectrum with no features

Dynamic Spike Pre-Run 1 - Manual Validation SPC# 1365



Dynamic Spike Pre-Run 3 - Manual Validation SPC# 2873

Analysis Validation Utility V01.00.01

Sample filename
C:\Users\JasonMcKeever\Desktop\CleanAir Projects\14799 Steri-Tech Inc\2nd Mob\FTIR
Spec\Spec\14799_002873.LAB

Load Sample
Support Spectra

5.0239
4.0000
3.0000
2.0000
1.0000
-0.0310

600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4500

Load Recipe
C:\OLT\recipes\McKeever 1.MGRCP

Display
ASTM D6348/m320

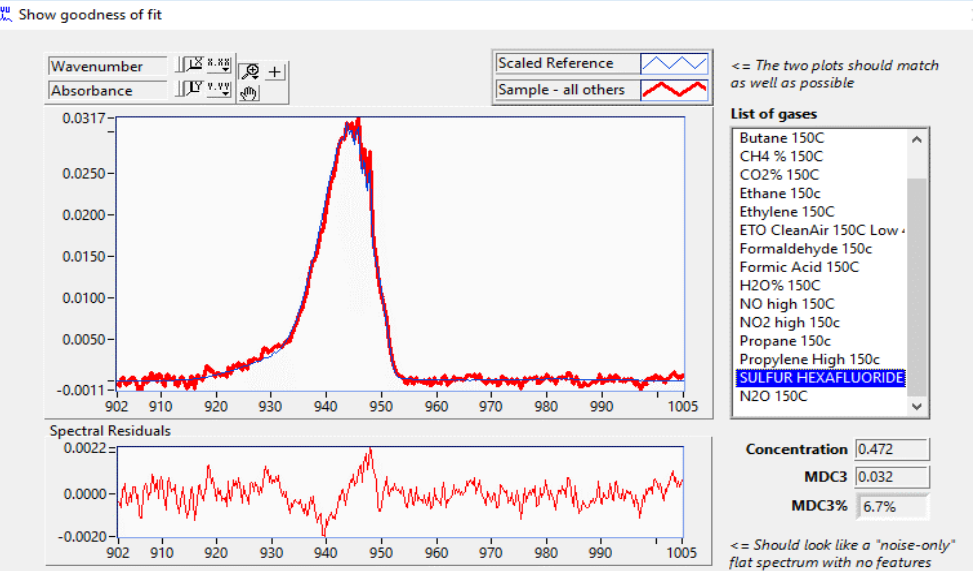
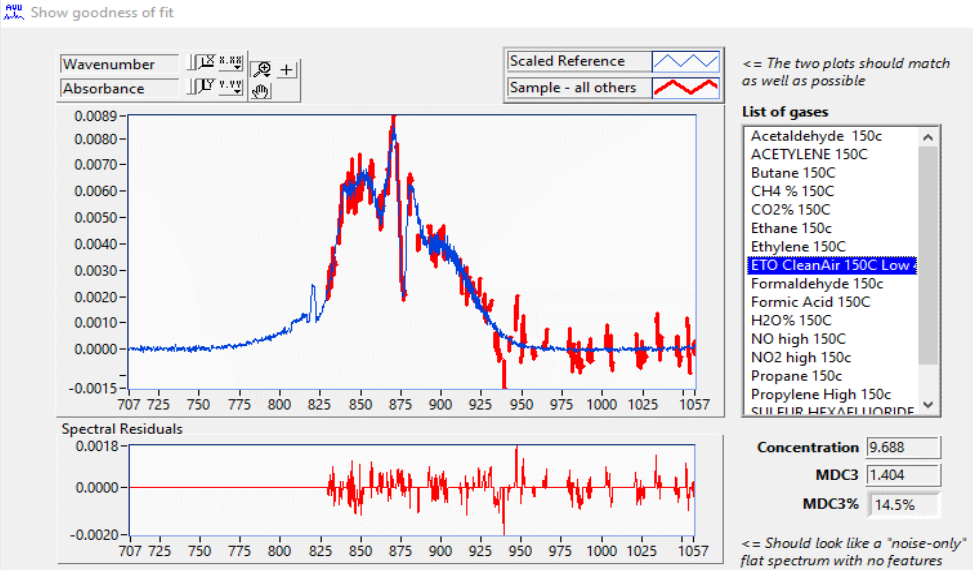
Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	Range	Span
ACETALDEHYDE 150C	0.26	1.43	0.67	2.93	3.55	1.74	3.55	0-911	-
ACETYLENE 150C	0.23	4.98	0.70	2.91	4.33	7.40	7.40	0-1086	-
BUTANE 150C	0.16	0.49	0.74	0.98	1.52	0.76	1.52	0-4500	-
CH4 % 150C	0.00	0.21	0.07	0.46	0.69	0.32	0.69	0-100	-
CO2% 150C	0.55	0.03	-	0.01	0.01	0.04	0.04	0-20	0.96
ETHANE 150C	0.08	0.89	0.82	1.90	2.87	1.35	2.87	0-3000	-
ETHYLENE 150C	0.75	0.60	0.64	1.30	2.30	1.07	2.30	0-3000	-
ETO CLEANAIR 150C LOW 4	9.69	1.40	2.42	3.16	4.42	1.96	4.42	0-548	0.91
FORMALDEHYDE 150C	0.11	0.55	0.61	1.28	1.51	0.65	1.51	0-69	-
FORMIC ACID 150C	-0.03	0.30	0.31	0.62	0.76	0.36	0.76	0-932	-
H2O% 150C	3.23	0.16	-	0.20	0.47	0.47	0.47	0-54	-
NO HIGH 150C	0.92	2.63	1.40	1.84	2.62	3.74	3.74	0-12720	-
NO2 HIGH 150C	2.68	3.42	5.82	7.42	9.34	4.31	9.34	0-10000	-
PROPANE 150C	0.61	0.56	0.78	1.27	2.00	0.88	2.00	0-1011	-
PROPYLENE HIGH 150C	-23.52	23.51	56.61	49.37	68.27	32.51	68.27	0-50000	-
SULFUR HEXAFLUORIDE 150C	0.47	0.03	0.02	0.05	0.11	0.07	0.11	0-55	0.93
N2O 150C	0.34	0.13	0.42	0.23	0.27	0.15	0.27	0-798	-

Good

Close to DL

Check it!

All values in the same unit as the concentration readings



Dynamic Spike Post-Run 3 - Manual Validation SPC# 3350

Analysis Validation Utility V01.00.01

Sample filename
Load Sample C:\Users\JasonMcKeever\Desktop\CleanAir Projects\14799 Steri-Tech Inc\2nd Mob\FTIR Spec\Spec\14799_003350.LAB

Support Spectra

Load Recipe C:\OLT\recipes\McKeever 1.MGRCP

Display ASTM D6348/m320

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	Range	Span
ACETALDEHYDE 150C	0.33	1.49	0.67	2.93	3.55	1.80	3.55	0-911	-
ACETYLENE 150C	0.23	5.40	0.70	2.91	4.33	8.03	8.03	0-1086	-
BUTANE 150C	0.58	0.50	0.74	0.98	1.52	0.77	1.52	0-4500	-
CH4 % 150C	-0.01	0.21	0.07	0.46	0.69	0.31	0.69	0-100	-
CO2% 150C	0.54	0.03	-	0.01	0.01	0.04	0.04	0-20	0.96
ETHANE 150C	0.04	0.96	0.82	1.90	2.87	1.45	2.87	0-3000	-
ETHYLENE 150C	0.80	0.65	0.64	1.30	2.30	1.16	2.30	0-3000	-
ETO CLEANAIR 150C LOW 4	10.46	1.47	2.42	3.16	4.42	2.05	4.42	0-548	0.91
FORMALDEHYDE 150C	0.13	0.59	0.61	1.28	1.51	0.69	1.51	0-69	-
FORMIC ACID 150C	-0.07	0.28	0.31	0.62	0.76	0.35	0.76	0-932	-
H2O% 150C	3.15	0.15	-	0.20	0.47	0.46	0.47	0-54	-
NO HIGH 150C	0.67	2.55	1.40	1.84	2.62	3.62	3.62	0-12720	-
NO2 HIGH 150C	1.09	3.28	5.82	7.42	9.34	4.13	9.34	0-10000	-
PROPANE 150C	0.92	0.58	0.78	1.27	2.00	0.91	2.00	0-1011	-
PROPYLENE HIGH 150C	-30.92	24.65	56.61	49.37	68.27	34.08	68.27	0-50000	-
SULFUR HEXAFLUORIDE 150C	0.51	0.03	0.02	0.05	0.11	0.08	0.11	0-55	0.93
N2O 150C	0.32	0.15	0.42	0.23	0.27	0.17	0.27	0-798	-

Good

Close to DL

Check it!

All values in the same unit as the concentration readings

Show goodness of fit

Wavenumber

Absorbance

Scaled Reference

Sample - all others

Spectral Residuals

List of gases

Acetaldehyde 150c
ACETYLENE 150C
Butane 150C
CH4 % 150C
CO2% 150C
Ethane 150c
Ethylene 150C
ETO CleanAir 150C Low
Formaldehyde 150c
Formic Acid 150C
H2O% 150C
NO high 150C
NO2 high 150c
Propane 150c
Propylene High 150c
SULFUR HEXAFLUORIDE

Concentration 10.459
MDC3 1.466
MDC3% 14.0%

<= The two plots should match as well as possible

<= Should look like a "noise-only" flat spectrum with no features

Show goodness of fit

Wavenumber

Absorbance

Scaled Reference

Sample - all others

Spectral Residuals

List of gases

Butane 150C
CH4 % 150C
CO2% 150C
Ethane 150c
Ethylene 150C
ETO CleanAir 150C Low
Formaldehyde 150c
Formic Acid 150C
H2O% 150C
NO high 150C
NO2 high 150c
Propane 150c
Propylene High 150c
SULFUR HEXAFLUORIDE
N2O 150C

Concentration 0.513
MDC3 0.033
MDC3% 6.5%

<= The two plots should match as well as possible

<= Should look like a "noise-only" flat spectrum with no features

Geometric Probe Calibration

Probe Type: S-Type Pitot

I.D. Number: 8-18-21-1

Project Number: 14799

Thermocouple Calibration

Reference Type: Thermocouple Reference I.D. No: TT-68-013 Pyrometer I.D. No: 67-DHHP 5 Units: °F

Point No.	Target Temp.	Reference Temp.	Indicated Temp.	Temp. Difference	Specification*
1	Ambient	67	65	1.8	±2 °F

* Based on ALT 011

Geometric Pitot Calibration

Is pitot assembly in good repair? ☒ Yes ☐ No If no, explain:

"S" Pitot

Dimensions	Dimensions	Specifications	Within Spec?
$\alpha 1 = 1$	$\alpha 2 = 1$	$\leq 10^\circ$	Yes
$\beta 1 = 2$	$\beta 2 = 3$	$\leq 5^\circ$	Yes
$\gamma = 0$	$\theta = 2$	None	N/A
$A = 0.745$		None	N/A
$Dt = 0.250$		$0.1875" \leq Dt \leq 0.375"$	Yes

Calculations	Specifications	Within Spec?
$A/2 = Pa = Pb = 0.373$ inches	None	N/A
$Pa/Dt = Pb/Dt = 1.490$ inches	$1.05 < P/Dt < 1.5$	Yes
$z = A \sin \gamma = 0.000$ inches	$\leq 0.125"$	Yes
$w = A \sin \theta = 0.026$ inches	$\leq 0.03125"$	Yes

Pitot Cp= **0.84 according to 40 CFR 60 section 10.1**

Standard Pitot

	Measurement	Specification	Calculation	Within Spec?
Tube O.D.		None		
Static Hole I.D.		within 10% of (0.1*O.D.)		
Tip to Static		$\geq 6 \times O.D.$		
Static to Bend		$\geq 8 \times O.D.$		

Pitot Cp=

Calibrated by: Bill Dimitroff

Date: 12/21/2023

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI58E15A02X7	Reference Number:	54-402242950-1
Cylinder Number:	CC743547	Cylinder Volume:	160.6 CF
Laboratory:	124 - Chicago (SAP) - IL	Cylinder Pressure:	2014 PSIG
PGVP Number:	B12021	Valve Outlet:	590
Gas Code:	CO2,O2,BALN	Certification Date:	Oct 12, 2021

Expiration Date: Oct 12, 2029

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	21.00 %	20.78 %	G1	+/- 0.6% NIST Traceable	10/12/2021
OXYGEN	21.00 %	21.16 %	G1	+/- 0.5% NIST Traceable	10/12/2021
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	060118	K008299	23.04 % CARBON DIOXIDE/NITROGEN	+/- 0.5%	Jun 27, 2022
NTRM	15010412	K023932	22.454 % OXYGEN/NITROGEN	+/- 0.2%	Mar 08, 2027

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
CO2-1 HORIBA VIA-510 V1E3H7P5	NDIR	Sep 14, 2021
O2-1 HORIBA MPA-510 3VUYL9NR	Paramagnetic	Sep 29, 2021

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI76E15A0295	Reference Number:	54-401231374-1
Cylinder Number:	CC426832	Cylinder Volume:	152.5 CF
Laboratory:	124 - Chicago (SAP) - IL	Cylinder Pressure:	2015 PSIG
PGVP Number:	B12018	Valve Outlet:	590
Gas Code:	CO2,O2,BALN	Certification Date:	Jun 20, 2018

Expiration Date: Jun 20, 2026

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	12.00 %	11.99 %	G1	+/- 0.7% NIST Traceable	06/20/2018
OXYGEN	12.00 %	12.04 %	G1	+/- 0.4% NIST Traceable	06/20/2018
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13060613	CC413592	13.359 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	May 09, 2019
NTRM	15010409	K013750	22.454 % OXYGEN/NITROGEN	+/- 0.2%	Aug 05, 2021

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
CO2-1 HORIBA VIA-510 V1E3H7P5	NDIR	May 29, 2018
O2-1 HORIBA MPA-510 3VUYL9NR	Paramagnetic	May 25, 2018

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: PRIMARY STANDARD

Customer:	CLEAN AIR ENGINEERING,	Reference Number:	160-402670289-1
Part Number:	X03NI99P15A00T0	Cylinder Volume:	144.0 CF
Cylinder Number:	CC203415	Cylinder Pressure:	2015 PSIG
Laboratory:	124 - Plumsteadville - PA	Valve Outlet:	350SS
Analysis Date:	Mar 15, 2023		
Lot Number:	160-402670289-1		

Expiration Date: Mar 15, 2025

Primary Standard Gas Mixtures are traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

ANALYTICAL RESULTS

Component	Req Conc	Actual Concentration (Mole %)	Analytical Uncertainty
SULFUR HEXAFLUORIDE	5.000 PPM	5.020 PPM	+/-1%
ETHYLENE OXIDE	100.0 PPM	100.5 PPM	+/-1%
NITROGEN	Balance		



Signature on file
Approved for Release

Cylinder: RR04958

Cylinder Date: 2022/04

Valve: CGA-350 SS 21/302882

Lot No.: 23263.2

Cylinder Pressure: 2000 psia

Analysis Date: October 18, 2023

EXP DATE: 10/18/24

Single-component calibration mixture in ultra-pure nitrogen

Compound	CAS#	Concentration (ppm)	Uncertainty
Ethylene Oxide	75-21-8	52.69	±5%

Uncertainty is a conservative estimate of the combination of the uncertainties of the gravimetric preparation and analysis.

Ethylene Oxide Raw Material Lot No. SQ 00013001

Chromatogram100-meter DB-1, 0.25 mm id, 3.1 mL min⁻¹ Helium carrier gas – constant flowTemperature Program: 35°C, 3.5 min → 4.5°C min⁻¹ → 180 °C, 6 min

APEL-RIEMER ENVIRONMENTAL, INC

REFERENCE GASES AND ATMOSPHERIC CHEMISTRY

Certificate of Analysis**Gas-phase Calibration Standard**

This gas-phase standard is intended to be used as a reference material for the calibration of instruments.

Statement about preparation and traceability:

Standards are gravimetrically prepared in high-pressure aluminum cylinders (Luxfer, Inc., Riverside, California). Cylinders are cleaned and treated to eliminate contamination and ensure inertness. Standards are prepared in N150 cylinders (~4000 Liters calibration gas), N033 cylinders (~800 Liters calibration gas), or N006 cylinders (~125 Liters calibration gas) at a pressure of 2000 psia UHP nitrogen. Valves are high purity stainless steel (Ceodeux, Lintgen, Luxembourg) with a CGA-350 fitting. Pure compounds as liquids and gases are obtained from a number of sources. All lot numbers are cataloged. The gravimetric preparation is performed using calibrated microbalances (Mettler-Toledo, Columbus, Ohio) and microsyringes (Hamilton, Reno, Nevada and SGE, Austin, Texas) for measuring the compounds and cylinder balances (Mettler-Toledo, Columbus, Ohio) for the balance gas. Balances are calibrated with NIST traceable weights.

We prepare each cylinder individually. Accuracy is better than +/- 5%. Analysis confirms the accuracy of the gravimetric preparation. We use a series of NIST, NIST-traceable, NPL, and in-house gravimetric standards to perform the instrument calibrations.

Stability varies depending on the compound, concentration, and cylinder size. Many compounds are stable for several years.

The calibration gas mixture in cylinder RR04958 is certified from the analysis date for 12 months.



Daniel D. Riemer, Ph.D.

October 18, 2023

Date



Instrument Information		Calibration Certificate No.: 06272023-02	
Instrument:	Pressure /Tempurature Transducer	Tech Name:	G. Logan
Asset #:	204346	Cal. Date:	6/27/2023
		Expire Date:	6/27/2024
Pressure Transducer Serial#: 80602707		Unit Type: Ashcroft Model XXdp	

CleanAir laboratories Standards Used			
Temperature Calibrator Serial #:	T-306932	Unit Type:	Tegam
Date Calibrated:	6/12/2023	Expire Date:	6/12/2024
Δp Calibrator Serial #:	PTE-13925	Unit Type:	Heise PTE-1
Date Calibrated:	N/A	Expire Date:	N/A
Δp Calibrator Serial #:	57966	Unit Type:	Ashcroft HQS-1
Date Calibrated:	9/27/2022	Expire Date:	9/27/2023
Δp Calibrator Serial #:	55749	Unit Type:	Ashcroft HQS-1
Date Calibrated:	9/27/2022	Expire Date:	9/27/2023
Multimeter Serial #	93760146	Unit Type:	Fluke 87V
Date Calibrated:	12/12/2022	Expire Date:	12/12/2023

Calibration Results

Pressure Transducer						
% of Scale	Lab Standard	UUT Reading	% of Error	Expected Output	Actual Output	% of Error
100	5.00	5.000	0.00	10.00	10.04	0.40
80	4.00	3.990	-0.25	8.00	7.99	-0.12
60	3.00	2.990	-0.33	6.00	6.01	0.17
40	2.00	1.990	-0.50	4.00	4.00	0.00
20	1.00	1.000	0.00	2.00	2.00	0.00
0	0.00	0.000	0.00	0.00	0.00	#####

Temperature Transducer					
Lab Standard	UUT Reading	% of Error	Expected Voltage Output	Actual Voltage Output	% of Error
1000	1002	0.2	10.00	10.03	0.30
750	750	0.0	7.50	7.51	0.13
500	499	-0.2	5.00	4.99	-0.20
250	249	-0.4	2.50	2.50	0.00
0	-1	N/A	0.00	0.01	N/A

Note: Calibrator Readings are used as the standard in error calculations.

Certified By: G. Logan Date: 6/27/2023

End of Appendix Section

APPENDIX E: RAW DATA

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Spectrum	Date	Time	Acetaldehyd										Formalde		H2O%	N2O	NO high	NO2 high	Propane	Propylene		SULFUR		ETO		Temp	Pressure (Atm)
			150c	ACETYLENE		150C	CH4 %	150C span	150c	Ethylene	150c	Formic	150C	High						150C	RIDE	150C span	150C Low	4	(C)		
14799_0011488KG.LAB	1/11/2024	8:07:16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150.5871	1.0258 New BackGround	
14799_001149.LAB	1/11/2024	8:07:33	-0.197973	0.017051	0.00917	0.012669	-0.001201	-0.11413	0.066555	-0.02658	-0.01831	-0.00079	0.017994	-0.01034	0.789767	0.120548	7.948919	0.000449	0.869251	150.5886	1.025976						
14799_001150.LAB	1/11/2024	8:07:42	-0.022771	-0.065416	0.039593	0.007224	0.000373	-0.0907	-0.05674	-0.09699	-0.00052	0.003089	-0.04212	0.055146	-0.5503	0.210292	2.891773	-0.002847	-0.082524	150.591	1.025818						
14799_001151.LAB	1/11/2024	8:07:51	-0.031387	-0.071995	0.013913	-0.00042	0.000219	-0.14809	0.001057	-0.10173	-0.00126	-0.002553	0.018218	0.005546	0.023726	0.147493	-11.3648	0.000081	0.643894	150.6023	1.025818						
14799_001152.LAB	1/11/2024	8:08:01	0.024656	-0.069192	-0.08823	0.002085	-0.000289	-0.12395	0.070386	0.1044	-0.00057	0.001006	0.016351	-0.11275	0.143652	0.076053	-5.84257	0.000367	0.527705	150.591	1.025782						
14799_001153.LAB	1/11/2024	8:08:10	0.016644	0.170993	-0.01984	0.013626	-0.001038	-0.03056	0.018788	-0.05702	-0.00908	-0.002062	0.030532	-0.48658	0.158814	-0.18404	5.598868	-0.000681	0.344946	150.5458	1.025604						
14799_001154.LAB	1/11/2024	8:08:20	0.117516	0.050444	0.002982	-0.00363	-0.000865	-0.07403	0.071084	-0.04246	0.080898	-0.003898	-0.01969	-0.17713	0.430256	-0.25352	-6.20089	-0.0017	-0.315139	150.5345	1.025818						
14799_001155.LAB	1/11/2024	8:08:29	-0.067608	-0.045911	-0.06944	0.004327	-0.000315	-0.10335	0.077112	-0.03958	0.011262	-0.004023	-0.00477	-0.03354	-0.22228	-0.04353	5.828316	0.001146	-0.077794	150.6023	1.026103						
14799_001156.LAB	1/11/2024	8:08:39	-0.050375	0.066046	-0.07404	0.004279	0.000263	0.086674	0.015252	0.068525	-0.00315	0.000453	-0.00606	0.098327	-0.14819	-0.05244	7.50532	0.003172	-0.113213	150.5684	1.025889						
14799_001157.LAB	1/11/2024	8:08:48	-0.110337	0.021543	-0.01703	-0.00145	0.000923	0.102784	-0.01916	-0.01418	-0.00664	-0.0011	0.032831	0.099573	-0.37001	-0.0738	7.407702	-0.002589	0.134544	150.6023	1.025711						
14799_001158.LAB	1/11/2024	8:08:58	0.021622	0.013093	0.047063	-0.01397	-0.000941	-0.19201	0.039515	-0.07044	0.007402	-0.002143	-0.03746	-0.15422	0.525577	0.037691	11.49199	0.001377	-0.058096	150.6148	1.026003						
14799_001159.LAB	1/11/2024	8:09:08	-0.180279	-0.019782	-0.05074	0.004002	-0.000003	-0.06211	-0.02913	0.002394	0.040948	-0.000717	0.019269	-0.29963	-0.33087	0.325771	7.666015	-0.000622	0.272442	150.6249	1.026269						
14799_001160.LAB	1/11/2024	8:09:17	-0.052468	0.010592	0.001074	0.01505	-0.000316	0.045254	-0.05149	0.001984	0.042723	0.002227	0.053762	-0.15979	0.658381	0.179446	-1.95819	0.000374	0.159692	150.5741	1.026132						
14799_001161.LAB	1/11/2024	8:09:27	0.086824	0.014466	0.073441	-0.01098	-0.000098	-0.02156	0.008551	0.006293	-0.03541	-0.00313	-0.05022	-0.20627	0.187807	-0.20815	-1.29645	-0.000817	-0.175744	150.6023	1.026068						
14799_001162.LAB	1/11/2024	8:09:36	-0.005974	-0.102178	-0.0334	0.000478	0.000275	-0.13303	0.0583	0.033267	-0.00029	-0.003002	0.020928	-0.00997	1.415827	0.208678	14.55598	0.00044	-0.420005	150.6136	1.026103						
14799_001163.LAB	1/11/2024	8:09:46	0.064664	-0.019806	-0.0202	-0.00243	0.000002	-0.1407	-0.00349	0.024394	-0.01498	-0.003827	-0.00469	-0.00792	0.113307	-0.04078	-4.41783	0.000406	0.349013	150.591	1.025889						
14799_001164.LAB	1/11/2024	8:09:55	0.068249	0.02618	0.135476	0.014847	0.000416	-0.11475	-0.08725	0.016549	-0.04894	0.000529	0.010542	-0.18208	0.050316	0.361692	-3.23427	0.002622	-0.332695	150.6362	1.026496						
14799_001165.LAB	1/11/2024	8:10:04	0.020188	0.033045	0.025456	0.003235	0.000353	-0.01014	0.049117	-0.08127	0.013524	0.006236	0.047247	0.120059	0.357134	-0.15407	1.726312	-0.000006	-0.628044	150.6136	1.026389						
14799_001166.LAB	1/11/2024	8:10:14	-0.052432	-0.072441	0.01127	-0.00716	0.000035	-0.07609	0.026343	-0.04347	-0.01241	-0.005223	-0.00105	-0.06414	-0.06995	0.071182	4.548376	-0.002082	-0.213161	150.591	1.003826						
14799_001167.LAB	1/11/2024	8:10:23	0.030777	-0.064806	0.039454	-0.0123	0.000753	-0.09438	0.012374	-0.13674	-0.04629	0.001419	0.003936	0.113384	0.418527	0.024194	5.033713	-0.001108	0.072734	150.6589	1.003397						
14799_001168.LAB	1/11/2024	8:10:33	-0.118205	0.014453	-0.02794	-0.00142	0.000727	-0.02856	-0.02535	-0.02113	0.001971	0.002025	0.029134	0.010503	-0.12741	0.160186	7.487102	-0.000155	-0.184332	150.6589	1.003469						
14799_001169.LAB	1/11/2024	8:10:43	-0.16393	0.031453	-0.05152	0.00273	-0.000412	-0.17293	-0.00092	-0.05981	0.0573	-0.003599	-0.05641	-0.1666	0.420944	0.395226	2.365092	0.00093	0.566587	150.6702	1.003029						
14799_001170.LAB	1/11/2024	8:10:52	-0.015465	0.129527	-0.07848	-0.00553	0.000263	-0.03637	0.061516	-0.1082	0.065183	0.000938	-0.03579	-0.05088	-0.15992	0.285762	1.357537	0.000899	0.021385	150.6815	1.003611						
14799_001171.LAB	1/11/2024	8:11:02	-0.033772	-0.003117	-0.02289	0.011644	0.000645	-0.00264	-0.05448	0.034464	0.006178	0.002402	-0.02138	-0.12788	0.758512	-0.14469	9.821975	0.002293	-0.098329	150.686	1.003126						
14799_001172.LAB	1/11/2024	8:11:11	-0.042775	0.038971	0.13215	0.001869	0.000382	0.090694	-0.01141	0.00087	-0.03253	0.005176	-0.03235	0.07417	0.677617	0.07681	7.232181	-0.000469	0.001415	150.7041	1.00329						
14799_001173.LAB	1/11/2024	8:11:20	0.000502	-0.125859	0.054465	-0.00682	0.000147	-0.04977	-0.01878	-0.14097	-0.06177	0.003067	-0.0229	0.109088	-0.50207	0.031845	-0.10534	-0.000493	-0.225025	150.7394	1.003656						
14799_001174.LAB	1/11/2024	8:11:30	-0.118852	0.096186	-0.02963	-0.00076	0.000989	-0.11638	-0.01378	-0.07826	-0.02044	0.002943	-0.02787	0.177803	0.105464	0.211141	17.42957	0.000836	-0.181156	150.7877	1.003158						
14799_001175.LAB	1/11/2024	8:11:40	-0.103813	-0.05066	-0.1343	0.000254	0.001201	-0.08944	0.022823	0.020133	0.014066	-0.006829	0.028232	0.0744	-0.12737	0.460424	1.251086	-0.0034	-0.278978	150.6631	1.003294						
14799_001176.LAB	1/11/2024	8:11:50	-0.190792	0.108263	-0.05031	0.000536	0.000109	-0.03626	-0.07707	0.122836	-0.02742	0.003913	0.059895	0.092292	0.239736	-0.09805	2.807462	0.001529	-0.847778	150.7572	1.003511						
14799_001177.LAB	1/11/2024	8:11:59	-0.079694	0.087586	-0.00099	0.003811	-0.00014	-0.15179	0.021495	-0.02331	0.004665	-0.003143	0.01877	0.157804	0.454713	-0.08813	-7.64875	0.000494	-0.041175	150.7267	1.003326						
14799_001178.LAB	1/11/2024	8:12:08	-0.262357	0.06294	-0.00491	-0.00331	0.000445	-0.04837	0.006188	0.035397	-0.07656	-0.003049	0.069886	-0.03261	0.199889	0.194989	-0.88083	0.000707	-0.241744	150.7719	1.003147						
14799_001179.LAB	1/11/2024	8:12:18	-0.104879	0.098991	0.088544	0.006794	-0.000892	-0.15924	0.011738	0.014898	0.010113	0.005188	-0.04872	0.03975	-0.44093	-0.33488	10.33422	0.000652	-0.161502	150.8398	1.002897						
14799_001180.LAB	1/11/2024	8:12:27	-0.130809	-0.158812	0.043388	0.006068	0.00018	0.024136	0.062408	0.042379	0.012013	0.008891	-0.01495	0.218083	-0.36786	-0.19158	3.677721	-0.001904	-0.177478	150.86							

14799_001210.LAB	1/11/2024	8:17:12	-0.076105	-0.024002	0.013088	-0.00303	11.942881	0.005402	0.087327	0.100458	0.17816	0.03676	-0.70896	-0.10099	1.129799	0.187266	10.69085	-0.000926	0.862214	150.8511	1.019382
14799_001211.LAB	1/11/2024	8:17:22	0.035657	0.039264	-0.10926	0.002167	12.025129	-0.13689	0.037961	0.046056	0.110748	0.037995	-0.7185	-0.06276	1.516434	-0.05648	-6.39375	-0.001997	0.521687	150.8624	1.019641
14799_001212.LAB	1/11/2024	8:17:32	-0.054215	0.167377	-0.08223	-0.00945	12.114909	-0.14404	0.056128	-0.12679	0.138305	0.028166	-0.72585	0.148458	0.866501	-0.1089	-1.77321	-0.000186	0.39645	150.9754	1.019856
14799_001213.LAB	1/11/2024	8:17:41	-0.087645	0.096068	0.108676	0.004788	11.992631	-0.0656	0.118827	0.028611	0.129494	0.023738	-0.71657	-0.20586	1.018869	-0.32912	2.364454	0.000578	0.415626	150.8284	1.019356
14799_001214.LAB	1/11/2024	8:17:50	-0.074011	0.07172	0.015267	-0.00103	12.003569	-0.16981	0.242924	-0.03095	0.170132	0.029298	-0.70838	0.080541	0.955492	0.011008	6.808786	-0.002819	0.644435	150.8737	1.019392
14799_001215.LAB	1/11/2024	8:18:00	-0.066808	0.134748	-0.07674	-0.00206	11.980441	-0.04377	0.124559	0.022323	0.187265	0.031803	-0.74462	-0.05769	-0.02371	0.242893	7.650708	-0.004394	0.209229	150.8963	1.019427
14799_001216.LAB	1/11/2024	8:18:09	-0.245479	-0.095055	-0.03529	-0.00815	11.988117	-0.03993	0.046321	0.013379	0.162378	0.026249	-0.71955	-0.11784	0.930161	0.036456	9.658613	-0.004585	0.047023	150.885	1.019534
14799_001217.LAB	1/11/2024	8:18:19	-0.198347	-0.076637	-0.24431	-0.00843	11.929226	-0.05107	0.094003	0.100114	0.174638	0.024072	-0.7437	-0.08194	0.551923	0.565184	6.604961	-0.002373	0.506576	150.7832	1.019427
14799_001218.LAB	1/11/2024	8:18:29	-0.161187	0.06408	0.012485	-0.01369	11.925726	-0.21084	0.041687	-0.00101	0.160572	0.027301	-0.71193	-0.13701	0.507797	0.045283	1.131816	-0.000098	0.664838	150.7572	1.019224
14799_001219.LAB	1/11/2024	8:18:38	-0.256093	0.004458	-0.11361	-0.00696	12.004276	-0.24505	0.121575	-0.06766	0.140299	0.031204	-0.73157	-0.17038	0.599257	0.40212	4.259813	-0.002882	0.581626	150.7394	1.019601
14799_001220.LAB	1/11/2024	8:18:47	-0.298635	-0.03048	0.087494	-0.00517	12.012945	-0.13176	0.06849	-0.01871	0.173068	0.027224	-0.70316	-0.26174	0.732222	-0.05349	7.193662	-0.002868	0.015371	150.6702	1.019392
14799_001221.LAB	1/11/2024	8:18:57	-0.084777	-0.117788	0.043273	-0.00206	12.014346	-0.07243	0.00986	0.02784	0.121652	0.029817	-0.75605	-0.22797	0.187167	0.070288	2.394421	-0.001174	0.824106	150.7369	1.019256
14799_001222.LAB	1/11/2024	8:19:07	-0.195609	-0.04097	-0.18159	-0.00145	11.999118	-0.19862	0.104997	-0.09309	0.156716	0.017719	-0.74402	-0.14976	0.187754	0.390511	-6.13226	-0.003079	0.793026	150.7267	1.018798
14799_001223.LAB	1/11/2024	8:19:16	-0.129026	0.004157	-0.26649	-0.00034	11.962234	-0.09571	0.074229	-0.01704	0.194674	0.031253	-0.72458	-0.18247	1.863517	0.101389	1.584262	-0.001505	0.145041	150.8488	1.019127
14799_001224.LAB	1/11/2024	8:19:26	-0.120393	-0.015761	-0.14491	-0.01473	12.055899	-0.17803	0.020797	-0.07297	0.134259	0.022886	-0.71107	0.008233	1.060019	0.151749	8.929083	-0.003101	0.198698	150.738	1.019284
14799_001225.LAB	1/11/2024	8:19:35	-0.030932	0.084613	0.1112	0.003547	11.955013	-0.00942	0.089066	-0.16913	0.208034	0.020524	-0.77329	-0.11943	0.737351	-0.3397	5.104541	-0.003763	-0.119112	150.7719	1.019356
14799_001226.LAB	1/11/2024	8:19:45	-0.306708	0.065055	-0.06492	-0.01225	12.0168	-0.10942	0.078424	0.059404	0.150855	0.020503	-0.72526	0.012194	0.400687	0.215593	-1.571	-0.003335	0.2519	150.738	1.01907
14799_001227.LAB	1/11/2024	8:19:54	-0.298233	0.022073	-0.03773	-0.00147	12.033455	-0.08821	0.09995	0.022694	0.142595	0.028856	-0.7501	0.008671	0.18614	-0.06667	-1.65132	-0.002222	0.259357	150.7041	1.019106
Averages							11.9917307														
14799_001228.LAB	1/11/2024	8:20:04	-0.141469	0.080607	-0.00706	-0.01008	12.095125	-0.08574	0.009817	0.05697	0.124146	0.01498	-0.65826	-0.03023	-0.37706	-0.2027	-0.07018	-0.001336	0.135953	150.7267	1.019142
14799_001229.LAB	1/11/2024	8:20:13	-0.248922	0.135181	0.018162	-0.00626	12.04637	-0.0592	0.082533	-0.06603	0.123937	0.026317	-0.79714	-0.0396	0.773348	-0.12229	7.501893	-0.003875	0.060848	150.6702	1.019427
14799_001230.LAB	1/11/2024	8:20:23	-0.021184	-0.025011	-0.01905	-0.00887	11.998931	-0.1165	0.064169	0.063635	0.210241	0.030176	-0.74016	-0.16559	0.503435	0.198196	-0.83553	-0.00447	0.496425	150.7267	1.019177
14799_001231.LAB	1/11/2024	8:20:32	-0.136088	0.049549	-0.00941	-0.00805	12.026244	-0.21917	0.096145	-0.08796	0.117002	0.016893	-0.70232	-0.16088	0.686906	-0.05113	-5.11122	-0.003041	0.471199	150.6962	1.019095
14799_001232.LAB	1/11/2024	8:20:42	0.015666	0.000153	-0.05797	-0.00956	11.67111	-0.01554	0.105887	0.000148	0.122082	0.042822	-0.70157	0.034605	0.668401	0.202154	6.010414	-0.001824	0.243664	150.738	1.01932
14799_001233.LAB	1/11/2024	8:20:51	0.15193	0.152893	0.196488	0.006301	1.931271	-0.04448	0.498347	0.16864	0.302346	0.22697	0.21015	0.700292	3.80408	0.864492	0.771408	-0.016026	-0.267024	150.738	1.019499
14799_001234.LAB	1/11/2024	8:21:01	0.033247	0.078008	0.369454	0.004869	0.798475	-0.01746	0.603088	0.190822	0.163118	3.194654	0.361879	0.104262	3.656093	0.644379	-24.0697	-0.016192	-0.499526	150.7267	1.019356
14799_001235.LAB	1/11/2024	8:21:10	0.386605	0.364442	0.314424	0.013218	0.717273	-0.06264	0.632565	0.181191	0.096216	3.290845	0.390143	0.594596	0.4017659	0.649923	-37.243	-0.014134	0.03872	150.6362	1.019356
14799_001236.LAB	1/11/2024	8:21:20	0.420425	0.028365	0.309538	0.003241	0.699625	0.043432	0.589205	0.120845	0.059817	3.302543	0.305878	0.388072	4.057425	0.10143	-20.4833	-0.008486	0.409142	150.6815	1.019427
14799_001237.LAB	1/11/2024	8:21:29	0.284131	0.105988	0.356218	-0.00114	0.694609	-0.09177	0.59071	0.209498	0.025682	3.307048	0.382495	0.572038	3.957214	0.706708	-20.6642	-0.010638	0.769204	150.7041	1.019356
14799_001238.LAB	1/11/2024	8:21:39	0.402524	0.155876	0.16297	0.009366	0.699182	-0.15937	0.513543	0.174339	0.029278	3.319665	0.37716	0.717334	4.341488	0.870304	-17.1812	-0.008963	0.197288	150.6589	1.019499
14799_001239.LAB	1/11/2024	8:21:48	0.314604	0.188866	0.30255	-0.00516	0.698831	-0.06849	0.525938	0.024512	-0.02069	3.36043	0.372607	0.548454	4.108104	0.394921	-15.3639	-0.007189	0.791177	150.6589	1.019499
14799_001240.LAB	1/11/2024	8:21:58	0.012326	0.180073	-0.2051	-0.00515	1.799996	-0.17869	2.010693	0.197665	0.106682	1.830518	0.04157	0.589673	3.191088	1.130183	4.178447	1.495293	24.53975	150.6362	1.019463
14799_001241.LAB	1/11/2024	8:22:07	-0.322666	0.019349	0.222655	-0.00667	0.20024	-0.04263	3.61749	-0.01957	-0.01066	0.203355	-0.0151	0.282675	-1.6124	1.100965	20.26458	4.869608	91.224669	150.6362	1.019677
14799_001242.LAB	1/11/2024	8:22:17	-0.55311	-0.056906	0.30134	0.000615	0.054982	0.168558	3.490696	-0.01284	-0.06012	0.082717	-0.0451	0.190217	-1.10706	0.675802	13.39009	4.991572	96.45648	150.6702	1.019534
14799_001243.LAB	1/11/2024	8:22:26	-0.666323	0.008608	0.182139	0.009694	0.042121	0.093485	3.718254	0.024196	-0.05044	0.06608	0.013311	0.240709	-1.73047	1.092975	3.837047	4.999967	97.983017	150.6362	1.019499
14799_001244.LAB	1/11/2024	8:22:36	-0.34764	0.131095	0.314207	-0.01807	0.037879	0.089337	3.63541	-0.0128	-0.09165	0.047108	-0.04399	0.213249	-1.60554	1.011987	9.192107	5.015186	98.943284	150.6589	1.019392
14799_001245.LAB	1/11/2024	8:22:45	-0.453872	-0.032649	0.291058	0.001264	0.032968	0.205884	3.652444	0.027439	-0.09743	0.047477	-0.04601	0.262266	-1.76533	0.607949	9.604487	5.013271	99.254131	150.6555	1.019481
14799_001246.LAB	1/11/2024	8:22:55	-0.535313	0.114381	-0.00295	0.008062	0.030367	-0.082771	3.675999	0.033329	-0.0035	0.039787	-0.04694	0.171375	-1.59688	1.245599	10.2846	5.014852	99.950311	150.6476	1.019035
14799_001247.LAB	1/11/2024	8:23:05	-0.466555	0.023246	0.198119	-0.00496	0.027336	0.05843	3.79344	0.059986	-0.07317	0.036944	0.012095	0.149151	-1.41785	0.792396	10.33079	5.018606	100.90144	150.6589	1.019392
14799_001248.LAB	1/11/2024	8:23:14	-0.676308	0.057543	0.172003	-0.00689	0.027004	0.128913	3.624084	0.103977	-0.06646	0.03004	-0.04331	0.436853	-1.34156	1.211667	8.152154	5.023136	100.68574	150.6476	1.019499
14799_001249.LAB	1/11/2024	8:23:23	-0.659886	0.059637	0.089168	-0.0151	0.023681	0.221786	3.686777	0.067045	-0.02398	0.036409	0.030155	0.289126	-2.42061	1.067722	6.020627	5.02	100.41456	150.6702	1.018999
14799_001250.LAB	1/11/2024	8:23:33	-0.454869	-0.057286	0.088976	0.0054	0.022145	0.143234	3.746636	0.013974	-0.06624	0.032534	-0.00993	0.217832	-2.84139	0.945264	22.18543	5.018151	100.54572	150.7041	1.019213
14799_001251.LAB	1/11/2024	8:23:42	-0.664625	0.062475	0.165622	0.006976	0.021181	0.179482	3.6744	-0.00785	-0.04726	0.029232	-0.02267	0.601656	-2.1584	0.652471	14.81031	5.018506	101.17299	150.6249	1.01932
14799_001																					

14799_001274.LAB	1/11/2024	8:27:21	-0.572357	0.097531	0.26884	-0.00184	0.007822	0.17408	3.680278	0.041008	0.001816	0.025136	-0.02268	0.224688	-2.76592	0.606575	-5.22278	5.02405	103.26819	150.6249	1.018892
14799_001275.LAB	1/11/2024	8:27:31	-0.377206	0.177555	0.188417	0.004673	0.007222	0.164053	3.806333	-0.00499	-0.10703	0.023928	0.047508	0.351164	-1.83341	0.937989	20.18775	5.022321	104.08758	150.6589	1.019213
14799_001276.LAB	1/11/2024	8:27:40	-0.547178	0.016448	0.241212	-0.00911	0.007365	0.037358	3.735232	0.091549	-0.10898	0.016335	0.007909	0.382812	-1.88746	0.41899	6.479481	5.024487	103.14665	150.6249	1.019224
14799_001277.LAB	1/11/2024	8:27:50	-0.538541	-0.021436	0.195964	0.001096	0.00706	0.2058	3.695528	0.017131	-0.08907	0.024679	0.038338	0.32233	-1.9236	0.857641	10.05229	5.027088	103.33106	150.6362	1.019106
14799_001278.LAB	1/11/2024	8:27:59	-0.997604	0.170963	1.392219	-0.0098	0.125342	0.275742	3.540627	0.028438	0.040698	0.402349	0.087732	0.514918	-2.22843	2.126365	7.88611	3.736752	111.81006	150.6377	1.018718
14799_001279.LAB	1/11/2024	8:28:09	-0.452642	0.193955	2.361192	-0.00103	0.56664	0.129838	0.907122	0.350095	0.242925	2.846035	0.356885	0.900093	3.574332	1.80233	2.340795	0.239891	33.144334	150.6249	1.018999
14799_001280.LAB	1/11/2024	8:28:18	0.216516	0.24692	1.260464	0.002244	0.594265	-0.06922	0.59253	0.236354	0.012371	0.252345	0.347931	1.015613	4.308277	0.625599	-16.6002	0.014985	5.468123	150.5842	1.018838
14799_001281.LAB	1/11/2024	8:28:28	0.12626	0.098627	0.807773	0.008699	0.595926	0.104699	0.600769	0.161215	-0.03811	0.258043	0.381906	0.96099	3.237106	0.533544	-15.7591	0.015791	2.622539	150.6136	1.018892
14799_001282.LAB	1/11/2024	8:28:37	0.357149	0.202147	0.619453	-0.0041	0.597457	-0.14722	0.554783	0.184453	-0.02313	0.274118	0.379592	0.833029	3.90971	0.739836	-16.9378	0.028852	1.897336	150.6023	1.018892
14799_001283.LAB	1/11/2024	8:28:47	0.58931	0.118799	0.613052	-0.00139	0.606649	-0.10246	0.6114	0.012768	-0.02079	3.294339	0.332237	0.818129	3.601152	0.307134	-13.2705	0.026126	2.011387	150.6136	1.019392
14799_001284.LAB	1/11/2024	8:28:56	0.304992	0.141064	0.62871	-0.00175	0.60117	-0.23053	0.592678	0.146208	-0.06819	3.277793	0.385895	0.935197	0.409034	0.558107	-28.5817	0.02551	1.349068	150.6249	1.018499
14799_001285.LAB	1/11/2024	8:29:06	0.220818	0.261634	0.54902	0.014105	0.597971	-0.08969	0.552756	0.119997	-0.03153	3.27325	0.330056	1.064004	4.666746	0.415778	-18.5142	0.026234	1.354454	150.6136	1.018999
14799_001286.LAB	1/11/2024	8:29:15	0.357131	0.292745	0.567423	0.005202	0.610996	-0.27808	0.571789	0.207511	-0.05296	3.29848	0.370635	0.734305	4.245293	0.295603	-16.6715	0.025851	1.380649	150.6136	1.018677
14799_001287.LAB	1/11/2024	8:29:25	0.422079	0.290223	0.556761	-0.01532	0.618993	-0.14742	0.431396	0.279886	-0.03864	3.330293	0.347058	0.996561	3.937937	0.401354	-22.8189	0.005537	0.608024	150.6046	1.01871
14799_001288.LAB	1/11/2024	8:29:34	0.220802	0.093131	0.61185	-0.00706	0.618875	-0.26797	0.422335	0.180605	-0.06105	3.351849	0.404998	0.914761	6.02833	-0.11562	-24.4552	0.001033	0.597177	150.6136	1.018535
14799_001289.LAB	1/11/2024	8:29:44	0.63516	-0.024988	0.591129	0.015647	0.61966	-0.14638	0.488738	0.239535	0.030065	3.361824	0.378182	1.046006	3.992755	-0.36592	-28.5667	-0.001986	0.889721	150.6249	1.018437
14799_001290.LAB	1/11/2024	8:29:54	0.474521	0.143532	0.497818	0.001861	0.624989	-0.07428	0.487352	0.199335	-0.08868	3.368046	0.340066	0.977929	4.114792	-0.07634	-19.728	-0.005224	0.514517	150.6249	1.018581
14799_001291.LAB	1/11/2024	8:30:03	0.50613	0.217605	0.470853	-0.00649	0.628055	-0.12987	0.516681	0.1834	-0.00667	3.382073	0.331856	1.161076	4.585024	-0.11968	-13.7651	-0.004149	0.44137	150.6476	1.018535 Native
14799_001292.LAB	1/11/2024	8:30:12	0.543517	0.210912	0.578436	0.00923	0.623442	-0.16971	0.484575	0.149082	0.009572	3.410103	0.439827	0.887301	4.298506	-0.41778	-10.944	-0.004614	0.191983	150.6023	1.018713
14799_001293.LAB	1/11/2024	8:30:22	0.454387	0.061687	0.636732	0.006995	0.634953	-0.0152	0.434822	0.23634	-0.06633	3.391868	0.356426	0.930703	3.741918	-0.38664	-28.9857	-0.000257	-0.007902	150.6136	1.018927
14799_001294.LAB	1/11/2024	8:30:31	0.361395	0.03418	0.538547	-0.00591	0.63451	-0.10592	0.540251	0.197387	-0.05454	3.399797	0.408986	1.050012	3.91839	-0.28599	-31.0125	-0.00461	0.492154	150.6136	1.018356
14799_001295.LAB	1/11/2024	8:30:41	0.671155	0.208453	0.561905	0.006449	0.629901	-0.11006	0.49194	0.174525	-0.00517	3.397009	0.315189	1.065836	3.569507	-0.33909	-15.0616	-0.004735	0.324812	150.6249	1.018642
14799_001296.LAB	1/11/2024	8:30:51	0.382019	0.120317	0.406692	0.001918	0.632824	-0.10925	0.335657	0.282098	-0.08809	3.399057	0.405895	1.02658	4.121652	-0.05018	-14.1102	-0.002834	0.362257	150.6046	1.018292
14799_001297.LAB	1/11/2024	8:31:00	0.631075	0.068361	0.539558	0.00218	0.631153	-0.07629	0.404884	0.182721	-0.01746	3.380345	0.404519	1.017103	4.294887	-0.07936	-17.4495	-0.00516	0.275986	150.6249	1.018642
14799_001298.LAB	1/11/2024	8:31:09	0.279909	0.173661	0.538785	0.006228	0.622521	0.023619	0.552299	0.271367	0.005027	3.390199	0.367036	1.248102	4.031782	-0.41385	-9.47964	-0.003294	-0.141597	150.5684	1.018535
14799_001299.LAB	1/11/2024	8:31:19	0.468778	0.159401	0.361528	0.012722	0.618907	-0.06885	0.541387	0.102909	0.011437	3.402022	0.374372	1.101856	3.800945	-0.06472	-6.9233	-0.005853	0.476558	150.6249	1.0192
14799_001300.LAB	1/11/2024	8:31:28	0.462206	0.185043	0.488511	0.009185	0.606781	-0.04798	0.420857	0.199418	-0.01817	3.382692	0.356206	0.893053	3.440515	-0.2444	-24.2728	-0.004018	-0.045777	150.6046	1.019095
14799_001301.LAB	1/11/2024	8:31:38	0.698035	0.126357	0.656547	-0.00243	0.598275	-0.12309	0.431939	0.1499	-0.04077	3.381537	0.4095	0.818518	4.007068	-0.44063	-26.6921	-0.004439	0.408787	150.6249	1.018517
Averages																	-0.003997	0.2526028			
14799_001302.LAB	1/11/2024	8:31:47	0.41611	0.025507	0.584183	0.013495	0.602897	0.045214	0.569672	0.156749	0.024532	3.38724	0.360935	1.067192	4.189457	-0.36452	-25.1468	-0.005708	0.025166	150.6249	1.018499
14799_001303.LAB	1/11/2024	8:31:57	0.389368	0.136954	0.551544	0.0037	0.608001	-0.06446	0.482112	0.054533	-0.04643	3.394123	0.334368	0.955407	3.630132	-0.02854	-11.5149	-0.004594	0.273105	150.6148	1.018774
14799_001304.LAB	1/11/2024	8:32:06	0.346779	0.119154	0.507841	-0.00885	0.608757	-0.11608	0.531738	0.121299	-0.04434	3.399856	0.309614	0.851093	3.413295	-0.04228	-24.5234	-0.004249	0.530228	150.6249	1.018856
14799_001305.LAB	1/11/2024	8:32:16	0.575236	0.188266	0.503583	0.012439	0.605715	-0.08177	0.525504	0.160769	-0.06573	3.392978	0.363593	0.867785	3.750042	-0.48806	-24.6995	-0.005842	0.475851	150.6249	1.017963
14799_001306.LAB	1/11/2024	8:32:25	0.457009	0.05497	0.502125	0.000383	0.604154	-0.05048	0.494673	0.114111	-0.06087	3.393314	0.391033	1.059061	4.057046	-0.07965	-18.3221	-0.005847	0.207572	150.6362	1.018892
14799_001307.LAB	1/11/2024	8:32:35	0.553737	0.228318	0.475342	-0.00081	0.608841	-0.13261	0.501271	0.191131	-0.04725	3.398357	0.363788	0.955032	3.890266	-0.29199	-20.4405	-0.004397	0.694086	150.6249	1.018463
14799_001308.LAB	1/11/2024	8:32:44	0.433595	0.172618	0.395812	-0.01532	0.598933	-0.08505	0.540494	0.140437	-0.01546	3.398308	0.290635	0.985534	3.830385	0.049545	-20.5813	-0.006501	0.513118	150.6702	1.018463
14799_001309.LAB	1/11/2024	8:32:54	0.34639	0.154025	0.479612	0.001763	0.597376	-0.05939	0.569868	0.092898	-0.02669	3.380051	0.321939	1.000562	3.593439	-0.17758	-29.9393	-0.006356	0.247593	150.6351	1.018902
14799_001310.LAB	1/11/2024	8:33:04	0.492059	0.037666	0.383008	0.005523	0.605456	-0.15528	0.569397	0.190611	0.032069	3.379307	0.356204	1.117724	4.153001	0.172744	-12.8983	-0.005731	0.198788	150.6249	1.018927
14799_001311.LAB	1/11/2024	8:33:13	0.501461	0.187261	0.574089	0.007285	0.603121	-0.06549	0.486464	0.055899	-0.04304	3.386695	0.335232	0.908769	4.439487	-0.31328	-5.41908	-0.003179	0.138963	150.6589	1.018963
14799_001312.LAB	1/11/2024	8:33:23	0.457487	0.048983	0.603383	-0.01301	0.606808	0.013982	0.647645	0.225252	-0.07726	3.394035	0.356359	0.993092	3.56353	-0.51657	-16.2559	-0.006591	0.149762	150.6249	1.019142
14799_001313.LAB	1/11/2024	8:33:32	0.444548	0.053044	0.457581	0.004207	0.606859	-0.0806	0.504677	0.112232	-0.05791	3.379968	0.363384	0.756696	4.261553	-0.44691	-12.6759	-0.00286	0.498614	150.6136	1.018392
14799_001314.LAB	1/11/2024	8:33:42	0.343456	0.156262	0.414847	0.008731	0.599138	-0.16408	0.590223	0.200574	-0.05999	3.375133	0.380149	0.949966	3.590202	-0.26539	-18.3409	-0.005421	0.10526	150.6589	1.018535
14799_001315.LAB	1/11/2024	8:33:51	0.015021	0.090273	0.215328	0.003666	0.490792	-0.04132	0.172581	0.064259	-0.09634	2.56777	0.255003	0.899282	2.307829	0.635997	-8.46428	1.368515	28.475559	150.6476	1.018463
14799_001316.LAB																					

14799_001339.LAB	1/11/2024	8:37:39	0.379421	0.186622	0.030381	-0.00533	0.543197	-0.12907	0.811136	0.091509	-0.16219	3.046182	0.313283	0.730613	4.225135	0.972206	-22.6356	0.575789	12.249108	150.6362	1.019677
14799_001340.LAB	1/11/2024	8:37:49	0.301111	0.224834	0.189381	-0.01797	0.547196	-0.19038	0.842516	0.177994	-0.14679	3.037332	0.273893	0.731538	3.902078	0.394481	-9.68022	0.548635	11.674771	150.6758	1.019834
14799_001341.LAB	1/11/2024	8:37:58	0.28468	0.255228	0.225782	0.000548	0.544885	-0.14817	0.837791	0.177829	-0.14848	3.051905	0.356828	0.93087	4.644383	0.599793	-13.436	0.546479	11.939614	150.6815	1.019606
14799_001342.LAB	1/11/2024	8:38:08	0.417599	0.230232	0.178143	0.009678	0.544202	-0.14605	0.757543	0.110497	-0.11188	3.049953	0.307854	0.812762	4.229917	0.795844	-18.3631	0.549738	11.500877	150.6631	1.022332
14799_001343.LAB	1/11/2024	8:38:18	0.158774	0.137969	0.247069	0.002329	0.552887	-0.19542	0.870585	0.054162	-0.16424	3.064125	0.318384	0.816994	3.943978	0.572114	-22.5354	0.548945	11.420666	150.686	1.021794
14799_001344.LAB	1/11/2024	8:38:27	0.255577	0.186353	0.237957	-0.00325	0.557814	-0.18996	0.821606	0.17036	-0.10058	3.084672	0.374704	0.816206	4.689627	0.619526	-17.8542	0.500083	10.546681	150.6476	1.022141
14799_001345.LAB	1/11/2024	8:38:37	0.137079	0.228507	0.439641	0.005385	0.56404	-0.06626	0.680867	0.094201	-0.08919	3.0595189	0.350088	0.826757	3.901938	0.170365	-21.3258	0.489883	10.131551	150.6815	1.022069
14799_001346.LAB	1/11/2024	8:38:46	0.077149	0.194735	0.364351	0.016878	0.560231	-0.05213	0.703639	0.252503	-0.14939	3.090841	0.336557	0.788565	4.202191	0.377169	-8.07661	0.493027	10.257887	150.6815	1.022319
14799_001347.LAB	1/11/2024	8:38:55	0.130065	0.209391	0.27248	-0.00133	0.559747	-0.15515	0.841393	0.203648	-0.08708	3.091219	0.336836	0.933277	3.808705	0.686901	-19.6266	0.493946	10.77857	150.6815	1.022355
14799_001348.LAB	1/11/2024	8:39:05	0.17025	0.062989	0.205223	-0.00797	0.561595	-0.11426	0.75375	0.099738	-0.07431	3.075068	0.353334	1.026444	3.482072	0.590173	-7.52843	0.496104	11.097599	150.6362	1.022212
14799_001349.LAB	1/11/2024	8:39:15	0.196863	0.145726	0.526913	0.000837	0.565176	-0.10313	0.69366	0.177746	-0.19287	3.099525	0.373512	0.739	2.872365	0.091406	-11.0981	0.496174	9.994662	150.7267	1.022141
14799_001350.LAB	1/11/2024	8:39:24	0.260882	0.105761	0.234332	-0.00454	0.556491	-0.03622	0.84701	0.187295	-0.18447	3.07787	0.338902	0.59741	3.619263	0.451862	-8.94997	0.493079	10.415159	150.7041	1.021891
14799_001351.LAB	1/11/2024	8:39:33	0.154836	-0.021539	0.157149	-0.00365	0.554933	-0.15075	0.852842	0.162802	-0.16422	3.087833	0.396899	0.942062	2.923335	0.644749	-21.6431	0.493598	10.363649	150.6453	1.02308
14799_001352.LAB	1/11/2024	8:39:43	0.121423	0.127014	0.193436	-0.0094	0.549285	-0.2004	0.866541	0.149402	-0.08201	3.078327	0.272634	1.021774	3.498126	0.607551	-16.3531	0.494954	10.809353	150.6589	1.022605
14799_001353.LAB	1/11/2024	8:39:53	0.279441	0.302088	0.193236	0.013763	0.548052	-0.07706	0.805931	0.129218	-0.09792	3.091317	0.379604	0.833035	4.252688	0.657309	-24.1351	0.491578	10.738492	150.6122	1.022332
14799_001354.LAB	1/11/2024	8:40:02	0.0783	0.35007	0.126101	-0.00776	0.54957	-0.14924	0.865478	0.071763	-0.15215	3.089822	0.28706	0.845221	4.238845	0.941572	-21.4618	0.493106	10.218149	150.6249	1.022218
14799_001355.LAB	1/11/2024	8:40:11	0.210139	0.283719	0.233111	-0.00182	0.551468	-0.12697	0.83162	0.168602	-0.0352	3.082399	0.28017	0.867271	2.558408	0.572204	-15.7567	0.49384	10.223814	150.6249	1.022426
14799_001356.LAB	1/11/2024	8:40:21	0.022683	0.21125	0.168622	-0.01081	0.553832	-0.21025	0.824716	0.097846	-0.19783	3.068162	0.370611	0.771388	3.54215	0.910225	-18.4269	0.496595	11.104614	150.6362	1.021855
14799_001357.LAB	1/11/2024	8:40:30	0.153159	0.23277	0.205055	-0.00327	0.552837	-0.12358	0.769497	0.183506	-0.13334	3.090848	0.363214	0.865013	3.818438	0.839236	-6.46071	0.492422	10.454101	150.6815	1.022283
14799_001358.LAB	1/11/2024	8:40:40	0.032829	0.194966	0.252324	-0.00135	0.556509	-0.111	0.757724	0.097655	-0.14873	3.105476	0.339924	0.953314	3.515532	0.473739	-10.3941	0.494443	10.826717	150.6249	1.022355
14799_001359.LAB	1/11/2024	8:40:50	0.090373	0.243136	0.409381	-0.007	0.551125	-0.22087	0.802737	0.19055	-0.18205	3.109743	0.324728	0.949873	4.703378	0.273925	-4.02303	0.495258	10.298832	150.6589	1.022248
14799_001360.LAB	1/11/2024	8:40:59	0.0956	0.19305	0.210061	0.003324	0.54665	-0.09729	0.812243	0.143289	-0.18104	3.122628	0.345796	0.777247	3.726793	0.79121	-9.02188	0.487768	10.746268	150.6815	1.022248
14799_001361.LAB	1/11/2024	8:41:08	0.051905	0.2316	0.266836	-0.00678	0.542842	-0.03256	0.873028	0.21759	-0.12826	3.128695	0.314322	0.932716	4.196527	0.331945	-16.0233	0.493059	10.646951	150.6362	1.022033
14799_001362.LAB	1/11/2024	8:41:18	0.306076	0.214189	0.317497	0.016284	0.546924	-0.09276	0.757495	0.257643	-0.13366	3.143426	0.305244	0.7719	3.162323	0.641515	-20.6231	0.492865	10.874785	150.6249	1.022218
14799_001363.LAB	1/11/2024	8:41:28	0.163093	0.182398	0.183567	-0.01076	0.551718	-0.22453	0.779566	0.210291	-0.10412	3.131241	0.283032	1.133274	3.623705	0.736436	-20.5004	0.495359	11.570404	150.6249	1.021971
14799_001364.LAB	1/11/2024	8:41:37	0.171397	0.252764	0.189241	0.006881	0.552786	-0.18782	0.703234	0.374727	-0.23036	3.148072	0.352615	0.829156	4.209894	0.583857	-25.6831	0.494998	11.039672	150.6702	1.022355
14799_001365.LAB	1/11/2024	8:41:47	0.172002	0.182515	0.126585	0.011855	0.554151	-0.18074	0.689712	0.202781	-0.21586	3.150244	0.265494	1.067663	3.424128	0.69274	-12.5859	0.494111	11.386482	150.6758	1.022051
14799_001366.LAB	1/11/2024	8:41:56	0.029559	0.242261	0.307825	-0.00558	0.544092	-0.12562	0.877335	0.201708	-0.15526	3.111776	0.32089	0.900479	3.274644	0.676734	-0.51603	0.491985	10.752297	150.6815	1.022069
14799_001367.LAB	1/11/2024	8:42:06	0.066737	0.349268	0.129909	0.013223	0.539669	-0.07907	0.850035	0.0924	-0.12717	3.088788	0.357658	0.846136	3.338765	0.435035	-20.9434	0.494728	10.605189	150.6815	1.022569
14799_001368.LAB	1/11/2024	8:42:15	0.057872	0.239685	0.098243	-0.00563	0.538129	-0.05152	0.830101	0.13354	-0.12387	3.09091	0.288891	0.93721	3.216283	0.824794	-8.44182	0.495299	10.501948	150.7154	1.022569
14799_001369.LAB	1/11/2024	8:42:25	0.065867	0.310696	0.373783	0.004379	0.538963	-0.03198	0.823672	0.061649	-0.10432	3.114309	0.31144	0.866781	3.159328	0.629617	-13.5308	0.486498	10.40686	150.6589	1.022533
14799_001370.LAB	1/11/2024	8:42:34	0.038244	0.232851	0.304417	0.018114	0.537374	-0.25252	0.987966	0.131083	-0.12836	3.114813	0.344163	1.047005	3.439649	0.775383	-16.7701	0.493198	10.79464	150.6962	1.022308
14799_001371.LAB	1/11/2024	8:42:44	0.085185	0.382729	0.138947	0.009274	0.535733	-0.17795	0.792894	0.202674	-0.13269	3.105379	0.338806	1.042967	3.801971	0.739902	-13.8251	0.488926	10.523828	150.7267	1.022248
14799_001372.LAB	1/11/2024	8:42:53	0.182181	0.321079	0.20555	0.010813	0.539322	-0.12744	0.90096	0.103087	-0.10342	3.090195	0.319484	0.914591	4.069041	0.642966	-19.082	0.490918	10.269225	150.6476	1.022141
14799_001373.LAB	1/11/2024	8:43:03	0.222001	0.194212	0.213005	0.003019	0.538858	-0.14815	0.951658	0.136496	-0.14576	3.059488	0.299924	0.792515	3.612907	0.776546	-13.8028	0.491404	11.151448	150.6589	1.022355
14799_001374.LAB	1/11/2024	8:43:12	0.458251	0.167243	0.20545	0.001082	0.538361	-0.17999	0.900772	0.31803	-0.19853	3.058898	0.344113	0.690822	3.398113	0.90616	-19.057	0.497973	10.847611	150.7154	1.022533
14799_001375.LAB	1/11/2024	8:43:22	0.32219	0.206251	0.147944	0.001747	0.537507	-0.14782	0.870189	0.138373	-0.13816	3.077602	0.313975	0.984559	3.03201	1.044301	-3.68958	0.492024	10.375998	150.6476	1.022248
14799_001376.LAB	1/11/2024	8:43:31	0.327112	0.294372	0.226988	-0.0029	0.533367	-0.04983	0.838308	0.171237	-0.18613	3.076083	0.363918	0.943909	3.992395	0.874999	-18.5276	0.493284	10.84671	150.6476	1.022605
14799_001377.LAB	1/11/2024	8:43:41	0.225652	0.293989	0.20574	-0.00058	0.533438	-0.0527	0.828639	0.237937	-0.13674	3.084262	0.311991	0.932661	2.329998	0.410612	-11.3451	0.499347	11.208218	150.6702	1.021712
14799_001378.LAB	1/11/2024	8:43:50	0.205355	0.225121	0.155251	0.004541	0.52772	-0.19141	0.819495	0.177406	-0.17422	3.076928	0.32736	0.874308	4.18123	0.695814	-15.7451	0.49407	10.695674	150.6589	1.022283
14799_001379.LAB	1/11/2024	8:44:00	0.121602	0.306799	0.195169	-0.00598	0.537479	-0.12384	0.812576	0.191891	-0.15768	3.078807	0.312819	0.747265	4.216222	0.609361	-8.98069	0.496956	10.719562	150.6136	1.02239
14799_001380.LAB	1/11/2024	8:44:09	0.291856	0.213391	0.105276	0.000289	0.547138	-0.16123	0.791473	0.170006	-0.10761	3.0595282	0.330042	0.722897	4.010205	0.857503	-12.6684	0.491001	11.362841	150.6453	1.021955
14799_001381.LAB	1/11/2024	8:44:19	-0.025333																		

14799_001404.LAB	1/11/2024	8:47:57	0.573122	0.247188	0.393989	-0.00151	0.599076	-0.11658	0.632059	0.172137	-0.04954	3.432907	0.338215	0.927819	4.232545	-0.14255	-14.5443	-0.004915	0.826056	150.6758	1.022308
14799_001405.LAB	1/11/2024	8:48:07	0.651927	0.267468	0.458608	-0.00761	0.600992	-0.14461	0.524685	0.241971	-0.04646	3.407865	0.36325	1.033179	3.840049	-0.1201	-12.8948	-0.006001	0.292214	150.7154	1.022105
14799_001406.LAB	1/11/2024	8:48:16	0.066894	0.119729	-0.20721	0.004087	0.183102	-0.20896	0.995367	0.098083	-0.08697	1.309132	0.090125	0.281295	2.641922	0.711156	8.302014	0.893067	19.20375	150.6815	1.022248
14799_001407.LAB	1/11/2024	8:48:26	0.123825	0.191737	0.092913	0.003891	0.010273	-0.17412	0.031147	-0.07712	-0.0138	0.150077	0.052386	-0.03963	1.926041	0.18839	14.35655	0.023487	0.882552	150.6476	1.022248
14799_001408.LAB	1/11/2024	8:48:35	0.074238	0.199078	0.211746	-0.01167	0.007325	-0.26033	0.095472	0.055202	-0.05561	0.081886	0.004907	0.161293	1.171994	0.022013	3.641611	0.002397	0.486404	150.6362	1.022033
14799_001409.LAB	1/11/2024	8:48:45	0.019947	0.301408	0.074578	0.000015	0.004784	-0.20482	0.032219	0.036508	-0.01709	0.066466	-0.00497	0.047294	0.226336	0.068606	9.316098	0.002696	0.282824	150.6589	1.022105
14799_001410.LAB	1/11/2024	8:48:55	0.011837	0.066913	0.158908	0.001579	0.004998	-0.06056	0.128084	-0.06308	-0.01073	0.055332	0.01974	0.169586	-0.26792	-0.35066	5.246021	0.00101	0.115632	150.6702	1.022069
14799_001411.LAB	1/11/2024	8:49:04	-0.023831	0.140175	0.161237	0.005213	0.004779	-0.2765	0.005314	0.049314	0.062459	0.055435	0.00494	0.020362	0.249693	-0.01134	4.120854	0.00101	0.062889	150.7041	1.021712
14799_001412.LAB	1/11/2024	8:49:14	0.114408	0.10663	0.239089	-0.00054	0.003958	-0.2128	0.016142	0.125098	-0.04888	0.037712	0.019789	0.062942	-0.18464	-0.06245	11.51823	0.000514	-0.020202	150.6476	1.022498
14799_001413.LAB	1/11/2024	8:49:23	-0.059911	0.176828	0.162933	-0.00568	0.003482	-0.34562	0.123308	0.096042	-0.00678	0.046105	0.065789	-0.07966	0.937273	-0.13047	11.51797	-0.000649	0.226284	150.7493	1.022069
14799_001414.LAB	1/11/2024	8:49:33	0.11872	0.131268	0.11903	-0.00261	0.003445	-0.37418	0.095794	-0.11555	-0.01834	0.037009	0.014861	0.186494	0.712449	0.003876	5.793839	-0.003657	-0.507425	150.6702	1.021641
14799_001415.LAB	1/11/2024	8:49:42	0.205755	0.166895	0.085087	0.006398	0.00332	-0.3034	-0.09075	0.095785	-0.07456	0.030882	-0.0132	0.027732	1.343282	0.29385	-2.1966	0.002636	-0.406141	150.6702	1.022176
14799_001416.LAB	1/11/2024	8:49:52	0.017274	0.005221	0.009692	0.006797	0.003867	-0.35326	0.047297	0.082251	-0.06868	0.033261	0.045029	0.06286	0.295397	-0.07519	5.160677	0.001047	0.10974	150.7154	1.022355
14799_001417.LAB	1/11/2024	8:50:01	-0.0917	-0.007212	0.107643	0.000094	0.002595	-0.21249	-0.02485	0.033886	-0.03509	0.036378	-0.00632	-0.04396	0.223942	-0.0131	9.680679	-0.000117	0.635174	150.738	1.021998
14799_001418.LAB	1/11/2024	8:50:11	-0.01329	0.064071	0.191138	0.003243	0.003789	-0.16879	0.00887	-0.01998	0.034436	0.032354	-0.0074	-0.01593	-0.17035	-0.28244	-0.64311	0.00095	-0.15972	150.7719	1.022033
14799_001419.LAB	1/11/2024	8:50:20	-0.041426	0.118173	0.198054	-0.00019	0.002295	-0.16636	-0.0109	-0.03419	0.030056	0.038501	0.034255	0.05456	0.53939	-0.18411	4.292843	-0.000764	-0.001099	150.8171	1.021748
14799_001420.LAB	1/11/2024	8:50:30	0.078463	-0.002558	0.093932	-0.02809	0.003709	-0.23833	0.0631	-0.16247	-0.04497	0.035728	-0.06327	-0.02103	1.114317	-0.30883	1.781757	-0.001391	0.042092	150.8511	1.021534
14799_001421.LAB	1/11/2024	8:50:39	0.042941	0.082858	0.090727	-0.00656	0.002951	-0.18769	0.009103	-0.08518	-0.05085	0.029545	0.011401	0.053022	1.009664	-0.07365	-2.69448	-0.001104	0.335982	150.8398	1.022033
14799_001422.LAB	1/11/2024	8:50:49	0.160886	0.160538	0.142694	0.00061	0.003398	-0.23444	-0.09631	-0.11885	-0.0243	0.032379	0.015469	0.116249	0.768575	0.232089	3.763454	0.000537	-0.106127	150.859	1.02218
14799_001423.LAB	1/11/2024	8:50:58	0.037259	0.260473	0.009945	0.007722	0.002948	-0.25036	0.111648	0.125088	-0.01862	0.034733	0.02637	0.023015	0.661476	-0.02264	-11.1611	-0.002208	-0.317494	150.8058	1.022069
14799_001424.LAB	1/11/2024	8:51:08	0.014928	0.207407	-0.02932	-0.00157	0.002936	-0.21236	0.085166	0.073611	-0.01961	0.026139	0.043573	0.03718	0.746397	0.429695	15.88608	-0.000715	-0.228167	150.8058	1.021998
14799_001425.LAB	1/11/2024	8:51:18	-0.046454	0.051644	0.18667	-0.00713	0.003281	-0.26837	-0.00132	-0.07455	0.027841	0.03017	0.050735	0.162816	-0.14388	-0.15206	10.31362	-0.000137	0.54621	150.747	1.022116
14799_001426.LAB	1/11/2024	8:51:27	-0.224746	0.135069	-0.05734	0.012664	0.002346	-0.24254	-0.01492	0.09454	-0.0749	0.023478	-0.01856	-0.03062	-0.56674	0.699618	-1.07671	0.000688	-0.088648	150.8539	1.022212
14799_001427.LAB	1/11/2024	8:51:36	-0.144674	0.032495	0.043014	0.006362	0.00251	0.030857	0.110792	0.0677	0.011495	0.026292	0.070619	0.201964	-0.48509	0.253013	8.886663	-0.003916	-0.185291	150.7979	1.02218
14799_001428.LAB	1/11/2024	8:51:46	0.140516	0.12264	0.115922	0.016074	0.001934	-0.2885	0.080904	-0.03073	-0.0272	0.02728	0.030516	0.080777	0.618008	0.235556	3.698633	-0.000258	0.134987	150.7903	1.022252
14799_001429.LAB	1/11/2024	8:51:55	0.091704	0.024367	-0.01065	-0.00343	0.002785	-0.30964	-0.02642	-0.11347	-0.05213	0.028426	0.007755	0.048853	0.528774	0.258214	17.93244	-0.00089	0.069624	150.7063	1.021891
14799_001430.LAB	1/11/2024	8:52:05	-0.006208	-0.005233	0.044378	0.000353	0.003452	-0.16515	-0.0482	0.079391	-0.07269	0.023588	0.030897	0.09745	0.417289	-0.14466	12.3818	0.002231	-0.215843	150.7606	1.021962
14799_001431.LAB	1/11/2024	8:52:15	0.005097	0.12513	0.245219	0.010413	0.001891	-0.25223	-0.1645	-0.0059	0.049352	0.02863	0.031437	-0.00244	0.785505	-0.17127	2.126267	0.000333	0.729324	150.8412	1.021931
14799_001432.LAB	1/11/2024	8:52:24	0.085497	0.117522	0.156931	0.015866	0.003575	-0.26785	0.066344	-0.00372	0.006111	0.02121	-0.03973	0.061729	0.167549	-0.17979	0.764368	-0.001305	-0.180314	150.7572	1.021859
14799_001433.LAB	1/11/2024	8:52:33	-0.007361	0.064764	0.133958	0.0122	0.003878	-0.17517	0.100768	-0.07699	0.040583	0.031676	0.039012	-0.0327	0.19434	-0.23796	11.56484	-0.003469	0.369946	150.6476	1.021605
14799_001434.LAB	1/11/2024	8:52:43	0.098767	0.162535	0.171486	-0.00403	0.002555	-0.1057	0.014964	-0.06499	-0.0011	0.016994	0.03589	-0.00734	0.310474	-0.19742	-5.28365	-0.000739	-0.096383	150.6815	1.022355
14799_001435.LAB	1/11/2024	8:52:52	0.081841	0.016921	0.207119	-0.00088	0.002258	-0.18678	-0.08768	-0.0661	0.018463	0.017785	0.008685	0.053943	-0.40954	-0.3267	2.964497	-0.000471	0.078667	150.7154	1.022176
14799_001436.LAB	1/11/2024	8:53:02	0.123192	0.176663	0.13893	0.011351	0.003193	-0.17924	0.056512	-0.01785	-0.03249	0.01326	0.006965	-0.16774	1.617084	0.146809	0.32995	-0.00049	0.281643	150.7041	1.021534
14799_001437.LAB	1/11/2024	8:53:11	0.035745	-0.175811	0.344223	-0.01743	0.001351	-0.10981	0.091904	-0.10374	-0.0273	0.018076	0.009358	-0.0289	0.775127	-0.58515	3.944522	-0.001621	0.156661	150.6589	1.021284
14799_001438.LAB	1/11/2024	8:53:21	0.001257	0.124652	0.117431	-0.0037	0.001608	-0.31695	-0.10374	-0.03749	-0.00607	0.028411	0.029987	0.074872	0.329197	-0.10568	-5.54019	-0.001949	-0.179687	150.6362	1.022462
14799_001439.LAB	1/11/2024	8:53:30	-0.117152	-0.011497	0.087123	-0.00831	0.002859	-0.2424	-0.01347	0.15389	0.030414	0.017096	0.006925	0.085887	-0.25949	0.285583	-13.7112	-0.000374	0.622056	150.6362	1.021998
14799_001440.LAB	1/11/2024	8:53:40	0.038226	0.181337	0.04561	0.002362	0.001616	-0.40423	-0.03697	-0.00376	-0.05605	0.024261	-0.01065	0.20584	0.791379	-0.14797	-0.06907	-0.001475	0.184456	150.6589	1.021819
14799_001441.LAB	1/11/2024	8:53:50	0.035062	0.12453	0.051733	-0.0078	0.002516	-0.30638	0.093013	0.055734	-0.01618	0.016462	-0.07661	0.053284	1.281286	-0.32841	-4.15153	-0.000219	0.260646	150.686	1.022437
14799_001442.LAB	1/11/2024	8:53:59	0.106565	0.063858	0.157549	-0.00458	0.002166	-0.20922	0.05953	-0.05135	-0.03588	0.028168	-0.00331	0.059516	0.417462	0.000229	9.929737	-0.003731	0.355342	150.6702	1.022462
14799_001443.LAB	1/11/2024	8:54:08	-0.094821	0.03553	0.016905	0.013496	0.002907	-0.2938	0.037307	-0.02099	0.034952	0.0271	-0.02342	-0.02626	0.329288	0.052283	5.820337	-0.000183	-0.106663	150.6476	1.022676
14799_001444.LAB	1/11/2024	8:54:18	-0.01225	-0.079134	0.102777	-0.00741	0.001435	-0.12104	0.068775	0.048695	0.020901	0.026704	-0.02356	-0.09553	-0.22472	-0.1795	2.329738	-0.001903	0.119775	150.6928	1.022355
14799_001445.LAB	1/11/2024	8:54:28	-0.043547	0.063537	0.152842	0.000259	0.001864	-0.47459	0.00641	-0.08699	0.0071	0.018637	0.027549	0.05156	1.170024	-0.142	-6.39728	-0.001068	-0.227013	150.6962	1.022501
14799_001446.LAB	1/11/2024	8:54:37	-0.074614	0.299004	-0.13164	0.00189	0.303216	-0.26265	0.443216	0.189267	0.041059	1.316161	0.096746	0.51252	3.954924	0.539641	-6				

14799_001470.LAB	1/11/2024	8:58:25	0.498507	0.108428	0.382608	0.004239	0.582273	-0.18132	0.5418	0.136594	-0.11519	3.361669	0.389525	0.972401	3.602203	0.059955	-24.2532	-0.00845	0.227354	150.6362	1.022926
14799_001471.LAB	1/11/2024	8:58:35	0.394407	0.104174	0.403217	0.004647	0.589095	-0.12781	0.469305	0.205767	-0.05031	3.366108	0.386997	0.755786	3.869229	-0.07086	-13.0428	-0.00524	0.655925	150.6362	1.022569
14799_001472.LAB	1/11/2024	8:58:44	0.555972	0.278301	0.303922	0.003484	0.59842	-0.2123	0.578392	0.071764	-0.13125	3.40178	0.446052	0.868636	4.295461	0.204098	-20.0908	-0.006061	0.168386	150.714	1.022694
14799_001473.LAB	1/11/2024	8:58:54	0.540562	0.191808	0.250633	-0.00181	0.603073	-0.17387	0.535762	0.254632	-0.05386	0.420307	0.370628	1.104072	3.918944	-0.16323	-21.1334	-0.008992	-0.200587	150.7369	1.022598
14799_001474.LAB	1/11/2024	8:59:03	0.330615	0.22503	0.351498	-0.00505	0.610474	-0.2988	0.460773	0.121725	-0.07199	3.410207	0.36026	0.990285	4.469581	-0.02825	-9.75477	-0.007381	-0.261759	150.7945	1.022712
14799_001475.LAB	1/11/2024	8:59:13	0.479913	0.243239	0.394182	0.013036	0.603393	-0.2025	0.579533	0.114645	-0.02416	3.424382	0.377697	0.924517	4.226436	0.266025	-27.2144	-0.005338	-0.126214	150.7719	1.022783
14799_001476.LAB	1/11/2024	8:59:22	0.387187	0.058361	0.455407	0.000455	0.600324	-0.22927	0.50245	0.115741	-0.11032	3.401624	0.377729	0.970444	3.847158	-0.18987	-29.381	-0.006811	-0.046615	150.7267	1.022712
14799_001477.LAB	1/11/2024	8:59:32	0.694882	0.144784	0.382926	0.005578	0.588057	-0.26037	0.690858	0.206984	-0.13015	3.389078	0.431637	0.827943	3.898768	0.116579	-16.688	-0.007504	0.205568	150.7719	1.022819
14799_001478.LAB	1/11/2024	8:59:41	0.175919	0.26642	0.395236	0.000228	0.589286	-0.16206	0.508937	0.252522	-0.07546	3.390833	0.362027	0.886724	3.768798	0.132896	-25.0192	-0.005453	0.013808	150.8284	1.022341
14799_001479.LAB	1/11/2024	8:59:51	0.337335	0.215811	0.255283	-0.00916	0.587038	-0.20812	0.580248	0.194575	-0.08384	3.384368	0.438452	0.902956	3.828593	0.194077	-13.1261	-0.006592	0.181079	150.803	1.022774
14799_001480.LAB	1/11/2024	9:00:01	0.449366	0.10048	0.407512	-0.00513	0.590183	-0.2129	0.592826	0.111827	-0.06597	3.410896	0.37644	0.835166	4.20999	-0.13755	-5.22496	-0.007924	0.015617	150.7945	1.022426
14799_001481.LAB	1/11/2024	9:00:10	0.54833	0.17461	0.38731	0.017089	0.595443	-0.09896	0.482466	0.055185	-0.10273	3.393486	0.326442	0.828648	3.976692	-0.31332	-14.0803	-0.005018	0.356409	150.7154	1.022462
14799_001482.LAB	1/11/2024	9:00:20	0.436022	0.079933	0.336034	0.015216	0.597827	-0.15842	0.546924	0.168476	-0.05719	3.387097	0.37855	0.87948	4.091316	0.048677	-18.9986	-0.007707	0.099277	150.7776	1.02263
14799_001483.LAB	1/11/2024	9:00:29	0.431683	0.212176	0.43554	0.008608	0.606947	-0.11229	0.533236	0.128696	-0.10328	3.390221	0.310629	0.918665	4.106858	-0.1097	-23.3362	-0.004414	-0.150856	150.7832	1.022748
14799_001484.LAB	1/11/2024	9:00:38	0.394915	0.137173	0.275547	0.00541	0.612323	-0.09165	0.535257	0.233097	-0.09195	3.391428	0.328766	1.011742	5.058737	0.121056	-16.1093	-0.007454	0.400204	150.7945	1.022533
14799_001485.LAB	1/11/2024	9:19:19	0.516748	0.25819	0.342506	-0.003	0.595253	-0.19126	0.530055	0.162321	-0.0723	3.309174	0.348249	0.867202	4.141208	0.009385	-16.8198	-0.00613	0.040163	150.6912	1.021595
14799_001486.LAB	1/11/2024	9:20:20	0.264945	0.29633	0.201077	-0.00601	0.588079	-0.32048	0.551275	0.176996	-0.13576	3.295381	0.364045	0.792302	3.378183	0.707641	-16.3034	-0.007231	0.013009	150.7232	1.021796
14799_001487.LAB	1/11/2024	9:21:21	0.199356	0.297661	0.267534	0.001223	0.591946	-0.27294	0.501224	0.14345	-0.15245	3.3096	0.339344	0.801989	4.194408	0.69837	-18.5786	-0.005943	0.130123	150.7162	1.021531
14799_001488.LAB	1/11/2024	9:22:22	0.370334	0.345955	0.244142	0.002173	0.594636	-0.29745	0.536786	0.174917	-0.15161	3.293907	0.338206	0.767118	4.24563	0.64749	-21.0604	-0.00616	0.06258	150.7109	1.021447
14799_001489.LAB	1/11/2024	9:23:23	0.23537	0.282464	0.252216	0.004761	0.600107	-0.26648	0.529505	0.203028	-0.16159	3.309314	0.370543	0.751632	4.226515	0.498045	-17.7488	-0.005693	0.160791	150.7302	1.021392
14799_001490.LAB	1/11/2024	9:24:24	0.279576	0.321878	0.20081	-0.00411	0.621281	-0.29304	0.470222	0.181148	-0.16192	3.347481	0.374477	0.809298	4.466619	0.33483	-22.6169	-0.006426	0.216804	150.7214	1.021641
14799_001491.LAB	1/11/2024	9:25:25	0.475101	0.230024	0.350576	0.00802	0.612077	-0.21177	0.482286	0.23204	-0.07818	3.347487	0.36315	0.854972	3.811115	-0.10797	-22.0784	-0.004973	0.881107	150.6986	1.021608
14799_001492.LAB	1/11/2024	9:26:25	0.994243	0.321513	0.368992	0.001401	0.606716	-0.15341	0.594358	0.682625	-0.08394	3.339915	0.358216	0.982538	3.838023	0.086956	-15.5529	-0.005041	3.08123	150.6767	1.02133
14799_001493.LAB	1/11/2024	9:27:26	1.1158082	0.380337	0.397371	0.008933	0.68686	0.209319	0.683604	5.302844	-0.10249	3.432181	0.411135	1.848327	2.987442	0.439073	-21.3181	-0.008494	43.883913	150.6758	1.021531
14799_001494.LAB	1/11/2024	9:28:27	8.986406	0.364452	0.444267	0.008276	0.694934	-0.02793	0.646755	4.72031	-0.02234	3.463661	0.421855	2.345019	3.686826	0.397208	-17.2568	-0.008943	28.605625	150.739	1.021398
14799_001495.LAB	1/11/2024	9:29:28	15.502678	0.412203	0.450049	0.007865	0.731353	0.238235	0.638861	6.484769	-0.0015	3.518228	0.429703	2.330204	2.666759	0.564376	-18.7871	-0.009545	51.95218	150.846	1.021475
14799_001496.LAB	1/11/2024	9:30:29	16.209728	0.366574	0.361357	0.006026	0.738544	0.171212	0.705382	7.378576	0.050752	3.541971	0.46101	2.911306	3.186425	0.817058	-15.6905	-0.010632	49.418671	150.9635	1.021281
14799_001497.LAB	1/11/2024	9:31:30	17.80145	0.297734	0.502381	-0.00522	0.752774	0.242044	0.606608	7.351066	0.089175	3.591088	0.445444	2.441165	3.212757	0.545623	-20.2338	-0.009506	56.021351	150.8337	1.021558
14799_001498.LAB	1/11/2024	9:32:31	9.683055	0.380995	0.610928	0.001108	0.740104	-0.08706	0.512145	5.181084	0.128284	3.576342	0.422553	2.325285	4.133251	-0.02978	-22.8363	-0.007515	25.58961	150.8491	1.021515
14799_001499.LAB	1/11/2024	9:33:31	13.155557	0.35717	0.206832	0.002931	0.730311	0.124393	0.562533	5.178407	0.050908	3.585655	0.420383	1.98169	3.641053	0.34829	-19.8767	-0.009511	38.688177	150.7653	1.021519
14799_001500.LAB	1/11/2024	9:34:32	10.457858	0.387692	0.297656	0.004448	0.70586	0.025255	0.549199	4.62865	0.035598	3.49926	0.40269	2.111187	3.983657	0.252672	-15.8435	-0.010299	30.544984	150.7828	1.021481
14799_001501.LAB	1/11/2024	9:35:33	15.830817	0.304148	0.230786	0.005816	0.72247	0.203061	0.662459	6.795587	0.100354	3.504273	0.407173	2.584493	3.988642	0.583252	-20.0949	-0.009755	45.903651	150.7179	1.021259
14799_001502.LAB	1/11/2024	9:36:34	21.310202	0.417328	0.33756	-0.00622	0.752244	0.296862	0.690008	9.177477	0.104204	3.562994	0.409732	2.87435	3.626424	1.048835	-22.4137	-0.010396	63.492239	150.6784	1.021101
14799_001503.LAB	1/11/2024	9:37:35	15.398382	0.369682	0.368331	0.003468	0.712741	0.107092	0.604452	6.794126	0.134532	3.480844	0.435791	2.364764	3.522191	0.706816	-21.6433	-0.009515	44.729249	150.6776	1.021558
14799_001504.LAB	1/11/2024	9:38:36	18.197229	0.372526	0.320514	-0.00121	0.730226	0.205815	0.548306	7.659291	0.16706	3.514234	0.408603	2.424593	3.450304	0.550209	-21.8617	-0.010526	52.222884	150.739	1.021348
14799_001505.LAB	1/11/2024	9:39:37	19.207496	0.379986	0.245589	0.000495	0.733187	0.269377	0.56736	7.791539	0.16415	3.572817	0.409887	2.372076	3.48921	0.562997	-19.867	-0.011197	54.443761	150.7819	1.021368
14799_001506.LAB	1/11/2024	9:40:38	22.953409	0.353304	0.28028	0.000608	0.764773	0.308957	0.50629	9.71101	0.23348	3.622834	0.447956	2.724803	3.624839	0.648845	-20.1365	-0.012383	64.948989	150.8606	1.021355
14799_001507.LAB	1/11/2024	9:41:38	13.590104	0.365507	0.534634	0.00195	0.69059	0.025634	0.590701	6.652464	0.259858	3.509398	0.424873	2.193951	3.867335	0.619462	-20.8127	-0.008487	37.7434	150.7457	1.021471
14799_001508.LAB	1/11/2024	9:42:39	25.050246	0.394244	0.419163	-0.00075	0.762713	0.411096	0.572251	10.15041	0.238882	3.567223	0.40808	2.397445	2.749939	0.809305	-15.5578	-0.011481	74.479064	150.66	1.021375
14799_001509.LAB	1/11/2024	9:43:40	6.611754	0.260164	0.6354	0.002811	0.607675	-0.20126	0.479357	4.049462	0.220276	3.351139	0.346417	2.004766	4.227912	0.073529	-22.2646	-0.006682	13.876417	150.6646	1.021297
14799_001510.LAB	1/11/2024	9:44:41	14.178511	0.276563	0.501398	-0.00143	0.635504	0.072081	0.536904	6.096531	0.173724	3.446584	0.360425	2.081152	2.945566	0.5516	-18.0274	-0.008314	41.378391	150.6839	1.021366
14799_001511.LAB	1/11/2024	9:45:42	14.098422	0.260503	0.558851	0.001315	0.642397	0.027357	0.554683	6.513455	0.181892	3.747407	0.378187	2.203841	3.435147	0.587574	-16.1284	-0.007421	39.91173	150.7939	1.021292
14799_001512.LAB	1/11/2024	9:46:43	17.003																		

14799_001536.LAB	1/11/2024	10:11:04	4.765036	0.33403	0.651201	0.00616	0.565279	-0.30044	0.491177	2.86375	0.319864	3.366342	0.355193	1.310914	3.413992	0.016854	-14.6788	-0.007609	8.509046	150.7004	1.021054
14799_001537.LAB	1/11/2024	10:12:04	11.890848	0.364299	0.667891	0.00432	0.61831	-0.09193	0.572544	5.448117	0.295378	3.481696	0.399086	1.567482	2.561139	0.262017	-19.1995	-0.008242	34.296245	150.7284	1.020827
14799_001538.LAB	1/11/2024	10:13:06	20.346457	0.443603	0.43328	-0.00058	0.701199	0.268689	0.646188	8.67891	0.387109	3.537455	0.403673	1.623669	1.673413	0.74429	-22.1794	-0.010765	58.766097	150.7267	1.021106
14799_001539.LAB	1/11/2024	10:14:06	18.566446	0.366529	0.436747	0.005127	0.685137	0.130747	0.627394	7.75237	0.353369	3.511042	0.409989	1.49212	2.0507	0.732221	-21.2194	-0.011016	53.393768	150.7425	1.020827
14799_001540.LAB	1/11/2024	10:15:07	16.618644	0.44532	0.57199	0.003207	0.681282	0.059212	0.590922	7.486629	0.385865	3.538118	0.437064	1.44407	1.605877	0.619188	-16.9448	-0.009577	47.663477	150.7179	1.021004
14799_001541.LAB	1/11/2024	10:16:08	17.796404	0.418738	0.634848	0.006841	0.689636	0.084553	0.619002	8.082164	0.409607	3.5539	0.411813	1.408321	1.725206	0.704905	-19.3246	-0.009608	51.841124	150.8043	1.020791
14799_001542.LAB	1/11/2024	10:17:09	19.213108	0.413494	0.567153	0.002322	0.685286	0.185947	0.61515	8.101904	0.432506	3.539314	0.400583	1.404032	1.69602	0.752892	-21.6477	-0.010505	57.571451	150.8195	1.020932
14799_001543.LAB	1/11/2024	10:18:10	15.835103	0.45478	0.674576	0.000805	0.6816	-0.00604	0.608215	7.402014	0.434315	3.533103	0.410722	1.433644	2.023925	0.689729	-17.9149	-0.008489	44.606636	150.8129	1.020872
14799_001544.LAB	1/11/2024	10:19:11	16.830759	0.507184	0.63405	-0.00014	0.684684	0.083715	0.627787	7.55777	0.376507	3.585572	0.382036	1.473677	1.868689	0.475288	-26.297	-0.008506	49.066233	150.7688	1.021004
14799_001545.LAB	1/11/2024	10:20:11	20.500701	0.463903	0.616495	0.008056	0.726956	0.134098	0.5826	9.087049	0.447015	3.611994	0.400714	1.677344	1.663446	0.397963	-18.7718	-0.011036	59.617551	150.6846	1.02086
14799_001546.LAB	1/11/2024	10:21:12	17.728594	0.448585	0.611733	-0.00704	0.70439	0.030912	0.528253	8.076901	0.442448	3.597532	0.391271	1.614827	1.977931	0.533762	-21.7786	-0.009864	51.041683	150.7129	1.020807
14799_001547.LAB	1/11/2024	10:22:13	16.44855	0.480158	0.452426	0.002773	0.6812	0.071131	0.529748	7.157473	0.398913	3.574544	0.384205	1.451971	1.798707	0.304166	-20.1014	-0.010494	46.337254	150.8688	1.021043
14799_001548.LAB	1/11/2024	10:23:14	13.658714	0.468131	0.669789	0.008568	0.663061	-0.04321	0.565013	6.525309	0.426467	3.567628	0.391411	1.443835	2.258593	0.41814	-18.4024	-0.007909	39.249679	150.939	1.020788
14799_001549.LAB	1/11/2024	10:24:15	21.830428	0.474942	0.568052	0.001093	0.719914	0.220216	0.620422	9.522344	0.45865	3.672213	0.354001	1.706953	1.63686	0.60199	-19.2106	-0.010747	64.298919	150.9074	1.020722
14799_001550.LAB	1/11/2024	10:25:16	22.781127	0.451234	0.499147	-0.00512	0.719826	0.189539	0.469134	9.962865	0.504843	3.609566	0.382621	1.724074	1.679801	0.577951	-21.5352	-0.012095	65.174959	150.839	1.020943
14799_001551.LAB	1/11/2024	10:26:17	18.555789	0.467259	0.461587	0.001253	0.677828	0.113	0.652092	7.820492	0.447775	3.622464	0.396139	1.456973	1.580228	0.644018	-18.9212	-0.01128	52.778267	150.7425	1.0207
14799_001552.LAB	1/11/2024	10:27:17	18.521464	0.5149	0.641391	0.003968	0.707782	0.056631	0.623115	8.540066	0.477144	3.630221	0.389775	1.567995	2.108364	0.676234	-18.5731	-0.01044	53.023735	150.7612	1.020785
14799_001553.LAB	1/11/2024	10:28:18	20.167083	0.473745	0.512263	0.008691	0.716227	0.14385	0.620389	8.446178	0.474766	3.637315	0.377911	1.447229	1.471042	0.729389	-23.9393	-0.010803	59.246402	150.7863	1.02081
14799_001554.LAB	1/11/2024	10:29:19	20.170186	0.458891	0.642626	-0.00104	0.713775	0.081205	0.561268	9.188139	0.530285	3.643735	0.410009	1.504353	1.885686	0.670462	-15.8283	-0.010023	57.776402	150.7035	1.020893
14799_001555.LAB	1/11/2024	10:30:20	24.377393	0.449397	0.720991	0.003989	0.72954	0.252877	0.677636	10.38214	0.519333	3.655926	0.414484	1.636347	1.301917	0.793245	-25.2411	-0.011384	73.883926	150.7039	1.020927
14799_001556.LAB	1/11/2024	10:31:21	20.175878	0.488762	0.813663	-0.00093	0.708631	0.037564	0.621077	9.455373	0.551666	3.631814	0.423045	1.622741	1.449744	0.852851	-19.8142	-0.008829	58.911777	150.7677	1.020927
14799_001557.LAB	1/11/2024	10:32:22	28.280678	0.448673	0.503353	0.003179	0.737075	0.429346	0.687353	11.20578	0.54748	3.667151	0.436061	1.56734	1.124664	0.874121	-21.0051	-0.01298	84.243003	150.739	1.020689
14799_001558.LAB	1/11/2024	10:33:23	23.133813	0.486225	0.788326	0.001636	0.716817	0.166959	0.646739	10.36894	0.602671	3.66788	0.399336	1.59237	1.789429	0.920783	-18.3755	-0.010943	67.756805	150.9088	1.020803
14799_001559.LAB	1/11/2024	10:34:23	18.487711	0.465392	0.818689	0.003014	0.685623	-0.00426	0.575462	8.415166	0.556049	3.621331	0.421399	1.481966	2.064121	0.770967	-20.5485	-0.009735	53.843699	150.8124	1.020481
14799_001560.LAB	1/11/2024	10:35:24	18.053607	0.5653	0.808345	-0.00015	0.693063	0.024958	0.567081	8.277822	0.542586	3.650722	0.399748	1.465338	1.662116	0.571313	-17.9909	-0.007618	52.340681	150.8127	1.020616
14799_001561.LAB	1/11/2024	10:36:25	26.697459	0.517166	0.504342	0.002615	0.75574	0.288357	0.596397	11.43738	0.583911	3.711404	0.380271	1.805416	1.164586	0.699498	-20.7253	-0.0123	76.30275	150.7319	1.020755
14799_001562.LAB	1/11/2024	10:37:26	19.393014	0.469467	0.675671	0.00042	0.701766	0.12905	0.615513	8.864059	0.568424	3.65059	0.38787	1.53841	1.744808	0.648254	-23.7674	-0.009811	54.603522	150.7109	1.020748
14799_001563.LAB	1/11/2024	10:38:27	18.197699	0.545999	0.591836	0.002273	0.69471	-0.00153	0.6075	8.337173	0.518296	3.654145	0.38068	1.515512	1.964229	0.667722	-20.4787	-0.010227	51.403709	150.757	1.020696
14799_001564.LAB	1/11/2024	10:39:28	22.915186	0.558783	0.56916	0.008984	0.700571	0.20899	0.66337	9.453405	0.541622	3.62335	0.383856	1.407474	1.617986	0.744687	-15.9987	-0.010121	68.383136	150.6635	1.020605
14799_001565.LAB	1/11/2024	10:40:29	20.463371	0.466191	0.825617	-0.00228	0.702653	0.06482	0.616322	9.494735	0.561598	3.604336	0.40479	1.589069	1.561712	0.868059	-21.7943	-0.009025	59.280348	150.6874	1.020707
14799_001566.LAB	1/11/2024	10:41:30	27.58545	0.507368	0.506417	-7.5E-05	0.721706	0.358068	0.654499	10.8689	0.550727	3.607676	0.366173	1.475663	0.782703	0.939014	-19.4958	-0.012624	82.208764	150.5758	1.020689
14799_001567.LAB	1/11/2024	10:42:30	24.407213	0.473763	0.537351	-0.00108	0.716706	0.177415	0.608162	10.57468	0.593168	3.588999	0.371307	1.480946	1.45449	0.904819	-14.5594	-0.011933	69.288569	150.6017	1.020684
14799_001568.LAB	1/11/2024	10:43:31	19.068188	0.493302	0.645786	-0.00094	0.687555	0.079047	0.545021	8.752704	0.594841	3.523866	0.401552	1.376594	1.948984	0.710656	-19.1121	-0.010852	53.754486	150.7355	1.020855
14799_001569.LAB	1/11/2024	10:44:32	18.730928	0.434302	0.781689	0.006397	0.697062	0.040207	0.587962	8.749743	0.562588	3.492568	0.412767	1.37635	2.112499	0.716724	-21.1605	-0.009832	53.781538	150.8811	1.020733
14799_001570.LAB	1/11/2024	10:45:33	23.441332	0.521148	0.750967	-0.00193	0.718002	0.135125	0.631591	10.1023	0.560432	3.521313	0.399455	1.485666	1.234313	0.837823	-20.1807	-0.010708	69.357946	150.7981	1.020848
14799_001571.LAB	1/11/2024	10:46:34	17.311235	0.464634	0.812675	-0.00045	0.687748	-0.00885	0.595129	8.053219	0.564557	3.50409	0.402158	1.332052	1.93946	0.5389	-16.9857	-0.008417	50.340084	150.7793	1.020672
14799_001572.LAB	1/11/2024	10:47:35	16.93383	0.491162	0.787635	-0.00038	0.667668	-0.02483	0.566036	7.999411	0.539133	3.524211	0.422166	1.3469	2.086106	0.476456	-23.32	-0.009519	48.710873	150.6892	1.020589
14799_001573.LAB	1/11/2024	10:48:36	17.42264	0.507973	0.717433	0.003545	0.65761	-0.05572	0.56075	7.879285	0.502632	3.535753	0.403617	1.290278	1.717347	0.727299	-17.824	-0.009417	51.030403	150.6355	1.020711
14799_001574.LAB	1/11/2024	10:49:36	14.989347	0.3918827	0.71171	0.002793	0.614765	-0.09205	0.565537	7.156824	0.522608	3.517747	0.396848	1.427825	1.992019	0.732284	-22.5096	-0.008114	42.984496	150.6232	1.020533
14799_001575.LAB	1/11/2024	10:50:37	22.786233	0.525667	0.723938	0.003487	0.686757	0.137373	0.696629	9.637833	0.533969	3.570444	0.378069	1.442788	0.956171	0.88093	-20.7699	-0.011385	68.142528	150.6446	1.020791
14799_001576.LAB	1/11/2024	10:51:38	16.765106	0.528065	0.785543	0.001299	0.673689	-0.05173	0.600436	8.005277	0.564591	3.556519	0.390003	1.27835	1.575483	0.652049	-21.2143	-0.009675	48.674554	150.6428	1.020735
14799_001577.LAB	1/11/2024	10:52:39	10.871115	0.430834	0.709599	0.0021	0.60772	-0.19342	0.55702	5.691677	0.502223	3.505133	0.378033	1.275824	2.134186	0.423473	-21.1212	-0.007864	28.959015		

14799_001602.LAB	1/11/2024	11:18:01	17.660457	0.552041	0.719476	0.007756	0.675357	-0.06043	0.631032	8.092798	0.577315	3.568442	0.386351	1.295173	1.354456	0.644932	-21.0203	-0.009496	52.822882	150.8986	1.020118
14799_001603.LAB	1/11/2024	11:19:02	16.743369	0.563515	0.6644	0.00259	0.686871	-0.11893	0.576397	7.972925	0.575495	3.57356	0.389628	1.323356	1.760718	0.681807	-17.5022	-0.008841	49.114818	150.7922	1.020213
14799_001604.LAB	1/11/2024	11:20:02	11.088336	0.428667	0.606052	0.002164	0.620534	-0.28305	0.526546	5.668863	0.527914	3.563366	0.377625	1.347443	1.938053	0.211167	-17.7199	-0.007986	31.659986	150.7565	1.020051
14799_001605.LAB	1/11/2024	11:21:03	19.475112	0.58793	0.578077	-0.00154	0.694067	-0.00766	0.596155	8.707317	0.495332	3.609307	0.382044	1.430818	1.580062	0.665108	-16.2735	-0.009663	58.384934	150.6828	1.019996
14799_001606.LAB	1/11/2024	11:22:04	13.184457	0.457215	0.508406	0.000737	0.609343	-0.16188	0.594158	6.406982	0.4906	3.499418	0.36343	1.363031	1.680034	0.481032	-17.5923	-0.008431	38.624209	150.6846	1.019858
14799_001607.LAB	1/11/2024	11:23:05	19.517444	0.358443	0.602931	-0.00278	0.650943	0.020173	0.636858	8.639472	0.526844	3.56899	0.371339	1.499874	1.404751	0.756553	-16.8522	-0.008883	59.133364	150.7162	1.020157
14799_001608.LAB	1/11/2024	11:24:06	14.665488	0.423982	0.739587	-0.00059	0.63317	-0.14923	0.608717	7.495921	0.551606	3.547259	0.368615	1.372731	1.914826	0.548867	-17.5861	-0.007754	43.016628	150.667	1.020251
14799_001609.LAB	1/11/2024	11:25:07	19.25886	0.605307	0.715946	-0.00119	0.692642	-0.05164	0.675014	8.847146	0.555865	3.546743	0.392804	1.275796	1.406624	0.665403	-18.3049	-0.009565	58.3092	150.7793	1.020096
14799_001610.LAB	1/11/2024	11:26:07	17.657952	0.594619	0.630385	-0.00441	0.687993	-0.02788	0.616551	8.055072	0.545728	3.491236	0.376943	1.214	1.47158	0.636767	-18.0285	-0.009308	53.425198	150.7934	1.02019
14799_001611.LAB	1/11/2024	11:27:08	24.281618	0.529893	0.543199	-0.00284	0.735161	0.193909	0.697667	10.75457	0.645634	3.627873	0.383753	1.453751	1.085099	0.802633	-20.3264	-0.010943	71.473598	150.9144	1.020146
14799_001612.LAB	1/11/2024	11:28:10	10.233068	0.409257	0.625257	-0.00146	0.611528	-0.26656	0.531989	5.431776	0.552323	3.553899	0.359739	1.310732	2.214075	0.45068	-20.0908	-0.006935	27.52621	150.8267	1.020046
14799_001613.LAB	1/11/2024	11:29:10	19.524657	0.519415	0.611401	0.003378	0.685091	0.01056	0.6126	8.362377	0.490874	3.589509	0.390271	1.319759	1.201934	0.69825	-24.276	-0.009784	59.967824	150.6758	1.020201
14799_001614.LAB	1/11/2024	11:30:11	25.340767	0.591215	0.580544	0.00047	0.740756	0.204306	0.69389	11.23873	0.663708	3.648098	0.373853	1.449898	0.953364	0.933688	-21.7928	-0.010069	75.167704	150.6548	1.02009
14799_001615.LAB	1/11/2024	11:31:12	23.801461	0.443821	-0.0991	0.000119	0.351152	0.114225	0.343583	9.537959	0.523987	3.165323	0.345461	1.210451	1.256061	1.465284	-21.4034	-0.012088	64.941113	150.7004	1.020301
14799_001616.LAB	1/11/2024	11:32:13	4.098897	0.52905	0.647472	0.009033	1.022122	-0.53197	0.173437	3.099533	0.631065	3.988869	0.338496	1.344538	3.003924	-0.64703	-25.0331	-0.005631	1.741159	150.7043	1.020001
14799_001617.LAB	1/11/2024	11:33:14	2.85209	0.644382	0.611769	0.007709	0.65608	-0.49875	0.334321	2.079247	0.438646	3.683279	0.342429	0.996867	2.881021	0.001435	-21.4046	-0.005957	1.155205	150.7463	1.019968
14799_001618.LAB	1/11/2024	11:34:14	2.183431	0.501498	0.467251	0.005557	4.007149	-0.47994	0.389088	1.269122	0.223013	3.250996	0.331619	0.818263	3.31833	0.548733	-14.1656	-0.005458	2.859109	150.7021	1.019952
14799_001619.LAB	1/11/2024	11:35:15	13.438021	0.4763	0.253341	-0.00163	0.453658	-0.19554	0.456901	4.984388	0.211804	3.300921	0.346785	0.979998	1.883539	1.336082	-19.3438	-0.008666	42.665761	150.6934	1.019952
14799_001620.LAB	1/11/2024	11:36:16	24.126887	0.598852	0.268015	-0.00405	0.61638	0.241196	0.769628	9.223433	0.350312	3.541975	0.378419	1.356634	1.3794	1.843448	-22.2014	-0.01137	69.474452	150.7077	1.020104
14799_001621.LAB	1/11/2024	11:37:17	19.018679	0.561935	0.636946	0.000944	0.703487	0.030434	0.720465	8.812418	0.572674	3.631457	0.359282	1.252466	1.714403	0.761811	-18.6797	-0.009404	52.317212	150.907	1.019901
14799_001622.LAB	1/11/2024	11:38:18	23.55431	0.615004	0.643798	0.000927	0.729608	0.131621	0.796511	10.27272	0.684435	3.671631	0.396325	1.338524	0.857897	0.90062	-17.7235	-0.010174	64.957273	150.8004	1.019808
14799_001623.LAB	1/11/2024	11:39:19	21.031734	0.575679	0.680334	-0.00259	0.701077	0.030923	0.626002	9.341552	0.684366	3.648835	0.397385	1.234158	0.999001	0.579194	-20.6233	-0.009206	60.354529	150.7836	1.019821
14799_001624.LAB	1/11/2024	11:40:20	26.827443	0.576676	0.653753	0.001749	0.742074	0.23495	0.796628	11.35387	0.701567	3.701496	0.387768	1.389332	0.289733	1.159304	-21.3827	-0.011525	81.239311	150.7969	1.019813
14799_001625.LAB	1/11/2024	11:41:21	17.195985	0.584168	0.724645	0.002103	0.694197	-0.11274	0.640089	8.238602	0.657247	3.63191	0.397039	1.189688	0.947476	0.762794	-19.8857	-0.008159	50.84823	150.8144	1.019664
14799_001626.LAB	1/11/2024	11:42:21	28.005405	0.547208	0.519184	0.001633	0.755808	0.294551	0.682071	11.40956	0.680899	3.722792	0.401044	1.324535	0.522219	1.011207	-20.1599	-0.012888	83.207339	150.753	1.019669
14799_001627.LAB	1/11/2024	11:43:22	17.443362	0.580735	0.716618	0.002844	0.69876	-0.12681	0.636234	8.462317	0.698703	3.601525	0.391285	1.230042	1.813261	0.692108	-21.851	-0.00832	50.691965	150.753	1.019747
14799_001628.LAB	1/11/2024	11:44:23	26.280765	0.558363	0.666243	0.001363	0.759765	0.209145	0.660198	11.06852	0.719412	3.766515	0.383135	1.385075	0.741036	0.899846	-22.5827	-0.011129	79.11551	150.739	1.019603
14799_001629.LAB	1/11/2024	11:45:24	24.127355	0.505278	0.632713	0.002564	0.758526	0.184682	0.64095	10.74405	0.689792	3.689958	0.391053	1.500634	0.797694	0.107685	-22.1348	-0.010881	70.790263	150.6618	1.019741
14799_001630.LAB	1/11/2024	11:46:25	23.930089	0.577964	0.631684	0.006014	0.750156	0.157472	0.680539	10.60096	0.729256	3.681764	0.403886	1.469534	1.068405	0.764901	-15.3644	-0.009644	70.367448	150.7439	1.019554
14799_001631.LAB	1/11/2024	11:47:26	24.664662	0.553995	0.78379	-0.00141	0.758032	0.071117	0.594745	11.06842	0.723507	3.67547	0.364787	1.550515	1.215075	0.844404	-23.1953	-0.010926	74.191284	150.6863	1.019708
14799_001632.LAB	1/11/2024	11:48:26	26.785561	0.544431	0.672901	0.003384	0.761542	0.212639	0.633933	11.66004	0.789972	3.705242	0.400582	1.580102	1.103064	1.015967	-15.9813	-0.011747	80.497847	150.7986	1.019697
14799_001633.LAB	1/11/2024	11:49:27	25.104361	0.541334	0.590739	0.005034	0.731903	0.124863	0.609059	10.74515	0.724511	3.647656	0.356824	1.517383	1.229651	0.924213	-19.6379	-0.012208	74.63153	150.8356	1.019562
14799_001634.LAB	1/11/2024	11:50:28	14.74896	0.594855	0.7998	0.004913	0.681091	-0.19212	0.526044	7.395482	0.67185	3.524856	0.405946	1.354434	2.009125	0.283936	-15.9849	-0.008221	41.668795	150.7802	1.019631
14799_001635.LAB	1/11/2024	11:51:29	28.614284	0.519643	0.728999	-0.00483	0.751384	0.266073	0.671542	12.13053	0.744188	3.681812	0.397222	1.520589	0.78305	1.042236	-18.8597	-0.012234	86.50456	150.7969	1.019619
14799_001636.LAB	1/11/2024	11:52:30	24.093374	0.582192	0.826297	0.00194	0.722541	0.057369	0.565653	10.70232	0.725031	3.656536	0.38108	1.406037	1.360398	0.838711	-21.6894	-0.009686	71.652503	150.8495	1.01958
14799_001637.LAB	1/11/2024	11:53:31	15.270581	0.598377	0.586372	0.005065	0.673966	-0.15345	0.533458	7.381441	0.652564	3.572259	0.402744	1.364205	1.772592	0.338291	-17.9934	-0.008227	43.885181	150.8713	1.019331
14799_001638.LAB	1/11/2024	11:54:32	32.594101	0.548175	0.763276	0.005213	0.781344	0.349469	0.66678	13.59794	0.772242	3.786118	0.40651	1.563767	0.510277	1.180829	-18.4131	-0.012147	98.949431	150.7905	1.019287
14799_001639.LAB	1/11/2024	11:55:32	24.343642	0.522502	0.737243	0.001644	0.733511	0.050703	0.639588	11.16651	0.805568	3.755206	0.41	1.446293	1.118285	0.876864	-23.8769	-0.010618	72.196669	150.7986	1.01937
14799_001640.LAB	1/11/2024	11:56:33	16.307942	0.576536	0.808087	0.004093	0.667612	-0.12743	0.55189	7.673447	0.698926	3.66149	0.406579	1.269225	1.294496	0.6171	-22.3109	-0.008457	47.666396	150.6741	1.01963
14799_001641.LAB	1/11/2024	11:57:34	31.217268	0.564139	0.807036	0.002169	0.760659	0.215882	0.609849	13.24605	0.798035	3.764871	0.4272	1.502934	0.55162	0.864408	-19.2842	-0.012075	95.049584	150.7442	1.01952
14799_001642.LAB	1/11/2024	11:58:35	8.444841	0.435522	0.794214	0.002935	0.577064	-0.40566	0.475817	5.082544	0.639122	3.47012	0.395547	1.223944	2.647812	0.156763	-20.1076	-0.005808	19.415152	150.975	1.019364
14799_001643.LAB	1/11/2024	11:59:36	15.32641	0.406291	0.735733	0.003108	0.595936	-0.11625	0.562075	6.798439	0.553124	3.511017	0.385778	1.199301	1.042347	0.363884	-20.0624	-0.008957	46.17498		

14799_001668.LAB	1/11/2024	12:24:57	19.81991	0.684659	0.687973	-0.00514	0.686768	-0.07859	0.586131	9.200515	0.530299	3.302761	0.399291	1.122527	1.044076	1.483918	-19.3866	-0.008565	62.449885	150.7723	1.018988
14799_001669.LAB	1/11/2024	12:25:58	17.358253	0.66159	0.60675	0.002217	0.665427	-0.19922	0.562972	8.204944	0.514402	3.163114	0.399485	1.038082	1.527643	1.31168	-17.0953	-0.007511	54.293274	150.9179	1.018855
14799_001670.LAB	1/11/2024	12:26:59	16.923565	0.711599	0.608244	-0.00452	0.66616	-0.20111	0.56003	8.090739	0.525833	3.187224	0.381376	1.127923	1.446667	1.356505	-12.8751	-0.007931	52.819908	150.7819	1.018884
14799_001671.LAB	1/11/2024	12:28:00	14.623109	0.764671	0.570492	-0.00698	0.661247	-0.19852	0.572759	7.287784	0.532296	3.197676	0.393734	0.958878	1.930389	1.144942	-15.3099	-0.007236	44.927345	150.7179	1.018689
14799_001672.LAB	1/11/2024	12:29:01	12.767345	0.571464	0.58161	-0.00167	0.62214	-0.28579	0.546847	6.56316	0.45831	3.163111	0.377693	1.138162	1.821687	0.928064	-17.9163	-0.006394	38.306031	150.6856	1.018672
14799_001673.LAB	1/11/2024	12:30:02	10.967675	0.536595	0.652275	-0.00594	0.61572	-0.34823	0.539652	5.864955	0.423794	3.103636	0.386075	1.034135	2.388876	0.685185	-19.1421	-0.006684	32.838025	150.725	1.018857
14799_001674.LAB	1/11/2024	12:31:03	5.578826	0.520321	0.629749	-0.00488	0.589026	-0.48811	0.446195	3.629966	0.407925	3.138378	0.363249	0.944593	2.756717	0.483704	-17.3271	-0.006434	13.386129	150.7653	1.018716
14799_001675.LAB	1/11/2024	12:32:04	2.298038	0.536165	0.545086	0.000638	0.566817	-0.58236	0.4717	1.906752	0.318758	3.232883	0.32724	0.78926	2.863561	0.50895	-19.4658	-0.006241	3.841624	150.7793	1.018539
14799_001676.LAB	1/11/2024	12:33:05	2.400171	0.556728	0.560469	-0.00155	0.556493	-0.54887	0.44642	1.769901	0.278318	3.294133	0.33866	0.789056	2.634548	0.462504	-22.4135	-0.005339	6.138183	150.7986	1.018434
14799_001677.LAB	1/11/2024	12:34:05	5.833108	0.556609	0.546063	-0.00468	0.563484	-0.402	0.577708	3.502661	0.222349	3.308992	0.391459	0.92073	2.123542	0.663675	-17.5524	-0.005513	19.625945	150.7144	1.018423
14799_001678.LAB	1/11/2024	12:35:06	5.859817	0.60043	0.515434	-0.01075	0.575412	-0.43693	0.554683	3.711154	0.251791	3.258299	0.380608	0.924326	2.089709	0.745941	-14.8986	-0.006241	18.720995	150.7109	1.018561
14799_001679.LAB	1/11/2024	12:36:07	2.973017	0.538942	0.447032	0.002196	0.564281	-0.53988	0.507712	2.315738	0.246134	3.123036	0.362004	0.787859	2.604655	0.690501	-13.5593	-0.005661	8.023256	150.8181	1.018645
14799_001680.LAB	1/11/2024	12:37:08	3.914567	0.533103	0.524106	-0.0012	0.577909	-0.50826	0.502567	2.611653	0.205224	3.0732	0.35002	0.773954	2.422831	0.525688	-18.9708	-0.006061	12.82581	150.7355	1.018622
14799_001681.LAB	1/11/2024	12:38:09	4.866037	0.535322	0.591122	0.006173	0.595053	-0.48661	0.488546	3.15516	0.215077	3.135738	0.357095	0.745261	2.260184	0.528695	-24.7709	-0.005479	15.731967	150.7477	1.018406
14799_001682.LAB	1/11/2024	12:39:10	4.603838	0.530059	0.525237	-0.00583	0.593727	-0.50003	0.498193	3.034555	0.216996	3.208418	0.357567	0.801002	2.581737	0.71112	-18.8836	-0.005281	14.712267	150.7372	1.018229
14799_001683.LAB	1/11/2024	12:40:10	4.447874	0.603348	0.503963	0.00396	0.601011	-0.4661	0.45876	2.994425	0.214187	3.259198	0.375672	0.811983	3.239678	0.500029	-21.6385	-0.004286	14.738915	150.7653	1.018578
14799_001684.LAB	1/11/2024	12:41:12	4.474629	0.599941	0.487036	-0.00203	0.604649	-0.52998	0.472718	3.012138	0.216567	3.274972	0.368347	0.923912	1.913449	0.501817	-19.823	-0.0041	15.251239	150.7336	1.018378
14799_001685.LAB	1/11/2024	12:42:12	4.220844	0.61256	0.492193	0.001986	0.610479	-0.45142	0.595576	2.983143	0.23266	3.344007	0.356761	0.884863	2.206052	0.8593	-21.7077	-0.005436	14.42071	150.7017	1.018334
14799_001686.LAB	1/11/2024	12:43:13	4.347673	0.464097	0.674829	0.008439	0.592845	-0.54905	0.583992	2.872858	0.319433	3.410347	0.378845	0.98706	1.993465	0.116496	-21.0504	-0.00571	14.483774	150.6249	1.018101
14799_001687.LAB	1/11/2024	12:44:14	4.034286	0.454487	0.634506	0.007977	0.587423	-0.54048	0.596638	2.739899	0.291404	3.461636	0.377294	1.048118	2.429982	0.208439	-20.7348	-0.007425	13.372623	150.7043	1.018307
14799_001688.LAB	1/11/2024	12:45:15	3.723635	0.394639	0.609635	0.007018	0.584086	-0.55292	0.559931	2.582632	0.282051	3.460093	0.37837	0.940276	2.425512	0.283499	-18.2434	-0.006824	12.095997	150.7513	1.018256
14799_001689.LAB	1/11/2024	12:46:15	3.375394	0.482744	0.508834	0.005894	0.597827	-0.49316	0.545785	2.362461	0.300672	3.526191	0.360981	1.058298	2.477475	0.222923	-26.6416	-0.00623	10.172757	150.6793	1.01819
14799_001690.LAB	1/11/2024	12:47:16	3.192298	0.505349	0.568028	-0.00193	0.61003	-0.55488	0.552286	2.276749	0.261342	3.580507	0.371691	0.939682	2.540202	0.195525	-23.4541	-0.006049	9.892064	150.66	1.018262
14799_001691.LAB	1/11/2024	12:48:17	2.73732	0.503098	0.573293	0.010476	0.609216	-0.55812	0.516438	2.045319	0.242784	3.561525	0.364275	0.963764	2.694047	0.078744	-22.5151	-0.004915	8.364519	150.653	1.018395
14799_001692.LAB	1/11/2024	12:49:18	2.482453	0.469885	0.519331	0.007852	0.584622	-0.57616	0.583062	1.827867	0.247086	3.480163	0.362965	0.91473	2.811176	0.177427	-25.2163	-0.005743	7.459861	150.7178	1.018486
14799_001693.LAB	1/11/2024	12:50:19	2.189876	0.492454	0.499908	0.008056	0.595585	-0.62713	0.528305	1.801654	0.229616	3.53865	0.368449	0.870345	2.751275	0.187419	-27.8167	-0.006276	6.300664	150.7056	1.018223
14799_001694.LAB	1/11/2024	12:51:20	2.021123	0.431466	0.524788	0.004964	0.585264	-0.60858	0.545542	1.576447	0.215515	3.510119	0.374883	0.941299	2.414523	0.253066	-22.6683	-0.005987	5.674914	150.6618	1.018201
14799_001695.LAB	1/11/2024	12:52:21	1.733102	0.509901	0.511752	0.008069	0.575804	-0.5607	0.538516	1.430936	0.183389	3.420458	0.3642	0.911299	2.572682	0.028102	-19.2948	-0.004794	5.490043	150.6821	1.018024
14799_001696.LAB	1/11/2024	12:53:22	1.492179	0.506984	0.588898	0.011541	0.571541	-0.55717	0.526354	1.207486	0.194543	3.417409	0.349526	0.86106	2.596344	-0.13481	-20.7292	-0.003888	4.043289	150.6583	1.018162
14799_001697.LAB	1/11/2024	12:54:22	1.340867	0.507993	0.503016	0.009139	0.575229	-0.54319	0.531302	1.103949	0.179872	3.412584	0.354048	0.853064	2.557776	-0.10143	-17.1909	-0.003365	3.809072	150.6749	1.018041
14799_001698.LAB	1/11/2024	12:55:24	1.193826	0.444979	0.475661	0.009488	0.582283	-0.59288	0.516028	1.015594	0.155604	3.408508	0.369307	0.895621	2.580275	-0.07583	-17.4133	-0.00544	3.125698	150.7178	1.018091
14799_001699.LAB	1/11/2024	12:56:24	0.83351	0.501332	0.480334	0.015165	0.588978	-0.60378	0.515157	0.868837	0.155519	3.391368	0.357837	0.810586	2.352774	-0.11302	-22.7672	-0.004318	2.194787	150.8969	1.018107
14799_001700.LAB	1/11/2024	12:57:25	0.787084	0.47248	0.497431	0.00883	0.589589	-0.64882	0.486285	0.802401	0.160585	3.536062	0.362423	0.760875	2.441187	-0.03709	-22.508	-0.005235	1.845146	150.9179	1.018057
14799_001701.LAB	1/11/2024	12:58:26	0.752961	0.53984	0.540821	0.003646	0.58992	-0.6015	0.472607	0.671889	0.138488	3.581722	0.353099	0.792963	2.876184	-0.10855	-24.8326	-0.003601	1.456106	150.7758	1.018124
14799_001702.LAB	1/11/2024	12:59:27	0.700194	0.475997	0.515113	0.007713	0.593256	-0.63386	0.474095	0.644449	0.13794	3.590826	0.375239	0.786317	2.944251	-0.04113	-20.2088	-0.004451	1.23427	150.6714	1.018007
14799_001703.LAB	1/11/2024	13:00:28	0.634788	0.456745	0.51784	0.002319	0.581784	-0.57892	0.529913	0.572529	0.133149	3.621964	0.366162	0.764572	2.479739	-0.00642	-24.0719	-0.005479	0.930385	150.6715	1.01791
14799_001704.LAB	1/11/2024	13:01:29	0.60512	0.449088	0.477874	0.007305	0.579398	-0.59139	0.535057	0.549235	0.139188	3.502318	0.36491	0.789688	2.105737	0.004727	-19.5208	-0.005388	1.131179	150.7162	1.018018
14799_001705.LAB	1/11/2024	13:02:29	0.637377	0.440233	0.459118	0.008612	0.576879	-0.57028	0.526451	0.579538	0.104929	3.475142	0.370486	0.796524	2.543158	0.185535	-24.0633	-0.005985	1.071155	150.7302	1.018229
14799_001706.LAB	1/11/2024	13:03:30	0.682672	0.458433	0.464867	0.006686	0.581805	-0.60046	0.534961	0.576	0.113352	3.515205	0.363223	0.840889	3.018828	0.001014	-19.2049	-0.005516	1.143103	150.7109	1.017957
14799_001707.LAB	1/11/2024	13:04:31	0.68376	0.501237	0.42982	0.007792	0.589966	-0.63013	0.526618	0.571335	0.110179	3.559131	0.351268	0.799619	2.804753	-0.00422	-23.0081	-0.005354	1.353702	150.6785	1.018119
14799_001708.LAB	1/11/2024	13:05:32	2.862605	0.498799	0.504061	0.007993	0.606567	-0.47952	0.467936	1.721816	0.082343	3.60327	0.366649	0.92898	2.538849	0.062106	-21.8377	-0.004267	10.706783	150.7127	1.017991
14799_001709.LAB	1/11/2024	13:06:33	3.523821	0.550436	0.568405	0.007672	0.616899	-0.48217	0.518384	2.272894	0.125261	3.637117	0.402754	1.022648	2.329428	0.005127	-25.295	-0.005615	12.687714	150.7776	1.01773

14799_001734.LAB	1/11/2024	13:31:54	0.365275	0.545247	0.433861	0.007434	0.597746	-0.63678	0.505968	0.21546	0.032486	3.575159	0.332159	0.742064	2.858204	-0.1914	-25.8105	-0.004959	0.086803	150.7963	1.017854
14799_001735.LAB	1/11/2024	13:32:55	24.03201	0.571682	-0.62974	0.003085	0.604952	0.615208	0.938574	8.830978	0.057443	3.745076	0.56293	3.235359	1.288089	0.951754	-21.6853	-0.015694	73.261127	150.8583	1.017874
14799_001736.LAB	1/11/2024	13:33:56	2.2046	0.448095	0.517193	0.004358	0.277698	-0.62486	0.045315	1.725952	0.180858	3.032285	0.356905	1.365592	2.832847	-0.02005	-19.9735	-0.003838	2.512784	150.7898	1.017702
14799_001737.LAB	1/11/2024	13:34:57	1.905597	0.674875	0.509547	0.008715	1.162279	-0.69813	0.112756	1.571729	0.219199	4.322113	0.3274	1.439492	3.675562	-0.58557	-28.6624	-0.005059	0.999272	150.746	1.017708
14799_001738.LAB	1/11/2024	13:35:58	1.222492	0.541458	0.546428	0.008999	0.490072	-0.56481	0.45812	0.748634	0.099044	3.414219	0.356262	0.912704	2.921	0.020507	-21.1708	-0.005246	0.351768	150.7618	1.017597
14799_001739.LAB	1/11/2024	13:36:59	3.381135	0.553086	0.515141	0.005379	0.436314	-0.551	0.46782	1.74982	0.070343	3.267992	0.35752	0.832748	2.736715	0.300347	-21.687	-0.005703	11.913881	150.7284	1.01763
14799_001740.LAB	1/11/2024	13:37:59	10.642006	0.649577	0.236561	0.00605	0.473463	-0.36961	0.603842	4.299726	0.033068	3.35628	0.364599	1.228966	2.2835	1.470743	-19.368	-0.008969	37.786174	150.7092	1.017498
14799_001741.LAB	1/11/2024	13:39:00	16.045007	0.590268	0.457454	-0.00177	0.642216	-0.14469	0.771227	6.794352	0.141108	3.561004	0.400605	1.694543	2.181615	1.29231	-22.4004	-0.008487	49.799051	150.6513	1.017525
14799_001742.LAB	1/11/2024	13:40:01	23.486048	0.650735	0.552621	-0.00522	0.774752	0.114616	0.794471	10.04291	0.445112	3.712018	0.417518	2.133103	1.945691	0.833473	-24.123	-0.009326	66.43023	150.6936	1.017381
14799_001743.LAB	1/11/2024	13:41:02	23.089227	0.716829	0.562546	0.008736	0.784804	0.076889	0.707033	9.94492	0.535889	3.706511	0.414433	2.150298	1.475918	0.747947	-22.5258	-0.008944	66.603227	150.7767	1.017629
14799_001744.LAB	1/11/2024	13:42:03	14.278194	0.683816	0.608165	0.004138	0.74317	-0.24846	0.636235	7.223892	0.548066	3.692905	0.420404	1.688732	2.254175	0.407334	-20.8721	-0.008165	40.147416	150.8846	1.017348
14799_001745.LAB	1/11/2024	13:43:04	10.847572	0.695008	0.595033	0.009802	0.723662	-0.37208	0.551569	5.43282	0.401056	3.686809	0.405954	1.298353	1.938023	0.27805	-18.5774	-0.006931	32.439677	150.8249	1.01757
14799_001746.LAB	1/11/2024	13:44:05	14.064517	0.661984	0.664778	0.004164	0.719969	-0.24231	0.636934	6.797487	0.423243	3.684825	0.397702	1.453164	1.897403	0.443422	-22.8537	-0.00741	44.041328	150.8425	1.017558
14799_001747.LAB	1/11/2024	13:45:06	16.625447	0.678078	0.596651	0.002989	0.733057	-0.16857	0.652436	7.783577	0.497503	3.74133	0.416397	1.713421	2.181039	0.535753	-19.9714	-0.009536	49.071253	150.8618	1.017481
14799_001748.LAB	1/11/2024	13:46:06	13.421915	0.727397	0.613042	0.00386	0.719296	-0.27923	0.610498	6.473203	0.453442	3.729227	0.39544	1.527028	2.383175	0.326517	-19.2	-0.008183	40.124406	150.7635	1.017442
14799_001749.LAB	1/11/2024	13:47:07	17.701421	0.649798	0.580399	0.003165	0.735983	-0.109	0.617356	7.841078	0.429331	3.704993	0.390973	1.682448	1.909811	0.557788	-22.7228	-0.009328	55.278143	150.7379	1.017414
14799_001750.LAB	1/11/2024	13:48:08	10.697137	0.620716	0.559407	0.004219	0.700284	-0.31817	0.560292	5.592735	0.409095	3.592421	0.380471	1.589807	2.830704	0.231291	-19.5244	-0.006908	30.457324	150.8635	1.017536
14799_001751.LAB	1/11/2024	13:49:09	13.305917	0.642793	0.473314	-0.00259	0.722542	-0.297	0.547362	6.580182	0.439929	3.648163	0.403654	1.772686	3.140768	0.563258	-22.1103	-0.008693	38.776042	150.8214	1.01742
14799_001752.LAB	1/11/2024	13:50:10	14.797055	0.701203	0.570082	0.006657	0.716468	-0.21566	0.593477	6.935388	0.418329	3.667943	0.394575	1.744886	2.594724	0.294674	-22.4954	-0.009406	44.464934	150.7319	1.017414
14799_001753.LAB	1/11/2024	13:51:11	13.037048	0.682329	0.639491	0.003926	0.710284	-0.25928	0.536978	6.262418	0.424426	3.66936	0.390681	1.715625	2.62761	0.321834	-18.3224	-0.008394	40.002984	150.7353	1.017311
14799_001754.LAB	1/11/2024	13:52:11	20.849696	0.629893	0.60597	0.003282	0.738884	-0.10273	0.615387	9.247461	0.440262	3.711695	0.406652	1.904757	1.964227	0.935634	-20.2931	-0.008747	65.757629	150.6999	1.017302
14799_001755.LAB	1/11/2024	13:53:13	22.7808	0.662052	0.809004	0.003374	0.747006	-0.09688	0.643326	10.44514	0.60764	3.71621	0.404898	2.038656	1.765904	0.661973	-19.2865	-0.009232	71.276533	150.6353	1.0173
14799_001756.LAB	1/11/2024	13:54:13	26.22686	0.65006	0.900285	0.00167	0.762723	0.066348	0.650531	11.43529	0.638841	3.740932	0.426591	2.056302	1.414135	1.00236	-18.2952	-0.008028	83.610006	150.6197	1.017381
14799_001757.LAB	1/11/2024	13:55:14	35.393345	0.710528	0.937105	0.000392	0.822779	0.341819	0.744793	14.94846	0.813903	3.828637	0.421096	2.409834	0.455401	1.246233	-19.7927	-0.012619	112.61962	150.666	1.017184
14799_001758.LAB	1/11/2024	13:56:15	20.75018	0.709765	0.785914	0.008226	0.726086	-0.20059	0.579932	9.662288	0.70267	3.630872	0.390823	1.907344	1.658991	0.724038	-21.5588	-0.008075	61.589364	150.675	1.017365
14799_001759.LAB	1/11/2024	13:57:16	22.285562	0.67768	0.811973	0.00242	0.738571	-0.1094	0.563096	9.833708	0.644909	3.688773	0.408485	1.83092	2.041658	0.628599	-22.0962	-0.008777	68.035272	150.7092	1.017193
14799_001760.LAB	1/11/2024	13:58:17	32.713884	0.703256	1.001845	-0.00851	0.807842	-0.216656	0.660436	13.94738	0.774393	3.828473	0.414788	2.236239	1.747053	1.011511	-20.217	-0.010814	102.4975	150.7642	1.017229
14799_001761.LAB	1/11/2024	13:59:17	27.287153	0.65539	0.916708	-0.00142	0.791523	-0.02537	0.619034	12.40618	0.8217	3.76502	0.371771	2.145486	2.089547	0.890196	-20.8978	-0.010657	83.144336	150.7513	1.017122
14799_001762.LAB	1/11/2024	14:00:19	31.668502	0.720681	0.912447	-0.00339	0.802573	0.14044	0.618883	13.67802	0.800621	3.799558	0.411689	2.10094	1.697107	1.051345	-19.8997	-0.011793	99.204336	150.737	1.017267
14799_001763.LAB	1/11/2024	14:01:19	26.529601	0.727234	0.976132	-0.00134	0.754542	-0.02479	0.607805	11.86975	0.793351	3.761735	0.412061	1.954803	1.666426	0.71308	-18.9105	-0.009676	81.561047	150.7267	1.017122
14799_001764.LAB	1/11/2024	14:02:20	26.057148	0.66441	0.844529	0.001922	0.731472	-0.03608	0.585853	11.53576	0.759884	3.761668	0.407501	1.914541	1.457809	0.9297	-23.0018	-0.009264	80.639252	150.7088	1.017465
14799_001765.LAB	1/11/2024	14:03:21	27.612444	0.657412	0.94276	0.00693	0.740077	-0.04507	0.541511	12.13286	0.771185	3.702619	0.404948	1.900124	1.734717	1.023064	-16.3478	-0.009289	85.411735	150.7853	1.017267
14799_001766.LAB	1/11/2024	14:04:22	29.07783	0.698702	0.890281	0.001348	0.741112	-0.03277	0.580944	12.54433	0.802912	3.695709	0.408467	1.910424	1.646541	1.281038	-20.1032	-0.009848	89.984287	150.7499	1.017133
14799_001767.LAB	1/11/2024	14:05:23	27.233471	0.727232	0.968368	0.00033	0.729815	-0.04779	0.603635	12.00753	0.833658	3.633306	0.390805	1.886371	1.236651	1.001218	-20.2867	-0.010108	82.981976	150.746	1.017243
14799_001768.LAB	1/11/2024	14:06:23	30.186147	0.650666	0.931486	-0.00265	0.752742	-0.008634	0.613892	12.99431	0.821112	3.612486	0.391027	1.912574	1.362699	1.05549	-13.8142	-0.011175	93.257333	150.7422	1.017196
14799_001769.LAB	1/11/2024	14:07:24	29.096503	0.724596	0.984627	-0.00323	0.745498	-0.02201	0.629058	12.79307	0.863757	3.620089	0.39934	1.89786	1.320378	1.088819	-16.9725	-0.009688	89.401907	150.7379	1.017248
14799_001770.LAB	1/11/2024	14:08:25	27.332126	0.697767	1.009154	0.004442	0.734852	0.015327	0.602873	12.12366	0.823349	3.530689	0.414112	1.762024	0.669769	0.830478	-15.67	-0.010768	83.185747	150.7838	1.017381
14799_001771.LAB	1/11/2024	14:09:26	25.76686	0.761894	0.939806	-0.00494	0.721251	-0.05563	0.609509	11.61688	0.820604	3.545646	0.395088	1.607981	1.265569	0.88527	-13.9507	-0.008628	78.222747	150.7319	1.018552
14799_001772.LAB	1/11/2024	14:10:27	24.416469	0.658808	0.852528	-0.00667	0.706647	-0.07768	0.577994	10.98247	0.808268	3.60269	0.394537	1.531746	0.990444	0.837523	-13.9199	-0.009059	75.009929	150.7881	1.018046
14799_001773.LAB	1/11/2024	14:11:28	25.212197	0.705359	0.956173	0.003076	0.713783	-0.05448	0.590275	11.44614	0.809179	3.670993	0.383751	1.543643	1.057046	0.962015	-16.6473	-0.009741	76.457593	150.7284	1.017896
14799_001774.LAB	1/11/2024	14:12:29	23.795981	0.731252	0.933877	0.002097	0.688288	-0.11402	0.579201	10.80357	0.787683	3.678806	0.374147	1.526862	1.437892	0.772417	-22.0935	-0.009509	72.547506	150.7144	1.018013
14799_001775.LAB	1/11/2024	14:13:30	22.568374	0.695957	0.907762	-0.00213	0.682809	-0.15364	0.537717	10.31449	0.792199	3.701644	0.399503	1.502498	1.275349	0.77911	-22.2684	-0.008212	68.943954	150.6776	1.0179

14799_001800.LAB	1/11/2024	14:38:51	1.160615	0.512936	0.493748	0.001585	0.578857	-0.63885	0.489995	1.099625	0.194907	3.49136	0.368318	0.774364	2.191575	0.04951	-26.3662	-0.003793	3.556143	150.7495	1.017597
14799_001801.LAB	1/11/2024	14:39:52	0.99119	0.60996	0.522869	0.006442	0.577605	-0.63296	0.509693	1.04156	0.168699	3.460504	0.362632	0.778351	2.336026	-0.175	-23.4482	-0.003863	3.097504	150.6653	1.017697
14799_001802.LAB	1/11/2024	14:40:53	1.096001	0.539668	0.456618	0.00674	0.584015	-0.6361	0.526598	0.987321	0.187931	3.529491	0.359803	0.739097	2.527223	0.020361	-22.5938	-0.004264	2.96548	150.656	1.017523
14799_001803.LAB	1/11/2024	14:41:53	0.970692	0.553699	0.462262	0.003535	0.57207	-0.60648	0.554292	0.956141	0.176367	3.53694	0.393309	0.779869	2.316199	0.139766	-17.9976	-0.004907	2.464518	150.6881	1.017558
14799_001804.LAB	1/11/2024	14:42:54	1.039047	0.534465	0.523623	0.006425	0.574762	-0.63002	0.562344	0.920399	0.147353	3.596512	0.35859	0.845239	2.166828	0.045197	-19.7356	-0.003782	2.770319	150.7249	1.017498
14799_001805.LAB	1/11/2024	14:43:55	0.646591	0.55011	0.493886	0.011073	0.569948	-0.67612	0.52009	0.704761	0.174296	3.592184	0.381444	0.824259	2.639674	-0.04902	-23.5196	-0.003997	1.0688	150.6934	1.017697
14799_001806.LAB	1/11/2024	14:44:56	0.477304	0.619726	0.463897	-0.0011	0.574725	-0.66123	0.529016	0.469829	0.160138	3.562848	0.390692	0.755016	2.331376	-0.02637	-21.641	-0.005033	0.229647	150.6881	1.017531
14799_001807.LAB	1/11/2024	14:45:57	0.473946	0.573273	0.426337	-0.00081	0.584432	-0.69885	0.46024	0.352002	0.121199	3.534484	0.366967	0.776098	2.8534	-0.01996	-17.9712	-0.003724	0.341631	150.7565	1.017558
14799_001808.LAB	1/11/2024	14:46:58	0.372111	0.571807	0.491726	0.002905	0.585324	-0.65814	0.469573	0.348382	0.110025	3.515941	0.384294	0.680563	0.088786	-0.3929	-23.5918	-0.00437	0.375281	150.7846	1.017647
14799_001809.LAB	1/11/2024	14:47:59	0.33062	0.45214	0.433206	0.00447	0.594338	-0.68334	0.450142	0.321096	0.101931	3.486652	0.355547	0.715558	2.576314	-0.20237	-24.7956	-0.00458	0.346788	150.8091	1.017536
14799_001810.LAB	1/11/2024	14:49:00	0.366741	0.553906	0.490302	0.007454	0.583681	-0.67197	0.463004	0.335502	0.091339	3.471649	0.348125	0.622553	2.753232	-0.28266	-23.0632	-0.004195	0.066567	150.7784	1.01755
14799_001811.LAB	1/11/2024	14:50:01	0.329936	0.544448	0.510774	0.009594	0.590463	-0.63067	0.447715	0.292474	0.092683	3.484784	0.366518	0.639345	2.975269	-0.20111	-23.3855	-0.004662	0.129322	150.7793	1.017481
14799_001812.LAB	1/11/2024	14:51:01	0.301296	0.535371	0.440811	0.001092	0.591302	-0.71681	0.489916	0.348694	0.093737	3.497426	0.387479	0.665471	2.555872	-0.20645	-20.9378	-0.00508	0.031433	150.6653	1.01732
14799_001813.LAB	1/11/2024	14:52:02	0.443984	0.562498	0.424467	0.008029	0.588009	-0.68077	0.498428	0.24786	0.114266	3.52992	0.375077	0.733162	2.814733	-0.08176	-16.9776	-0.004358	-0.072736	150.7109	1.017309
14799_001814.LAB	1/11/2024	14:53:03	3.375861	0.56723	0.502169	0.008077	0.598292	-0.53031	0.559527	0.201877	0.095045	3.569557	0.394044	0.872986	2.342874	0.034009	-20.819	-0.004531	14.100965	150.7974	1.017376
14799_001815.LAB	1/11/2024	14:54:04	2.524934	0.567971	0.518784	-0.00028	0.605255	-0.6342	0.576001	1.963472	0.126238	3.633207	0.385819	1.122857	2.658979	0.104925	-22.9158	-0.00621	8.374443	150.9372	1.017498
14799_001816.LAB	1/11/2024	14:55:05	3.804262	0.633796	0.551146	0.001353	0.610094	-0.64507	0.573266	2.488199	0.14924	3.662415	0.384012	0.969139	2.511635	0.191161	-19.3831	-0.004833	13.901508	150.6969	1.017464
14799_001817.LAB	1/11/2024	14:56:06	1.658695	0.554516	0.527819	0.006431	0.611097	-0.72112	0.530479	1.386002	0.138276	3.589512	0.380082	1.039826	2.654907	0.057552	-20.9954	-0.004894	4.284518	150.7302	1.017481
14799_001818.LAB	1/11/2024	14:57:06	1.475235	0.618134	0.519259	0.005685	0.6101052	-0.77966	0.489015	1.002517	0.112925	3.592813	0.362412	0.906581	2.585566	0.027945	-18.8117	-0.004443	4.739889	150.7127	1.017558
14799_001819.LAB	1/11/2024	14:58:07	3.414036	0.587611	0.517278	0.000045	0.616079	-0.62207	0.560743	2.266069	0.124966	3.595522	0.38098	1.127924	2.510835	0.114893	-22.1502	-0.005053	12.403699	150.7495	1.017486
14799_001820.LAB	1/11/2024	14:59:08	2.788757	0.628135	0.529127	0.004963	0.619384	-0.66049	0.525455	1.996768	0.121541	3.493176	0.368036	1.096284	2.691268	-0.03749	-18.0119	-0.004739	9.365606	150.7565	1.01732
14799_001821.LAB	1/11/2024	15:00:09	2.705419	0.524167	0.50934	0.004399	0.615728	-0.67486	0.532765	1.979142	0.117279	3.435313	0.388576	1.077537	2.706583	0.021756	-19.4961	-0.004158	9.15666	150.7508	1.017365
14799_001822.LAB	1/11/2024	15:01:10	2.657208	0.585769	0.494776	0.00712	0.612519	-0.70281	0.484681	1.843085	0.156906	3.460465	0.378911	1.076222	2.992877	-0.0475	-22.083	-0.004502	8.42235	150.7606	1.017375
14799_001823.LAB	1/11/2024	15:02:11	2.671857	0.560465	0.518347	0.004533	0.612055	-0.64698	0.546051	1.908855	0.138165	3.48082	0.395397	1.034105	2.951228	0.037687	-20.3647	-0.005082	9.083399	150.737	1.017311
14799_001824.LAB	1/11/2024	15:03:12	2.641657	0.575012	0.562091	0.004666	0.61177	-0.64147	0.509457	1.837771	0.116473	3.478276	0.369035	1.091217	2.669268	-0.08949	-18.6763	-0.005252	8.691339	150.7372	1.017287
14799_001825.LAB	1/11/2024	15:04:13	2.531594	0.574721	0.490908	0.00812	0.613831	-0.61782	0.50229	1.811862	0.127861	3.530768	0.398943	1.129667	2.773545	-0.0306	-23.9387	-0.004724	8.224343	150.639	1.017004
14799_001826.LAB	1/11/2024	15:05:13	2.414037	0.667009	0.522145	0.007306	0.599787	-0.62489	0.567225	1.803809	0.136897	3.560445	0.376093	1.160204	2.83846	0.05291	-21.8262	-0.004981	7.741298	150.6934	1.017248
14799_001827.LAB	1/11/2024	15:06:14	2.3328	0.562247	0.558274	0.011276	0.598218	-0.68132	0.521184	1.650077	0.125907	3.595919	0.363014	1.0255	2.759701	-0.01234	-21.5701	-0.003918	7.189815	150.6839	1.017031
14799_001828.LAB	1/11/2024	15:07:15	2.140125	0.561087	0.484154	0.006957	0.602814	-0.69455	0.534494	1.578526	0.125	3.547543	0.344582	1.136735	2.956136	0.092034	-25.5571	-0.003334	6.744772	150.6974	1.017087
14799_001829.LAB	1/11/2024	15:08:16	1.94378	0.605021	0.435061	0.006127	0.610271	-0.65839	0.541442	1.484999	0.129406	3.528836	0.387299	1.088453	2.783694	0.075929	-22.7819	-0.005098	6.139627	150.746	1.017182
14799_001830.LAB	1/11/2024	15:09:17	1.866182	0.532198	0.520824	0.00854	0.610362	-0.68247	0.492631	1.428499	0.122149	3.529056	0.36407	1.011845	3.161315	0.093238	-18.5228	-0.004876	5.826132	150.767	1.017187
14799_001831.LAB	1/11/2024	15:10:17	1.725389	0.550734	0.4706	0.003788	0.610466	-0.63122	0.513397	1.336876	0.109993	3.608391	0.390786	1.066781	3.006307	0.0038	-22.9416	-0.004816	5.539273	150.8284	1.017259
14799_001832.LAB	1/11/2024	15:11:19	1.726732	0.508016	0.4438	0.001684	0.601131	-0.66703	0.526006	1.313762	0.076131	3.496456	0.380124	1.041512	2.745545	-0.02881	-18.0649	-0.004459	5.27609	150.6801	1.01706
14799_001833.LAB	1/11/2024	15:12:19	1.582646	0.636562	0.504053	0.008505	0.603912	-0.69224	0.508212	1.253536	0.081953	3.476305	0.379949	0.985375	3.139603	0.018983	-18.6101	-0.004843	4.921046	150.7127	1.017292
14799_001834.LAB	1/11/2024	15:13:20	1.622682	0.548464	0.515547	0.001703	0.599381	-0.69085	0.503275	1.206693	0.080386	3.46811	0.385866	1.033559	3.26695	-0.11645	-15.4094	-0.004783	4.879073	150.6741	1.017021
14799_001835.LAB	1/11/2024	15:14:21	1.941427	0.56297	0.45601	0.001673	0.605027	-0.61899	0.58901	1.461961	0.110787	3.489891	0.391766	1.061353	2.830848	0.195717	-21.1875	-0.005711	6.898643	150.6811	1.017043
14799_001836.LAB	1/11/2024	15:15:22	1.958041	0.585197	0.537679	0.001814	0.59103	-0.7089	0.520178	1.500368	0.089477	3.424189	0.383418	0.9254	3.148609	0.035446	-18.6272	-0.004041	6.646027	150.7092	1.017198
14799_001837.LAB	1/11/2024	15:16:23	1.886058	0.585131	0.474195	0.008397	0.595817	-0.66853	0.565974	1.416415	0.092425	3.467075	0.398087	0.975452	2.96283	0.06223	-21.8686	-0.005359	6.041921	150.6811	1.017381
14799_001838.LAB	1/11/2024	15:17:23	1.715239	0.545901	0.51782	0.008849	0.59429	-0.60299	0.584094	1.296793	0.093352	3.478784	0.392826	1.033184	2.992989	0.032584	-19.4159	-0.005887	5.493907	150.7284	1.017348
14799_001839.LAB	1/11/2024	15:18:24	1.60433	0.597706	0.489523	0.003351	0.599623	-0.67181	0.54286	1.235072	0.112765	3.518119	0.381238	1.004066	3.007965	-0.16189	-24.6363	-0.003953	4.844382	150.8583	1.017287
14799_001840.LAB	1/11/2024	15:19:25	1.385824	0.633461	0.513791	0.002336	0.605424	-0.69563	0.491762	1.147724	0.089924	3.542634	0.386936	1.051043	3.013538	-0.14993	-23.7283	-0.002562	4.254764	150.8969	1.01716
14799_001841.LAB	1/11/2024	15:20:26	1.291425	0.590093	0.524211	0.009813	0.600725	-0.64347	0.526409	1.085494	0.075359	3.561438	0.383952	0.933444	2.756472	-0.12633	-21.9867	-0.005136	3.638604	150.832	1.017198
14799_001842.LAB	1/11/2024																				

14799_001866.LAB	1/11/2024	15:45:48	0.137662	0.578001	0.331615	0.001772	0.592505	-0.76495	0.460604	0.259558	-0.04175	3.132092	0.330938	0.724521	3.191658	0.370672	-16.8419	-0.003437	0.577361	150.7969	1.015874
14799_001867.LAB	1/11/2024	15:46:48	0.18243	0.63198	0.256923	-0.00191	0.598652	-0.73032	0.507964	0.201235	-0.04922	3.214234	0.379442	0.729998	3.1918	0.475141	-13.2289	-0.004891	0.395199	150.7905	1.015954
14799_001868.LAB	1/11/2024	15:47:49	0.133585	0.598019	0.287856	0.00237	0.59452	-0.76022	0.44617	0.207961	-0.03975	3.222885	0.363463	0.765591	3.307019	0.55985	-19.3359	-0.00445	0.199155	150.8635	1.016257
14799_001869.LAB	1/11/2024	15:48:50	0.07175	0.649471	0.37189	-0.00035	0.602233	-0.77358	0.452679	0.231001	-0.05724	3.292503	0.372913	0.649574	3.587639	0.202638	-16.0643	-0.00363	0.782963	150.9495	1.015985
Averages												3.5101072							36.023904		Run 1
14799_001870.LAB	1/11/2024	15:49:51	0.140325	0.7	0.364304	-0.00241	0.603131	-0.78266	0.418583	0.205393	-0.05893	3.260104	0.352383	0.757319	3.464067	0.195614	-22.2372	-0.004155	0.458787	150.8302	1.010218
14799_001871.LAB	1/11/2024	15:50:52	0.222197	0.727353	0.367599	0.000768	0.606557	-0.69862	0.429657	0.238971	-0.06223	3.252143	0.355516	0.939247	3.69449	0.012854	-22.3319	-0.003336	0.565563	150.8039	0.998346
14799_001872.LAB	1/11/2024	15:51:53	0.106509	0.649616	0.446151	-0.0015	0.604911	-0.73456	0.424383	0.205484	-0.0514	3.251159	0.363221	1.395362	3.134422	0.166479	-20.2672	-0.003122	0.755817	150.6478	0.998302
14799_001873.LAB	1/11/2024	15:52:54	0.183684	0.625209	0.434902	-0.00113	0.605788	-0.75678	0.419832	0.212467	-0.05907	3.253872	0.383785	1.653083	3.057992	0.093943	-13.8418	-0.004197	0.556589	150.8267	0.998505
14799_001874.LAB	1/11/2024	15:53:54	0.208567	0.676329	0.599765	-0.00201	0.606143	-0.74318	0.411523	0.23946	-0.06224	3.254116	0.378015	1.899381	2.573156	-0.05591	-16.4844	-0.004229	0.373368	150.9863	0.998274
14799_001875.LAB	1/11/2024	15:54:55	0.090024	0.686316	0.548581	-0.00257	0.605816	-0.77247	0.430178	0.307617	-0.02152	3.259916	0.387865	1.992121	2.544197	-0.01566	-15.6351	-0.003478	0.685149	151.023	0.998339
14799_001876.LAB	1/11/2024	15:55:56	0.226904	0.65404	0.625485	-0.00359	0.606976	-0.72039	0.4472	0.243488	-0.03763	3.264176	0.362551	2.177831	2.596819	0.041356	-17.7342	-0.004201	0.598202	151.1095	0.998326
14799_001877.LAB	1/11/2024	15:56:57	0.234967	0.660062	0.624176	-0.00017	0.607375	-0.69379	0.464913	0.256781	-0.02279	3.261016	0.368789	2.273429	2.105557	0.092284	-22.7597	-0.003919	0.59941	151.1249	0.998429
14799_001878.LAB	1/11/2024	15:57:58	0.26214	0.688736	0.702331	-0.0047	0.60615	-0.69199	0.465391	0.268528	-0.03338	3.262854	0.345	2.437558	2.233866	0.061384	-16.4939	-0.003922	0.445035	151.0933	0.998296
14799_001879.LAB	1/11/2024	15:58:59	0.329783	0.68897	0.698482	-0.00787	0.607	-0.66797	0.388007	0.268346	-0.01179	3.261168	0.35785	2.548737	2.186744	-0.01324	-18.3417	-0.003544	0.882095	151.0758	0.998313
14799_001880.LAB	1/11/2024	16:00:00	0.276993	0.666288	0.718347	-0.00181	0.607547	-0.70522	0.441702	0.346628	-0.03683	3.263982	0.367172	2.559743	2.018683	-0.07261	-19.9467	-0.003653	0.550501	151.2301	0.998356
14799_001881.LAB	1/11/2024	16:01:00	0.358695	0.664015	0.807844	-0.00566	0.606798	-0.71776	0.396466	0.291301	-0.03118	3.263044	0.345626	2.637734	2.330968	0.014793	-19.5468	-0.003985	0.690159	151.1653	0.998252
14799_001882.LAB	1/11/2024	16:02:01	-0.077135	0.795126	-0.1702	-0.01218	1.797996	-0.86087	0.191407	0.45211	0.190875	1.619566	-0.21698	1.005159	3.295394	1.189307	4.996608	-0.002427	0.552657	150.9881	1.013575
14799_001883.LAB	1/11/2024	16:03:29	-0.273887	0.470578	0.173327	-0.00613	11.894036	-0.8926	0.230684	0.181409	0.150106	0.039819	-0.73221	0.038002	0.54646	-0.00815	3.253973	-0.001856	0.857316	150.9593	1.020238
14799_001884.LAB	1/11/2024	16:03:39	-0.202779	0.631084	0.237225	0.011279	11.856408	-0.83331	0.1469	-0.00932	0.176027	0.029569	-0.76527	-0.27762	0.056283	-0.24375	9.801702	-0.000908	0.921657	150.8737	1.02032
14799_001885.LAB	1/11/2024	16:03:49	-0.397413	0.596841	0.098353	-0.00173	11.893585	-0.76215	0.121554	-0.05427	0.140161	0.0297	-0.83175	-0.10418	0.266109	-0.40275	5.315033	-0.002532	1.157988	150.9415	1.020391
14799_001886.LAB	1/11/2024	16:03:58	-0.311566	0.505854	0.114334	-0.00765	11.966159	-0.9379	0.10193	0.165462	0.201514	0.035277	-0.76134	-0.16328	0.129954	0.131411	1.225173	-0.00254	1.339217	150.9641	1.019963
14799_001887.LAB	1/11/2024	16:04:08	-0.347725	0.755389	0.198103	0.000703	11.997685	-0.8934	-0.02176	-0.12963	0.164636	0.034545	-0.74495	-0.02328	0.837301	-0.18637	6.442102	-0.003094	1.145279	150.9754	1.020463
14799_001888.LAB	1/11/2024	16:04:17	-0.145586	0.406031	0.273639	-0.00154	11.975749	-0.8948	-0.03946	-0.00717	0.23246	0.034854	-0.76135	-0.20643	0.71898	-0.42779	10.06363	-0.000132	0.875272	151.0206	1.020284
14799_001889.LAB	1/11/2024	16:04:26	-0.249014	0.761892	0.219603	0.015767	12.032028	-0.96274	0.15838	-0.07935	0.150281	0.044323	-0.6835	-0.13693	1.002376	-0.07934	-1.50796	-0.003902	0.423748	151.0014	1.019802
14799_001890.LAB	1/11/2024	16:04:36	-0.372313	0.595774	0.237317	-0.00929	12.10143	-0.97038	0.157005	0.094142	0.145243	0.043147	-0.77361	0.002402	0.914373	-0.29338	2.308824	-0.000387	0.930961	151.0093	1.019713
14799_001891.LAB	1/11/2024	16:04:45	-0.332585	0.56037	0.397528	-0.00405	12.160318	-0.89638	0.10522	-0.03671	0.155382	0.03834	-0.73656	0.156635	0.076627	-0.62931	-5.65648	-0.003032	0.626089	151.0065	1.019601
14799_001892.LAB	1/11/2024	16:04:55	-0.212937	0.726994	0.278188	-0.001	12.087721	-0.9098	0.065628	0.101846	0.163105	0.040363	-0.78277	0.008647	0.295712	-0.36744	11.56521	-0.004091	0.589382	151.0116	1.020091
14799_001893.LAB	1/11/2024	16:05:04	-0.303765	0.667971	0.176979	-0.00279	12.192126	-0.81168	0.163079	0.101705	0.171349	0.037232	-0.76845	0.1478	0.85168	-0.25961	4.187251	-0.002722	0.946245	150.9938	1.019802
14799_001894.LAB	1/11/2024	16:05:14	-0.28421	0.649539	0.050231	0.001314	12.118351	-0.78004	0.193012	0.005157	0.107184	0.031451	-0.73773	0.160556	1.321497	0.203914	2.504497	-0.003458	0.478529	151.0014	1.02038
14799_001895.LAB	1/11/2024	16:05:24	-0.457282	0.748663	0.083181	-0.00383	12.200234	-0.88971	0.140429	-0.01068	0.147966	0.04258	-0.83039	0.003349	0.826149	0.093165	6.555065	-0.002578	0.653853	150.9867	1.020141
14799_001896.LAB	1/11/2024	16:05:33	-0.334279	0.671906	0.001558	-0.00856	12.102536	-0.80204	0.240034	-0.099	0.090776	0.02494	-0.73376	-0.01699	-0.20008	-0.36513	10.13365	-0.002211	0.476727	150.998	1.02032
14799_001897.LAB	1/11/2024	16:05:43	-0.250712	0.763167	0.101809	-0.01097	12.002753	-0.80088	0.230147	0.080063	0.10795	0.02836	-0.7141	-0.01034	1.308058	-0.27343	-0.64787	-0.004751	0.558387	150.9867	1.019856
14799_001898.LAB	1/11/2024	16:05:52	-0.353288	0.619621	0.106801	0.001333	11.981593	-0.7822	0.140605	0.093004	0.130959	0.030666	-0.68734	-0.23083	1.474607	-0.33212	4.463132	-0.003253	0.851464	150.9754	1.020498
14799_001899.LAB	1/11/2024	16:06:01	-0.222854	0.489245	0.164778	-0.006	12.01886	-0.86115	0.211575	-0.06334	0.138097	0.032601	-0.70851	-0.07278	0.861762	-0.20876	16.55405	-0.000378	-0.102349	150.9867	1.019927
14799_001900.LAB	1/11/2024	16:06:11	-0.4333	0.739704	0.098609	-0.01035	12.032284	-0.7544	0.244428	0.09568	0.132335	0.033031	-0.79655	-0.04002	0.312566	-0.32179	8.69644	-0.004157	0.200663	150.9867	1.019392
14799_001901.LAB	1/11/2024	16:06:21	-0.245495	0.789723	-0.06576	0.002174	12.090798	-0.82173	0.179414	0.104338	0.149263	0.036004	-0.74974	-0.10963	1.261915	0.170365	11.22524	-0.004595	0.60559	150.9505	1.020188
14799_001902.LAB	1/11/2024	16:06:30	-0.409137	0.722494	0.155257	0.000181	12.09071	-0.68857	0.272048	0.063196	0.152209	0.033514	-0.74277	0.011658	1.2893	0.02966	2.461008	-0.00404	0.512007	150.9528	1.019784
14799_001903.LAB	1/11/2024	16:06:40	-0.115889	0.707373	0.06373	-0.01211	12.085012	-0.80092	0.111178	-0.01697	0.123243	0.032109	-0.72922	-0.24842	0.464834	-0.05934	8.646396	-0.003357	0.522014	150.9528	1.018963
14799_001904.LAB	1/11/2024	16:06:49	-0.385309	0.69669	-0.0178	0.010635	12.09099	-0.84795	0.203088	-0.0423	0.142015	0.034999	-0.70059	-0.13933	1.100043	0.662526	7.459731	-0.001264	0.746911	150.9528	1.017785
14799_001905.LAB	1/11/2024	16:06:58	-0.387818	0.685421	0.061167	-0.02268	12.023524	-0.92276	0.153941	0.015737	0.169061	0.026874	-0.79887	-0.28352	0.356858	0.198716	-6.32974	-0.000046	0.333193	150.9641	1.017785
14799_001906.LAB	1/11/2024	16:07:08	-0.373731	0.632154	0.061088	-0.00443	11.936483	-0.88025	0.000892	-0.03859	0.094378	0.036241	-0.70239	-0.06964	0.870944	0.269279	15.18589	0.002041	0.760137	151.0206	1.017928
Averages							12.0339675														

Spectrum	Date	Time	Acetaldehyd ACETYLEN															SULFUR															ETO		Temp (C)	Pressure (Atm)
			yde		E		Butane	CH4 %	CO2%	Ethane	Ethylene	Formalde	Formic	H2O%	N2O	NO high	NO2 high	Propane	Propylene	HEXAFLUO	RIDE	CleanAir														
			150c	150C	150C	150C																	150C span	150c	150C	150C	150C	150C	150C	150C	150C	150C	150C	150C		
14799_002114BKG.LAB	1/11/2024	17:24:11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150.6292	1.026222											
14799_002115.LAB	1/11/2024	17:24:28	0.070197	0.225081	0.048115	0.006166	0.000669	0.111449	-0.11798	-0.06168	-0.06834	-0.00438	-0.02911	-0.25559	0.280079	0.131439	-5.944798	0.000625	0.241599	150.6104	1.026412															
14799_002116.LAB	1/11/2024	17:24:37	-0.08341	-0.00503	0.017113	0.009388	0.000081	-0.05985	-0.11779	0.065538	-0.03002	-0.00465	0.010706	-0.03312	-0.0486	0.008181	-9.678411	0.000111	0.182025	150.6249	1.026028															
14799_002117.LAB	1/11/2024	17:24:47	0.071457	-0.15039	0.092223	0.00792	-0.0015	0.044529	-0.00015	-0.11436	-0.01328	0.000029	0.015736	0.087314	-0.46182	0.046847	7.585016	-0.001301	-0.100817	150.6589	1.025925															
14799_002118.LAB	1/11/2024	17:24:56	-0.04355	0.193317	0.12743	-0.00191	-0.00007	0.008908	-0.00416	-0.09026	-0.05387	-0.00045	-0.00092	0.001284	-0.17571	0.020905	0.442121	-0.001586	0.262206	150.6362	1.026211															
14799_002119.LAB	1/11/2024	17:25:06	-0.04527	0.153869	0.020946	0.029089	-0.00034	0.173181	-0.00504	-0.01291	-0.0758	0.000082	-0.02599	-0.00098	-0.09629	0.144109	20.082395	-0.00168	0.426839	150.6249	1.026103															
14799_002120.LAB	1/11/2024	17:25:15	0.016412	0.112014	0.112218	-0.00772	-0.00036	0.047999	0.004621	-0.14827	0.031039	-0.00487	-0.0379	-0.06523	0.384618	-0.18135	-10.026884	0.00184	-0.643502	150.6589	1.026103															
14799_002121.LAB	1/11/2024	17:25:25	-0.06272	-0.02861	-0.02505	-0.00255	0.000063	0.179587	-0.00146	-0.10269	-0.06966	-0.00223	0.033119	-0.00363	-0.63425	-0.04388	1.003959	0.001003	0.196632	150.7041	1.026853															
14799_002122.LAB	1/11/2024	17:25:34	0.047149	-0.05549	0.157	-0.00569	-0.00037	0.076458	0.005789	-0.04953	-0.01616	-0.0141	0.007584	0.034005	0.283829	-0.01075	4.668128	0.001435	-0.122245	150.7606	1.026675															
14799_002123.LAB	1/11/2024	17:25:44	-0.0364	-0.01458	0.26164	-0.01202	-0.0013	0.006774	0.011569	-0.01533	-0.06113	-0.00703	-0.00284	-0.04196	0.473844	-0.37325	-3.644225	0.001568	0.023225	150.738	1.026353															
14799_002124.LAB	1/11/2024	17:25:53	-0.04411	0.156582	0.166577	0.010936	0.000549	0.115083	-0.01511	0.070968	0.025354	-0.00118	0.019202	0.010302	0.206784	-0.30109	8.460889	0.000927	-0.098352	150.6362	1.025889															
14799_002125.LAB	1/11/2024	17:26:03	0.099753	0.087614	0.089579	0.005948	-6.4E-05	0.080704	0.021526	0.070702	-0.05384	-0.00616	0.000958	-0.0344	-0.1051	0.008798	4.675582	-0.002213	-0.632933	150.6928	1.026246															
14799_002126.LAB	1/11/2024	17:26:12	0.104679	0.055063	0.086239	0.001241	-0.00045	0.252907	0.055591	-0.0214	0.035015	-0.00636	0.06932	-0.18865	-0.33317	0.047726	11.175776	-0.001129	-0.125414	150.7832	1.017178															
14799_002127.LAB	1/11/2024	17:26:22	0.005014	-0.016	0.273885	-0.00634	0.000085	-0.09411	0.051257	-0.17437	0.009572	-0.00362	-0.01472	0.043245	-0.54184	-0.41953	3.941614	-0.002607	0.018556	150.7154	0.999184															
14799_002128.LAB	1/11/2024	17:26:32	0.101553	-0.18501	0.201981	0.002471	0.000652	-0.11595	-0.04766	-0.17435	0.001843	0.001296	-0.02753	0.046804	-0.72752	-0.44401	-3.165865	0.000088	0.027397	150.7041	0.999541															
14799_002129.LAB	1/11/2024	17:26:41	0.072599	-0.02025	0.07348	-0.01713	0.00069	-0.07954	-0.03097	-0.10446	-0.0229	-0.00141	-0.00142	0.154452	0.865218	-0.20939	-7.024185	0.001858	-0.090113	150.7832	0.99897															
14799_002130.LAB	1/11/2024	17:26:50	0.106034	-0.07183	0.253342	-0.00806	0.000928	0.005167	-0.06665	0.018284	-0.00567	0.000634	-0.0146	0.057263	0.285542	-0.37229	-0.344625	0.002675	0.212592	150.8058	0.999006															
14799_002131.LAB	1/11/2024	17:27:00	-0.04947	-0.07762	0.096039	0.000906	0.000454	-0.02155	0.002122	-0.08438	0.013786	-0.00344	-0.03166	-0.11051	-0.7998	-0.31958	5.862014	-0.002073	-0.224715	150.8624	0.999113															
14799_002132.LAB	1/11/2024	17:27:09	0.029072	-0.12887	0.101834	0.009686	0.000272	-0.08436	0.010201	-0.1783	-0.02763	-0.00457	-0.02786	0.045929	-0.87468	0.135607	-11.745745	-0.002848	0.045004	150.8171	0.999184															
14799_002133.LAB	1/11/2024	17:27:19	-0.14818	-0.1074	0.202496	0.008098	-0.0003	-0.04599	-0.0058	-0.02893	0.034637	0.004055	-0.03702	0.048921	-1.13277	-0.20689	2.308318	-0.002781	0.172067	150.9528	0.999399															
14799_002134.LAB	1/11/2024	17:27:28	0.021324	0.152611	0.248812	-0.00022	0.000306	0.028513	0.00617	0.002275	-0.09829	-0.00842	0.005325	0.050962	-1.16081	-0.18412	8.423711	0.001637	-0.115108	150.9189	0.998756															
14799_002135.LAB	1/11/2024	17:27:38	-0.00401	0.094584	0.394249	-0.00319	0.000729	0.029187	-0.08167	-0.06627	0.019367	-0.00042	-0.07496	0.035476	-0.10346	-0.5029	-0.207429	0.001225	0.429462	150.9189	1.001755															
14799_002136.LAB	1/11/2024	17:27:47	2.769315	0.155717	0.253916	0.013961	0.053465	0.11752	1.359	3.380113	-0.05014	2.891265	0.415242	1.959558	-0.11144	4.708168	-7.54278	-0.01053	11.039986	150.9302	1.019106															
14799_002137.LAB	1/11/2024	17:29:30	0.233211	0.289619	0.240052	-0.0001	0.600015	0.150112	0.505422	0.165926	0.048942	3.510577	0.394007	0.786585	2.522624	0.65649	-19.195214	-0.005167	0.333373	150.9269	1.021269	Run 2														
14799_002138.LAB	1/11/2024	17:30:31	0.433276	0.16927	0.24396	-0.0034	0.589498	0.155624	0.589069	0.20986	0.061792	3.530559	0.374112	0.828978	2.686661	0.137882	-15.581541	-0.003923	0.419478	150.9945	1.020081															
14799_002139.LAB	1/11/2024	17:31:32	0.645998	0.128734	0.279073	0.001207	0.595585	0.15826	0.547585	0.505773	0.069062	3.535737	0.378523	0.950866	1.984274	0.083336	-20.023786	-0.002475	1.874171	150.9891	1.019664															
14799_002140.LAB	1/11/2024	17:32:33	0.704281	0.101923	0.273738	0.007795	0.605901	0.137182	0.543725	0.363383	0.021884	3.537525	0.375733	0.971704	1.915492	-0.02403	-30.383428	-0.00247	0.936955	150.9126	1.019215															
14799_002141.LAB	1/11/2024	17:33:34	1.855176	0.098669	0.303581	0.010141	0.61962	0.186364	0.507682	1.228501	0.029598	3.567186	0.378128	1.010009	2.361656	0.131792	-19.896435	-0.004777	7.387228	150.9266	1.020109															
14799_002142.LAB	1/11/2024	17:34:34	13.11462	0.147122	0.166668	0.007441	0.70189	0.556429	0.770742	6.379899	0.035128	3.654094	0.435599	2.26347	1.71487	0.827336	-20.379848	-0.008412	47.076778	150.8552	1.019551															
14799_002143.LAB	1/11/2024	17:35:35	8.747073	0.144281	0.355616	0.007159	0.700627	0.295304	0.58323	4.583106	0.153617	3.619868	0.410752	1.833163	2.113494	0.401528	-23.005084	-0.005148	29.538726	150.9355	1.019608															
14799_002144.LAB	1/11/2024	17:36:36	14.101	0.162627	0.260181	0.008819	0.72896	0.560089	0.689372	6.323606	0.164808	3.662381	0.39328	2.017496	1.636105	0.630022	-20.602557	-0.007855	47.290825	150.8695	1.019348															
14799_002145.LAB	1/11/2024	17:37:37	14.65602	0.160934	0.266041	0.000601	0.731523	0.518762	0.696547	6.981725	0.26969	3.642177	0.395882	2.469504	1.824743	0.769578	-24.368738	-0.00666	46.1798	150.7338	1.019388															
14799_002146.LAB	1/11/2024	17:38:38	18.71078	0.217555	0.225411	0.003553	0.757948	0.626103	0.61484	8.376212	0.3																									

14799_002174.LAB	1/11/2024	18:07:02	18.88799	0.231384	0.434055	0.011816	0.756722	0.586966	0.694773	8.700881	0.595151	3.593642	0.396936	1.451303	0.26099	0.862961	-21.492604	-0.00715	58.272408	150.7355	1.017869
14799_002175.LAB	1/11/2024	18:08:03	12.10001	0.162359	0.514564	0.002079	0.72702	0.303172	0.581529	6.316142	0.557569	3.541167	0.387475	1.213682	1.261646	0.446191	-21.53233	-0.006184	35.594723	150.7267	1.01764
14799_002176.LAB	1/11/2024	18:09:04	18.28153	0.186682	0.355811	0.007533	0.730966	0.627049	0.68598	8.383815	0.51912	3.551497	0.404781	1.547402	1.001465	0.845398	-20.93699	-0.007923	57.500736	150.7445	1.017894
14799_002177.LAB	1/11/2024	18:10:04	17.68971	0.219984	0.444962	-9.4E-05	0.725485	0.506959	0.671311	8.121428	0.498194	3.53549	0.379753	1.575023	1.179226	0.796756	-15.489838	-0.008188	54.925463	150.9337	1.01788
14799_002178.LAB	1/11/2024	18:11:05	25.08516	0.196672	0.258288	0.003974	0.765771	0.96762	0.780644	11.01815	0.622775	3.59164	0.403555	1.993954	0.61107	1.156332	-22.355279	-0.011205	74.795247	151.0855	1.018142
14799_002179.LAB	1/11/2024	18:12:06	15.63532	0.21446	0.401225	-0.00025	0.710843	0.403269	0.598527	7.430127	0.595365	3.502483	0.399538	1.580177	1.292809	0.734187	-21.875587	-0.007392	46.68314	151.339	1.017894
14799_002180.LAB	1/11/2024	18:13:07	21.67135	0.164113	0.476728	0.00524	0.746765	0.605247	0.657516	9.605567	0.59049	3.558823	0.409785	1.669742	0.991904	0.781111	-23.070703	-0.008016	67.299989	151.0516	1.018069
14799_002181.LAB	1/11/2024	18:14:08	13.39469	0.211671	0.456096	-0.00302	0.694786	0.381535	0.564292	6.794494	0.590874	3.484187	0.394202	1.605417	1.476371	0.406085	-21.23691	-0.006447	38.47279	151.0302	1.019137
14799_002182.LAB	1/11/2024	18:15:09	16.86059	0.241195	0.289169	0.00415	0.711787	0.509979	0.607183	7.786424	0.560537	3.501007	0.408025	1.549198	1.205412	0.623019	-17.991849	-0.007942	50.899885	151.0177	1.018689
14799_002183.LAB	1/11/2024	18:16:10	23.53686	0.181379	0.45003	0	0.761263	0.659913	0.642859	10.39438	0.632892	3.594268	0.41026	1.787552	0.769092	0.823001	-20.48155	-0.009859	71.48166	151.0021	1.018932
14799_002184.LAB	1/11/2024	18:17:11	20.74493	0.197539	0.351139	0.002826	0.747629	0.653319	0.623277	9.654514	0.670935	3.559049	0.410983	1.634631	1.071805	0.854242	-19.201021	-0.009042	61.344058	150.9445	1.018283
14799_002185.LAB	1/11/2024	18:18:12	18.17529	0.185144	-0.20915	-0.00072	0.291321	0.606311	0.275406	7.547032	0.466584	2.964532	0.393864	1.455074	1.371927	1.015703	-15.8443	-0.009663	49.340025	150.948	1.018452
14799_002186.LAB	1/11/2024	18:19:12	3.682136	0.216616	0.375552	0.006798	0.983601	0.032556	0.101338	2.693544	0.58173	3.753898	0.380243	1.477913	2.647253	-0.63651	-25.404584	-0.004813	1.727727	150.8963	1.018672
14799_002187.LAB	1/11/2024	18:20:13	2.766861	0.202224	0.284704	0.007711	0.694964	0.096521	0.373267	1.965262	0.447839	3.591182	0.385427	1.148146	3.117076	0.032343	-21.173657	-0.005634	1.180872	150.8356	1.018723
14799_002188.LAB	1/11/2024	18:21:14	3.481445	0.229576	0.177154	0.001586	0.416513	0.097613	0.482727	1.753325	0.200133	3.171954	0.386758	0.76862	2.597476	0.897156	-16.549096	-0.004794	8.10502	150.907	1.01861
14799_002189.LAB	1/11/2024	18:22:15	6.653654	0.163944	0.15188	-0.00107	0.435458	0.168533	0.445989	3.317902	0.208501	3.150005	0.376239	0.996332	1.810166	0.966269	-22.604796	-0.004401	19.473808	150.7898	1.018617
14799_002190.LAB	1/11/2024	18:23:16	21.43087	0.233403	-0.13376	0.00061	0.553991	0.175195	0.594866	7.790778	0.292615	3.338663	0.395041	1.410763	1.767982	1.536207	-18.839655	-0.009885	64.140929	150.8144	1.018772
14799_002191.LAB	1/11/2024	18:24:17	22.29704	0.144674	-0.37902	0.001615	0.369038	0.756104	0.479561	8.890027	0.487192	3.103994	0.413365	1.343776	1.003617	1.581879	-17.48711	-0.01106	56.582414	150.9195	1.018311
14799_002192.LAB	1/11/2024	18:25:17	3.138779	0.149134	0.327129	0.007628	0.852072	0.053761	0.065445	2.626266	0.561273	3.583893	0.369041	1.161728	2.219947	-0.54261	-25.533372	-0.004358	1.811852	150.8838	1.018142
14799_002193.LAB	1/11/2024	18:26:18	2.477172	0.192346	0.359915	0.004644	0.787884	0.112012	0.384396	2.149288	0.441483	3.724042	0.388504	0.958581	1.853607	-0.01571	-26.779839	-0.00365	1.354356	150.939	1.018301
14799_002194.LAB	1/11/2024	18:27:19	1.586335	0.25407	0.219005	-0.00393	0.413581	0.084086	0.515391	1.068897	0.192848	3.120558	0.365904	0.524907	2.055623	0.872809	-14.496893	-0.003945	0.61938	150.9391	1.017978
14799_002195.LAB	1/11/2024	18:28:20	11.4238	0.160137	0.022784	0.002987	0.450526	0.33061	0.577959	4.200826	0.179192	3.194428	0.392967	0.743395	0.881511	1.652628	-19.031219	-0.007322	35.820216	150.9793	1.01773
14799_002196.LAB	1/11/2024	18:29:21	17.4364	0.201491	0.045511	-0.00242	0.623581	0.532005	0.676487	7.280147	0.35785	3.435465	0.421068	1.174888	0.962972	1.334742	-26.280214	-0.007445	49.597326	150.9677	1.017962
14799_002197.LAB	1/11/2024	18:30:22	16.57427	0.13773	0.277411	0.001903	0.704604	0.531056	0.766719	5.445563	0.535455	3.513696	0.42551	1.299111	0.842579	0.832755	-18.04408	-0.007563	45.09504	150.8641	1.017403
14799_002198.LAB	1/11/2024	18:31:23	17.71897	0.206965	0.485224	0.011246	0.724507	0.511469	0.833925	7.872788	0.568078	3.550165	0.428275	1.105617	0.192269	0.894894	-23.144779	-0.007137	52.23058	150.832	1.017907
14799_002199.LAB	1/11/2024	18:32:23	24.09226	0.178034	0.338759	0.002955	0.769873	0.769686	0.799711	10.47664	0.702939	3.609175	0.452317	1.495608	-0.50392	1.081658	-19.618419	-0.009194	70.575173	150.9034	1.017792
14799_002200.LAB	1/11/2024	18:33:24	17.47759	0.214176	0.333973	0.004125	0.752226	0.515803	0.780655	8.313334	0.696527	3.57006	0.456822	1.28242	1.133591	0.943764	-19.946005	-0.007715	53.743707	150.9445	1.017815
14799_002201.LAB	1/11/2024	18:34:25	18.11686	0.21321	0.49372	-0.00292	0.755276	0.596411	0.819296	8.502852	0.652414	3.579473	0.434501	1.157858	0.154923	1.063876	-19.110105	-0.007709	57.370092	150.946	1.017968
14799_002202.LAB	1/11/2024	18:35:26	18.40841	0.175914	0.381877	0.002825	0.758542	0.609531	0.797265	8.230101	0.603395	3.58666	0.435201	1.101651	0.205069	0.911872	-23.009775	-0.0087	58.147213	150.932	1.017905
14799_002203.LAB	1/11/2024	18:36:27	16.47096	0.10193	0.410821	-0.00068	0.763146	0.444257	0.357894	8.285132	0.719055	3.596788	0.426732	1.606896	1.013622	1.168161	-25.056111	-0.007686	45.712693	150.9837	1.017539
14799_002204.LAB	1/11/2024	18:37:28	21.47338	0.152228	0.277857	0.003284	0.770686	0.727788	0.626489	9.053703	0.57436	3.620888	0.413937	1.570616	0.154857	0.74768	-25.461727	-0.009465	65.865413	150.9688	1.017841
14799_002205.LAB	1/11/2024	18:38:28	11.33284	0.198466	0.586944	0.005425	0.72878	0.34035	0.600564	6.16751	0.61748	3.543655	0.441735	1.36835	1.291228	0.285595	-23.401789	-0.005068	32.68303	150.9837	1.0183
14799_002206.LAB	1/11/2024	18:39:29	15.55994	0.189069	0.496563	0.001034	0.721399	0.426417	0.682123	7.516879	0.557248	3.542056	0.409164	1.508605	1.443441	0.821907	-19.404297	-0.006618	48.093155	150.9498	1.017736
14799_002207.LAB	1/11/2024	18:40:30	17.9074	0.142008	0.26857	0.005272	0.730277	0.609006	0.706442	7.7948	0.53606	3.558993	0.409956	1.416954	0.86786	0.679689	-25.085713	-0.008734	55.461516	150.9249	1.017664
14799_002208.LAB	1/11/2024	18:41:31	17.58147	0.164706	0.563062	0.000586	0.709548	0.472766	0.665545	8.325797	0.623792	3.519624	0.413189	1.624015	1.060561	0.850325	-22.972924	-0.007942	54.335433	150.9583	1.017896
14799_002209.LAB	1/11/2024	18:42:32	23.79291	0.183008	0.430761	-0.00397	0.755133	0.774174	0.678036	10.3747	0.655291	3.587889	0.423125	1.686533	0.665774	0.67194	-21.043876	-0.009238	71.953188	150.9774	1.017708
14799_002210.LAB	1/11/2024	18:43:33	15.36693	0.139195	0.567199	0.006468	0.702448	0.405376	0.596421	7.549769	0.643099	3.496331	0.421483	1.546758	1.473071	0.611111	-26.937923	-0.006501	45.234734	151.0039	1.017608
14799_002211.LAB	1/11/2024	18:44:34	16.09187	0.160868	0.563436	0.003973	0.699875	0.443548	0.622156	7.554696	0.597177	3.499673	0.400866	1.418657	0.59882	0.58763	-24.316406	-0.006858	49.012943	150.9516	1.01821
14799_002212.LAB	1/11/2024	18:45:35	21.23786	0.164197	0.515958	-0.00254	0.756122	0.577603	0.629785	9.757782	0.691163	3.580345	0.426996	1.64777	0.416993	0.767749	-16.011152	-0.007559	64.407764	150.9373	1.017685
14799_002213.LAB	1/11/2024	18:46:36	15.65763	0.143097	0.56625	-0.00293	0.72372	0.406849	0.582636	7.909293	0.660208	3.53257	0.399076	1.550335	1.147337	0.622746	-18.378206	-0.006257	45.512166	150.9442	1.018118
14799_002214.LAB	1/11/2024	18:47:37	25.63865	0.171012	0.446993	0.000934	0.765259	0.841258	0.723581	10.35366	0.740245	3.601502	0.443226	1.590377	-0.13934	0.939409	-20.261487	-0.009619	78.843733	150.9159	1.017888
14799_002215.LAB	1/11/2024	18:48:37	14.02876	0.204877	0.549021	-0.00092	0.692297	0.346	0.610079	7.333349	0.667768	3.492162									

14799_002238.LAB	1/11/2024	19:11:57	14.4938	0.294318	0.510666	0.003503	0.681835	0.410101	0.668439	7.376182	0.674654	3.443266	0.394026	1.240147	0.614072	0.711442	-21.035134	-0.007051	42.976366	150.9951	1.019104
14799_002239.LAB	1/11/2024	19:12:58	18.04955	0.228536	0.516493	0.00216	0.689566	0.499067	0.671269	8.235011	0.60026	3.461835	0.410184	1.111914	0.33492	0.839284	-17.680682	-0.007286	56.517001	151.0162	1.019082
14799_002240.LAB	1/11/2024	19:13:59	16.3566	0.169411	0.471072	-0.00162	0.692461	0.464193	0.648657	7.876069	0.643468	3.446596	0.394428	1.2243	0.768137	0.77388	-16.593193	-0.006286	49.156125	150.9916	1.019237
14799_002241.LAB	1/11/2024	19:15:00	14.88003	0.234079	0.47699	-0.00188	0.685989	0.382639	0.636509	7.289096	0.624307	3.420097	0.378097	1.174618	0.804132	0.521384	-24.531979	-0.006924	43.728409	150.9916	1.019093
14799_002242.LAB	1/11/2024	19:16:00	12.12152	0.235963	0.408723	0.000219	0.667439	0.316649	0.603389	6.237521	0.554719	3.402875	0.383551	1.183581	0.848566	0.757375	-20.507471	-0.004731	36.481059	150.953	1.019326
14799_002243.LAB	1/11/2024	19:17:02	13.54314	0.202147	0.474495	-0.00211	0.688521	0.379371	0.606422	6.731944	0.549049	3.415921	0.390711	1.213221	0.889808	0.603753	-25.742801	-0.005836	40.961525	150.9214	1.018888
14799_002244.LAB	1/11/2024	19:18:02	15.43908	0.248301	0.554254	0.004651	0.704615	0.43882	0.652952	7.489816	0.559566	3.423697	0.373032	1.227676	0.575299	0.522994	-23.78217	-0.006723	48.093832	150.9179	1.01881
14799_002245.LAB	1/11/2024	19:19:03	17.14831	0.257449	0.474646	0.002527	0.701402	0.489301	0.674131	8.298256	0.612113	3.409273	0.403443	1.291393	0.195311	0.800895	-18.425725	-0.006888	53.371087	150.9664	1.019037
14799_002246.LAB	1/11/2024	19:20:04	30.38391	0.266799	0.257768	-0.00753	0.781552	0.96181	0.736105	12.43974	0.709819	3.510965	0.371623	1.575068	-0.71442	1.03733	-22.445243	-0.011361	95.109219	150.967	1.01896
14799_002247.LAB	1/11/2024	19:21:05	12.65163	0.182452	0.485509	-0.00676	0.678658	0.299763	0.56954	6.891604	0.666831	3.333197	0.379318	1.165516	0.829069	0.652148	-17.871847	-0.007124	36.881354	150.9705	1.019353
14799_002248.LAB	1/11/2024	19:22:06	18.03276	0.304254	0.392646	-0.00311	0.703481	0.448283	0.691287	8.185603	0.531945	3.372006	0.387299	1.115593	0.63866	1.170294	-14.966895	-0.007411	56.693043	150.8916	1.019226
14799_002249.LAB	1/11/2024	19:23:06	12.59465	0.243699	0.505782	0.000956	0.675165	0.28673	0.591053	6.744437	0.633325	3.335388	0.390515	1.210954	0.899225	0.465379	-21.052635	-0.006879	36.830949	150.7881	1.018849
14799_002250.LAB	1/11/2024	19:24:07	21.98431	0.316584	0.450597	-0.00623	0.722718	0.594711	0.698057	9.694781	0.560034	3.392245	0.411878	1.290817	0.424902	1.575241	-15.674424	-0.008457	70.133109	150.8927	1.018615
14799_002251.LAB	1/11/2024	19:25:08	19.90309	0.223732	0.323656	0.003358	0.703059	0.572546	0.676664	8.823382	0.641055	3.378393	0.371362	1.321369	0.286267	0.983084	-17.827347	-0.007447	61.359673	150.9388	1.018623
14799_002252.LAB	1/11/2024	19:26:09	19.07358	0.280389	0.446844	0.004853	0.719966	0.466201	0.612188	9.056874	0.68806	3.383924	0.392159	1.402761	0.550705	0.966755	-19.291238	-0.006639	57.698321	150.9425	1.018578
14799_002253.LAB	1/11/2024	19:27:10	17.07118	0.202793	0.512859	0.006611	0.725773	0.393175	0.602726	8.335615	0.682873	3.381407	0.386666	1.340307	0.813712	0.763899	-21.837817	-0.00745	51.61511	150.9776	1.018683
14799_002254.LAB	1/11/2024	19:28:11	22.72401	0.263716	0.366413	-0.00371	0.743962	0.689954	0.678353	9.989686	0.668515	3.419134	0.387692	1.408711	0.390061	0.85487	-20.081774	-0.009016	69.126916	150.9863	1.018644
14799_002255.LAB	1/11/2024	19:29:12	15.92664	0.270557	0.532737	0.000918	0.706484	0.408033	0.607838	8.032224	0.643081	3.350471	0.397055	1.365831	0.932148	0.702311	-17.165652	-0.006565	47.905845	150.9699	1.018503
14799_002256.LAB	1/11/2024	19:30:13	26.52575	0.224596	0.171825	-0.00745	0.745934	0.805881	0.650252	11.12366	0.735074	3.403718	0.384844	1.402317	-0.06355	0.864408	-20.920722	-0.010234	82.11266	150.9355	1.018384
14799_002257.LAB	1/11/2024	19:31:13	22.64948	0.237557	0.283802	0.000085	0.73198	0.569992	0.606649	10.40564	0.745396	3.389352	0.391708	1.409802	0.125393	1.030922	-23.018537	-0.008519	67.130469	150.925	1.018373
14799_002258.LAB	1/11/2024	19:32:14	13.55335	0.195514	0.474572	0.002758	0.661908	0.336595	0.62411	6.74144	0.608311	3.280659	0.399839	1.216194	0.911648	0.629559	-17.971164	-0.006036	39.603087	150.9713	1.018604
14799_002259.LAB	1/11/2024	19:33:15	9.938282	0.247063	0.389679	-0.0036	0.614316	0.179702	0.568871	5.469003	0.465807	3.246301	0.396601	1.213023	1.842942	0.858278	-16.706328	-0.00415	27.928713	150.8974	1.018405
14799_002260.LAB	1/11/2024	19:34:16	19.26388	0.288038	0.125436	-0.00391	0.690141	0.531263	0.685882	8.130333	0.48434	3.308861	0.389173	1.225289	0.453685	1.388046	-17.328262	-0.009069	60.822737	150.9319	1.018916
14799_002261.LAB	1/11/2024	19:35:17	24.29799	0.313054	0.282482	-0.00586	0.74157	0.61848	0.640889	11.01745	0.678843	3.367052	0.399091	1.606998	0.804846	1.435715	-17.855584	-0.009128	72.167457	150.9969	1.019364
14799_002262.LAB	1/11/2024	19:36:18	16.44411	0.222213	0.462847	0.005513	0.691384	0.355079	0.617311	8.129026	0.687737	3.302766	0.409556	1.328547	0.623562	0.844718	-15.455839	-0.00657	48.94906	151.0179	1.019121
14799_002263.LAB	1/11/2024	19:37:19	19.78472	0.283541	0.449866	-0.00544	0.735453	0.490665	0.65947	9.363972	0.615644	3.350978	0.433115	1.324657	0.841406	1.42086	-22.724669	-0.00701	61.580987	151.0302	1.019248
14799_002264.LAB	1/11/2024	19:38:20	19.25797	0.242164	0.384651	0.001524	0.726088	0.52698	0.641285	8.938695	0.692541	3.351732	0.423304	1.35902	0.556766	0.865223	-21.81409	-0.007514	58.094863	151.0091	1.019154
14799_002265.LAB	1/11/2024	19:39:20	14.81009	0.185156	0.551117	0.003349	0.686168	0.384537	0.609862	7.452511	0.649682	3.293269	0.413277	1.212465	0.711566	0.562597	-22.035693	-0.006569	44.57751	150.9863	1.019448
14799_002266.LAB	1/11/2024	19:40:21	17.42335	0.265508	0.450006	-0.00621	0.691763	0.453515	0.632237	8.12485	0.545729	3.288754	0.427761	1.070834	0.787445	1.195915	-16.899388	-0.006178	56.070806	150.9618	1.019254
14799_002267.LAB	1/11/2024	19:41:22	16.29763	0.21943	0.449235	-0.00157	0.696239	0.421078	0.618832	8.125514	0.555578	3.295979	0.420358	1.137234	0.999402	1.308312	-15.633086	-0.006202	51.066106	151.0061	1.019233
14799_002268.LAB	1/11/2024	19:42:23	11.67002	0.152672	0.335633	-0.003	0.619229	0.194877	0.625262	6.090974	0.530422	3.22813	0.404089	1.233485	1.342755	1.259254	-16.516323	-0.005104	34.923045	150.9659	1.019174
14799_002269.LAB	1/11/2024	19:43:24	11.51797	0.223994	0.3572	-0.00235	0.624105	0.263985	0.617078	5.944053	0.447766	3.240922	0.402972	1.172399	1.165205	0.992374	-19.393066	-0.006129	35.388018	150.9837	1.019309
14799_002270.LAB	1/11/2024	19:44:25	12.7846	0.247284	0.337279	0.003211	0.634042	0.315239	0.560086	6.740039	0.459553	3.246899	0.409338	1.160869	1.285052	0.982672	-23.035047	-0.004656	39.620114	150.9776	1.018949
14799_002271.LAB	1/11/2024	19:45:25	13.68016	0.194843	0.371169	-0.00156	0.643779	0.325098	0.588842	6.890418	0.497778	3.264938	0.425436	1.20215	1.084907	1.010091	-14.875409	-0.005881	42.867958	151.0021	1.019309
14799_002272.LAB	1/11/2024	19:46:26	11.88642	0.208012	0.298156	-0.00354	0.627383	0.284437	0.604309	6.269132	0.472836	3.225411	0.407072	1.156883	1.30667	1.232226	-20.058492	-0.005025	36.655573	150.9916	1.019193
14799_002273.LAB	1/11/2024	19:47:27	12.36403	0.201577	0.371748	-0.00518	0.645458	0.257623	0.583933	6.47461	0.449866	3.242609	0.397754	1.255957	1.080416	1.108464	-22.502051	-0.005901	38.351312	150.9916	1.019287
14799_002274.LAB	1/11/2024	19:48:28	20.33553	0.286596	0.380609	-0.00637	0.747212	0.535891	0.631452	9.374583	0.530496	3.34501	0.406895	1.297084	0.237758	1.250683	-19.079408	-0.007131	64.615354	151.0162	1.019226
14799_002275.LAB	1/11/2024	19:49:29	14.15982	0.244884	0.436448	0.00911	0.705075	0.371072	0.591853	7.32264	0.630909	3.301528	0.328081	1.153627	0.613426	0.519449	-22.599389	-0.006538	43.251311	151.0061	1.019168
14799_002276.LAB	1/11/2024	19:50:30	11.36027	0.230421	0.381452	-0.00702	0.665496	0.242079	0.571067	5.889238	0.456439	3.221414	0.394252	1.035392	1.272179	1.004638	-21.078622	-0.00592	36.161457	150.9846	1.019132
14799_002277.LAB	1/11/2024	19:51:31	13.76978	0.270548	0.344165	-0.0061	0.682021	0.355543	0.622961	7.089658	0.466671	3.254535	0.431506	1.035612	1.154763	1.014778	-22.594652	-0.006021	44.041506	150.9811	1.019442
14799_002278.LAB	1/11/2024	19:52:31	18.8607	0.244456	0.36944	-0.00521	0.717028	0.464058	0.619283	8.737995	0.550865	3.293436	0.43619	1.190382	0.794462	1.139048	-12.978777	-0.007683	61.068074	151.0162	1.019165
14799_002279.LAB	1/11/2024	19:53:32	25.72008	0.284243	0.088497	-0.00963	0.751527	0.717631	0.686907	10.5											

14799_002302.LAB	1/11/2024	20:16:52	20.27795	0.306457	0.216832	0.000271	0.710796	0.381248	0.530836	9.464093	0.683743	3.278076	0.433352	1.322487	0.666932	1.388658	-12.478113	-0.008528	59.813124	150.9992	1.01962
14799_002303.LAB	1/11/2024	20:17:53	20.00939	0.286822	0.214908	0.000726	0.716977	0.508068	0.652396	9.359259	0.700432	3.306468	0.421057	1.376031	0.824765	1.450722	-16.153266	-0.008373	58.35321	151.0056	1.019276
14799_002304.LAB	1/11/2024	20:18:54	22.61037	0.280105	0.198397	-0.00787	0.745736	0.596373	0.627488	10.27359	0.698655	3.35731	0.437805	1.333566	0.773193	1.418767	-18.379654	-0.008693	67.403896	150.9881	1.01937
14799_002305.LAB	1/11/2024	20:19:55	27.34084	0.22252	0.334731	-0.00189	0.67786	0.805319	0.69165	11.51474	0.746927	3.427986	0.40754	1.474807	-0.5976	0.827852	-16.576363	-0.009367	85.126731	150.9906	1.019429
14799_002306.LAB	1/11/2024	20:20:56	22.95851	0.258571	0.328995	-0.00085	0.724727	0.580318	0.597469	10.34352	0.819711	3.347243	0.4401	1.385069	0.456508	0.953658	-19.381737	-0.008213	68.865446	150.9635	1.019359
14799_002307.LAB	1/11/2024	20:21:56	25.78323	0.241239	0.327335	0.000481	0.733219	0.691792	0.71468	11.1306	0.767825	3.331095	0.415124	1.388815	-0.30495	0.973113	-18.273264	-0.009501	79.481871	150.9688	1.019553
14799_002308.LAB	1/11/2024	20:22:58	22.33334	0.282508	0.246583	-0.00207	0.72051	0.537838	0.584719	10.11715	0.642384	3.268352	0.425483	1.329417	0.319528	1.433634	-14.867989	-0.007679	68.212345	150.9705	1.01947
14799_002309.LAB	1/11/2024	20:23:58	23.442	0.285382	0.22082	-0.00464	0.714224	0.566045	0.673703	10.41536	0.689952	3.279033	0.418305	1.273061	0.668917	1.681146	-17.308065	-0.008944	72.293617	151.0039	1.019536
14799_002310.LAB	1/11/2024	20:24:59	23.21668	0.331484	0.319019	-0.00638	0.73005	0.538407	0.666454	10.53307	0.741016	3.328298	0.412202	1.277537	0.658495	1.581202	-19.963399	-0.009472	70.443753	151.0162	1.019453
14799_002311.LAB	1/11/2024	20:26:00	21.01846	0.252893	0.399225	-0.00446	0.714089	0.501095	0.68656	9.801441	0.723254	3.314354	0.420343	1.339416	0.873473	1.387427	-15.098232	-0.007828	64.223487	151.0179	1.019204
14799_002312.LAB	1/11/2024	20:27:01	27.13546	0.355611	0.270922	-0.00627	0.735847	0.699932	0.687716	11.48371	0.73132	3.324097	0.406612	1.289781	0.211637	1.797995	-18.479226	-0.009228	85.425272	150.9863	1.019442
14799_002313.LAB	1/11/2024	20:28:02	23.80412	0.303403	0.361765	-0.0056	0.727209	0.49109	0.669219	10.96603	0.730407	3.295353	0.423901	1.298036	0.767904	1.719175	-24.745201	-0.008414	73.088554	150.9951	1.019381
14799_002314.LAB	1/11/2024	20:29:03	19.07923	0.266897	0.323632	-0.00786	0.699364	0.389065	0.599169	9.119895	0.686619	3.243428	0.412346	1.152424	1.209165	1.472389	-17.208548	-0.006443	56.910933	150.9957	1.019434
14799_002315.LAB	1/11/2024	20:30:04	23.74159	0.312994	0.316309	-0.00222	0.727674	0.518881	0.669544	10.45467	0.691517	3.277716	0.390918	1.195379	0.638278	1.529105	-16.233044	-0.009541	74.545348	150.9951	1.01952
14799_002316.LAB	1/11/2024	20:31:04	22.72168	0.357118	0.349341	-0.00756	0.733021	0.52766	0.66819	10.41602	0.68743	3.290719	0.394958	1.233426	0.678618	1.579685	-19.105988	-0.007832	69.116826	150.9232	1.019625
14799_002317.LAB	1/11/2024	20:32:05	20.47244	0.303691	0.296336	-0.00433	0.720545	0.428551	0.626403	9.831953	0.714044	3.29549	0.392362	1.24242	0.49446	1.629028	-18.164624	-0.00823	62.652398	150.9951	1.019697
14799_002318.LAB	1/11/2024	20:33:06	19.67919	0.338643	0.242189	-0.00192	0.715248	0.444492	0.610202	9.347045	0.693406	3.313342	0.418567	1.221254	1.019738	1.474018	-17.117761	-0.007229	60.211625	151.0147	1.019669
14799_002319.LAB	1/11/2024	20:34:07	25.21826	0.321139	0.3059	-0.00488	0.724147	0.58178	0.670134	10.93293	0.656665	3.316681	0.401552	1.196031	-0.2932	1.561769	-16.669727	-0.008286	81.063487	151.0267	1.019758
14799_002320.LAB	1/11/2024	20:35:08	21.85801	0.321709	0.298032	-0.0071	0.715459	0.412552	0.661918	10.27762	0.695169	3.296563	0.415029	1.231708	0.407411	1.692041	-17.546767	-0.007689	68.051502	150.9863	1.019819
14799_002321.LAB	1/11/2024	20:36:09	23.40068	0.316191	0.369434	-0.00319	0.724833	0.540442	0.696616	10.53284	0.705466	3.285083	0.393066	1.21924	0.248341	1.641572	-17.859707	-0.008368	75.102684	150.9723	1.019741
14799_002322.LAB	1/11/2024	20:37:09	26.39914	0.400901	0.427337	-0.0058	0.742238	0.569218	0.690683	11.7695	0.732136	3.296448	0.405891	1.286916	0.476869	1.810387	-21.842515	-0.00799	83.798972	150.9776	1.019564
14799_002323.LAB	1/11/2024	20:38:10	26.51921	0.357025	0.452162	-0.00242	0.74713	0.597523	0.70697	11.93207	0.794185	3.305206	0.378286	1.245292	0.142889	1.950606	-12.776802	-0.007729	84.462215	151.0112	1.019712
14799_002324.LAB	1/11/2024	20:39:11	27.27439	0.265754	0.470681	-0.00218	0.743426	0.558512	0.768658	11.92003	0.795092	3.299037	0.37804	1.256635	0.034013	1.753976	-21.060072	-0.007894	88.207546	150.9776	1.019957
14799_002325.LAB	1/11/2024	20:40:12	26.69469	0.337975	0.484773	-0.00388	0.755427	0.567705	0.641003	12.02187	0.795623	3.343468	0.389977	1.234193	0.362105	1.631022	-14.945273	-0.008151	84.551993	150.9758	1.019525
14799_002326.LAB	1/11/2024	20:41:13	26.16365	0.296509	0.632448	-0.00167	0.768987	0.605857	0.663893	11.94459	0.901561	3.379641	0.402674	1.357257	-0.41386	1.078411	-17.89213	-0.007588	81.458905	150.9933	1.019763
14799_002327.LAB	1/11/2024	20:42:14	25.07033	0.224605	0.63946	0.001095	0.752916	0.529274	0.661441	11.51424	0.865063	3.382348	0.40617	1.378885	-0.0645	1.09414	-21.801211	-0.0081	78.320662	151.0056	1.019797
14799_002328.LAB	1/11/2024	20:43:15	21.60864	0.266475	0.520354	-0.00912	0.718566	0.466497	0.642153	10.07167	0.822109	3.343144	0.400571	1.305752	-0.19747	1.047719	-18.338001	-0.007859	67.320461	151.0127	1.020085
14799_002329.LAB	1/11/2024	20:44:15	19.03925	0.203384	0.521666	0.002685	0.692685	0.384473	0.639901	9.109633	0.787902	3.261877	0.431961	1.183978	0.135139	0.83977	-17.338893	-0.007719	58.361818	151.0074	1.020062
14799_002330.LAB	1/11/2024	20:45:16	23.90343	0.344134	0.509758	-0.00041	0.720143	0.573736	0.644105	10.77214	0.715359	3.258689	0.392893	1.139715	0.402602	1.517981	-18.953669	-0.006473	76.784683	151.0039	1.020013
14799_002331.LAB	1/11/2024	20:46:17	19.57617	0.347556	0.381557	-0.007	0.702238	0.32875	0.602022	9.469103	0.716652	3.225167	0.405997	1.128093	0.834874	1.530223	-18.535958	-0.00713	60.41515	151.025	1.019767
14799_002332.LAB	1/11/2024	20:47:18	20.45367	0.31318	0.452062	-0.00656	0.702173	0.451902	0.649923	9.679183	0.684598	3.275337	0.405778	1.22761	0.506989	1.690861	-16.505849	-0.007601	64.694683	151.0373	1.020002
14799_002333.LAB	1/11/2024	20:48:19	19.87968	0.367137	0.502748	-0.01144	0.696724	0.35171	0.61337	9.423154	0.709184	3.268633	0.422704	1.070548	0.348957	1.362817	-16.338784	-0.007142	62.599452	151.0319	1.020251
14799_002334.LAB	1/11/2024	20:49:20	17.55486	0.204981	0.454992	0.010015	0.682527	0.319797	0.606248	8.533469	0.669651	3.249217	0.405999	1.091988	0.778256	1.405852	-19.3925	-0.006601	54.234168	151.0249	1.020123
14799_002335.LAB	1/11/2024	20:50:21	14.01959	0.271701	0.402374	-0.00021	0.663013	0.203818	0.619074	7.268648	0.646354	3.238645	0.432246	1.009278	0.846638	1.328752	-20.328415	-0.006169	42.232443	151.0181	1.020017
14799_002336.LAB	1/11/2024	20:51:21	9.84884	0.250729	0.341993	-0.00898	0.606225	0.126189	0.575793	5.556024	0.202498	3.242504	0.122926	1.301471	1.218236	-14.060692	-0.004387	28.61985	151.0232	1.019835	
14799_002337.LAB	1/11/2024	20:52:23	6.959116	0.216989	0.286547	-0.00342	0.594041	0.05509	0.601214	4.230676	0.491179	3.176758	0.412171	0.97294	1.505446	0.877912	-11.789273	-0.00426	19.137722	150.9916	1.020206
14799_002338.LAB	1/11/2024	20:53:23	8.423947	0.242743	0.238314	-0.00078	0.596683	0.100814	0.612916	4.765581	0.420818	3.185546	0.40942	1.000337	1.396262	1.067327	-18.930687	-0.003871	25.725669	150.963	1.020224
14799_002339.LAB	1/11/2024	20:54:24	9.099636	0.2204	0.291294	-0.00168	0.603359	0.176837	0.624787	5.218314	0.435509	3.195951	0.432653	0.959492	1.217256	1.085149	-19.403878	-0.005352	27.930492	151.0091	1.020301
14799_002340.LAB	1/11/2024	20:55:25	5.1553	0.286446	0.247213	-0.00038	0.593984	0.032194	0.578761	3.454596	0.368155	3.197965	0.39658	0.881533	1.483096	0.706429	-20.206755	-0.003938	14.200568	151.0284	1.020245
14799_002341.LAB	1/11/2024	20:56:26	2.495092	0.210229	0.210115	0.000709	0.573101	-0.01152	0.560059	2.042393	0.329588	3.171833	0.397563	0.633135	1.63487	0.671146	-18.8701	-0.003261	5.355539	151.0267	1.019996
14799_002342.LAB	1/11/2024	20:57:27	25.28979	0.324027	0.032355	-0.00314	0.723864	0.730985	0.863367	10.23377	0.414632	3.345495	0.431741	1.210642	-0.55656	1.719709	-16.931324	-0.01002	82.433796	150.9923	1.019429
14799_002343.LAB	1/11/2024	20:58:28	18.68005	0.288242	0.510003	0.004274	0.711806	0.427531	0.793382	9.043597	0.699443	3.290137	0.429722	1.162043	0.425024	1.205653	-19				

14799_002366.LAB	1/11/2024	21:21:47	19.76912	0.337365	0.124895	0.000232	0.773958	0.491784	0.723449	9.041702	0.553155	3.279125	0.427703	1.316636	1.004369	1.301532	-16.505484	-0.007772	60.45643	151.0043	1.020687
14799_002367.LAB	1/11/2024	21:22:48	16.07464	0.338589	0.081774	-0.00664	0.745513	0.435191	0.668842	7.633035	0.539738	3.218689	0.431944	1.265469	0.952296	1.216487	-19.334985	-0.007427	48.253492	150.9998	1.020741
14799_002368.LAB	1/11/2024	21:23:49	14.02133	0.32216	0.126176	-0.00275	0.736946	0.359163	0.62699	6.91037	0.493435	3.200066	0.423986	1.24102	1.257293	1.1168	-16.856886	-0.006416	42.298319	151.0214	1.020916
14799_002369.LAB	1/11/2024	21:24:50	16.18395	0.319778	0.171403	-0.00354	0.732411	0.413939	0.661667	7.703758	0.494625	3.219591	0.433003	1.386377	1.388864	1.227	-17.95943	-0.006214	49.403079	151.0179	1.020749
14799_002370.LAB	1/11/2024	21:25:51	12.92254	0.326996	0.181377	-0.00581	0.720919	0.309781	0.600241	6.417029	0.487038	3.188901	0.410513	1.300909	1.640238	1.003064	-15.726166	-0.005954	38.631879	151.0039	1.020794
14799_002371.LAB	1/11/2024	21:26:52	14.27024	0.317686	0.106918	-0.00776	0.720506	0.395501	0.612361	6.989874	0.460006	3.20342	0.43435	1.451869	1.781861	1.249022	-18.083925	-0.005693	43.407171	150.994	1.020742
14799_002372.LAB	1/11/2024	21:27:53	11.67594	0.303152	0.176899	-0.00627	0.682627	0.222182	0.603668	5.752687	0.421482	3.138938	0.429457	1.193969	1.860442	1.106216	-16.385795	-0.005508	35.545027	151.0144	1.020644
14799_002373.LAB	1/11/2024	21:28:53	18.49314	0.303597	0.280934	-0.0037	0.725278	0.440651	0.605261	8.373604	0.450715	3.206342	0.436003	1.42677	1.165337	1.13253	-17.718232	-0.006053	59.605634	151.0249	1.020522
14799_002374.LAB	1/11/2024	21:29:54	28.42098	0.278069	0.344433	-0.00297	0.795055	0.712238	0.696325	12.32252	0.651171	3.281788	0.450954	1.764192	0.492941	1.704747	-13.611123	-0.008916	92.418567	150.982	1.020572
14799_002375.LAB	1/11/2024	21:30:55	30.92457	0.375913	0.428005	-0.00187	0.828037	0.785776	0.701803	13.55379	0.80189	3.171259	0.434419	1.852649	0.312386	1.791892	-16.667494	-0.008587	99.559796	150.9957	1.020692
14799_002376.LAB	1/11/2024	21:31:56	19.50135	0.253114	0.427913	-0.00824	0.742753	0.392465	0.615201	9.401605	0.703848	3.205681	0.427383	1.42766	1.279122	1.353476	-18.527533	-0.006185	61.153124	150.974	1.020522
14799_002377.LAB	1/11/2024	21:32:57	18.71835	0.356578	0.362597	-7.3E-05	0.735349	0.368941	0.585049	8.963065	0.603857	3.198687	0.415156	1.318201	1.342268	1.341797	-18.24695	-0.006019	59.293391	150.9933	1.020888
14799_002378.LAB	1/11/2024	21:33:58	19.04003	0.31978	0.421745	-0.00323	0.72594	0.379433	0.589186	9.018617	0.602228	3.191036	0.411485	1.427858	0.99417	1.316019	-18.820519	-0.006895	60.372183	150.9512	1.020722
14799_002379.LAB	1/11/2024	21:34:59	18.68486	0.35191	0.430992	-0.00347	0.732198	0.337071	0.574284	8.950392	0.605684	3.198461	0.416015	1.426913	1.293684	1.146477	-20.149064	-0.006077	58.779187	151.0056	1.020882
14799_002380.LAB	1/11/2024	21:36:00	24.19639	0.287597	0.417699	-0.00517	0.760905	0.527232	0.628811	10.92791	0.656697	3.239876	0.415108	1.566688	0.995959	1.318008	-15.355639	-0.007808	77.4143	150.9197	1.020888
14799_002381.LAB	1/11/2024	21:37:00	24.9136	0.395764	0.398207	-0.00423	0.76056	0.55281	0.648158	11.26911	0.69494	3.224876	0.421728	1.580098	0.364774	1.464857	-18.005141	-0.007204	80.311726	150.8635	1.020827
14799_002382.LAB	1/11/2024	21:38:01	26.41714	0.268067	0.372791	-0.00332	0.770485	0.568874	0.682119	11.84436	0.737662	3.22982	0.398912	1.504436	0.568861	1.617556	-15.538884	-0.008599	85.377725	150.7974	1.020894
14799_002383.LAB	1/11/2024	21:39:02	26.26684	0.361113	0.353481	-0.0058	0.766869	0.559898	0.652846	11.90862	0.753897	3.234843	0.408714	1.621118	0.330865	1.747122	-13.529169	-0.008255	83.930615	150.8534	1.020983
14799_002384.LAB	1/11/2024	21:40:03	23.45225	0.419282	0.406133	-0.01021	0.742381	0.458395	0.60095	10.68575	0.718388	3.200299	0.418354	1.45256	0.797464	1.419492	-12.547927	-0.007183	75.008674	150.9214	1.020905
14799_002385.LAB	1/11/2024	21:41:04	18.32456	0.355197	0.371969	-0.00261	0.703181	0.250321	0.540295	8.902955	0.673178	3.153441	0.419174	1.321964	1.577262	1.364082	-18.244455	-0.006361	56.737742	150.9951	1.020816
14799_002386.LAB	1/11/2024	21:42:05	25.92017	0.288602	0.30175	-0.0038	0.740925	0.459448	0.629831	11.37957	0.684027	3.197319	0.410581	1.474066	0.811959	1.810625	-15.029648	-0.007264	83.217135	150.9923	1.020556
14799_002387.LAB	1/11/2024	21:43:06	24.30886	0.383608	0.390205	-0.00779	0.742242	0.533277	0.603089	10.9816	0.725233	3.21408	0.390802	1.483561	0.648853	1.448881	-14.947094	-0.005743	77.653955	151.0302	1.020882
14799_002388.LAB	1/11/2024	21:44:07	22.87214	0.319483	0.295191	-0.00631	0.730527	0.415118	0.58728	10.4939	0.720568	3.199267	0.388955	1.432757	0.810255	1.575221	-16.791524	-0.006834	72.172138	151.025	1.020355
14799_002389.LAB	1/11/2024	21:45:07	22.86648	0.379525	0.331577	-0.00562	0.741308	0.47108	0.611294	10.63191	0.699239	3.200084	0.396474	1.495554	0.872027	1.350243	-22.113004	-0.005413	72.535641	151.0177	1.020262
14799_002390.LAB	1/11/2024	21:46:08	20.95911	0.318216	0.402047	-0.01081	0.721962	0.335462	0.6125	9.927984	0.687962	3.185042	0.394927	1.382717	0.669225	1.457107	-16.656374	-0.00681	65.613745	150.9881	1.020173
14799_002391.LAB	1/11/2024	21:47:09	19.83031	0.440535	0.406239	-0.00038	0.701961	0.378055	0.597683	9.354941	0.661353	3.154843	0.36347	1.33509	1.087102	1.430203	-19.97115	-0.005784	62.91663	151.0091	1.020389
14799_002392.LAB	1/11/2024	21:48:10	20.96223	0.390582	0.334497	-0.00434	0.712378	0.36163	0.622393	8.186299	0.672947	3.176461	0.409028	1.257204	0.495474	1.523773	-12.207257	-0.006085	66.367301	151.0144	1.020633
14799_002393.LAB	1/11/2024	21:49:11	19.90098	0.366164	0.324215	-0.0094	0.700005	0.389722	0.640069	9.385633	0.664306	3.172972	0.400168	1.263415	0.725488	1.464796	-13.488253	-0.006277	63.21372	151.0267	1.020871
14799_002394.LAB	1/11/2024	21:50:12	18.47646	0.358875	0.341913	-0.01003	0.691494	0.308354	0.626562	8.86563	0.63822	3.167235	0.4021	1.224824	1.084989	1.221179	-18.351995	-0.006521	57.816564	151.0233	1.020818
14799_002395.LAB	1/11/2024	21:51:13	19.78498	0.368636	0.309345	-0.00459	0.698549	0.37467	0.65189	9.219801	0.686218	3.182946	0.401407	1.219397	0.644815	1.457932	-20.727398	-0.007124	62.689079	151.0302	1.020278
14799_002396.LAB	1/11/2024	21:52:13	18.88109	0.303955	0.393746	-0.00497	0.689802	0.342564	0.707712	9.026967	0.633708	3.178271	0.403066	1.13785	0.530148	1.325964	-15.013721	-0.006837	59.396392	150.9986	1.020007
14799_002397.LAB	1/11/2024	21:53:14	17.41162	0.316659	0.405221	-0.00212	0.679602	0.278305	0.596762	8.403735	0.601564	3.170147	0.403473	1.154955	0.949803	1.294316	-18.444777	-0.006155	54.691004	151.0164	1.020186
14799_002398.LAB	1/11/2024	21:54:15	18.29489	0.36051	0.433884	-0.00547	0.697225	0.257644	0.648448	8.826053	0.614428	3.206617	0.403587	1.077175	0.644815	1.36384	-15.657739	-0.008064	57.731917	151.0249	1.020112
14799_002399.LAB	1/11/2024	21:55:16	16.90992	0.39909	0.389889	-0.00555	0.699385	0.260623	0.612372	8.38706	0.633326	3.22929	0.401296	1.152905	0.742089	1.176685	-18.745579	-0.006716	52.970039	151.0212	1.019889
14799_002400.LAB	1/11/2024	21:56:17	15.08647	0.332766	0.381966	0.001679	0.688989	0.275262	0.642726	7.740101	0.596981	3.220765	0.387822	1.112455	1.122187	1.226382	-20.073912	-0.00653	47.238272	151.0181	1.019533
14799_002401.LAB	1/11/2024	21:57:18	13.37669	0.30743	0.266125	-0.01206	0.673934	0.212294	0.616481	7.019377	0.567599	3.217185	0.406202	1.069801	0.995738	1.365462	-19.097214	-0.006001	41.853579	151.0232	1.019724
14799_002402.LAB	1/11/2024	21:58:18	11.80412	0.356683	0.280567	0.003406	0.660382	0.138438	0.586137	6.299086	0.506804	3.189864	0.404588	1.00869	1.318826	1.167706	-18.441272	-0.004875	36.595235	151.0179	1.02009
14799_002403.LAB	1/11/2024	21:59:20	10.42341	0.254674	0.236661	0.00696	0.615002	0.089625	0.589765	5.696238	0.480437	3.158116	0.399996	1.143678	1.174666	1.083238	-18.670371	-0.004967	31.948999	151.0159	1.02029
14799_002404.LAB	1/11/2024	22:00:20	9.069445	0.221893	0.195896	-0.00115	0.608116	0.078104	0.64132	5.124442	0.4247	3.147946	0.411541	1.001042	1.095291	1.213605	-17.457156	-0.004725	27.899113	150.8371	1.020339
14799_002405.LAB	1/11/2024	22:01:21	8.064036	0.223904	0.140846	0.005303	0.605373	0.072085	0.601886	4.66025	0.430855	3.151003	0.412176	1.02631	1.216905	1.172464	-17.725468	-0.003147	24.599663	150.7499	1.020859
14799_002406.LAB	1/11/2024	22:02:22	7.082613	0.270243	0.114469	0.000369	0.600198	0.100946	0.612529	4.268091	0.386035	3.148482	0.401294	0.980141	1.138959	1.022678	-16.734462	-0.004248	21.874031	150.8232	1.021182
14799_002407.LAB	1/11/2024	22:03:23	6.131342	0.260821	0.168904	0.002989	0.59197	0.011577	0.583015	3.791338	0.371177	3.									

14799_002430.LAB	1/11/2024	22:26:43	2.647417	0.311491	0.10385	0.00038	0.664096	-0.07332	0.61492	1.869822	0.097417	3.218918	0.387741	0.729267	2.138669	0.687667	-11.888666	-0.004521	9.274601	151.0249	1.021636
14799_002431.LAB	1/11/2024	22:27:44	2.562308	0.321655	0.082135	0.006416	0.655007	-0.06157	0.655764	1.797191	0.113634	3.200246	0.378261	0.85146	2.312649	0.831599	-18.3587	-0.003878	9.074756	151.0337	1.021647
14799_002432.LAB	1/11/2024	22:28:44	2.620122	0.208634	0.124331	0.000466	0.618618	-0.08454	0.612613	1.797578	0.093253	3.187722	0.367718	0.997874	2.222908	0.778281	-19.069556	-0.003353	8.954241	151.0109	1.02168
14799_002433.LAB	1/11/2024	22:29:46	2.550152	0.234501	0.068781	0.004692	0.617721	-0.00433	0.608704	1.814689	0.099574	3.188202	0.372343	1.050823	2.073577	0.823977	-20.424815	-0.003087	8.504612	150.9355	1.021464
14799_002434.LAB	1/11/2024	22:30:46	2.371771	0.248456	-0.02748	0.007688	0.618915	-0.05737	0.622134	1.655013	0.118241	3.201896	0.398349	1.010037	1.705263	1.02439	-21.592157	-0.003092	7.878071	151.0144	1.021442
14799_002435.LAB	1/11/2024	22:31:47	2.16581	0.291858	0.057936	0.001869	0.627958	-0.03773	0.6421	1.682767	0.08725	3.228228	0.385864	0.942232	1.990208	0.825707	-25.145953	-0.003229	7.586026	151.0811	1.020943
14799_002436.LAB	1/11/2024	22:32:48	2.136642	0.250735	0.064791	-0.00314	0.631737	-0.02364	0.60957	1.646398	0.08514	3.239268	0.380534	0.928343	2.100706	0.805656	-16.078182	-0.003087	7.317641	151.0881	1.02147
14799_002437.LAB	1/11/2024	22:33:50	2.008596	0.207288	0.121085	0.004982	0.621679	-0.02252	0.634685	1.497863	0.081008	3.213031	0.363247	0.993861	1.718652	0.632278	-23.819676	-0.004103	6.747546	151.0889	1.021662
14799_002438.LAB	1/11/2024	22:34:50	1.807141	0.235673	0.115259	0.00769	0.626387	-0.0483	0.592529	1.469669	0.089589	3.212355	0.357762	0.936849	2.185625	0.678556	-24.070842	-0.003285	6.380312	151.0537	1.020938
14799_002439.LAB	1/11/2024	22:35:51	1.76178	0.232879	0.051116	0.007887	0.624994	-0.04648	0.628569	1.359691	0.063958	3.219872	0.379122	0.990291	2.116963	0.586373	-23.931531	-0.003761	5.879946	151.0199	1.020763
14799_002440.LAB	1/11/2024	22:36:51	1.632173	0.216044	0.073245	0.003533	0.618257	-0.0377	0.585267	1.271134	0.084582	3.198198	0.359881	1.051103	2.374607	0.63107	-21.085066	-0.002436	5.526149	151.0249	1.021165
14799_002441.LAB	1/11/2024	22:37:52	1.371186	0.22797	0.014609	0.0065	0.616789	-0.08197	0.605839	1.167858	0.0861	3.191706	0.364471	0.932374	2.166981	0.659499	-18.013438	-0.003296	4.701187	151.0194	1.020662
14799_002442.LAB	1/11/2024	22:38:53	1.371805	0.240376	0.008083	0.002615	0.609592	-0.04763	0.659423	1.102425	0.053877	3.189546	0.357293	0.985143	1.906628	0.6692	-18.983931	-0.00246	4.503119	151.0302	1.021292
14799_002443.LAB	1/11/2024	22:39:54	1.223604	0.300996	-0.04244	0.002457	0.60501	-0.0927	0.659153	1.06605	0.045932	3.165793	0.363313	0.954732	2.232326	0.93274	-18.661089	-0.002592	4.105982	151.0337	1.022054
14799_002444.LAB	1/11/2024	22:40:55	1.188887	0.248806	0.030986	0.004207	0.611035	-0.07075	0.618797	1.100575	0.046565	3.179349	0.368067	0.918444	2.150389	0.848816	-18.024636	-0.003936	3.921567	151.0409	1.022065
14799_002445.LAB	1/11/2024	22:41:56	1.063366	0.345597	-0.03685	0.002005	0.603839	-0.08385	0.61509	0.977291	0.05669	3.171817	0.388822	0.941704	2.044842	0.673646	-15.932362	-0.00235	3.423888	151.0406	1.02194
14799_002446.LAB	1/11/2024	22:42:57	0.918198	0.275547	-0.02134	0.002944	0.605679	-0.07864	0.687389	0.877384	0.056588	3.17179	0.408084	0.816694	1.629953	0.927143	-18.285864	-0.002813	3.174897	151.0694	1.02149
14799_002447.LAB	1/11/2024	22:43:58	0.812544	0.239098	0.042307	0.006403	0.61828	-0.1219	0.567599	0.665557	0.041795	3.191607	0.387765	0.917372	2.475218	0.678891	-13.42443	-0.003104	1.934587	151.0635	1.021409
14799_002448.LAB	1/11/2024	22:44:59	0.899596	0.273805	0.009844	0.000633	0.641005	-0.08389	0.503044	0.753592	0.020383	3.243484	0.391394	0.848779	2.707019	0.422372	-19.778919	-0.004063	2.49846	151.0618	1.021603
14799_002449.LAB	1/11/2024	22:46:00	0.754346	0.222234	0.090982	0.002208	0.614526	-0.05851	0.570421	0.500686	0.007366	3.194296	0.344568	0.848149	2.167624	0.493203	-18.528519	-0.002686	1.442037	151.0371	1.021657
14799_002450.LAB	1/11/2024	22:47:00	0.655577	0.163333	0.011041	0.006573	0.613693	-0.09445	0.587538	0.511271	0.032199	3.188994	0.388961	0.821695	2.151483	0.629081	-22.941016	-0.002585	1.571358	151.0425	1.022002
14799_002451.LAB	1/11/2024	22:48:01	0.618936	0.17695	0.038732	0.008504	0.611971	-0.02092	0.625243	0.504991	0.014063	3.197132	0.408022	0.706697	2.167305	0.442453	-19.130261	-0.00357	1.473438	151.0391	1.021761
14799_002452.LAB	1/11/2024	22:49:02	0.515881	0.224618	0.013476	0.000629	0.607571	-0.11112	0.61852	0.46147	0.014526	3.181603	0.392375	0.767461	2.279184	0.71572	-20.753018	-0.003957	1.391398	151.0232	1.022157
14799_002453.LAB	1/11/2024	22:50:03	0.460764	0.235226	0.034713	0.001129	0.60581	-0.06741	0.565272	0.352013	0.00293	3.179193	0.397506	0.759061	2.327145	0.507253	-19.345793	-0.003012	0.392681	151.0039	1.022999
14799_002454.LAB	1/11/2024	22:51:03	0.344591	0.249398	-0.0165	0.008944	0.604083	-0.08849	0.585951	0.285143	0.011015	3.177905	0.359809	0.755513	2.098846	0.523894	-17.326084	-0.003801	0.498445	151.0197	1.022168
Average											3.330393										
14799_002455.LAB	1/11/2024	22:52:04	0.462105	0.201699	-0.00536	0.005581	0.610518	-0.07343	0.534924	0.228566	0.001794	3.186602	0.376471	0.763902	2.430563	0.433315	-17.882123	-0.00161	0.367734	151.0144	1.022644
14799_002456.LAB	1/11/2024	22:53:05	0.412636	0.153079	-0.03399	0.007046	0.60751	-0.09754	0.578934	0.299105	0.001919	3.180086	0.349039	0.85307	2.440682	0.473685	-17.142926	-0.00262	0.391459	150.9898	1.022489
14799_002457.LAB	1/11/2024	22:54:06	0.310764	0.253876	0.01969	0.005903	0.623949	-0.07558	0.507078	0.236871	0.004698	3.200643	0.370971	0.806249	2.50824	0.560527	-22.617728	-0.003603	0.634283	150.96	1.022882
14799_002458.LAB	1/11/2024	22:55:07	0.152582	0.10457	-0.3382	0.004848	0.615879	0.018728	0.170456	0.155759	0.015879	3.175503	0.105966	0.04039	0.591702	0.51603	8.199277	0.003961	0.09785	150.8846	1.021824
14799_002459.LAB	1/11/2024	22:56:32	0.026843	-0.16315	-0.14884	0.00939	0.003755	-0.31273	0.07139	-0.04969	-0.00242	0.018293	0.032015	0.048461	-0.36801	-0.1867	1.610489	0.000257	0.373901	150.9665	1.021523
14799_002460.LAB	1/11/2024	22:56:41	0.056692	0.137158	-0.19421	0.002045	0.003502	-0.01303	-0.00152	-0.16824	0.014671	0.029447	-0.03496	0.038908	-0.00178	-0.1789	3.00077	-0.001742	0.633621	151.0014	1.021087
14799_002461.LAB	1/11/2024	22:56:51	0.120269	0.042338	-0.25851	-0.0093	0.002808	-0.25205	0.112999	-0.07616	0.009408	0.025699	-0.05891	-0.14165	0.921121	-0.10839	-2.739402	-0.001073	0.248336	151.0093	1.020891
14799_002462.LAB	1/11/2024	22:57:00	0.003651	0.095879	-0.16935	-0.01533	0.002818	-0.36318	0.009412	-0.07561	-0.04277	0.03374	0.041038	0.133062	0.346584	-0.03145	-5.031782	-0.000824	-0.246094	150.9528	1.020534
14799_002463.LAB	1/11/2024	22:57:10	-0.07599	0.072132	-0.26231	0.008066	0.002573	-0.25015	0.032898	-0.04672	0.014307	0.023557	0.060732	0.139136	0.501722	0.190034	10.341399	0.003152	0.515891	150.9641	1.020605
14799_002464.LAB	1/11/2024	22:57:19	0.029894	0.173629	-0.23751	-0.00682	0.003656	-0.17297	-0.03931	0.062539	0.044264	0.023472	0.010894	-0.07653	0.139787	-0.32923	-0.468436	0.000785	0.220599	150.9867	1.020498
14799_002465.LAB	1/11/2024	22:57:29	0.1149	0.127156	-0.12254	0.006885	0.003816	-0.19936	0.036716	-0.02268	0.015263	0.030068	0.004614	0.04218	0.366805	0.30476	7.863038	0.000899	-0.236633	150.9912	1.022244
14799_002466.LAB	1/11/2024	22:57:38	0.211584	0.091129	-0.32136	0.009642	0.003879	-0.26562	-0.00487	0.024454	-0.05046	0.01662	0.045439	-0.17352	0.966201	0.064455	16.413541	0.001058	-0.084333	151.0093	1.020641
14799_002467.LAB	1/11/2024	22:57:48	0.192613	0.130167	-0.19071	-0.01014	0.003756	-0.10699	-0.02084	-0.04965	-0.00987	0.02006	0.021891	-0.16525	0.340209	-0.01478	2.105395	-0.000146	0.957693	151.0093	1.020248
14799_002468.LAB	1/11/2024	22:57:57	-0.03596	0.156711	-0.26501	-0.00432	0.002299	-0.18961	-0.00076	0.163395	-0.04803	0.019951	-0.0241	-0.05456	-0.24159	0.130889	5.846868	-0.001332	-0.281201	151.0065	1.020485
14799_002469.LAB	1/11/2024	22:58:07	0.021253	0.14662	-0.20133	-0.00252	0.004035	-0.28404	0.003747	0.08496	-0.06749	0.010536	0.001651	-0.02982	0.893429	0.134895	8.175055	-0.001297	0.137262	151.0116	1.020123
14799_002470.LAB	1/11/2024	22:58:16	0.027261	0.04666	-0.10613	-0.00687	0.004339	-0.27628	-0.04268	-0.01732	-0.02793	0.018827	0.010757	-0.02383	-0.15405	0.169511	12.553087	-0.001157	-0.225883	151.0206	1.02032
14799_002471.LAB	1/11/2024	22:58:26	0.080225	0.124919	-0.26942	-0.00138	0.003383	-0.16783	0.034189	0.064791	-0.00791	0.026076	0.001626	0.00364							

14799_002493.LAB	1/11/2024	23:01:55	-0.16425	0.199171	-0.14817	-0.02047	11.96174	-0.17111	0.088326	-0.02534	0.182121	0.015003	-0.73538	0.068509	-0.52647	-0.51481	-6.903291	-0.004213	0.756199	150.9709	1.022598
14799_002494.LAB	1/11/2024	23:02:05	-0.08246	0.105347	-0.15822	-0.00787	11.97787	-0.33631	0.030517	-0.02808	0.161249	0.01195	-0.73536	-0.1381	0.132182	0.085957	4.631891	-0.001304	0.431299	150.998	1.022962
14799_002495.LAB	1/11/2024	23:02:14	-0.14073	0.15387	-0.23367	-0.00918	11.96193	-0.13925	0.183841	0.121857	0.115195	0.00258	-0.75122	0.024681	-0.37599	-0.05361	7.41216	-0.003	0.379783	150.9641	1.022676
14799_002496.LAB	1/11/2024	23:02:24	-0.16105	-0.08606	-0.20869	0.007691	11.92849	-0.29129	0.092164	0.009155	0.240268	0.008854	-0.71789	-0.15381	-0.07218	0.267348	6.968731	-0.003052	0.633683	150.9867	1.022355
14799_002497.LAB	1/11/2024	23:02:33	-0.21309	-0.1344	-0.26835	-0.01432	11.9251	-0.18883	0.180501	-0.02624	0.167423	0.01249	-0.70274	-0.36002	0.434748	0.152886	15.092405	-0.003505	1.099015	150.9867	1.022533
14799_002498.LAB	1/11/2024	23:02:42	-0.20002	0.019867	-0.256	0.000831	11.95085	-0.18447	0.109641	0.074	0.134677	0.004121	-0.7215	-0.07604	-0.28062	-0.24184	-3.133224	0.000755	0.977024	150.9754	1.023105
14799_002499.LAB	1/11/2024	23:02:52	0.055255	-0.01658	-0.21084	-0.00721	11.94377	-0.27013	-0.03156	-0.0701	0.168318	0.007538	-0.68771	-0.16786	0.613708	-0.42738	9.835109	-0.000497	0.85272	150.998	1.022962
14799_002500.LAB	1/11/2024	23:03:02	-0.10338	0.046532	-0.15996	0.00563	11.89498	-0.18596	0.013986	-0.0478	0.159433	0.011112	-0.75606	-0.11963	-0.6073	0.08466	5.325786	-0.001171	1.326236	151.0014	1.02263
Averages							11.94385														

Spectrum	Date	Time	Acetaldeh										SULFUR										CleanAir	Temp (C)	Pressure (Atm)
			ACETYLEN					Formalde					HEXAFUO					ETO							
			yde	E	Butane	CH4 %	CO2%	span	Ethane	Ethylene	hyde	Formic	H2O%	N2O	150C	NO high	NO2 high		Propane	Propylene	RIDE	150C span			
14799_002545.LAB	1/12/2024	8:08:46	0.062478	0.110224	-0.4205	-0.00864	0.001411	-0.37323	-0.05966	0.058027	0.043379	0.005044	0.029539	-0.17514	0.497723	-0.23478	9.940559	-0.000375	0.554006	150.9573	1.031444				
14799_002546.LAB	1/12/2024	8:08:56	-0.13077	0.145965	-0.46133	0.006994	0.001067	-0.28211	-0.02649	0.14004	-0.01108	-0.001681	0.01553	0.096759	0.099001	-0.16705	9.121684	0.001373	0.455824	150.8666	1.031329				
14799_002547.LAB	1/12/2024	8:09:05	-0.01998	0.276276	-0.47152	-0.00756	0.001756	-0.37487	-0.04912	0.030416	-0.00511	-0.001359	0.042128	-0.04447	0.061889	-0.18184	-0.33464	0.000714	0.831148	150.7572	1.031466				
14799_002548.LAB	1/12/2024	8:09:15	0.11471	0.145003	-0.61995	0.018608	0.000752	-0.4127	0.061842	-0.09965	-0.07382	0.000505	0.03841	0.060455	0.675963	-0.16077	1.395708	0.00074	0.022271	150.7493	1.031816				
14799_002549.LAB	1/12/2024	8:09:24	0.008116	0.195016	-0.45688	-0.0002	0.001151	-0.17564	0.053564	0.036386	0.016527	0.012015	0.011745	-0.0604	0.193801	-0.1751	-0.49918	-0.003638	-0.118673	150.6815	1.031352				
14799_002550.LAB	1/12/2024	8:09:34	-0.00542	0.138758	-0.51769	-0.00599	0.001182	-0.16624	-0.03916	-0.04347	-0.05266	0.011129	-0.00296	0.050695	0.00545	-0.08595	2.411371	0.00188	1.079648	150.7041	1.031602				
14799_002551.LAB	1/12/2024	8:09:43	0.066777	0.288148	-0.42538	0.007997	0.000682	-0.32181	0.054925	-0.01303	0.015295	0.01222	-0.00288	-0.07945	0.759097	0.018725	8.917238	-0.001459	0.154317	150.738	1.031709				
14799_002552.LAB	1/12/2024	8:09:53	0.006948	0.06511	-0.46778	0.028145	0.002048	-0.28676	-0.05467	0.007151	-0.00272	-0.003285	-0.01221	-0.07155	0.369589	-0.14485	-5.89752	0.000448	0.87638	150.6453	1.031594				
14799_002553.LAB	1/12/2024	8:10:02	0.044531	0.199553	-0.46219	0.004413	0.000406	-0.21151	-0.07029	0.041651	-0.0147	0.003622	0.032866	0.136967	0.239598	-0.18075	-0.30435	0.000772	0.690108	150.6631	1.031851				
14799_002554.LAB	1/12/2024	8:10:12	0.099657	0.189272	-0.66568	-0.00321	0.001161	-0.39077	0.044048	-0.00299	-0.02503	0.00195	0.0366	-0.05839	0.796444	-0.08003	5.665743	-0.000068	0.318586	150.6453	1.031659				
14799_002555.LAB	1/12/2024	8:10:21	0.022077	0.211615	-0.34072	0.007221	-0.0001	-0.24219	-0.07258	0.108276	0.002983	0.005024	0.084076	0.065768	-0.28089	-0.42574	-3.35586	-0.000809	0.391707	150.6377	1.031972				
14799_002556.LAB	1/12/2024	8:10:31	0.217183	0.186349	-0.38531	-0.00932	0.000914	-0.21054	0.02737	0.001779	0.027427	0.005848	0.079122	-0.04208	0.985429	-0.19184	11.85711	0.000684	0.665806	150.6136	1.031887				
14799_002557.LAB	1/12/2024	8:10:40	0.063474	0.109375	-0.42367	0.003678	0.000102	-0.40629	0.065303	-0.03582	-0.03914	0.006651	0.012311	0.009569	0.206072	-0.10887	-5.72089	-0.001503	0.842296	150.6962	1.032269				
14799_002558.LAB	1/12/2024	8:10:50	0.130662	0.079929	-0.58454	0.003297	-0.000075	-0.34889	-0.14337	-0.01087	-0.07092	0.002278	0.009548	-0.02983	1.103593	-0.15906	10.9862	0.002394	1.07736	150.7041	1.032387				
14799_002559.LAB	1/12/2024	8:10:59	0.210118	0.400114	-0.44751	-0.00328	0.000932	-0.23872	-0.08282	-0.02082	0.009344	-0.005282	0.023351	-0.06002	0.135036	0.059103	-4.52975	0.001888	1.05537	150.6476	1.031851				
14799_002560.LAB	1/12/2024	8:11:09	0.010611	0.238328	-0.43514	-0.01434	0.000722	-0.31978	-0.07987	-0.0264	-0.0024	0.011629	0.031809	0.032552	-0.66754	-0.51134	4.536894	0.000101	0.005003	150.6702	1.032244				
14799_002561.LAB	1/12/2024	8:11:19	0.037812	0.251012	-0.48259	-0.00073	0.0008	-0.20815	0.000477	0.030861	-0.07016	0.001805	0.033922	0.131413	1.315161	-0.24138	3.786149	-0.001512	0.460918	150.6589	1.032423				
14799_002562.LAB	1/12/2024	8:11:28	0.004838	0.204726	-0.50558	-0.00732	0.000033	-0.37512	0.029607	-0.06316	-0.034	0.003959	0.014856	-0.10614	0.637235	-0.11608	14.28876	-0.001159	0.39069	150.6815	1.032316				
14799_002563.LAB	1/12/2024	8:11:38	-0.1316	0.34624	-0.43503	0.005851	0.001676	-0.39786	-0.00939	0.002401	0.042905	0.002874	-0.00177	-0.03549	-0.39053	-0.20293	-1.51264	-0.001384	0.697138	150.6928	1.032637				
14799_002564.LAB	1/12/2024	8:11:47	0.020943	0.218951	-0.56346	-0.00563	0.000296	-0.37068	0.04295	0.071422	-0.01958	-0.003387	0.035759	-0.20798	-0.91058	-0.28941	-1.61371	0.000169	0.76719	150.6362	1.032601				
14799_002565.LAB	1/12/2024	8:11:56	0.014267	0.325127	-0.43672	-0.00028	0.000389	-0.33179	-0.00497	0.030081	0.008099	0.012513	0.040982	-0.09995	0.686332	-0.05182	-2.03583	-0.00077	0.202781	150.6351	1.032912				
14799_002566.LAB	1/12/2024	8:12:06	0.065013	0.235438	-0.45584	0.012241	0.000229	-0.35405	-0.02368	-0.05578	-0.01822	0.013572	-0.01079	-0.13685	0.737051	-0.17237	1.13312	-0.002034	0.226424	150.7012	1.032092				
14799_002567.LAB	1/12/2024	8:12:16	0.17925	0.053148	-0.43892	-0.00516	0.000196	-0.45069	-0.04248	-0.0386	0.004999	0.002949	-3.8E-05	-0.10775	0.733978	-0.16794	-16.5996	-0.00122	0.693865	150.686	1.031948				
14799_002568.LAB	1/12/2024	8:12:25	0.002538	0.162997	-0.50552	-0.00364	0.000426	-0.42985	0.015726	-0.05695	0.047374	0.005036	0.032548	-0.27332	0.831933	0.007824	-3.73917	-0.001278	0.48081	150.6362	1.032101				
14799_002569.LAB	1/12/2024	8:12:34	0.000191	0.197852	-0.50283	-0.00439	0.000024	-0.43108	0.041152	0.056156	0.001228	0.004148	0.041553	0.100139	0.251417	-0.04907	21.77907	-0.001778	0.024946	150.6122	1.032213				
14799_002570.LAB	1/12/2024	8:12:44	0.001081	0.272167	-0.51548	0.014809	0.000577	-0.3174	0.012765	0.019878	0.013847	0.002499	0.046172	-0.12377	0.007476	-0.06579	15.0751	0.000498	0.495511	150.6046	1.032333				
14799_002571.LAB	1/12/2024	8:12:53	0.185736	0.134614	-0.354	0.004186	0.000197	-0.45775	0.012896	-0.01736	-0.01696	0.0005	0.015942	-0.04514	-0.10356	-0.16903	6.843589	0.000394	0.521829	150.6023	1.032565				
14799_002572.LAB	1/12/2024	8:13:03	0.023042	0.150286	-0.3744	-0.00034	0.000152	-0.33994	-0.04641	-0.10386	-0.00757	-0.003386	0.053568	0.094108	0.696867	-0.22717	18.09936	-0.001137	0.367356	150.5944	1.032494				
14799_002573.LAB	1/12/2024	8:13:12	-0.08342	0.276399	-0.49954	0.011395	0.000325	-0.33337	-0.02389	0.039915	0.037767	0.006074	0.053618	-0.05432	-0.12867	-0.24581	2.771659	-0.000052	0.228461	150.5741	1.032454				
14799_002574.LAB	1/12/2024	8:13:22	-0.10037	0.305389	-0.3422	-0.02231	0.000896	-0.15754	0.038852	0.170376	0.023294	-0.002528	0.008987	-0.02799	-0.12673	-0.50444	8.577141	-0.001914	0.34144	150.6136	1.032565				
14799_002575.LAB	1/12/2024	8:13:31	-0.102	0.33331	-0.4753	0.01089	0.000767	-0.48448	-0.04857	-0.0153	-0.02501	0.003007	0.025467	0.017824	0.410838	-0.11443	11.62442	-0.000066	0.329751	150.6362	1.032494				
14799_002576.LAB	1/12/2024	8:13:41	-0.05011	0.146868	-0.51126	0.005901	0.000633	-0.33678	-0.00668	0.008425	0.006538	0.003232	0.074214	0.054055	-0.24051	0.304187	3.608938	-0.000818	0.132922	150.5639	1.032443				
14799_002577.LAB	1/12/2024	8:13:51	-0.13376	0.137948	-0.50272	0.008565	0.000954	-0.2942	0.02355	0.040353	0.020511	-0.004248	0.030587	-0.12993	-0.27296	0.359308	7.871258	-0.00117	0.527295	150.6023	1.031959				
14799_002578.LAB	1/12/2024	8:14:00	-0.06357	0.371928	-0.42651	0.005718	0.000839	-0.27638	0.010002	0.043869	-0.00896	0.001187	0.090202	-0.23056	0.417815	0.295299	7.243954	0.000409	-0.053668	150.5797	1.032565				
14799_002579.LAB	1/12/2024	8:14:10	-0.00448	0.211435	-0.40659	-0.0112	0.000924	-0.29575	0.040982	-0.02862	0.03273	0.004303	0.025108	-0.09401	0.646817	-0.00045	-7.01756	0.000637	0.702407	150.591	1.032316				
14799_002580.LAB	1/12/2024	8:14:19	0.027894	0.238617	-0.53374	-0.00147	0.001189	-0.44906	-0.03928	0.054069	-0.02142	0.00502	0.048198	-0.06342	1.273728	0.1124	20.815								

14799_002610.LAB	1/12/2024	8:19:04	0.15341	0.352282	-0.40216	-0.00127	0.001953	-0.24654	-0.02655	0.063488	0.035934	0.007372	-0.01483	-0.03162	0.930838	0.244332	7.830933	-0.000542	0.239829	150.7154	1.00254
14799_002611.LAB	1/12/2024	8:19:14	0.210189	0.257988	-0.50331	0.002157	0.000903	-0.35436	0.045224	0.025159	0.081289	0.001624	0.005932	-0.14955	0.788067	-0.14775	-5.42737	0.001372	-0.079827	150.7267	1.002255
14799_002612.LAB	1/12/2024	8:19:23	0.046426	0.153295	-0.44172	0.014243	0.001577	-0.30833	0.109044	0.095837	0.028046	0.006634	0.046538	0.318991	-0.74985	0.011639	9.90511	-0.00217	1.020906	150.7776	1.002772
14799_002613.LAB	1/12/2024	8:19:33	0.001189	0.237214	-0.40948	0.006478	0.00047	-0.2098	0.047663	0.057314	-0.03624	0.00324	0.021969	0.127578	0.108542	0.007671	9.909987	-0.000841	-0.068974	150.7606	1.002647
14799_002614.LAB	1/12/2024	8:19:43	0.019363	0.247272	-0.40046	-0.01123	0.000123	-0.42877	0.021234	0.069332	0.026472	0.00012	0.078323	0.148929	-0.89378	-0.197	9.821535	0.000419	0.894775	150.7606	1.002576
14799_002615.LAB	1/12/2024	8:19:52	0.133036	0.070053	-0.40826	-0.02054	0.000878	-0.33321	-0.07144	-0.0408	-0.00754	-0.007685	0.108566	-0.10064	0.571488	0.300592	2.735729	-0.000341	0.461989	150.714	1.002451
14799_002616.LAB	1/12/2024	8:20:02	0.193204	0.300074	-0.3618	0.003849	0.000937	-0.33476	0.016354	-0.05767	0.01114	-0.002577	0.01163	-0.01436	0.719975	0.03627	11.87126	-0.002721	0.383555	150.7776	1.00274
14799_002617.LAB	1/12/2024	8:20:11	0.111014	0.144736	-0.45147	-0.01214	0.000457	-0.40347	-0.10455	-0.12121	0.010368	0.003788	0.05561	-0.01286	0.061544	-0.16584	13.01973	0.000305	0.565589	150.7776	1.003214
14799_002618.LAB	1/12/2024	8:20:20	0.128586	0.113684	-0.43832	-0.00344	0.001589	-0.45248	-0.1531	-0.08434	-0.03137	0.004478	0.049763	0.308111	0.847435	0.338832	12.66184	-0.000011	0.73465	150.8511	1.002505
14799_002619.LAB	1/12/2024	8:20:31	0.326428	0.314766	-0.22677	-0.00744	0.00251	-0.36514	-0.02344	-0.09383	-4.4E-05	0.013416	0.036717	-0.04994	1.617932	-0.19402	1.589814	0.001757	0.752356	150.859	1.002258
14799_002620.LAB	1/12/2024	8:20:40	0.180869	0.144934	-0.34497	-0.01597	0.002193	-0.29965	-0.02713	-0.23948	0.019247	0.014029	0.044933	-0.22886	0.397078	0.103886	6.105433	-0.003581	0.243813	150.9189	1.003469
14799_002621.LAB	1/12/2024	8:20:49	0.039582	0.031581	-0.41414	-0.00871	0.001642	-0.43132	0.022754	-0.09804	0.043349	0.005457	-0.00335	-0.10518	-0.06713	0.247381	-5.70029	0.000536	0.277055	150.8058	1.003111
14799_002622.LAB	1/12/2024	8:20:59	0.212638	0.152861	-0.33439	-0.00371	0.001046	-0.41218	-0.03226	0.045288	-0.00431	0.000682	0.020864	0.018454	-0.07404	-0.04303	6.019757	0.000339	0.251643	150.8963	1.003183
14799_002623.LAB	1/12/2024	8:21:08	0.268975	0.217818	-0.27601	0.001622	0.000464	-0.42449	-0.06808	0.107358	0.000867	0.002512	-0.03928	-0.07212	0.061942	-0.16889	14.41431	0.000709	0.61863	150.8737	1.002612
14799_002624.LAB	1/12/2024	8:21:18	0.358864	0.278264	-0.38355	-0.00579	0.001516	-0.42139	-0.05399	-0.14857	0.023108	-0.002384	0.056899	0.041054	0.668071	0.202601	7.48144	0.000141	0.274364	150.9302	1.00274
14799_002625.LAB	1/12/2024	8:21:27	0.251787	0.337978	-0.50067	0.004129	0.000756	-0.45947	-0.03236	0.001775	0.041314	0.005462	0.020012	0.10068	1.149416	0.378605	13.94686	0.001391	0.151837	150.9556	1.002491
14799_002626.LAB	1/12/2024	8:21:37	0.075296	0.38427	-0.34699	0.009662	0.00076	-0.44406	-0.07685	0.101649	-0.00155	0.001847	0.023049	-0.22257	0.759599	-0.10728	12.34428	-0.002089	0.087407	150.9641	1.002576
14799_002627.LAB	1/12/2024	8:21:46	0.240283	0.225605	-0.42641	0.000681	-0.000751	-0.34876	-0.06118	0.082129	0.018604	0.010012	0.038663	-0.22584	0.695738	0.300256	-6.63416	0.002333	0.84517	150.998	1.002576
14799_002628.LAB	1/12/2024	8:21:56	0.144221	0.341232	-0.27446	0.00186	-0.000016	-0.31792	-0.0379	-0.00527	-0.00694	0.005565	0.060077	-0.11499	0.603283	0.022402	6.603553	0.001703	0.286992	150.9754	1.002505
14799_002629.LAB	1/12/2024	8:22:05	0.185904	0.236533	-0.29427	0.004442	0.000097	-0.26214	-0.0011	0.085859	0.039991	0.018025	0.056008	0.179815	0.44091	0.010468	13.55116	-0.002336	0.481282	151.0319	1.003254
14799_002630.LAB	1/12/2024	8:22:15	0.137664	0.161318	-0.37018	-0.00267	0.000959	-0.20074	-0.06506	0.008482	-0.00333	0.003393	0.037759	-0.11041	1.322027	-0.15251	16.3669	0.00047	0.159956	150.9867	1.003326
14799_002631.LAB	1/12/2024	8:22:24	0.117864	0.413248	-0.34415	0.006074	0.000272	-0.37532	-0.04275	0.137044	0.061373	0.016559	0.056544	-0.00784	0.442597	0.342469	-5.48912	-0.001196	0.52957	151.0093	1.002612
14799_002632.LAB	1/12/2024	8:22:34	0.264262	0.334133	-0.43682	0.011452	0.000117	-0.33963	0.011834	0.157685	0.033007	0.015508	0.084877	0.257269	1.715519	0.30378	10.78879	-0.000052	0.401799	151.0206	1.002862
14799_002633.LAB	1/12/2024	8:22:43	0.221637	0.321	-0.4882	0.008815	0.001577	-0.27818	-0.04912	-0.00565	-0.03015	0.01581	0.121577	-0.05395	1.417816	0.213465	-3.12727	0.002672	0.572518	151.0206	1.00304
14799_002634.LAB	1/12/2024	8:22:53	0.268806	0.474224	-0.27167	0.003507	0.000907	-0.30656	0.075779	-0.01041	0.040012	0.010795	0.068243	0.053095	-0.14814	0.164521	-7.15889	-0.000822	-0.011312	150.9867	1.002933
14799_002635.LAB	1/12/2024	8:23:02	0.2556	0.177503	-0.31001	-0.00296	0.001553	-0.37071	0.044259	-0.03399	-0.03328	0.002761	0.066365	-0.08191	0.621284	0.034024	-0.94494	-0.002658	0.053484	151.0206	1.003254
14799_002636.LAB	1/12/2024	8:23:12	0.198929	0.243023	-0.30045	0.019667	0.00101	-0.18806	0.012704	0.029232	-0.00718	0.013693	0.045168	-0.08875	1.241928	-0.29956	-0.7865	0.001539	0.248664	151.0014	1.002708
14799_002637.LAB	1/12/2024	8:23:21	0.226212	0.34934	-0.3653	0.002813	0.000567	-0.31223	-0.00069	-0.04178	-0.01645	0.002923	0.110849	0.239246	1.231321	0.264915	9.728887	0.001926	0.209246	150.9754	1.002969
14799_002638.LAB	1/12/2024	8:23:31	0.093691	0.205307	-0.29342	0.00123	0.001486	-0.34396	0.055925	-0.24232	-0.06917	0.009015	-0.03688	0.077389	0.415474	-0.13942	-3.56877	0.001252	0.414867	150.9415	1.002362
14799_002639.LAB	1/12/2024	8:23:40	0.154912	-0.0063	-0.44105	-0.01232	0.00146	-0.35971	-0.07928	-0.1019	0.041575	0.013159	0.060079	0.115568	0.555073	-0.10038	-0.3318	0.000773	0.584539	150.9302	1.02314
14799_002640.LAB	1/12/2024	8:23:50	-0.04023	0.208336	-0.3974	0.010756	0.000261	-0.31297	-0.05416	0.050159	0.013405	0.00005	0.031239	0.145342	0.005165	0.208661	10.84549	-0.000244	-0.088855	150.8511	1.041598
14799_002641.LAB	1/12/2024	8:23:59	0.163016	0.193422	-0.40755	0.016296	0.000677	-0.36892	0.001104	0.106085	0.00904	0.001693	0.076847	-0.00027	0.090398	0.034354	5.63917	0.000213	-0.526701	150.7493	1.042205
14799_002642.LAB	1/12/2024	8:24:09	0.065363	0.181489	-0.32721	0.011226	0.00127	-0.26898	-0.01175	0.048044	0.006592	0.008258	-0.01085	-0.03397	1.583743	-0.1655	11.16351	0.000151	0.444121	150.7493	1.041812
14799_002643.LAB	1/12/2024	8:24:18	-0.059072	0.178579	-0.52833	-0.00874	0.000622	-0.3627	-0.0521	0.050426	-0.03727	0.001776	-0.00798	0.073265	0.582812	0.227713	3.067382	0.001573	0.188766	150.6815	1.041527
14799_002644.LAB	1/12/2024	8:24:28	0.173358	0.230807	-0.38418	0.019753	0.000341	-0.47666	-0.08856	-0.09463	-0.02006	0.000695	-0.03338	-0.07895	1.24721	-0.20927	3.866051	-0.002115	0.374761	150.6589	1.041812
14799_002645.LAB	1/12/2024	8:24:37	0.254225	0.381607	-0.47755	0.000851	0.001408	-0.27529	-0.03278	-0.03997	0.027526	-0.001428	-0.01988	-0.07197	0.846052	-0.07248	4.852744	0.000043	0.105952	150.6249	1.041812
14799_002646.LAB	1/12/2024	8:24:47	0.023147	0.373016	-0.2591	0.00662	0.000932	-0.46247	-0.04827	-0.03003	0.018901	0.000403	0.078554	-0.04151	0.189523	0.24482	-1.87434	-0.000272	0.176528	150.6136	1.041955
14799_002647.LAB	1/12/2024	8:24:57	0.095756	0.114355	-0.44392	-0.00257	0.000951	-0.46368	0.020735	-0.00131	0.007523	-0.000077	0.034145	0.025371	0.386179	0.007884	3.122692	-0.000495	0.099861	150.6136	1.041955
14799_002648.LAB	1/12/2024	8:25:06	0.18594	0.259244	-0.41873	0.000947	-0.000273	-0.40387	0.001323	-0.10636	-0.00746	0.002302	0.04249	0.088299	0.345792	0.390101	14.59035	-0.000409	0.25194	150.5944	1.042101
14799_002649.LAB	1/12/2024	8:25:15	0.188508	0.25943	-0.39569	0.010218	0.000743	-0.34466	-0.03569	-0.07666	-0.06907	0.004874	-0.03622	0.038807	0.782755	-0.17793	-4.90767	0.002351	0.476365	150.5995	1.041893
14799_002650.LAB	1/12/2024	8:25:25	0.296673	0.232744	-0.50363	0.00437	0.000958	-0.47996	0.007348	-0.07077	0.088845	0.005284	-0.04693	-0.18005	0.466853	-0.08247	2.044803	0.000301	0.472438	150.5797	1.042526
14799_002651.LAB	1/12/2024	8:25:35	0.13951	0.192474	-0.36488	0.002895	0.000183	-0.3068	-0.00568	-0.14648	-0.04488	0.010058	0.049044	-0.15169	0.155982	-0.1825	3.108888	-0.000495	1.017028	150.6046	1.042519
14799_002652.LAB	1/12/2024	8:25:44	0.068268	0.167985	-0.45833	0.002225	0.000793	-0.36973	0.110409	0.009043	0.037837	0.006261	0.016938	0.048							

14799_002677.LAB	1/12/2024	8:33:07	-0.62537	0.142329	0.279217	-0.00058	-0.000217	0.247768	4.791116	-0.01539	-0.03463	0.011913	-0.04652	0.372835	-3.57262	1.04633	4.316442	5.138914	107.833877	150.6148	1.083005
14799_002678.LAB	1/12/2024	8:33:16	-0.58354	0.020922	0.15825	0.00405	0.000926	0.316222	4.843229	-0.06375	-0.03676	0.003091	-0.00451	0.305414	-3.16263	1.251494	11.03375	5.146563	109.236654	150.5119	1.083048
14799_002679.LAB	1/12/2024	8:33:26	-0.5509	0.065964	0.263642	-0.02021	-0.001092	0.374831	4.674194	0.070628	-0.04053	-0.000547	-0.06188	0.415212	-3.81975	0.806411	1.60269	5.147589	109.784101	150.4893	1.083262
14799_002680.LAB	1/12/2024	8:33:35	-0.46653	0.106115	0.278971	-0.00827	-0.000573	0.46191	4.735936	-0.12477	-0.11436	0.001458	-0.0204	0.345269	-4.17143	1.224394	6.432712	5.155105	109.586931	150.444	1.083012
14799_002681.LAB	1/12/2024	8:33:45	-0.44081	0.077663	0.04528	-0.01232	0.000012	0.346099	4.778953	-0.00904	-0.0446	0.001813	0.030274	0.361335	-3.48261	1.030525	0.552365	5.155029	110.044027	150.3988	1.08494
14799_002682.LAB	1/12/2024	8:33:54	-0.52543	-0.05876	0.295177	-0.0108	0.000919	0.280953	4.594339	0.001323	-0.05863	-0.007473	-0.0493	0.188743	-3.62485	1.14951	-4.66413	5.152917	109.998465	150.3084	1.085047
14799_002683.LAB	1/12/2024	8:34:04	-0.54652	0.08185	0.389778	-0.00198	0.001188	0.322496	4.813714	0.06607	-0.09791	0.001365	-0.02349	0.22051	-3.19416	0.895946	-0.38366	5.153758	110.23444	150.3197	1.08494
14799_002684.LAB	1/12/2024	8:34:13	-0.53963	0.142571	0.268455	-0.00063	0.000045	0.405977	4.767609	0.10088	-0.02393	0.003403	0.040831	0.216934	-3.04311	0.593314	-1.44617	5.153653	109.544489	150.2519	1.084904
Spectrum	Date	Time	Acetaldehy	ACETYLENE	Butane 15C	CH4 % 150I	CO2% 150C	s Ethane 15C	Ethylene 1I	Formaldeh	Formic Acid	H2O% 150C	N2O 150C	NO high 15	NO2 high 1	Propane 15	Propylene 15	SULFUR HEX	ETO CleanAir	Temp (C)	Pressure (Atm)
14799_002685.LAB	1/12/2024	8:34:23	-0.51288	0.117508	0.150147	-0.00067	0.000762	0.356817	4.808559	0.040922	-0.05264	-0.000341	-0.00266	0.318766	-4.0696	1.013646	10.74754	5.154135	110.324555	150.1501	1.085404
14799_002686.LAB	1/12/2024	8:34:32	-0.58672	0.031729	0.257369	0.006624	-0.000878	0.329804	4.72915	0.026044	-0.04999	-0.001065	-0.00867	0.198927	-3.91183	0.667615	14.69367	5.156551	100.46578	150.2406	1.085476
14799_002687.LAB	1/12/2024	8:34:42	-0.76654	-0.07318	0.315018	-0.00815	-0.000388	0.435174	4.840046	0.047458	-0.1018	-0.004399	0.01005	0.080726	-3.01629	0.719689	12.59808	5.150955	100.134231	150.1976	1.085768
14799_002688.LAB	1/12/2024	8:34:51	-0.6441	-0.06598	0.264351	-0.00165	-0.000309	0.331815	4.773927	0.047413	-0.10495	-0.001804	-0.00124	0.312145	-2.96007	1.17723	0.335803	5.151829	100.327614	150.2632	1.085369
14799_002689.LAB	1/12/2024	8:35:01	-0.43918	-0.07498	0.379421	0.007508	-0.000161	0.3722	4.732852	-0.1015	-0.06155	0.00601	0.009053	0.344237	-3.83471	0.559141	9.986056	5.026681	100.117221	150.2179	1.085873
14799_002690.LAB	1/12/2024	8:35:10	-0.59085	0.059939	0.453086	-0.00813	0.000281	0.25955	4.848089	-0.00125	-0.06376	0.001511	-0.00645	0.493775	-3.62227	0.691079	-4.66034	5.01998	100.090786	150.2485	1.086218 QA Direct
14799_002691.LAB	1/12/2024	8:35:20	-0.57038	-0.05553	0.243888	0.004402	0.000362	0.408637	4.693826	0.00703	-0.06248	-0.003689	0.012652	0.365699	-3.67769	1.040234	-3.52062	5.029543	99.723061	150.184	1.086118
14799_002692.LAB	1/12/2024	8:35:29	-0.75098	0.142589	0.337365	-0.00798	-0.000035	0.388535	4.897781	0.097291	-0.04157	0.009996	-0.05008	0.23025	-3.74461	0.664684	-1.53572	5.024027	99.958918	150.1049	1.086654
14799_002693.LAB	1/12/2024	8:35:39	-0.63218	-0.06258	0.089311	-0.00425	0.000126	0.328888	4.74265	0.016566	-0.02972	0.001192	-0.05983	0.43144	-3.99143	1.34363	-4.29023	5.023707	100.432565	150.0823	1.086832
14799_002694.LAB	1/12/2024	8:35:49	-0.62529	0.069415	0.373067	-0.00512	-0.000302	0.227044	4.832255	0.035241	-0.06388	0.001544	0.031713	0.269135	-2.87405	1.103991	9.001983	5.029188	100.182891	150.1264	1.086475
14799_002695.LAB	1/12/2024	8:35:58	-0.65272	0.031012	0.177038	-0.00997	-0.00043	0.369865	4.738085	0.11193	-0.0657	0.000063	0.054004	0.401812	-3.32084	0.941113	-2.31248	5.025884	100.741384	150.0399	1.086636
14799_002696.LAB	1/12/2024	8:36:08	-0.51834	-0.04636	0.342378	-0.00082	0.001043	0.299314	4.910753	-0.08084	-0.05522	0.000085	-0.00625	0.431621	-4.16674	0.602205	-7.36774	5.02739	100.290251	150.1275	1.087046
14799_002697.LAB	1/12/2024	8:36:17	-0.55343	0.015453	0.248082	0.000879	0.000691	0.246501	4.795833	-0.03536	-0.05692	0.010079	-0.01595	0.166853	-3.7929	0.854667	2.134785	5.025262	100.203885	150.0484	1.087261
14799_002698.LAB	1/12/2024	8:36:27	-0.64831	0.108242	0.140296	-0.00807	-0.000363	0.300911	4.888833	-0.0035	-0.08753	0.004558	-0.0031	0.278781	-2.99822	0.989722	5.200157	5.024557	100.534403	150.0823	1.087332
14799_002699.LAB	1/12/2024	8:36:36	-0.66272	-0.02845	0.383706	-0.01377	0.000544	0.314799	4.983364	-0.00471	-0.00703	0.002054	0.036695	0.231414	-4.25484	0.93386	-4.91169	5.026087	100.353083	150.0246	1.087086
14799_002700.LAB	1/12/2024	8:36:46	-0.67052	-0.07951	0.201294	0.001191	0.000621	0.26221	4.823161	0.046627	-0.05483	0.0041	0.009244	0.126625	-2.62323	1.263522	11.51245	5.021543	100.109626	150.0257	1.087582
Averages																		5.0251971	100.238259		
14799_002701.LAB	1/12/2024	8:36:55	-0.66432	0.12762	0.228853	0.005474	0.000151	0.36175	4.848843	0.07999	-0.0784	0.003452	0.017807	0.136827	-2.90861	1.038045	3.958104	5.028297	101.033127	150.0257	1.087653
14799_002702.LAB	1/12/2024	8:37:04	-0.52032	-0.05501	0.264516	0.001881	0.001283	0.314084	4.438759	-0.04792	-0.08666	-0.001009	-0.02542	0.252885	-3.24555	1.198539	12.6497	5.032339	100.168408	150.0144	1.027817
14799_002703.LAB	1/12/2024	8:37:14	-0.38731	0.130298	0.224103	-0.00458	0.000483	0.232538	3.496693	-0.00429	-0.043	0.003355	-0.00939	0.493727	-3.71749	1.26569	2.481746	4.891449	96.887287	150.1501	1.003219
14799_002704.LAB	1/12/2024	8:37:23	-0.28227	-0.02623	0.012401	-0.01297	0.00069	0.067884	3.569998	-0.04565	-0.04839	0.006218	-0.03491	0.343428	-3.41231	0.921122	-2.36918	4.885692	95.929117	150.331	1.002969
14799_002705.LAB	1/12/2024	8:37:33	-0.03929	0.144081	0.171762	-0.01205	0.000527	0.341714	3.62887	0.033575	0.037602	0.004068	-0.04637	0.305231	-3.11019	1.073964	1.569392	4.884034	95.63153	150.3536	1.002683
14799_002706.LAB	1/12/2024	8:37:43	0.077387	0.0534	0.22722	-0.0042	0.000246	0.318473	3.700427	0.105323	-0.05569	-0.000796	0.047965	0.556821	-2.97729	1.054521	5.152432	4.894042	95.655897	150.5345	1.002433
14799_002707.LAB	1/12/2024	8:37:52	0.256393	0.088737	0.300803	-0.0027	0.001109	0.286247	3.638554	0.185464	0.020421	0.003337	-0.07428	0.386566	-3.6096	0.718309	2.396723	4.893906	95.621292	150.6023	1.002826
14799_002708.LAB	1/12/2024	8:38:01	0.402787	0.19455	0.251554	-0.02187	0.000143	0.429028	3.585061	0.045972	0.017325	0.008721	0.023153	0.201277	-2.24553	0.883175	7.033371	4.890435	94.73171	150.6023	1.002397
14799_002709.LAB	1/12/2024	8:38:11	0.484308	0.224828	0.105942	-0.00246	-0.000214	0.367096	3.618754	0.033889	-0.03667	0.01573	0.023543	0.399925	-2.72165	1.028453	-6.05693	4.891748	95.292474	150.6476	1.003254
14799_002710.LAB	1/12/2024	8:38:21	0.79163	0.740878	0.080337	0.002049	0.257015	-0.1653	6.649242	2.853286	-1.22781	0.177547	0.266954	1.112253	-7.86406	9.756926	4.411292	2.744101	77.459683	150.6249	1.015754
14799_002711.LAB	1/12/2024	8:38:30	0.310878	0.125256	-1.51063	0.008904	0.983601	-1.09367	8.406596	6.343494	-1.1267	2.325893	0.379764	0.243114	-5.64993	29.62633	-19.2169	0.009344	54.45196	150.6362	1.024461
14799_002712.LAB	1/12/2024	8:38:39	0.793967	0.065295	0.66813	0.000792	0.592059	0.264286	1.425734	0.797562	1.289829	3.296197	0.445072	0.884069	0.153361	1.623307	-17.8202	-0.011805	3.94153	150.6702	1.024604
14799_002713.LAB	1/12/2024	8:38:49	0.482039	0.279466	0.633682	0.011559	0.582599	0.117167	0.577857	0.225474	0.499033	3.429607	0.375622	0.918948	0.853513	0.286685	-31.2748	-0.006347	0.839211	150.6377	1.024019
14799_002714.LAB	1/12/2024	8:38:59	0.21575	0.052107	0.082843	-0.00139	0.075383	0.084446	0.024775	0.089588	0.177293	0.931917	0.12764	-0.0168	0.476887	0.44049	-1.72983	0.064538	1.812977	150.6351	1.024011
14799_002715.LAB	1/12/2024	8:39:08	0.113525	0.021954	0.000815	-0.00828	0.007747	-0.01634	0.040008	0.057413	0.003493	0.111083	0.001117	0.078571	-0.10563	0.096157	-3.38917	-0.000904	0.194606	150.6377	1.024341
14799_002716.LAB	1/12/2024	8:39:18	0.061654	0.182865	-0.06597	-0.00325	0.006817	0.100867	-0.01112	0.140915	0.028219	0.062481	-0.04713	0.116977	-0.28065	-0.13468	-0.04582	-0.001494	0.339457	150.7267	1.02339
14799_002717.LAB	1/12/2024	8:39:27	0.279257	0.084918	-0.0033	-0.01964	0.004848	-0.03017	0.007634	0.04628	-0.03561	0.043036	0.032074	0.033586	0.433748	-0.11273	10.48609	-0.002028	0.219475	150.6962	1.023722
14799_002718.LAB	1/12/2024	8:39:37	0.215568	0.012643	0																

14799_002743.LAB	1/12/2024	8:43:34	-0.00141	-0.12266	-0.14303	-0.01908	11.918005	0.015055	-0.04247	0.021696	0.168471	0.025434	-0.72507	0.19822	-0.25439	0.309722	-1.35034	-0.004464	0.312847	150.6928	1.024426	CTS Pre-Run 3
14799_002744.LAB	1/12/2024	8:43:44	-0.02218	0.004024	-0.10394	-0.01571	11.961669	0.083094	-0.05733	-0.08755	0.188558	0.025595	-0.71643	-0.13029	-0.3679	0.018978	5.053884	-0.000727	1.094902	150.6928	1.02414	
14799_002745.LAB	1/12/2024	8:43:53	0.083071	-0.00965	-0.08718	-0.00625	11.985064	-0.04838	0.072265	0.000431	0.134801	0.016763	-0.72758	-0.02068	0.362884	-0.13309	-14.7332	-0.003479	0.540031	150.6476	1.024068	
14799_002746.LAB	1/12/2024	8:44:03	0.025959	0.016962	-0.04498	0.000831	11.994686	0.036202	0.054743	-0.00103	0.157376	0.012769	-0.71944	-0.10025	-0.98551	-0.10925	-8.95379	-0.001821	0.846462	150.6928	1.024747	
14799_002747.LAB	1/12/2024	8:44:13	0.07266	0.069766	-0.17585	-0.00148	12.000269	-0.075	0.045102	0.032368	0.206491	0.019723	-0.70982	0.025734	-0.02636	0.201438	-0.21365	-0.003276	0.713257	150.6453	1.024461	
14799_002748.LAB	1/12/2024	8:44:22	-0.07541	-0.01419	-0.05831	-0.00898	12.050864	-0.11929	0.073646	-0.13765	0.187607	0.009099	-0.64589	0.092511	-0.14066	0.109155	0.837044	-0.00428	0.77251	150.6362	1.025175	
14799_002749.LAB	1/12/2024	8:44:31	-0.1845	-0.00569	-0.03158	-0.00486	12.066798	0.022039	0.12778	0.102016	0.211	0.01456	-0.7785	0.120716	-0.20018	-0.32107	13.1885	-0.001753	0.702096	150.6362	1.024747	
14799_002750.LAB	1/12/2024	8:44:41	0.054545	0.003463	-0.11856	0.002325	12.083717	-0.14486	0.096284	0.033364	0.185386	0.01287	-0.73197	-0.00338	0.507384	0.177939	-3.12497	-0.002137	0.732137	150.6362	1.024675	
14799_002751.LAB	1/12/2024	8:44:51	-0.15904	0.054562	-0.1551	0.009842	12.053996	-0.018929	0.092001	0.105204	0.135725	0.019084	-0.74804	0.086087	0.03839	0.161804	9.132142	-0.001936	-0.192099	150.6023	1.024176	
14799_002752.LAB	1/12/2024	8:45:00	-0.07959	-0.10253	-0.17444	0.000874	12.065666	-0.09404	-0.01262	0.068953	0.155331	0.012057	-0.72921	-0.12192	0.530686	0.486781	-8.18655	-0.002801	0.660592	150.6136	1.025104	
14799_002753.LAB	1/12/2024	8:45:09	-0.08103	-0.02146	-0.11913	-0.00188	12.020839	-0.01913	0.192115	0.027924	0.195837	0.009668	-0.68173	-0.00209	-0.68624	-0.07981	0.987904	-0.005557	0.324217	150.6362	1.024818	
14799_002754.LAB	1/12/2024	8:45:19	-0.18966	0.032337	-0.10119	-7.3E-05	12.033532	0.033035	0.048987	0.125187	0.198229	0.009772	-0.71918	-0.05585	-0.76878	0.185462	3.843606	-0.003646	0.315334	150.6249	1.02514	
Averages							12.028827															
14799_002755.LAB	1/12/2024	8:45:29	-0.00704	0.025896	-0.13092	0.006085	12.099842	0.087957	0.053435	0.065929	0.179499	0.019764	-0.7416	-0.17098	0.872432	-0.10082	-3.85882	-0.003328	0.870791	150.6476	1.02439	
14799_002756.LAB	1/12/2024	8:45:38	-0.02914	0.151669	-0.10971	-0.00663	12.056204	-0.01585	-0.01971	-0.07824	0.17646	0.017617	-0.72393	0.018722	-0.24372	0.079712	-0.73226	-0.004279	0.613574	150.6555	1.024558	
14799_002757.LAB	1/12/2024	8:45:48	0.262416	0.162	-0.08304	-0.00511	4.004196	-0.19934	0.154165	0.09706	0.356064	0.967484	-0.1791	0.374661	1.585654	0.736363	7.297489	-0.008915	0.340738	150.6249	1.024381	
14799_002758.LAB	1/12/2024	8:45:57	0.419489	0.158491	0.381066	0.001392	0.843973	0.136494	0.484143	0.195744	0.333353	3.280867	0.383099	0.658373	1.046415	0.500893	-33.4932	-0.0127	0.859614	150.6555	1.024076	
14799_002759.LAB	1/12/2024	8:46:06	0.355549	0.13841	0.148207	-0.00869	0.71509	0.124751	0.556561	0.329772	0.290827	3.425528	0.409499	0.938593	1.444991	0.546918	-34.0694	-0.009647	0.911784	150.6702	1.024461	
14799_002760.LAB	1/12/2024	8:46:16	0.469681	0.112806	0.3964	0.00816	0.672389	0.196265	0.480383	0.210214	0.265699	3.438821	0.384698	0.778307	1.520558	-0.00874	-24.5905	-0.006108	0.066389	150.6589	1.02414	
14799_002761.LAB	1/12/2024	8:46:25	0.4951	0.065708	0.276036	-0.01354	0.668729	0.308487	0.495174	0.228606	0.207697	3.46142	0.361493	0.837861	2.930694	-0.12025	-26.6313	-0.007668	0.981776	150.6885	1.023417	
14799_002762.LAB	1/12/2024	8:46:35	0.527175	0.206962	0.348972	0.00198	0.657904	0.240755	0.494502	0.282149	0.204919	3.460422	0.388523	0.663308	1.48464	0.014031	-36.0165	-0.008521	0.617321	150.686	1.022855	
14799_002763.LAB	1/12/2024	8:46:45	0.625763	0.10386	0.225616	0.00139	0.65192	0.216767	0.514086	0.194371	0.209467	3.475037	0.321293	0.797622	2.514273	0.0987	-32.5315	-0.008256	0.353447	150.7154	1.023283	
14799_002764.LAB	1/12/2024	8:46:54	0.395249	0.238677	0.393435	0.006117	0.652725	0.142808	0.477548	-0.01165	0.170161	3.479256	0.450082	0.746682	1.217781	-0.13047	-35.436	-0.005748	-0.030649	150.7832	1.02339	
14799_002765.LAB	1/12/2024	8:47:04	0.488072	0.039002	0.386765	0.006578	0.66096	0.148364	0.512924	0.154166	0.199526	3.509837	0.377914	0.809045	2.162813	-0.29271	-36.4614	-0.003805	0.37502	150.7493	1.023069	
14799_002766.LAB	1/12/2024	8:47:13	0.584852	0.220866	0.407587	0.008798	0.65742	0.143323	0.481992	0.175999	0.124638	3.513507	0.39713	0.713427	1.6771	-0.35972	-21.4335	-0.00704	0.576969	150.7572	1.022983	
14799_002767.LAB	1/12/2024	8:47:23	0.453025	0.30214	0.354202	-0.00104	0.661475	0.102027	0.518582	0.341707	0.127061	3.524688	0.400689	0.619873	2.114926	-0.47262	-16.3043	-0.005985	0.689926	150.7493	1.022712	
14799_002768.LAB	1/12/2024	8:47:32	0.546172	0.184192	0.46292	-0.00785	0.660498	0.107745	0.405308	0.231723	0.173241	3.536502	0.388517	0.739495	2.35758	-0.04378	-25.3983	-0.00841	0.801077	150.7606	1.022962	
14799_002769.LAB	1/12/2024	8:47:42	0.561453	0.09516	0.297133	0.004253	0.671084	0.227102	0.384523	0.209004	0.184082	3.542947	0.396143	0.803017	2.19412	-0.34542	-25.5256	-0.006345	0.267085	150.7719	1.022355	
14799_002770.LAB	1/12/2024	8:47:51	0.63809	0.007773	0.286469	0.007821	0.673568	0.235173	0.48813	0.183832	0.156137	3.566474	0.373186	0.855535	1.448907	-0.46578	-25.131	-0.00403	0.35266	150.6928	1.022105	
14799_002771.LAB	1/12/2024	8:48:01	0.548131	0.155311	0.33231	0.020081	0.665292	0.323484	0.411608	0.219273	0.182801	3.581566	0.394765	0.986985	1.896215	-0.12915	-23.3337	-0.003932	0.369769	150.7154	1.022783	
14799_002772.LAB	1/12/2024	8:48:10	0.708904	0.286091	0.304163	-0.00609	0.653292	0.049802	0.400749	0.165513	0.130449	3.576204	0.369432	0.784893	2.023458	-0.17087	-26.1414	-0.003982	0.641879	150.738	1.022533	
Averages																	-0.0060049	0.455864				
14799_002773.LAB	1/12/2024	8:48:20	0.560673	0.255124	0.398224	-0.01004	0.615177	0.042367	0.457123	0.20365	0.153632	3.563087	0.37309	1.145325	2.399343	-0.14742	-30.584	-0.004845	0.015722	150.7606	1.023069	Native
14799_002774.LAB	1/12/2024	8:48:29	0.582208	0.122664	0.294113	0.006642	0.620541	0.105255	0.54359	0.183256	0.127212	3.582597	0.366709	0.985188	2.040612	-0.07482	-21.8013	-0.005178	0.40586	150.6702	1.02239	
14799_002775.LAB	1/12/2024	8:48:39	0.822819	0.032671	0.402641	-0.00062	0.624773	0.170595	0.5074	0.339855	0.127647	3.575704	0.393014	0.927394	2.025118	-0.09655	-35.0856	-0.002358	0.598678	150.7041	1.023069	
14799_002776.LAB	1/12/2024	8:48:48	0.659732	0.098476	0.234068	0.002267	1.083385	0.045318	0.342244	0.10116	0.128474	3.428199	0.308424	0.902025	1.510625	0.179074	-30.169	-0.002277	0.678966	150.7493	1.02289	
14799_002777.LAB	1/12/2024	8:48:58	0.505185	0.202904	0.000446</																	

14799_002810.LAB	1/12/2024	8:54:12	0.372995	-0.06034	0.330714	0.008186	0.538822	0.012762	0.768248	0.323655	-0.06009	3.187073	0.260417	0.986986	2.4758	0.498078	-33.66	0.510049	10.671218	150.452	1.021826
14799_002811.LAB	1/12/2024	8:54:21	0.337423	0.137497	0.232874	0.017634	0.551857	0.098725	0.810284	0.19744	-0.04903	3.192165	0.331689	0.921384	1.681735	0.372804	-21.7948	0.520068	11.081878	150.5486	1.022092
14799_002812.LAB	1/12/2024	8:54:31	0.42894	0.356614	0.326428	0.003224	0.55105	0.130214	0.735324	0.164382	-0.06935	3.204592	0.326215	0.884226	2.200734	0.229094	-11.6645	0.488868	10.054457	150.5435	1.022148
14799_002813.LAB	1/12/2024	8:54:40	0.461493	0.051451	0.103542	0.000071	0.549697	0.106731	0.812622	0.225779	0.013095	3.197951	0.301987	0.885103	2.922284	0.254131	-14.7392	0.476001	10.005765	150.5486	1.022332
14799_002814.LAB	1/12/2024	8:54:50	0.444296	0.149817	0.194193	-0.01515	0.558072	0.049612	0.715346	0.180474	-0.04428	3.187893	0.340427	0.902834	3.562741	0.459953	-21.2229	0.476943	9.866924	150.5684	1.021177
14799_002815.LAB	1/12/2024	8:54:59	0.417918	0.102513	0.101929	-0.00536	0.556564	0.118465	0.729203	0.122596	0.019259	3.187014	0.286315	0.932754	2.289558	0.599333	-13.2024	0.479372	10.095762	150.6023	1.021712
14799_002816.LAB	1/12/2024	8:55:09	0.344253	0.004094	0.276769	0.007381	0.554271	0.18945	0.748923	0.141317	-0.03438	3.18353	0.359417	0.931855	2.748418	0.335867	-17.6759	0.480562	9.622869	150.6362	1.021605
14799_002817.LAB	1/12/2024	8:55:18	0.318049	0.052257	0.284035	-0.00136	0.562382	-0.00054	0.815103	0.173939	-0.01606	3.222837	0.355232	0.886721	2.011457	0.473635	-28.7954	0.47724	9.937487	150.6249	1.021748
14799_002818.LAB	1/12/2024	8:55:28	0.288465	0.141355	0.286835	-0.00034	0.564134	0.038089	0.733722	0.209109	-0.01834	3.238288	0.357121	0.946594	1.842816	0.307557	-21.2132	0.464133	9.355597	150.6249	1.021212
14799_002819.LAB	1/12/2024	8:55:37	0.323193	0.151361	0.26989	0.001406	0.56718	0.20584	0.644139	0.136816	0.008423	3.255246	0.276456	1.096372	2.311684	0.361712	-25.645	0.474329	9.175069	150.6136	1.021427
14799_002820.LAB	1/12/2024	8:55:47	0.351899	0.085373	0.244432	-0.01523	0.575976	0.227382	0.734723	0.091636	-0.0343	3.262106	0.335509	1.006844	2.399147	-0.01929	-22.0761	0.470151	9.898186	150.6476	1.020534
14799_002821.LAB	1/12/2024	8:55:56	0.374439	0.203607	0.096669	0.008296	0.577615	0.00224	0.740385	0.076356	-0.04288	3.253696	0.322398	0.894679	2.190674	0.371287	-16.5944	0.475323	9.35804	150.6476	1.021355
14799_002822.LAB	1/12/2024	8:56:06	0.175657	0.250831	0.224281	-0.00143	0.573257	0.220481	0.725717	0.066616	0.007716	3.239271	0.370773	0.59991	2.232355	0.419015	-23.9867	0.486096	9.954165	150.6362	1.018856
14799_002823.LAB	1/12/2024	8:56:15	0.387662	0.10369	0.261494	-0.01406	0.563252	0.256049	0.679018	0.228755	-0.0135	3.232516	0.278867	1.032936	1.481589	0.135343	-25.501	0.487065	9.710774	150.6476	1.016607
14799_002824.LAB	1/12/2024	8:56:25	0.518576	0.15676	0.319971	-0.00433	0.552412	0.242837	0.796389	0.174927	0.012571	3.234971	0.342801	1.006145	2.742697	0.394237	-23.7346	0.49378	9.80932	150.6702	1.016892
14799_002825.LAB	1/12/2024	8:56:34	0.458599	0.067993	0.222061	0.004486	0.54571	0.061275	0.745324	0.196338	-0.01021	3.139435	0.315243	0.947181	2.087641	0.348597	-15.0666	0.572524	11.305403	150.6589	1.017249
14799_002826.LAB	1/12/2024	8:56:44	0.262547	0.059584	0.277737	0.003014	0.546721	-0.04472	0.795071	0.070648	0.005356	3.128571	0.313118	0.938736	1.224324	0.423085	-22.2895	0.581196	10.939756	150.6589	1.017285
14799_002827.LAB	1/12/2024	8:56:54	0.348712	0.115523	0.346356	0.011875	0.536884	0.287536	0.808142	0.132756	-0.00536	3.115409	0.323162	0.742881	1.385411	0.302079	-19.9745	0.583661	10.951151	150.6589	1.017606
14799_002828.LAB	1/12/2024	8:57:03	0.172509	0.14302	0.171202	-0.0016	0.5257	0.118948	0.766816	0.184548	-0.09657	3.096729	0.3757	0.929578	1.597967	0.903666	-20.9937	0.585322	11.916032	150.6702	1.018749
14799_002829.LAB	1/12/2024	8:57:13	0.34337	0.152781	0.234744	-0.00743	0.527523	0.157183	0.82471	0.246416	-0.08093	3.103041	0.353127	0.944349	2.062459	0.593374	-14.1715	0.573755	11.674405	150.6476	1.019534
14799_002830.LAB	1/12/2024	8:57:22	-0.01639	0.144856	-0.02722	0.008304	0.525959	0.068033	0.769057	0.228529	-0.03907	3.111603	0.31239	0.882958	2.024805	0.888369	-24.9257	0.533886	11.125186	150.6928	1.018999
14799_002831.LAB	1/12/2024	8:57:32	0.1516	0.243559	0.256462	-0.02334	0.533736	0.219416	0.85662	0.237329	-0.02762	3.121785	0.341996	0.976163	0.491129	0.584327	-16.8125	0.527125	10.296165	150.6476	1.019534
14799_002832.LAB	1/12/2024	8:57:41	0.241309	0.189998	0.138491	0.006063	0.534783	0.192502	0.86401	0.213562	-0.08447	3.113355	0.330464	1.067435	1.352888	1.054781	-22.6208	0.531127	10.691134	150.6928	1.019213
14799_002833.LAB	1/12/2024	8:57:51	0.28452	0.11304	0.209991	-0.00111	0.534703	0.231948	0.827832	0.179784	-0.05357	3.11791	0.265308	1.017421	1.983557	0.372843	-23.4252	0.526989	10.616234	150.6928	1.020355
14799_002834.LAB	1/12/2024	8:58:00	0.30485	0.227093	0.173006	0.008441	0.52903	0.087402	0.812207	0.1647	-0.00922	3.117504	0.308251	0.922907	1.458699	0.569136	-12.1775	0.529301	10.391432	150.6476	1.021105
14799_002835.LAB	1/12/2024	8:58:10	0.405673	0.056376	0.236371	-0.006	0.527044	0.089564	0.791227	0.119348	-0.0214	3.127352	0.318443	0.870202	2.259271	0.541515	-15.1379	0.511845	10.390821	150.6362	1.021569
14799_002836.LAB	1/12/2024	8:58:19	0.299743	0.008014	0.024928	0.022556	0.532123	0.029017	0.789154	0.178602	-0.06807	3.145048	0.311695	0.951509	2.341278	1.07006	-28.1601	0.477248	9.43161	150.6249	1.02177
14799_002837.LAB	1/12/2024	8:58:28	0.497118	-0.01904	0.285501	0.003091	0.537443	0.183684	0.735111	0.142261	-0.03628	3.161586	0.240738	0.881857	2.271891	0.357815	-29.0365	0.473286	9.403794	150.6249	1.020962
14799_002838.LAB	1/12/2024	8:58:38	0.412924	0.258822	0.281123	0.009876	0.534918	0.128444	0.890666	0.193236	-0.03068	3.134856	0.250422	0.883905	3.020237	0.314356	-16.0254	0.477325	9.473524	150.6555	1.021218
14799_002839.LAB	1/12/2024	8:58:48	0.439776	0.180784	0.270652	-0.01205	0.529323	0.087828	0.737444	0.145299	-0.05675	3.107715	0.31395	0.913022	1.255197	0.74589	-16.0449	0.484332	10.1586	150.6249	1.021676
14799_002840.LAB	1/12/2024	8:58:57	0.182849	0.227376	0.123887	0.010572	0.52889	0.035351	0.885073	0.148506	-0.00616	3.101839	0.300398	0.988168	1.790432	0.713693	-23.8227	0.481232	9.839082	150.6377	1.021007
14799_002841.LAB	1/12/2024	8:59:06	0.289797	0.087292	0.139799	-0.00635	0.5267	0.24059	0.943701	0.095882	-0.09008	3.103966	0.325786	0.647399	1.306263	0.317982	-24.1456	0.485778	9.713257	150.6136	1.021605
14799_002842.LAB	1/12/2024	8:59:16	0.370819	0.384101	0.105708	-0.00636	0.522337	0.239474	0.810846	0.209724	-0.03201	3.079131	0.307976	0.959867	1.542536	0.499986	-12.2882	0.558325	11.549539	150.6136	1.021391
14799_002843.LAB	1/12/2024	8:59:25	0.190416	0.187626	0.174157	-0.00062	0.526084	-0.04127	0.809262	0.296025	-0.08926	3.06935	0.316569	0.896728	1.721727	0.925784	-18.2733	0.55528	11.225797	150.6023	1.021319
14799_002844.LAB	1/12/2024	8:59:35	0.346896	0.264711	0.10485	-0.00219	0.525856	0.112652	0.816471	0.105087	-0.01016	3.076827	0.298913	0.947217	1.543636	1.110214	-10.4188	0.561881	11.36609	150.6023	1.021319
14799_002845.LAB	1/12/2024	8:59:45	0.240373	0.138876	0.325384	-0.00015	0.522041	0.247913	0.778314	0.205899	-0.08008	3.079132	0.346775	0.648008	1.695073	0.640879	-16.1955	0.567456	11.962483	150.5797	1.021819
14799_002846.LAB	1/12/2024	8:59:54	0.017007	0.219904	0.116401	0.001764	0.522784	0.23939	0.7886	0.138694	-0.0096	3.084939	0.338862	1.033695	2.186993	0.770158	-25.1982	0.569102	11.130163	150.591	1.021319
14799_002847.LAB	1/12/2024	9:00:04	0.208729	0.245843	0.227301	0.001291	0.524944	0.24927	0.866319	0.326592	-0.08083	3.085648	0.35616	0.761604	1.213369	0.575921	-27.1084	0.561213	11.209552	150.5797	1.021427
14799_002848.LAB	1/12/2024	9:00:13	0.132297	0.208207	0.062165	0.007738	0.53208	0.025949	0.855023	0.135308	-0.05165	3.081118	0.301683	1.024736	2.413079	1.115984	-22.7812	0.563443	11.25075	150.6136	1.021355
14799_002849.LAB	1/12/2024	9:00:22	0.176171	0.194333	0.088314	-0.00246	0.532124	0.200054	0.894362	0.076593	-0.10137	3.078382	0.289213	0.956248	1.813742	0.657195	-31.3023	0.559701	11.102549	150.6589	1.020855
14799_002850.LAB	1/12/2024	9:00:32	0.373706	0.335889	0.102855	0.002066	0.524666	0.134871	0.844468	0.171536	-0.01595	3.077947	0.327095	0.990723	1.428191	0.97429	-15.9644	0.556948	10.949516	150.6589	1.021391
14799_002851.LAB	1/12/2024	9:00:42	0.247702	0.266049	0.193707	-0.01347	0.520627	0.092213	0.793576	0.201811	-0.08479	3.062155	0.319227	1.014868	1.655509	0.382686	-18.8936	0.562717	11.396166	150.6476	1.021962
14799_002852.LAB	1/12/2024																				

14799_002879.LAB	1/12/2024	9:05:08	0.364506	0.141023	0.176897	0.007391	0.546696	0.079063	0.858914	0.117062	-0.05502	3.194513	0.297175	0.716346	2.485354	0.394286	-22.0312	0.473677	9.666011	150.8511	1.023212
14799_002880.LAB	1/12/2024	9:05:17	0.547449	0.092926	0.188982	-0.00867	0.542858	-0.03457	0.798466	0.244696	-0.03411	3.203626	0.364649	0.752343	2.817582	0.308796	-25.0873	0.473846	9.606938	150.7945	1.02239
Averages																		0.4731449	9.68210562		
14799_002881.LAB	1/12/2024	9:05:27	0.447347	0.169912	0.343349	-0.01145	0.542693	0.047043	0.783396	0.156352	-0.01779	3.204457	0.325767	0.767055	3.123686	0.461782	-22.2042	0.469943	9.634612	150.7719	1.023176
14799_002882.LAB	1/12/2024	9:05:37	0.526761	0.248308	0.230636	0.006499	0.541957	0.134597	0.790098	0.246135	-0.03947	3.222984	0.330302	0.785692	1.76215	0.502262	-27.3061	0.474815	9.621396	150.7719	1.022355
14799_002883.LAB	1/12/2024	9:05:46	0.278453	0.257896	0.209394	-0.00846	0.545483	0.206414	0.766999	0.191389	-0.04897	3.236506	0.356697	0.906024	2.232868	0.303876	-26.4027	0.471623	9.604338	150.7041	1.023134
14799_002884.LAB	1/12/2024	9:05:56	0.109065	0.158196	0.18875	-0.00212	0.575799	0.245744	0.725499	0.199702	-0.04263	3.414005	0.372799	1.053416	2.111239	0.479916	-27.0367	0.199093	4.766394	150.6815	1.022926
14799_002885.LAB	1/12/2024	9:06:05	0.396165	0.232696	0.318756	0.017545	0.591327	0.230184	0.52254	0.096872	-0.00662	3.573494	0.331263	0.853232	0.641144	0.270603	-16.1812	0.003434	0.290737	150.6885	1.022734
14799_002886.LAB	1/12/2024	9:06:14	0.342728	0.157198	0.242623	0.00666	0.591993	0.103205	0.516096	0.277459	-0.01126	3.586613	0.356697	0.920644	2.041151	0.323793	-20.5296	0.007048	1.013421	150.7041	1.022748
14799_002887.LAB	1/12/2024	9:06:24	0.519936	0.194334	0.218451	0.010297	0.49611	0.13645	1.084429	0.072965	0.016172	3.110892	0.230361	0.715985	1.040695	0.479647	-19.7871	0.544862	10.220381	150.6815	1.023247
14799_002888.LAB	1/12/2024	9:06:33	0.205621	0.160191	0.160457	0.006396	0.034875	-0.03171	0.373373	0.167746	-0.03371	0.341489	0.014357	0.193521	0.400343	-0.19134	-2.34237	0.323384	6.551916	150.6815	1.022855
14799_002889.LAB	1/12/2024	9:06:43	0.229484	-0.00744	-0.01531	0.009225	0.007122	0.034919	-0.01768	-0.00183	-0.02438	0.091811	0.112401	0.008051	0.010913	-0.01476	1.152526	0.003242	0.643971	150.7154	1.022426
14799_002890.LAB	1/12/2024	9:06:53	0.104454	0.136496	0.081571	-0.00753	0.006511	-0.05551	-0.06263	0.028156	-0.00219	0.061319	0.004033	-0.01332	0.447196	0.024249	8.337413	0.001803	0.142528	150.7041	1.022712
14799_002891.LAB	1/12/2024	9:07:02	0.167389	0.093899	0.043468	-0.00837	0.00496	0.018003	0.003381	0.006832	-0.01649	0.044557	0.004116	-0.12506	0.274392	-0.24186	4.154922	-0.000367	-0.203315	150.6476	1.022926
14799_002892.LAB	1/12/2024	9:07:11	0.076683	0.068469	0.235019	-0.00258	0.004794	0.146895	-0.03013	0.033671	0.031222	0.046594	0.031548	0.179063	0.399267	-0.3255	-1.60436	0.000568	0.307399	150.6362	1.021926
14799_002893.LAB	1/12/2024	9:07:21	0.275118	0.031656	0.084456	-0.00292	0.003467	0.118322	-0.07521	-0.11303	0.050593	0.041518	0.050841	0.180901	0.719759	-0.0105	6.63558	0.000241	0.253256	150.6249	1.022997
14799_002894.LAB	1/12/2024	9:07:30	0.157872	0.103912	0.091583	-0.00508	0.004041	-0.18574	0.106955	-0.0223	0.027413	0.029288	0.026102	0.332487	-0.54134	0.07051	-6.20966	-0.000419	-0.018305	150.6249	1.023533
14799_002895.LAB	1/12/2024	9:07:40	0.190386	0.161686	0.152427	0.007886	0.002884	0.056245	-0.01491	0.035381	0.024799	0.030983	0.0574	0.152393	0.365151	-0.38337	3.132684	-0.002179	0.023125	150.6249	1.022926
14799_002896.LAB	1/12/2024	9:07:49	0.18448	0.178937	-0.02522	-0.01148	0.004826	0.030794	-0.04638	0.088141	-0.05513	0.029352	-0.00595	0.260704	-0.36679	0.161653	11.33502	-0.001562	0.047638	150.6589	1.023069
14799_002897.LAB	1/12/2024	9:07:59	0.081596	-0.00779	-0.01642	-0.00757	0.003167	0.102266	0.091705	0.023045	0.024363	0.031408	0.009955	0.076671	1.003551	-0.02643	-9.17077	0.000906	0.457489	150.6702	1.022355
14799_002898.LAB	1/12/2024	9:08:09	0.124524	0.503927	0.178392	-0.00681	0.187337	0.027904	0.175445	0.074572	-0.01376	0.804373	0.173699	0.389398	-0.64087	0.441346	-1.39176	-0.003666	0.441349	150.6249	1.022926
14799_002899.LAB	1/12/2024	9:08:18	0.476511	0.251264	0.262367	0.001439	0.577427	0.116075	0.608868	0.16415	-0.02952	3.296983	0.421312	0.794286	2.792286	0.298022	-30.0461	-0.005615	0.640004	150.6136	1.022498
14799_002900.LAB	1/12/2024	9:08:27	0.37403	0.06777	0.243333	-0.00183	0.587139	0.137022	0.44494	0.170033	0.006328	3.439454	0.32588	1.06158	2.905575	0.40107	-39.8421	-0.002204	0.687856	150.6249	1.022855
14799_002901.LAB	1/12/2024	9:08:37	0.430663	0.108965	0.395756	0.014378	0.590154	0.181455	0.62996	0.092862	-0.00526	3.465946	0.32559	0.896482	2.164316	-0.0139	-20.3965	-0.003945	0.326861	150.6815	1.023283
14799_002902.LAB	1/12/2024	9:08:46	0.534327	0.162257	0.271685	-0.00433	0.588233	0.110858	0.432114	0.231433	0.086606	3.477608	0.360993	0.797585	1.437851	-0.04772	-44.4342	-0.002733	0.110644	150.6815	1.023176
14799_002903.LAB	1/12/2024	9:08:56	0.512195	0.208768	0.364323	0.006123	0.588601	0.227899	0.495328	0.136565	0.0846	3.498192	0.377598	0.986012	2.231929	-0.28922	-22.683	-0.004932	0.518379	150.6815	1.022605
14799_002904.LAB	1/12/2024	9:09:06	0.691604	0.182524	0.394351	0.008468	0.59096	0.075908	0.459616	0.161116	-0.00809	3.512206	0.401364	0.849177	1.94016	-0.27309	-24.7661	-0.003872	0.086485	150.6702	1.022498
14799_002905.LAB	1/12/2024	9:09:15	0.661664	0.057607	0.418091	0.003527	0.587442	0.293134	0.412559	-0.04023	0.038847	3.486438	0.361638	0.941807	1.700774	-0.13123	-32.5854	-0.000716	0.472886	150.7945	1.022926
14799_002906.LAB	1/12/2024	9:09:25	0.259429	0.004754	0.326576	0.008236	0.589316	0.158331	0.529135	0.243529	0.002726	3.48007	0.33661	0.881765	1.455816	-0.13048	-31.3935	-0.002847	0.443954	150.7493	1.023212
14799_002907.LAB	1/12/2024	9:09:34	0.605895	0.139082	0.136676	0.005302	0.596182	0.091163	0.38914	0.243084	-0.05736	3.508394	0.400425	0.874199	2.305001	0.42442	-27.913	-0.00185	0.336656	150.7719	1.02264
14799_002908.LAB	1/12/2024	9:09:44	0.430331	0.240178	0.273362	0.007707	0.602323	0.156177	0.530214	0.103934	-0.00107	3.52436	0.434942	0.887504	2.122105	-0.12304	-21.5364	-0.003784	0.272733	150.6928	1.022926
14799_002909.LAB	1/12/2024	9:11:04	0.796041	0.116766	0.307089	0.006208	0.609458	0.122098	0.544322	0.417262	-0.00048	3.558526	0.340296	0.976594	2.299797	-0.27062	-25.9367	-0.002706	1.693141	150.6922	1.022813
14799_002910.LAB	1/12/2024	9:12:05	0.101196	0.171805	0.280641	0.005512	0.612289	0.142811	0.518939	0.566576	0.006301	3.578906	0.319523	1.105389	1.926746	0.049523	-29.4708	-0.003754	2.581364	150.6446	1.02295
14799_002911.LAB	1/12/2024	9:13:06	1.020417	0.14312	0.266869	0.011546	0.607482	0.150073	0.503193	0.617609	0.005178	3.518705	0.377469	1.181651	1.903115	-0.0422	-31.201	-0.003316	2.385399	150.6249	1.022699
14799_002912.LAB	1/12/2024	9:14:07	1.09045	0.138344	0.260956	0.008706	0.599371	0.19269	0.531346	0.673374	0.006816	3.525019	0.341874	1.240646	1.977746	0.131525	-25.3942	-0.003453	2.499972	150.6731	1.02277
14799_002913.LAB	1/12/2024	9:15:07	0.317519	0.123952	0.342765	0.001865	0.605266	0.248644	0.641119	2.896943	0.025353	3.577733	0.392658	1.384445	1.736125	0.500596	-24.2126	-0.004121	18.586936	150.7106	1.022798
14799_002914.LAB	1/12/2024	9:16:08	0.603755	0.220104	0.276471	0.003501	0.647228	0.320242	0.64268	0.140392	0.031115	3.565803	0.400974	1.977695	1.892092	0.538921	-27.9839	-0.004813	28.363487	150.6499	1.023007
14799_002915.LAB	1/12/2024	9:17:09	0.1450158	0.221218	0.27601	0.008167	0.709444	0.575659	0.695047	6.50733	0.148457	3.703406	0.394796	2.406936	1.356253	0.639396	-29.0758	-0.006987	45.20567	150.5785	1.022607
14799_002916.LAB	1/12/2024	9:18:10	0.1513461	0.178666	0.292099	0.003481	0.740319	0.587212	0.682117	7.18174	0.226993	3.71589	0.409155	2.707422	1.659362	0.700555	-27.232	-0.007928	43.270257	150.5678	1.021197
14799_002917.LAB	1/12/2024	9:19:11	0.1615833	0.14916	0.329025	-0.00052	0.750033	0.620105	0.613691	7.177276	0.29723	3.698621	0.406567	2.471362	1.587828	0.458274	-23.6922	-0.007376	46.79237	150.5688	1.021281
14799_002918.LAB	1/12/2024	9:20:12	0.1350728	0.170779	0.373572	0.008375	0.751273	0.531766	0.507088	6.505977	0.335246	3.698472	0.425698	2.353836	2.165718	0.318842	-29.4944	-0.006933	38.345734	150.6268	1.021948
14799_002919.LAB	1/12/2024	9:21:13	0.1953547	0.19474	0.372868	0.001592	0.737288	0.74567	0.606759	8.651844	0.38414	3.762489	0.436623	2.773898	1.516663	0.538955	-30.3887	-0.009758	55.338139	150.6583	1.022472
14799_002920.LAB	1/12/2024	9:22:13	0.153626	0.268838	0.320114	-0.00094	0.735824	0.602523	0.541856	7.202948	0.40131	3.673399	0.396609	2.590211	2.162702	0.43					

14799_002947.LAB	1/12/2024	9:49:37	13.81846	0.239402	0.586028	0.006809	0.707684	0.465239	0.600237	6.748163	0.473377	3.616776	0.384607	1.674793	0.937411	0.423379	-27.7006	-0.006357	38.388996	150.8372	1.020644
14799_002948.LAB	1/12/2024	9:50:38	24.40401	0.144477	0.201505	0.002475	0.557292	0.973441	0.558068	10.18883	0.485555	3.529278	0.376295	2.088902	0.448431	0.751516	-24.5115	-0.010024	64.832396	150.9495	1.020772
14799_002949.LAB	1/12/2024	9:51:39	3.193648	0.020083	0.517246	0.008612	0.102494	0.072975	-0.03102	1.82691	0.35965	2.720718	0.35245	0.95037	1.501966	-0.08937	-21.0054	-0.00529	1.855141	150.9659	1.020622
14799_002950.LAB	1/12/2024	9:52:39	2.689702	0.166419	0.476958	0.004321	0.513942	0.069849	0.034909	1.705263	0.322966	3.297683	0.353535	1.430759	2.182796	-0.0232	-26.4383	-0.004204	0.943426	150.9509	1.020415
14799_002951.LAB	1/12/2024	9:53:40	2.397293	0.17323	0.528375	0.007958	1.024368	0.102894	0.211702	1.985251	0.434226	4.156962	0.35022	1.513339	2.16731	-0.40333	-27.8315	-0.002238	1.036652	150.8969	1.021398
14799_002952.LAB	1/12/2024	9:54:41	1.460798	0.184218	0.473843	0.007037	0.439351	0.118975	0.464318	1.009813	0.160762	3.285137	0.327318	1.081918	2.003642	0.79177	-23.7587	-0.004001	0.401203	150.753	1.021259
14799_002953.LAB	1/12/2024	9:55:42	1.423529	0.180176	0.462456	0.001075	0.413164	0.107947	0.427584	0.831138	0.138751	3.232251	0.342	0.842598	1.637559	0.881364	-24.2852	-0.003645	1.594882	150.7741	1.021586
14799_002954.LAB	1/12/2024	9:56:43	9.925342	0.224498	0.365063	0.000814	0.437017	0.289326	0.51657	0.4104201	0.105578	3.251574	0.357031	1.150643	1.105301	1.436779	-21.8338	-0.005868	30.303635	150.7698	1.020905
14799_002955.LAB	1/12/2024	9:57:44	13.04661	0.263923	0.439058	0.002916	0.554756	0.390604	0.688074	5.62199	0.243342	3.436932	0.421052	1.371124	0.437104	1.412742	-22.4602	-0.00712	36.528526	150.7583	1.020434
14799_002956.LAB	1/12/2024	9:58:45	11.15333	0.164348	0.59471	0.000489	0.635137	0.383194	0.620463	5.65411	0.389556	3.553925	0.390995	1.441063	0.995252	0.414225	-27.6603	-0.004296	28.117947	150.7986	1.020411
14799_002957.LAB	1/12/2024	9:59:46	13.53518	0.251489	0.577171	0.002502	0.690883	0.44205	0.655241	6.227428	0.459756	3.573321	0.4172	1.207906	0.307202	0.649402	-30.4374	-0.005946	36.248398	150.8934	1.020561
14799_002958.LAB	1/12/2024	10:00:47	15.95996	0.242306	0.703175	0.009418	0.728172	0.555608	0.690906	7.713388	0.546445	3.623548	0.410141	1.352338	-0.08872	0.765071	-18.8771	-0.00574	43.705817	150.9405	1.020785
14799_002959.LAB	1/12/2024	10:01:47	7.666947	0.280109	0.664271	0.003007	0.710622	0.258333	0.668212	4.520116	0.517907	3.589191	0.36323	1.093827	0.661193	0.269442	-26.3317	-0.005446	19.741349	150.8731	1.021169
14799_002960.LAB	1/12/2024	10:02:48	19.14567	0.291888	0.504857	0.006288	0.746299	0.728928	0.654346	8.448629	0.500239	3.657824	0.387104	1.389125	-0.56395	0.578688	-23.8778	-0.007362	55.803757	150.7302	1.019885
14799_002961.LAB	1/12/2024	10:03:49	11.67437	0.252188	0.580342	0.010118	0.679758	0.424383	0.506406	5.89527	0.472518	3.531967	0.361367	1.299122	0.389301	0.575482	-26.1278	-0.005184	33.045169	150.8232	1.020705
14799_002962.LAB	1/12/2024	10:04:50	12.9349	0.257078	0.623052	0.006201	0.70197	0.451519	0.625137	6.442537	0.508419	3.592618	0.348655	1.355741	0.154942	0.651475	-25.1933	-0.00626	36.843221	150.8705	1.020561
14799_002963.LAB	1/12/2024	10:05:51	16.31819	0.199797	0.616929	0.005226	0.732167	0.509229	0.64813	7.577872	0.521719	3.635074	0.397421	1.461516	0.430693	0.823061	-26.7721	-0.007193	47.502327	150.9355	1.020029
14799_002964.LAB	1/12/2024	10:06:52	16.1793	0.188249	0.675372	0.001328	0.728547	0.567776	0.620665	7.591472	0.569801	3.61244	0.38442	1.560251	0.406094	0.553762	-27.5955	-0.006003	46.450342	150.9776	1.020339
14799_002965.LAB	1/12/2024	10:07:52	18.84887	0.277023	0.646614	0.003244	0.753444	0.601912	0.565942	8.692599	0.587849	3.67464	0.404315	1.79685	0.496014	0.920687	-25.049	-0.006982	53.608557	150.8056	1.020234
14799_002966.LAB	1/12/2024	10:08:53	15.75617	0.198826	0.718607	0.00399	0.747393	0.438964	0.529363	7.714214	0.585468	3.666061	0.39678	1.731559	0.854131	0.478778	-27.8794	-0.007022	44.641607	150.9565	1.020179
14799_002967.LAB	1/12/2024	10:09:54	18.38517	0.248773	0.770063	0.003384	0.76159	0.574273	0.548658	8.609407	0.60085	3.683286	0.382863	1.355741	0.675004	0.488324	-26.2054	-0.007185	52.687957	150.9612	1.020061
14799_002968.LAB	1/12/2024	10:10:55	21.17896	0.177543	0.418966	0.0005	0.765056	0.714806	0.610391	9.608019	0.691398	3.693239	0.376752	2.111277	1.04335	0.840987	-24.2533	-0.009303	55.550611	150.974	1.019907
14799_002969.LAB	1/12/2024	10:11:56	19.1751	0.251991	0.619408	0.006383	0.727365	0.687732	0.591638	8.403825	0.54929	3.638691	0.361175	1.669286	0.551072	0.633487	-27.7736	-0.006992	54.395246	150.9705	1.019819
14799_002970.LAB	1/12/2024	10:12:57	14.57972	0.246086	0.668206	0.003912	0.698634	0.417927	0.556307	7.287396	0.576412	3.608943	0.370927	1.682793	0.835661	0.67231	-22.3165	-0.005726	39.779815	151.0074	1.019896
14799_002971.LAB	1/12/2024	10:13:58	22.85274	0.23278	0.676479	0.002806	0.743967	0.712134	0.614708	10.04955	0.654704	3.686597	0.395478	1.932407	0.132766	0.805964	-26.0857	-0.008114	65.020411	150.9951	1.019891
14799_002972.LAB	1/12/2024	10:14:58	23.81953	0.216787	0.69796	0.011556	0.739895	0.760343	0.589398	10.03517	0.666412	3.681756	0.397967	1.862998	0.030961	0.904065	-26.1723	-0.006848	67.132821	150.9828	1.019786
14799_002973.LAB	1/12/2024	10:15:59	18.29235	0.170117	0.71833	-0.0043	0.728918	0.520534	0.462861	8.673111	0.703635	3.667122	0.403803	1.810539	0.915825	0.473234	-30.8152	-0.006904	48.728436	150.9975	1.019935
14799_002974.LAB	1/12/2024	10:17:00	15.36617	0.221848	0.776301	0.005947	0.702117	0.433479	0.500187	7.511457	0.629675	3.643378	0.400994	1.609364	0.761564	0.471507	-22.7554	-0.006944	40.667468	151.0197	1.01983
14799_002975.LAB	1/12/2024	10:18:01	11.8678	0.227143	0.754919	0.013764	0.680224	0.377307	0.546813	6.184392	0.580966	3.572297	0.380072	1.608205	1.35303	0.319739	-29.0293	-0.004874	30.717541	150.9951	1.019924
14799_002976.LAB	1/12/2024	10:19:02	7.366022	0.131091	0.66275	0.002359	0.619049	0.217994	0.520245	4.24776	0.480867	3.520586	0.364796	1.550587	1.551626	0.216139	-28.2828	-0.004928	18.657237	150.9565	1.019747
14799_002977.LAB	1/12/2024	10:20:03	11.27077	0.206616	0.694005	0.002573	0.624766	0.310863	0.519581	5.887065	0.486038	3.551803	0.345601	1.634128	1.057636	0.417388	-26.2647	-0.005987	30.357948	150.9828	1.019686
14799_002978.LAB	1/12/2024	10:21:04	16.54454	0.144969	0.727821	0.009567	0.642711	0.565773	0.572045	7.618177	0.495407	3.58885	0.353311	1.74717	0.565031	0.61955	-26.6024	-0.005806	47.369443	150.974	1.019619
14799_002979.LAB	1/12/2024	10:22:05	15.57337	0.181487	0.609919	0.004493	0.642365	0.537218	0.597503	7.541958	0.582756	3.593821	0.356179	1.673903	0.552766	0.701561	-25.9713	-0.005562	42.917256	150.9723	1.019786
14799_002980.LAB	1/12/2024	10:23:06	11.29996	0.154825	0.716044	0.006532	0.616793	0.343842	0.548147	5.940132	0.547478	3.567759	0.352067	1.502616	0.815958	0.501404	-27.384	-0.004575	30.43661	151.0127	1.019409
14799_002981.LAB	1/12/2024	10:24:06	16.70643	0.187919	0.702779	0.00473	0.646544	0.494271	0.602111	7.617286	0.556578	3.635593	0.400973	1.639947	0.35932	0.74272	-26.4633	-0.006505	47.387408	150.9933	1.019392
14799_002982.LAB	1/12/2024	10:25:07	21.66822	0.231908	0.635955	0.009032	0.728056	0.727906	0.723545	9.859717	0.669643	3.719457	0.436102	1.651859	0.069009	1.026309	-26.1041	-0.008246	59.914804	150.7688	1.019625
14799_002983.LAB	1/12/2024	10:26:08	20.23318	0.237443	0.784343	0.006447	0.731818	0.671278	0.622125	9.338347	0.679821	3.743059	0.408735	1.509928	-0.03852	0.693804	-24.9018	-0.006749	57.442062	150.7888	1.019832
14799_002984.LAB	1/12/2024	10:27:09	21.41354	0.257342	0.598225	0.001599	0.747095	0.723147	0.521621	9.955128	0.728523	3.722141	0.408474	1.632001	-0.21386	0.535583	-28.8333	-0.009149	58.009836	150.9477	1.019758
14799_002985.LAB	1/12/2024	10:28:10	23.0698	0.144224	0.768774	0.00327	0.732474	0.68471	0.624533	10.25065	0.688715	3.687556	0.391005	1.590234	-0.15297	0.890684	-24.8512	-0.007978	67.274104	150.7999	1.019478
14799_002986.LAB	1/12/2024	10:29:10	15.16415	0.268292	0.781146	0.010028	0.679046	0.480076	0.596352	7.402816	0.657375	3.616348	0.376259	1.405791	0.442781	0.486452	-25.186	-0.005479	42.591914	150.875	1.019473
14799_002987.LAB	1/12/2024	10:30:11	17.01805	0.251652	0.728259	0.001731	0.68603	0.491817	0.553046	8.100891	0.619178	3.618635	0.367285	1.550892	0.43469	0.77388	-27.0885	-0.005646	47.109838	150.8881	1.019647
14799_002988.LAB	1/12/2024	10:31:12	21.73062	0.227607	0.603237	0.00491	0.70124	0.678687	0.586668	9.415449	0.645635	3.612385	0.360263	1.536113	0.050127	0.876795	-25.04				

14799_003016.LAB	1/12/2024	10:59:36	19.23101	0.275726	0.844579	0.007701	0.705363	0.511337	0.552477	9.136314	0.750285	3.605218	0.348259	1.577336	0.383517	0.631649	-24.9051	-0.008254	52.775872	150.9565	1.019215
14799_003017.LAB	1/12/2024	11:00:38	21.19699	0.233198	0.843751	0.003696	0.717947	0.589931	0.589789	9.815767	0.747871	3.613455	0.384856	1.459778	0.07515	0.695631	-23.1146	-0.008765	58.17235	150.9249	1.019115
14799_003018.LAB	1/12/2024	11:01:38	15.6439	0.310465	0.739617	-0.00059	0.681715	0.44723	0.515599	7.445028	0.658009	3.561722	0.350034	1.434385	0.364261	0.324731	-25.6092	-0.006801	41.573844	150.9723	1.01886
14799_003019.LAB	1/12/2024	11:02:39	8.49948	0.148408	0.800185	0.007566	0.586666	0.229511	0.479303	6.499302	0.609144	3.460316	0.348898	1.362778	1.214802	0.258504	-28.7457	-0.004341	20.302116	150.9776	1.019015
14799_003020.LAB	1/12/2024	11:03:40	15.95737	0.183141	0.722405	0.001746	0.620511	0.515171	0.590483	7.600932	0.592369	3.53046	0.338301	1.515773	0.171614	0.643215	-29.4164	-0.006167	43.77697	150.9828	1.01911
14799_003021.LAB	1/12/2024	11:04:41	16.6251	0.175049	0.795934	0.002364	0.626161	0.45776	0.567088	7.775554	0.602297	3.52203	0.375769	1.438083	0.070412	0.588045	-24.4855	-0.005701	46.694645	150.8653	1.018977
14799_003022.LAB	1/12/2024	11:05:41	12.41104	0.211258	0.792099	0.006288	0.603207	0.382013	0.546238	6.348643	0.602417	3.518028	0.366652	1.316533	0.313198	0.382467	-29.211	-0.005422	32.888497	150.6456	1.019075
14799_003023.LAB	1/12/2024	11:06:42	10.07606	0.159772	0.813655	0.00475	0.597005	0.344819	0.541845	5.486732	0.605554	3.528213	0.377148	1.294044	0.574413	0.429472	-25.0701	-0.00562	26.314913	150.7588	1.019083
14799_003024.LAB	1/12/2024	11:07:43	10.5136	0.195782	0.791605	0.010568	0.608251	0.291415	0.509764	5.575764	0.504889	3.571682	0.371369	1.267376	0.204289	0.350376	-22.7042	-0.004845	28.602994	150.9699	1.018819
14799_003025.LAB	1/12/2024	11:08:44	17.77206	0.159719	0.723312	-0.00161	0.649753	0.598768	0.585289	8.355173	0.566227	3.656168	0.400547	1.384836	-0.0178	0.801793	-29.805	-0.007671	50.117643	151.0127	1.018677
14799_003026.LAB	1/12/2024	11:09:45	16.20073	0.189338	0.663949	-0.00045	0.647155	0.569984	0.586645	7.929524	0.647538	3.636142	0.372648	1.401948	-0.32582	0.599984	-26.5828	-0.006679	43.650769	150.8846	1.019027
14799_003027.LAB	1/12/2024	11:10:46	11.31084	0.131722	0.76871	0.009824	0.612554	0.351611	0.574592	5.862578	0.570014	3.604691	0.347637	1.334211	0.240663	0.46329	-27.5154	-0.005792	31.176237	150.8177	1.018988
14799_003028.LAB	1/12/2024	11:11:47	7.736888	0.193343	0.765114	0.009473	0.590564	0.218898	0.518992	4.495705	0.512334	3.545391	0.371976	1.163944	0.792134	0.244001	-28.2055	-0.00474	19.803161	150.7922	1.018775
14799_003029.LAB	1/12/2024	11:12:47	8.742545	0.201883	0.755378	0.004117	0.593519	0.321006	0.531149	4.778688	0.452788	3.46926	0.392814	1.043021	0.480792	0.273024	-29.6852	-0.005021	23.912009	150.7916	1.019021
14799_003030.LAB	1/12/2024	11:13:48	11.60686	0.191409	0.849865	0.002383	0.609005	0.38429	0.543148	5.784359	0.46356	3.489851	0.329106	1.251385	0.314751	0.234315	-23.7061	-0.005346	33.006121	150.7565	1.018894
14799_003031.LAB	1/12/2024	11:14:49	14.8615	0.267673	0.640453	0.002213	0.631004	0.451265	0.621698	7.086287	0.499901	3.537728	0.368496	1.289478	0.305551	0.595149	-23.5999	-0.005643	42.014221	150.6495	1.019032
14799_003032.LAB	1/12/2024	11:15:50	9.54384	0.244888	0.747196	0.005561	0.610101	0.307623	0.531728	5.261587	0.506536	3.508134	0.358617	1.255271	0.037962	0.310067	-29.2889	-0.005053	26.081176	150.6881	1.018827
14799_003033.LAB	1/12/2024	11:16:51	16.09921	0.307118	0.753264	0.004746	0.688246	0.509009	0.578186	7.649424	0.525994	3.566981	0.369417	1.293094	-0.10528	0.515543	-30.4296	-0.006842	46.037425	150.7284	1.018617
14799_003034.LAB	1/12/2024	11:17:52	13.44824	0.241667	0.750227	0.007885	0.683136	0.469011	0.556793	7.109016	0.578276	3.591771	0.368021	1.213169	0.232965	0.538628	-20.2165	-0.006922	38.045593	150.9618	1.018761
14799_003035.LAB	1/12/2024	11:18:53	15.18847	0.288197	0.792047	0.001938	0.699267	0.480666	0.587395	7.553905	0.601356	3.683277	0.36918	1.245049	-0.29605	0.455601	-30.2298	-0.007924	43.336878	150.8284	1.018766
14799_003036.LAB	1/12/2024	11:19:54	15.565	0.267159	0.763829	0.006578	0.697185	0.476686	0.586845	7.605703	0.595572	3.683457	0.373468	1.219045	-0.02065	0.477117	-30.2821	-0.00704	44.012533	150.8021	1.018761
14799_003037.LAB	1/12/2024	11:20:55	20.56608	0.318327	0.668004	0.000553	0.714702	0.695814	0.669404	9.321832	0.622627	3.725151	0.378773	1.309131	-0.75168	0.747704	-30.4481	-0.008427	59.443834	150.7077	1.018596
14799_003038.LAB	1/12/2024	11:21:55	10.77577	0.2275	0.749921	0.003512	0.66306	0.294312	0.567657	6.055577	0.646466	3.682863	0.391805	1.25123	0.193275	0.549789	-26.0256	-0.007051	28.032263	150.7677	1.018458
14799_003039.LAB	1/12/2024	11:22:56	14.51898	0.2012	0.770859	0.004661	0.667542	0.413984	0.565588	6.828559	0.528712	3.721084	0.3764	1.272826	0.025619	0.584195	-27.5565	-0.007149	41.568239	150.8681	1.01846
14799_003040.LAB	1/12/2024	11:23:57	17.47795	0.256189	0.787024	0.003312	0.694718	0.55188	0.59477	8.408032	0.632324	3.774455	0.392309	1.351252	-0.12772	0.806704	-25.0492	-0.007845	49.660403	150.7793	1.018633
14799_003041.LAB	1/12/2024	11:24:58	13.81388	0.229143	0.804199	0.008337	0.666666	0.449222	0.565863	7.434662	0.583081	3.71937	0.395679	1.180057	0.480173	0.294086	-29.0231	-0.006757	38.404589	150.7793	1.019464
14799_003042.LAB	1/12/2024	11:25:59	10.1809	0.226317	0.82498	0.004295	0.658821	0.317075	0.535349	5.788743	0.568233	3.709293	0.385084	1.194548	1.016002	0.37365	-32.8242	-0.005562	26.086512	150.7758	1.0186
14799_003043.LAB	1/12/2024	11:27:00	12.61344	0.216712	0.738516	0.014201	0.678053	0.394696	0.514068	6.470645	0.577891	3.740139	0.416024	1.283878	0.566259	0.252967	-28.5692	-0.006738	33.667956	150.7214	1.018533
14799_003044.LAB	1/12/2024	11:28:00	12.90687	0.260921	0.778235	0.005587	0.669478	0.396927	0.545482	6.61	0.552051	3.724799	0.38853	1.221285	0.23159	0.45899	-27.5428	-0.007174	35.949985	150.739	1.018516
14799_003045.LAB	1/12/2024	11:29:02	9.892218	0.124917	0.821234	0.005332	0.623433	0.310406	0.532938	5.376586	0.519494	3.637485	0.368512	1.293144	0.553844	0.218781	-30.8173	-0.005409	27.016895	150.7565	1.018567
14799_003046.LAB	1/12/2024	11:30:02	9.315992	0.156935	0.743713	-0.00155	0.610883	0.304876	0.543951	5.473763	0.470503	3.611012	0.358349	1.252125	0.371035	0.228313	-26.0039	-0.00463	25.602576	150.7793	1.018511
14799_003047.LAB	1/12/2024	11:31:03	14.50563	0.252227	0.765278	0.001915	0.631036	0.426301	0.553025	6.85109	0.590805	3.671186	0.340272	1.354901	0.095422	0.646111	-30.0793	-0.005881	41.701467	150.7302	1.018655
14799_003048.LAB	1/12/2024	11:32:04	10.94136	0.168124	0.73372	-0.00185	0.647354	0.4917	0.592513	7.526634	0.54382	3.679102	0.388153	1.436826	-0.11004	0.617155	-28.064	-0.006421	42.157674	150.6986	1.018484
14799_003049.LAB	1/12/2024	11:33:05	9.52356	0.17571	0.770287	0.009482	0.608173	0.265284	0.535964	5.356249	0.543948	3.589499	0.331823	1.299467	0.217833	0.415821	-23.2781	-0.005431	25.19207	150.7695	1.018796
14799_003050.LAB	1/12/2024	11:34:06	6.133849	0.196965	0.745576	0.002191	0.593637	0.158449	0.46513	3.697166	0.449105	3.603225	0.333614	1.175577	1.194599	0.162161	-24.9396	-0.004697	15.536787	150.8267	1.018373
14799_003051.LAB	1/12/2024	11:35:07	5.969547	0.193119	0.773963	0.007741	0.600872	0.177815	0.478545	3.67167	0.402116	3.610665	0.326961	1.173091	1.096601	0.055547	-26.6684	-0.005863	15.738521	150.757	1.019061
14799_003052.LAB	1/12/2024	11:36:07	8.291952	0.187991	0.697972	0.00989	0.602	0.202183	0.486264	5.473423	0.378444	3.59901	0.336559	1.175219	0.566882	0.33362	-27.4792	-0.005144	23.623483	150.7442	1.018539
14799_003053.LAB	1/12/2024	11:37:08	8.197512	0.218518	0.73602	0.00782	0.617455	0.246917	0.484517	6.408963	0.412154	3.665476	0.3372	1.244214	0.442117	0.271933	-30.4748	-0.004516	22.538384	150.6577	1.018487
14799_003054.LAB	1/12/2024	11:38:09	11.58035	0.25824	0.736844	0.004355	0.63103	0.323543	0.555411	9.520922	0.434402	3.704928	0.339148	1.337904	0.170673	0.296968	-29.9775	-0.006001	34.033244	150.6583	1.018611
14799_003055.LAB	1/12/2024	11:39:10	15.52775	0.246686	0.807391	0.004133	0.694816	0.476709	0.576018	7.578825	0.519665	3.802449	0.364031	1.26195	-0.07459	0.363794	-29.6981	-0.006407	45.114149	150.6986	1.018401
14799_003056.LAB	1/12/2024	11:40:11	12.69793	0.264126	0.843552	0.008249	0.676914	0.360541	0.637723	6.783272	0.551994	3.727979	0.375986	1.272709	0.304355	0.279985	-27.41	-0.00742	35.799293	150.7646	1.018612
14799_003057.LAB	1/12/2024	11:41:12	21.60824	0.278986	0.793193	0.005394	0.727811	0.718656	0.625721	9.826785	0.627553	3.815095	0.391908	1.572025	-0.76992	0.730694	-30.02				

14799_003085.LAB	1/12/2024	12:09:36	26.70649	0.283991	0.653327	0.001961	0.749719	0.805972	0.491073	12.08162	0.840331	3.848318	0.399073	1.759672	-0.14163	0.864141	-28.2473	-0.010446	71.762898	150.7499	1.017601
14799_003086.LAB	1/12/2024	12:10:37	12.05315	0.148763	0.936256	0.009175	0.609818	0.301109	0.417311	6.69418	0.766971	3.708906	0.357983	1.555906	0.704863	0.280322	-26.5507	-0.00397	29.177235	150.8681	1.017654
14799_003087.LAB	1/12/2024	12:11:37	25.58849	0.304801	0.887666	0.000825	0.709111	0.690215	0.616784	10.8808	0.71153	3.817555	0.380963	1.521844	-0.64798	0.934019	-30.0555	-0.009422	72.464985	150.7372	1.017725
14799_003088.LAB	1/12/2024	12:12:38	15.71334	0.299873	0.962815	0.005636	0.675084	0.432361	0.555948	8.315154	0.767637	3.723787	0.359034	1.383678	0.398772	0.562502	-26.9736	-0.006392	41.369592	150.7337	1.017669
14799_003089.LAB	1/12/2024	12:13:39	27.5868	0.241018	0.801638	0.000978	0.743441	0.804005	0.576389	12.04798	0.807399	3.852381	0.369088	1.541885	-0.80358	0.920577	-27.4848	-0.009281	77.154085	150.7092	1.017614
14799_003090.LAB	1/12/2024	12:14:40	14.51547	0.312733	0.978952	0.006583	0.667484	0.343288	0.53187	7.622073	0.770345	3.741038	0.347926	1.285939	0.308175	0.557834	-31.7522	-0.007029	37.760514	150.9112	1.017801
14799_003091.LAB	1/12/2024	12:15:41	17.77837	0.288809	0.898895	0.008005	0.684106	0.442018	0.525068	8.607873	0.697025	3.802391	0.356644	1.246005	0.138904	0.644686	-27.6729	-0.007534	49.000994	150.8035	1.017708
14799_003092.LAB	1/12/2024	12:16:42	10.5643	0.213515	0.863989	0.006341	0.596294	0.295815	0.498191	5.700154	0.599842	3.645785	0.328011	1.296865	0.105098	0.391487	-33.3238	-0.005436	26.780201	150.7733	1.017681
14799_003093.LAB	1/12/2024	12:17:42	15.74244	0.209597	0.949675	0.002081	0.630695	0.492771	0.527511	7.851292	0.591782	3.676225	0.33229	1.440056	-0.33205	0.488058	-21.7196	-0.006523	43.276664	150.7425	1.017572
14799_003094.LAB	1/12/2024	12:18:43	8.122403	0.182847	0.794496	0.007008	0.593167	0.240909	0.487639	4.728415	0.543241	3.610986	0.362073	1.229638	0.651124	0.394113	-29.2252	-0.006304	19.829291	150.7934	1.017603
14799_003095.LAB	1/12/2024	12:19:44	12.10981	0.264687	0.794288	0.002214	0.596593	0.338349	0.539294	6.018347	0.520228	3.68026	0.356895	1.255081	-0.07225	0.5077	-30.9455	-0.005564	34.027383	150.7303	1.01742
14799_003096.LAB	1/12/2024	12:20:45	14.09137	0.190983	0.905409	-6.4E-05	0.6104	0.409117	0.553778	7.188842	0.594363	3.738403	0.342335	1.350337	0.170528	0.469117	-31.011	-0.005737	39.092582	150.7127	1.017459
14799_003097.LAB	1/12/2024	12:21:46	11.71556	0.195525	0.770717	0.000546	0.590296	0.327524	0.550606	5.878191	0.524771	3.67128	0.336177	1.223479	-0.12015	0.55212	-29.5394	-0.004322	32.143489	150.7355	1.017204
14799_003098.LAB	1/12/2024	12:22:47	16.26253	0.196728	0.943017	0.0039	0.631301	0.436139	0.594555	8.173332	0.573978	3.729872	0.347627	1.412249	-0.27425	0.504573	-32.8289	-0.006243	45.262384	150.7646	1.017414
14799_003099.LAB	1/12/2024	12:23:48	5.966281	0.189164	0.797724	0.00454	0.579908	0.167193	0.515994	3.832044	0.526637	3.58676	0.357502	1.026838	0.818057	0.390949	-26.9945	-0.004259	11.748197	150.8741	1.017298
14799_003100.LAB	1/12/2024	12:24:49	21.37575	0.258595	0.851653	0.006699	0.692543	0.700237	0.59437	9.074563	0.515561	3.66223	0.390993	1.223304	-0.54053	0.571312	-31.2647	-0.010224	59.033472	150.8144	1.017603
14799_003101.LAB	1/12/2024	12:25:49	17.96263	0.266155	0.416047	0.00936	0.672679	0.599683	0.587985	7.670158	0.570054	3.632765	0.37664	1.048762	-0.15967	0.549527	-28.6138	-0.009934	48.589107	150.8039	1.017176
14799_003102.LAB	1/12/2024	12:26:50	10.36956	0.246049	0.893197	0.002123	0.658454	0.276088	0.541141	6.248219	0.674308	3.584714	0.395173	1.124444	0.4656	0.370793	-25.6435	-0.005126	25.726049	150.7934	1.017326
14799_003103.LAB	1/12/2024	12:27:51	19.92269	0.246267	0.705393	0.003744	0.703686	0.618333	0.538213	8.681484	0.553497	3.694914	0.399672	1.133697	-0.65424	0.515236	-27.2121	-0.008733	56.784514	150.7635	1.017232
14799_003104.LAB	1/12/2024	12:28:52	11.08725	0.289549	0.950715	0.004418	0.658298	0.380208	0.53082	6.459476	0.654505	3.622132	0.388745	1.13009	0.684742	0.159516	-27.3869	-0.006295	28.563664	150.7565	1.017475
14799_003105.LAB	1/12/2024	12:29:53	19.75998	0.258264	0.704307	0.003407	0.69706	0.620201	0.534683	9.038657	0.645262	3.71429	0.395205	1.316041	-0.27947	0.588134	-30.961	-0.007188	54.85192	150.7828	1.017271
14799_003106.LAB	1/12/2024	12:30:54	18.51122	0.187584	0.688914	0.008871	0.681966	0.584163	0.500371	8.348154	0.601242	3.680108	0.391147	1.292405	-0.20213	0.565919	-29.0184	-0.008377	51.005618	150.7916	1.017148
14799_003107.LAB	1/12/2024	12:31:55	18.71291	0.294406	0.67752	0.004194	0.683657	0.580428	0.566187	8.364652	0.636021	3.693145	0.402639	1.267225	-0.11027	0.540936	-28.4196	-0.008734	50.802835	150.8091	1.017226
14799_003108.LAB	1/12/2024	12:32:55	12.76226	0.28277	0.979276	0.006159	0.671257	0.348691	0.539776	7.015614	0.673652	3.704275	0.426657	1.22174	0.293991	0.277695	-32.583	-0.006505	33.77535	150.7863	1.017259
14799_003109.LAB	1/12/2024	12:33:56	17.16655	0.256225	0.65735	0.001118	0.685917	0.548649	0.485778	7.527984	0.59206	3.789718	0.39085	1.239885	-0.19656	0.369368	-29.5693	-0.007153	46.761856	150.9705	1.017265
14799_003110.LAB	1/12/2024	12:34:57	9.567593	0.291912	0.86175	0.004741	0.656049	0.24658	0.522763	9.953697	0.663954	3.746945	0.402482	1.317063	0.707973	0.271157	-25.5877	-0.005541	23.279338	150.8758	1.016938
14799_003111.LAB	1/12/2024	12:35:58	20.16249	0.216559	0.688677	0.005383	0.710688	0.635043	0.567428	9.310713	0.645219	3.85125	0.376355	1.303633	0.011967	0.632077	-32.774	-0.008565	55.615068	150.8249	1.01686
14799_003112.LAB	1/12/2024	12:36:59	6.814264	0.239261	0.819134	-0.00115	0.595654	0.181945	0.430656	3.631901	0.526575	3.726841	0.356729	1.145314	0.644412	0.07982	-28.083	-0.004587	15.525191	150.9846	1.017115
14799_003113.LAB	1/12/2024	12:38:00	11.59376	0.166151	0.879032	0.002023	0.625034	0.40617	0.487496	3.641464	0.489986	3.700852	0.387233	1.306777	0.592348	0.140601	-30.6335	-0.005802	31.031319	150.8969	1.017088
14799_003114.LAB	1/12/2024	12:39:01	11.6108	0.274484	0.786475	0.005925	0.626216	0.370701	0.518198	6.08561	0.491765	3.725732	0.351008	1.33578	0.285921	0.444823	-29.6767	-0.005316	31.491698	150.939	1.017088
14799_003115.LAB	1/12/2024	12:40:01	20.09015	0.307949	0.737645	0.008949	0.696072	0.696443	0.628662	9.900807	0.605805	3.824629	0.405769	1.314229	-0.40101	0.504982	-30.6467	-0.008597	56.541958	150.9407	1.016955
14799_003116.LAB	1/12/2024	12:41:02	17.04885	0.30769	0.792915	0.005094	0.68285	0.524645	0.593346	8.226614	0.626114	3.745121	0.393273	1.267736	-0.2799	0.657129	-26.1425	-0.007971	47.337358	150.7513	1.017248
14799_003117.LAB	1/12/2024	12:42:03	12.36099	0.218943	0.754798	0.004762	0.616491	0.365104	0.542963	6.00468	0.521571	3.659543	0.366459	1.302408	0.239103	0.388206	-28.4743	-0.006422	32.942908	150.9583	1.01732
14799_003118.LAB	1/12/2024	12:43:04	7.261345	0.235243	0.813094	0.015046	0.603791	0.186549	0.481971	4.443814	0.518983	3.611439	0.343405	1.135471	0.634798	0.20789	-25.8156	-0.003419	17.53524	150.9477	1.018212
14799_003119.LAB	1/12/2024	12:44:05	8.684095	0.173639	0.782785	0.008207	0.614626	0.244399	0.491953	4.961893	0.45159	3.644928	0.375096	1.301692	0.464157	0.271629	-29.0236	-0.006218	22.663223	151.0004	1.017841
14799_003120.LAB	1/12/2024	12:45:06	8.522789	0.21419	0.864447	0.009594	0.616674	0.264402	0.504737	4.785065	0.443537	3.63239	0.352314	1.162189	0.483205	0.124809	-30.7742	-0.004845	22.917372	150.9881	1.016683
14799_003121.LAB	1/12/2024	12:46:07	13.44876	0.204492	0.792682	0.006065	0.644266	0.406784	0.521826	6.796706	0.456308	3.655825	0.347907	1.382662	0.344505	0.308516	-26.8442	-0.00585	37.690446	150.9425	1.017004
14799_003122.LAB	1/12/2024	12:47:08	11.69874	0.220923	0.774773	0.009111	0.637594	0.371651	0.537948	6.018874	0.488333	3.628477	0.356709	1.330195	0.198594	0.220215	-32.2919	-0.006115	33.07334	150.8267	1.016935
14799_003123.LAB	1/12/2024	12:48:08	8.036828	0.230769	0.838747	0.004388	0.622703	0.173312	0.46469	4.817102	0.447431	3.629267	0.35058	1.184917	0.997855	0.071432	-35.4277	-0.004013	20.408382	150.767	1.01742
14799_003124.LAB	1/12/2024	12:49:09	5.05044	0.282215	0.821978	0.008585	0.591943	0.196171	0.433275	3.118515	0.356114	3.610064	0.363114	1.104867	0.410847	0.046279	-26.3505	-0.004513	12.742693	150.767	1.016971
14799_003125.LAB	1/12/2024	12:50:10	16.25075	0.208484	0.515369	0.001892	0.637471	0.506467	0.520489	6.940537	0.373884	3.745134	0.35116	1.391819	-0.37111	0.460671	-25.6565	-0.007289	46.207611	150.8741	1.017082
14799_003126.LAB	1/12/2024	12:51:11	7.395675	0.212843	0.772433	0.002233	0.610905	0.201401	0.528301	4.73248	0.476402	3.659463	0.355546	1.330605	0.536906	0.358212					

14799_003154.LAB	1/12/2024	13:19:35	11.86664	0.352504	0.838573	0.004178	0.681578	0.468454	0.616807	6.295094	0.415272	3.687024	0.377622	1.146672	0.159546	0.362975	-31.2094	-0.006363	36.01807	150.974	1.016096
14799_003155.LAB	1/12/2024	13:20:36	23.76933	0.343826	0.663173	0.007278	0.771891	0.886873	0.72947	10.8149	0.590749	3.836939	0.394925	1.699495	-0.54065	0.846603	-31.0835	-0.008533	68.814878	150.9337	1.016284
14799_003156.LAB	1/12/2024	13:21:37	25.35739	0.232438	0.419529	0.004243	0.523285	0.987229	0.545553	11.12844	0.629505	3.590165	0.364764	1.769089	-0.94438	0.607183	-28.4861	-0.01042	69.970017	150.8127	1.016484
14799_003157.LAB	1/12/2024	13:22:38	3.353596	0.197427	0.761007	0.00421	0.101151	0.043643	0.011132	1.74887	0.354652	2.858489	0.359479	0.681016	0.994009	-0.34239	-25.567	-0.004682	1.531637	150.9492	1.016592
14799_003158.LAB	1/12/2024	13:23:39	2.802253	0.25341	0.631161	-0.00109	0.315085	0.069826	0.030841	1.498636	0.256757	3.101643	0.31577	0.711984	1.474525	-0.00156	-22.3632	-0.004008	0.637129	150.9372	1.016284
14799_003159.LAB	1/12/2024	13:24:39	2.59781	0.339818	0.731177	0.007284	1.12884	-0.02121	0.095846	1.970398	0.430729	4.316561	0.344012	1.185625	1.046635	-0.35333	-28.5561	-0.003521	0.763917	150.9214	1.016168
14799_003160.LAB	1/12/2024	13:25:40	1.674038	0.196579	0.715923	0.005663	0.458437	0.235766	0.413718	1.07207	0.226322	3.447074	0.29203	0.766104	1.424728	0.098428	-27.9428	-0.004024	0.444292	150.9588	1.016445
14799_003161.LAB	1/12/2024	13:26:41	3.835701	0.206946	0.709921	-0.00032	0.43063	0.207657	0.423288	2.021106	0.174067	3.367342	0.321043	0.901272	0.88659	0.402005	-26.954	-0.003861	10.49012	150.9653	1.016306
14799_003162.LAB	1/12/2024	13:27:42	9.997645	0.274757	0.647155	0.007963	0.456014	0.373377	0.463522	4.225242	0.200343	3.413838	0.367866	1.028882	0.204773	0.75359	-29.2347	-0.006101	30.991263	150.9863	1.016755
14799_003163.LAB	1/12/2024	13:28:43	24.88194	0.232583	0.648127	-0.00319	0.646428	0.904045	0.764577	9.676581	0.466111	3.779344	0.363562	1.665422	-0.90097	1.041242	-28.0468	-0.008505	69.873478	150.9588	1.016011
14799_003164.LAB	1/12/2024	13:29:43	14.88543	0.333584	0.880747	0.009308	0.71479	0.541294	0.691009	7.700589	0.654611	3.811804	0.384619	1.366067	0.201374	0.608492	-33.8895	-0.006947	36.71064	150.9009	1.016308
14799_003165.LAB	1/12/2024	13:30:45	16.47355	0.324763	0.75401	-0.00085	0.71278	0.552947	0.673952	8.026701	0.644029	3.827192	0.400605	1.285254	0.097072	0.708422	-31.4961	-0.006697	43.456443	150.9267	1.016578
14799_003166.LAB	1/12/2024	13:31:45	19.44078	0.301703	0.759999	0.007064	0.735987	0.686966	0.718728	9.25661	0.714425	3.877048	0.382386	1.352604	-0.43061	0.654565	-29.9555	-0.007919	52.448864	150.9126	1.017885
14799_003167.LAB	1/12/2024	13:32:46	17.48041	0.282154	0.78529	0.008075	0.728379	0.578637	0.695904	8.563551	0.746712	3.853087	0.417216	1.394369	-0.3208	0.675569	-39.0407	-0.007387	46.687869	150.8565	1.017547
14799_003168.LAB	1/12/2024	13:33:47	7.248479	0.279003	0.867794	0.004902	0.679716	0.223961	0.547442	4.226064	0.54909	3.82168	0.383219	1.005131	0.582354	0.022624	-34.0256	-0.004558	17.143702	150.8197	1.016406
14799_003169.LAB	1/12/2024	13:34:48	6.987248	0.245792	0.739823	0.007318	0.667548	0.304154	0.480527	3.68911	0.439791	3.794729	0.360757	0.83813	0.436795	0.07305	-34.1545	-0.004687	18.42073	150.7916	1.016334
14799_003170.LAB	1/12/2024	13:35:49	9.880613	0.357089	0.831548	0.010079	0.681607	0.388042	0.556682	5.397686	0.456726	3.839852	0.371751	1.166299	0.31111	0.1754	-28.2677	-0.006098	26.461165	150.7302	1.01604
14799_003171.LAB	1/12/2024	13:36:49	7.241887	0.378776	0.79257	0.006878	0.669993	0.36212	0.497726	4.040529	0.426608	3.8116	0.389271	1.016225	0.482585	0.274533	-27.2138	-0.004367	20.062593	150.6881	1.016412
14799_003172.LAB	1/12/2024	13:37:50	12.00984	0.351904	0.745408	0.012178	0.682626	0.49199	0.623339	6.086832	0.425085	3.859302	0.379616	1.223312	0.800095	0.367756	-33.2139	-0.006735	35.387691	150.7267	1.016273
14799_003173.LAB	1/12/2024	13:38:51	16.83589	0.23352	0.816148	0.006455	0.725189	0.621166	0.596766	8.004558	0.516289	3.871786	0.403789	1.366029	0.10178	0.538751	-33.5081	-0.006907	50.353285	150.7495	1.01624
14799_003174.LAB	1/12/2024	13:39:52	18.15342	0.203272	0.974387	-0.004482	0.724234	0.603418	0.593274	8.82776	0.574542	3.855	0.397223	1.521808	-0.07315	0.635537	-26.6463	-0.006723	53.307994	150.7302	1.016085
14799_003175.LAB	1/12/2024	13:40:53	28.25553	0.281514	1.041518	0.004424	0.78876	0.83387	0.626443	12.63631	0.767891	3.932178	0.428309	1.83476	-0.15468	0.84484	-29.8129	-0.009071	85.236716	150.7302	1.016201
14799_003176.LAB	1/12/2024	13:41:54	29.29486	0.288195	1.023263	0.000839	0.736767	0.605198	0.572617	9.501765	0.803838	3.858154	0.408629	1.555064	0.157612	0.467612	-30.8628	-0.007772	54.353844	150.782	1.01596
14799_003177.LAB	1/12/2024	13:42:55	22.06252	0.251958	1.08195	0.000005	0.735452	0.697439	0.589039	10.32205	0.738183	3.877686	0.413211	1.553447	-0.38135	0.544554	-34.1865	-0.007256	64.734969	150.7618	1.01624
14799_003178.LAB	1/12/2024	13:43:55	26.34402	0.294606	1.183337	0.009216	0.77929	0.744135	0.595238	12.03706	0.830494	3.920666	0.377023	1.791041	-0.38492	0.741302	-34.2736	-0.00861	76.539339	150.7898	1.015952
14799_003179.LAB	1/12/2024	13:44:57	23.09528	0.378628	1.077084	0.00212	0.759554	0.726925	0.535118	10.95605	0.843673	3.883492	0.418798	1.696965	-0.33059	0.613568	-30.6384	-0.007204	65.840985	150.8214	1.015935
14799_003180.LAB	1/12/2024	13:45:57	27.0747	0.365616	1.146368	0.008815	0.781664	0.819845	0.592901	12.39001	0.853881	3.868581	0.401713	1.905619	-0.92778	0.820006	-30.6983	-0.008679	78.62433	150.8004	1.015885
14799_003181.LAB	1/12/2024	13:46:58	26.04102	0.330011	1.181168	0.001438	0.771499	0.723385	0.564323	12.15662	0.883266	3.847788	0.368663	1.793864	-0.27123	0.708983	-25.8085	-0.008498	75.04473	150.7986	1.01598
14799_003182.LAB	1/12/2024	13:47:59	26.44642	0.34956	1.119728	-0.00355	0.762427	0.75436	0.535117	12.20319	0.89577	3.832487	0.377319	1.796235	-0.51817	0.711325	-31.6264	-0.008541	76.94758	150.8881	1.016222
14799_003183.LAB	1/12/2024	13:49:00	22.0295	0.27942	1.090335	0.004106	0.735569	0.595663	0.553745	10.61811	0.839819	3.794361	0.347256	1.655263	0.352453	0.763186	-31.6194	-0.008169	61.602318	150.9355	1.017215
14799_003184.LAB	1/12/2024	13:50:01	23.47189	0.293914	1.108784	-0.00026	0.727296	0.669194	0.558971	10.86054	0.791247	3.824062	0.372769	1.68895	-0.35076	0.581681	-23.2912	-0.007998	67.26105	150.8284	1.01614
14799_003185.LAB	1/12/2024	13:51:02	23.32975	0.329783	1.184281	0.003938	0.720769	0.627861	0.535616	10.99814	0.800409	3.769349	0.359107	1.646249	-0.03825	0.575399	-34.2556	-0.007961	66.486469	150.7758	1.016401
14799_003186.LAB	1/12/2024	13:52:02	16.56625	0.317906	1.048657	0.008494	0.671221	0.439773	0.464231	8.343301	0.749527	3.706593	0.38627	1.417833	0.629774	0.614142	-28.7518	-0.006543	45.070435	150.9427	1.015966
14799_003187.LAB	1/12/2024	13:53:03	23.16543	0.306978	1.154387	0.005048	0.704713	0.639572	0.571875	10.71393	0.74906	3.755935	0.381727	1.530505	0.121742	0.715249	-31.6561	-0.008951	66.71961	150.994	1.015824
14799_003188.LAB	1/12/2024	13:54:04	16.64437	0.349717	1.013709	0.000872	0.679418	0.441959	0.48767	8.513629	0.753925	3.659717	0.367405	1.468425	0.577194	0.360075	-30.0958	-0.005522	45.266282	150.907	1.01587
14799_003189.LAB	1/12/2024	13:55:05	25.29031	0.369465	1.107317	-0.00342	0.719809	0.735554	0.570633	11.49584	0.745896	3.740326	0.341893	1.535048	-0.67933	0.778786	-33.8315	-0.008758	73.206308	150.8526	1.015851
14799_003190.LAB	1/12/2024	13:56:06	26.0629	0.329945	1.18364	0.0032	0.735923	0.764315	0.562556	12.11705	0.895228	3.773064	0.346967	1.574008	-0.4745	0.764572	-29.4868	-0.008307	74.52045	150.9427	1.015876
14799_003191.LAB	1/12/2024	13:57:07	21.36391	0.325785	1.098035	0.005314	0.70449	0.618149	0.557625	10.38089	0.847975	3.740922	0.395705	1.461676	-0.31939	0.565751	-29.9556	-0.007457	60.460032	150.8986	1.016096
14799_003192.LAB	1/12/2024	13:58:07	21.41794	0.314018	1.088365	-0.0003	0.703197	0.613456	0.542586	10.27382	0.82116	3.734612	0.375409	1.405278	-0.18926	0.787048	-28.1828	-0.007535	60.973535	150.7723	1.015963
14799_003193.LAB	1/12/2024	13:59:08	21.08786	0.312926	1.127636	0.002964	0.698868	0.570575	0.557483	10.12971	0.794107	3.7214	0.342258	1.379029	-0.26175	0.750569	-30.955	-0.00753	59.747349	150.8664	1.016281
14799_003194.LAB	1/12/2024	14:00:09	17.97974	0.310349	1.070989	0.006013	0.666576	0.455119	0.558749	9.834459	0.769013	3.674832	0.35665	1.2836	-0.03368	0.629257	-25.0526	-0.007148	50.122777	150.9372	1.016135
14799_003195.LAB	1/12/2024	14:01:10	19.79618	0.324799	1.102201	0.0059	0.668896	0.566228	0.565654	9.43256	0.755459	3.6933	0.355064	1.329315	-0.37078	0.596961	-25.6577	-0.008106	56.765048	150.9	

14799_003223.LAB	1/12/2024	14:29:34	0.608499	0.192187	0.703117	0.005463	0.584116	0.100256	0.462242	0.320571	0.107398	3.612722	0.364938	0.646852	1.200046	-0.26081	-29.5417	-0.002538	0.153215	150.9302	1.015431
14799_003224.LAB	1/12/2024	14:30:35	0.4841	0.220627	0.726642	0.010045	0.586876	0.102586	0.385825	0.327262	0.121078	3.645354	0.381365	0.59143	1.290649	-0.34304	-30.4951	-0.004326	0.203724	150.8986	1.01496
14799_003225.LAB	1/12/2024	14:31:36	0.552365	0.241724	0.66803	0.006766	0.584379	0.052758	0.46446	0.32967	0.100544	3.628922	0.341354	0.715494	1.328345	-0.18624	-27.1104	-0.00361	0.105605	150.8986	1.015331
14799_003226.LAB	1/12/2024	14:32:37	4.402738	0.275948	0.654107	0.007663	0.604078	0.237875	0.531349	2.561605	0.090359	3.692453	0.361581	0.986471	0.642656	-0.12071	-26.6587	-0.003612	15.467965	150.8969	1.015475
14799_003227.LAB	1/12/2024	14:33:37	5.867379	0.230867	0.775878	0.005654	0.613176	0.2437	0.571505	3.674534	0.16616	3.674945	0.377033	1.274584	0.457299	0.215082	-28.5483	-0.003837	19.694764	150.9021	1.015143
14799_003228.LAB	1/12/2024	14:34:38	2.364578	0.217631	0.683064	0.005475	0.595322	0.189431	0.494031	1.579351	0.173203	3.651909	0.357049	0.958652	0.755145	-0.0416	-31.1545	-0.004281	5.925058	150.974	1.015099
14799_003229.LAB	1/12/2024	14:35:40	3.328156	0.23503	0.764065	0.003372	0.602718	0.173822	0.542696	2.261037	0.172734	3.643272	0.381151	1.046298	0.737292	0.034171	-29.6481	-0.004154	9.932058	150.9214	1.015398
14799_003230.LAB	1/12/2024	14:36:40	2.754986	0.245537	0.788799	0.002055	0.606132	0.154341	0.468107	1.950058	0.168548	3.644926	0.378658	0.984541	0.938726	-0.00525	-30.396	-0.003274	7.502032	150.8371	1.015072
14799_003231.LAB	1/12/2024	14:37:41	2.411652	0.260548	0.737075	0.007092	0.6072	0.119213	0.494644	1.768748	0.16518	3.640556	0.37155	1.093357	1.185685	-0.07062	-35.239	-0.00367	6.677956	150.8442	1.015531
14799_003232.LAB	1/12/2024	14:38:42	2.274257	0.273149	0.766349	0.004834	0.608081	0.138597	0.490441	1.712388	0.139719	3.642217	0.361706	1.012511	0.821154	-0.14723	-33.3947	-0.004349	6.109588	150.8231	1.015188
14799_003233.LAB	1/12/2024	14:39:43	2.200734	0.20915	0.709931	0.001099	0.611805	0.102955	0.457942	1.613217	0.162085	3.677216	0.388945	0.955715	1.490311	-0.04429	-23.4758	-0.00404	5.748269	150.7881	1.015282
14799_003234.LAB	1/12/2024	14:40:43	1.992878	0.250914	0.718862	0.003628	0.611961	0.12889	0.44696	1.441832	0.131359	3.658518	0.353785	1.006359	0.646795	-0.15711	-30.4687	-0.004382	5.402499	150.9129	1.015268
14799_003235.LAB	1/12/2024	14:41:44	2.214259	0.236409	0.686361	0.008275	0.610314	0.214346	0.457729	1.619855	0.141348	3.70069	0.376717	1.04468	0.721872	-0.0464	-31.4197	-0.004826	6.030905	150.9776	1.01527
14799_003236.LAB	1/12/2024	14:42:45	1.962868	0.281954	0.708236	0.012035	0.607009	0.127244	0.458103	1.537502	0.139361	3.674304	0.354252	1.111154	1.182812	-0.08438	-30.3508	-0.003425	5.49066	150.8372	1.01527
14799_003237.LAB	1/12/2024	14:43:46	1.986448	0.267659	0.769882	0.009854	0.606473	0.126468	0.490222	1.460729	0.113291	3.670606	0.357344	0.972465	1.255184	-0.14065	-28.8852	-0.004138	5.509053	150.7653	1.015708
14799_003238.LAB	1/12/2024	14:44:47	2.087262	0.260608	0.653419	0.006628	0.602133	0.173758	0.475033	1.510119	0.128269	3.655075	0.353291	1.03598	1.383527	-0.09235	-30.1821	-0.002315	5.525294	150.7723	1.015073
14799_003239.LAB	1/12/2024	14:45:48	2.004477	0.200509	0.753419	0.011573	0.591567	0.175611	0.53176	1.466062	0.135609	3.656919	0.381641	0.991907	1.21684	0.118076	-33.0264	-0.003909	5.534484	150.7758	1.015409
14799_003240.LAB	1/12/2024	14:46:49	1.917955	0.210056	0.691603	0.008636	0.595046	0.160626	0.454666	1.3961	0.108003	3.635798	0.372601	0.95666	1.305928	-0.00436	-28.1583	-0.003456	5.250793	150.746	1.01557
14799_003241.LAB	1/12/2024	14:47:50	1.848915	0.257949	0.744438	0.009981	0.594743	0.175232	0.472747	1.367741	0.107957	3.670221	0.382481	1.009222	1.11418	-0.05141	-26.993	-0.003208	5.105248	150.7863	1.015359
14799_003242.LAB	1/12/2024	14:48:51	1.846848	0.287276	0.762624	0.006934	0.602316	0.12165	0.510119	1.369451	0.111709	3.692189	0.349603	1.002646	1.176744	-0.14767	-30.1754	-0.003806	4.981804	150.767	1.015492
14799_003243.LAB	1/12/2024	14:49:51	1.805009	0.312878	0.736204	0.003002	0.595681	0.143353	0.478633	1.342459	0.122943	3.637446	0.365926	1.023315	1.427226	-0.09315	-32.5032	-0.002813	4.635442	150.8565	1.015495
14799_003244.LAB	1/12/2024	14:50:52	1.402882	0.236051	0.710724	0.006545	0.590611	0.115943	0.479975	1.161303	0.129306	3.607211	0.371957	0.958022	1.251421	-0.0724	-27.6559	-0.003142	3.412109	150.9039	1.015331
14799_003245.LAB	1/12/2024	14:51:53	1.573039	0.277107	0.756218	0.008491	0.596289	0.129404	0.498854	1.20027	0.122626	3.638032	0.35336	0.936932	1.274755	-0.12475	-31.3613	-0.002899	3.713992	150.867	1.015077
14799_003246.LAB	1/12/2024	14:52:54	1.449031	0.199938	0.689376	0.000775	0.598834	0.139617	0.514108	1.088338	0.121765	3.645543	0.34737	0.999544	1.400154	0.039939	-26.4364	-0.003884	3.818578	150.7934	1.015481
14799_003247.LAB	1/12/2024	14:53:55	1.552629	0.222268	0.674183	0.006172	0.598736	0.131831	0.523608	1.107568	0.112845	3.656294	0.357311	0.989817	1.135785	-0.02066	-28.3386	-0.003308	3.663732	150.7934	1.015204
14799_003248.LAB	1/12/2024	14:54:56	1.370929	0.232592	0.678294	-0.00014	0.601174	0.20087	0.477261	1.07471	0.125764	3.660487	0.356965	0.919916	1.230854	-0.17728	-35.8872	-0.004434	3.686948	150.7863	1.015636
14799_003249.LAB	1/12/2024	14:55:56	1.290168	0.231537	0.754449	0.003056	0.598621	0.17129	0.460724	0.929641	0.095034	3.663687	0.342248	0.9141	0.734724	-0.2704	-29.4964	-0.003498	2.942145	150.839	1.015365
14799_003250.LAB	1/12/2024	14:56:57	1.1414	0.263796	0.718441	0.010995	0.598114	0.063068	0.418423	0.897586	0.067835	3.686484	0.370968	0.927225	1.41528	-0.14564	-30.6682	-0.003184	2.559205	150.8127	1.01511
14799_003251.LAB	1/12/2024	14:57:58	1.120166	0.166673	0.682466	0.013519	0.598828	0.084622	0.471657	0.805223	0.076764	3.709687	0.381197	1.009272	1.31263	-0.06446	-32.1121	-0.004779	2.354556	150.846	1.015442
14799_003252.LAB	1/12/2024	14:58:59	1.128001	0.272709	0.698454	0.011222	0.590785	0.142661	0.483386	0.795963	0.080929	3.73192	0.344773	0.96908	0.957137	-0.08166	-31.6462	-0.00427	2.111451	150.7653	1.015642
14799_003253.LAB	1/12/2024	15:00:00	0.989664	0.201336	0.687243	0.006632	0.582064	0.135144	0.502297	0.770224	0.088799	3.682763	0.355057	0.900767	1.752024	-0.08073	-27.1619	-0.003904	2.125193	150.7706	1.015359
14799_003254.LAB	1/12/2024	15:01:01	1.089886	0.280998	0.725711	0.005334	0.585685	0.140257	0.512095	0.721657	0.06966	3.648179	0.350909	0.943083	1.413169	-0.11684	-31.9197	-0.003525	2.172038	150.7986	1.015392
14799_003255.LAB	1/12/2024	15:02:01	0.779855	0.168053	0.700693	0.00769	0.593412	0.125506	0.451426	0.551807	0.067887	3.619062	0.356486	0.935624	1.285743	-0.12443	-30.6163	-0.004378	0.601255	150.7802	1.014827
14799_003256.LAB	1/12/2024	15:03:02	0.773531	0.207758	0.658579	0.004172	0.585454	0.129769	0.510776	0.530858	0.055397	3.639538	0.331057	0.905655	1.399182	-0.11091	-33.3997	-0.003631	1.038373	150.7214	1.014916
14799_003257.LAB	1/12/2024	15:04:03	0.797475	0.250736	0.663375	0.008965	0.593034	0.115501	0.466654	0.486404	0.050759	3.636927	0.367983	0.790771	1.810157	-0.18418	-28.5599	-0.003052	1.007162	150.7162	1.015171
14799_003258.LAB	1/12/2024	15:05:04	0.579443	0.254904	0.712977	0.006836	0.590272	0.07613	0.477638	0.351804	0.057555	3.618219	0.361201	0.815655	1.335716	-0.04795	-30.1108	-0.003094	0.262867	150.867	1.015154
Average												3.66065021							35.7931896		Run 3
14799_003259.LAB	1/12/2024	15:06:05	0.46361	0.258697	0.678327	0.005075	0.601427	0.071047	0.422931	0.246568	0.058255	3.607946	0.336476	0.76691	1.50404	-0.248	-29.3177	-0.00237	0.232196	150.9319	1.014949
14799_003260.LAB	1/12/2024	15:07:06	0.565007	0.305755	0.644339	0.007081	0.599872	0.110078	0.444682	0.292962	0.034809	3.594415	0.36058	0.721391	1.658232	-0.17913	-31.5468	-0.004013	0.016938	150.9811	1.015054
14799_003261.LAB	1/12/2024	15:08:07	0.450467	0.234041	0.63463	0.006767	0.599033	0.139712	0.418873	0.264745	0.054308	3.643979	0.345656	0.770969	1.567734	-0.16092	-31.2795	-0.002927	0.020657	151.2648	1.015056
14799_003262.LAB	1/12/2024	15:09:07	0.369056	0.253618	0.653241	0.006145	0.605448	0.170691	0.452734	0.265068	0.040492	3.648164	0.357416	0.769334	1.770174	-0.4313	-32.1419	-0.003191	-0.020636	151.1495	1.014556
14799_003263.LAB	1/12/2024	15:10:08	0.475596	0.222525	0.683756	0.009139	0.599965	0.120572	0.45151	0.23275	0.028609	3.61584	0.360145	0.799043	1.795385	-0.26546	-30.5045	-0.002901	-0.025531	150.7338	1.014805
14799_003264.LAB	1/12/2024	15:11:09	0.535008	0.248833	0.622456	0.007403	0.592381	0.154512	0.45308	0.26896	0.005833	3.582107	0.347369	0.810459	1.542816	-0					

14799_003289.LAB	1/12/2024	15:18:06	-0.0524	0.292372	0.479485	0.017443	11.900457	-0.09585	0.064557	-0.02946	0.194121	0.034871	-0.70616	-0.1745	0.868103	-0.51376	-4.10784	-0.001346	0.50329	150.9429	1.014862
14799_003290.LAB	1/12/2024	15:18:15	-0.11659	0.263517	0.336493	0.00217	11.918736	-0.03685	0.027561	-0.03392	0.153538	0.036941	-0.74505	-0.16877	-1.54404	-0.10557	-5.33537	-0.004906	0.300225	150.9867	1.015143
14799_003291.LAB	1/12/2024	15:18:25	-0.18683	0.156642	0.288802	0.00736	11.909313	-0.15515	0.123864	0.149775	0.211802	0.036589	-0.79715	-0.02461	0.046153	0.276693	-1.80062	-0.00403	0.32196	150.9189	1.015214
14799_003292.LAB	1/12/2024	15:18:34	-0.0442	0.141572	0.336031	-0.00491	11.945945	-0.12479	0.062939	-0.01094	0.138167	0.037083	-0.72363	-0.03813	0.695012	-0.17841	20.69727	-0.003606	0.346117	150.8284	1.013822
14799_003293.LAB	1/12/2024	15:18:44	-0.05058	0.101469	0.360786	0.011018	11.901784	0.069567	0.079001	0.079055	0.165032	0.036888	-0.70154	-0.18066	-0.34891	-0.0064	12.08442	-0.00526	0.713044	150.7674	1.015336
14799_003294.LAB	1/12/2024	15:18:53	0.022251	0.247234	0.373415	0.007217	11.897214	0.010239	0.047396	-0.01476	0.135354	0.036671	-0.69936	-0.22173	-0.20617	-0.09738	-9.13821	0.000774	0.731507	150.9302	1.015286
14799_003295.LAB	1/12/2024	15:19:03	-0.08158	0.328055	0.326774	-0.01929	11.910057	-0.1152	-0.01026	-0.08497	0.162041	0.025768	-0.68356	-0.09397	-0.76097	0.099415	1.794363	-0.000619	0.401054	150.8624	1.014964
Averages							11.906331														
14799_003296.LAB	1/12/2024	15:19:13	-0.08817	0.097414	0.452139	0.012707	11.875855	-0.02731	0.07243	-0.00083	0.08604	0.026053	-0.70893	-0.28768	0.709909	-0.50595	2.01143	-0.001504	0.007716	150.7832	1.014822
14799_003297.LAB	1/12/2024	15:19:22	-0.0633	0.160332	0.246992	-0.00676	11.870106	-0.14347	0.082211	0.11987	0.124927	0.030543	-0.6775	-0.23446	-0.33379	-0.07545	-8.07632	-0.005934	0.539641	150.8284	1.014679
14799_003298.LAB	1/12/2024	15:19:31	-0.08955	0.231687	0.442504	0.011783	11.886494	0.05524	0.162767	0.037627	0.151114	0.03348	-0.69995	-0.1461	0.601833	0.077835	-4.21436	-0.00374	0.28808	150.8398	1.014536
14799_003299.LAB	1/12/2024	15:19:41	-0.17571	0.426009	0.447537	0.000137	11.941758	-0.07582	0.123067	-0.01845	0.184015	0.021254	-0.7323	-0.25767	-1.4386	-0.16706	-5.40171	-0.005709	0.258254	150.7719	1.015214
14799_003300.LAB	1/12/2024	15:19:50	-0.14802	0.245318	0.475934	0.012353	11.958078	-0.11669	0.054488	0.098888	0.145443	0.038646	-0.68055	-0.05885	-0.30796	-0.41023	3.596753	-0.004023	0.691274	150.8398	1.014786
14799_003301.LAB	1/12/2024	15:20:00	0.192336	0.122966	0.451719	0.012055	11.920127	-0.01183	0.097077	0.031345	0.220236	0.03556	-0.67305	-0.30147	0.076841	-0.24524	4.659184	-0.003599	0.122214	150.8963	1.014572
14799_003302.LAB	1/12/2024	15:20:09	0.152555	0.291107	0.193263	0.013022	14.153658	0.022205	0.241593	0.296254	0.282111	1.262016	-0.23617	0.490959	1.450418	0.476703	-0.39345	-0.00288	0.096852	150.8511	1.014322
14799_003303.LAB	1/12/2024	15:20:19	0.402652	0.253331	0.622063	0.00105	1.667114	0.09021	0.271904	0.165896	0.296124	2.911072	0.201126	0.470651	0.551184	0.323661	-38.7338	-0.008038	0.291081	150.8058	1.014251
14799_003304.LAB	1/12/2024	15:20:29	0.130795	0.116779	0.522192	0.001704	0.751056	-0.19586	-0.08446	0.024045	0.017875	0.353944	-0.0339	0.154179	0.14788	-0.07531	5.120618	0.001391	0.528127	150.7267	1.013858
14799_003305.LAB	1/12/2024	15:20:38	-0.01587	0.118226	0.472188	-0.00825	0.10392	-0.00801	-0.02005	-0.08279	0.010493	0.083787	0.008052	0.000564	-0.1319	-0.09955	11.73664	0.00175	-0.188926	150.6453	1.013279
14799_003306.LAB	1/12/2024	15:20:48	0.229152	0.232443	0.406763	-0.00601	0.066986	-0.0196	-0.1128	-0.12139	0.020965	0.065096	-0.01026	-0.10249	-0.17457	0.176268	7.544288	0.000979	-0.221024	150.6476	1.013179
14799_003307.LAB	1/12/2024	15:20:57	-0.00469	0.171628	0.528736	0.008197	0.054262	-0.04053	0.003817	0.007179	0.023494	0.054425	-0.04568	0.031346	-0.14583	-0.12809	-3.25636	0.00028	0.179771	150.7041	1.013322
14799_003308.LAB	1/12/2024	15:21:07	0.296409	0.095891	0.375083	-0.01603	0.046044	-0.0584	0.006817	-0.0371	0.007438	0.050475	-0.01073	0.127983	0.062747	-0.24202	-1.38587	-0.000925	-0.096073	150.738	1.014786
14799_003309.LAB	1/12/2024	15:21:16	0.028972	0.242844	0.441112	-0.01114	0.038859	-0.07659	-0.01614	-0.13338	0.044576	0.043806	-0.02377	0.047459	-0.08001	-0.06629	7.565273	0.001167	-0.155592	150.7012	1.015023
14799_003310.LAB	1/12/2024	15:21:26	0.176743	0.127793	0.566304	-0.00463	0.035027	-0.12567	0.053392	-0.17119	-0.02531	0.042965	-0.03043	0.140709	-0.74031	-0.81706	0.404249	-0.003207	-0.054334	150.7063	1.013215
14799_003311.LAB	1/12/2024	15:21:35	0.37187	0.352739	0.444544	-0.00427	0.032471	-0.00347	0.049482	-0.04312	-0.03984	0.037802	-0.07284	0.247036	0.148719	-0.09853	0.205611	-0.000335	0.156727	150.6928	1.013965
14799_003312.LAB	1/12/2024	15:21:45	-0.00438	0.284865	0.400463	-0.01011	0.028185	-0.02582	-0.03836	-0.06176	0.004872	0.04623	0.047178	-0.00207	-0.34715	0.210665	-2.13009	-0.000533	-0.000782	150.7719	1.013644
14799_003313.LAB	1/12/2024	15:21:54	-0.05445	0.057138	0.422802	0.009126	0.025614	0.007245	-0.06013	-0.00727	-0.00894	0.032957	0.030485	0.165146	-0.19419	-0.52049	-6.43727	-0.001089	-0.191172	150.738	1.013429
14799_003314.LAB	1/12/2024	15:22:03	0.134769	0.206974	0.392485	0.003869	0.024561	0.017878	0.001712	0.088011	-0.05969	0.035905	0.029625	-0.11039	0.558271	-0.14407	-0.7386	-0.001517	-0.28926	150.8284	1.013394
14799_003315.LAB	1/12/2024	15:22:13	0.104089	0.129512	0.498726	0.00124	0.021899	-0.07973	-0.02162	0.116163	-0.01127	0.039803	-0.0267	-0.18941	0.087222	-0.18194	-3.26641	0.00048	-0.037366	150.7719	1.014322
14799_003316.LAB	1/12/2024	15:22:23	0.051937	0.27907	0.58499	0.006085	0.019298	-0.11747	0.068199	-0.04406	0.024987	0.042084	0.008329	0.041424	-0.62925	-0.01227	-0.28671	-0.001729	-0.172498	150.8058	1.013037
14799_003317.LAB	1/12/2024	15:22:32	-0.01602	0.118754	0.402892	-0.0087	0.018096	-0.10543	-0.04331	-0.01054	0.008731	0.037686	0.042409	0.096451	0.102456	-0.04596	-4.62106	-0.001906	0.257566	150.7606	1.013501
14799_003318.LAB	1/12/2024	15:22:41	0.205445	0.265296	0.093396	-0.00531	0.264058	-0.18014	0.209445	0.091924	0.148204	1.227704	0.135666	0.529741	1.172615	0.856124	-11.5305	-0.005941	0.585864	150.7719	1.013644
14799_003319.LAB	1/12/2024	15:22:51	0.767678	0.263887	0.721178	0.00374	0.59463	0.074636	0.428493	0.134876	0.208597	3.425587	0.391287	0.761616	1.626346	0.022959	-41.1606	-0.008286	-0.029253	150.6928	1.013465
14799_003320.LAB	1/12/2024	15:23:01	0.538081	0.313509	0.686987	0.003563	0.759437	0.062825	0.413261	0.19878	0.165899	3.426979	0.359949	0.71011	1.643812	-0.22021	-27.3456	-0.006927	-0.032772	150.7606	1.014857
14799_003321.LAB	1/12/2024	15:23:10	0.38147	0.167359	0.571796	0.007431	0.544629	0.03729	0.449482	0.269237	0.148174	3.224405	0.357153	0.654158	1.525402	0.316801	-18.329	-0.006794	0.238453	150.7945	1.012965
14799_003322.LAB	1/12/2024	15:23:20	0.410426	0.221941	0.617693	0.004237	0.537497	-0.05365	0.411372	0.243445	0.030092	3.198556	0.285773	0.85135	2.263241	0.200592	-37.1858	-0.004637	0.461499	150.7267	1.014211
14799_003323.LAB	1/12/2024	15:23:29	0.344425	0.185473	0.734689	-0.01219	0.540294	0.041007	0.51233	0.200045	0.037615	3.190241	0.299213	0.799779	2.158507	0.075516	-44.2193	0.025557	0.029916	150.714	1.014259
14799_003324.LAB	1/12/2024	15:23:38	0.533366	0.172377	0.823499	0.019888	0.541242	0.015071	0.68209	0.267264	0.025097	3.253372	0.272663	0.557691	1.776101	0.305355	-31.9342	0.440646	5.391174	150.7572	1.015143
14799_003325.LAB	1/12/2024	15:23:48	0.243645	0.308022	0.656555	0.007825	0.537625	0.013345	0.713007	0.080858	-0.03522	3.191722	0.305662	1.091254	0.107915	0.452461	-25.2008	0.516524	9.287604	150.738	1.014001
14799_003326.LAB	1/12/2024	15:23:58	0.415851	0.546732	0.82401	0.00048	0.536111	-0.01006	0.748829	0.141919	-0.06734	3.206901	0.333464	0.571097	1.703287	-0.03089	-27.1628	0.512776	9.339424	150.7267	1.013786
14799_003327.LAB	1/12/2024	15:24:07	0.245401	0.304256	0.650049	0.019423	0.536006	0.114145	0.82034	0.183509	-0.02727	3.192616	0.307908	0.685259	1.346404	0.358209	-21.8178	0.509966	9.91701	150.738	1.013108
14799_003328.LAB	1/12/2024	15:24:17	0.269325	0.123357	0.585781	-0.00161	0.537957	0.06335	0.726247	0.202354	-0.04738	3.175393	0.287858	0.616323	1.165788	0.369923	-36.2072	0.518302	10.078246	150.7267	1.014018
14799_003329.LAB	1/12/2024	15:24:26	0.055213	0.2071	0.702986	0.002221	0.533595	0.139215	0.84992	0.309903	0.019032	3.180523	0.265661	0.779799	1.63487	-0.07072	-41.8437	0.519102	9.862957	150.7165	1.014886
14799_003330.LAB	1/12/2024	15:24:36	0.275804	0.343144	0.528865	-0.0026	0.535769	0.176333	0.738867	0.230288	0.000541	3.204964	0.271951	0.481411	1.632221	0.483633	-25.7717	0.521307	10.117911	150.7832	1.0143

14799_003357.LAB	1/12/2024	15:28:53	0.272195	0.326437	0.69147	0.003401	0.546605	0.015355	0.721967	0.121611	-0.06343	3.171985	0.324968	0.872853	1.023513	0.220529	-27.9473	0.511183	9.724444	151.0319	1.014429
14799_003358.LAB	1/12/2024	15:29:02	0.169526	0.147844	0.576251	0.001126	0.54399	0.139361	0.677214	0.194806	-0.06949	3.179377	0.311757	0.764232	0.965966	0.295808	-29.7176	0.511043	10.174982	151.0093	1.013715
14799_003359.LAB	1/12/2024	15:29:11	0.230295	0.307349	0.562471	0.017045	0.540221	0.015489	0.664511	0.254017	-0.08914	3.16278	0.286963	0.703922	1.062952	0.513175	-36.0863	0.514765	10.328933	150.998	1.014322
14799_003360.LAB	1/12/2024	15:29:21	0.348141	0.270657	0.707164	0.002204	0.536888	0.052186	0.703385	0.145917	-0.0266	3.157183	0.315487	0.979585	1.026746	0.276108	-25.5214	0.516635	10.120172	151.0093	1.014215
14799_003361.LAB	1/12/2024	15:29:31	0.303913	0.240857	0.775866	0.006797	0.53134	0.027842	0.700282	0.136089	-0.04367	3.14798	0.249783	0.531893	0.446051	-0.01486	-13.5371	0.516408	10.356175	151.0116	1.014854
14799_003362.LAB	1/12/2024	15:29:40	0.34981	0.233449	0.639925	0.011802	0.534072	0.095576	0.84019	0.170059	-0.07991	3.155253	0.308856	0.846593	1.558535	0.472623	-11.2558	0.51952	10.444558	150.9556	1.013657
14799_003363.LAB	1/12/2024	15:29:49	0.200472	0.370127	0.794288	-0.00111	0.539026	0.044889	0.739667	0.089566	-0.05878	3.17827	0.282473	0.954776	1.216608	-0.20751	-26.1154	0.512395	9.872347	150.9754	1.014286
Averages																		0.5154305	10.0295609		
14799_003364.LAB	1/12/2024	15:29:59	0.325098	0.217738	0.753545	0.018768	0.540601	0.032809	0.7668	0.185638	-0.07477	3.179938	0.316397	0.724422	1.620071	0.369326	-25.3919	0.513067	10.34638	150.9404	1.013858
14799_003365.LAB	1/12/2024	15:30:09	0.223668	0.154579	0.589208	0.019868	0.543866	-0.07605	0.870418	0.2575	-0.08607	3.193146	0.364613	0.616343	1.29077	0.396615	-35.7094	0.513864	10.240855	150.9048	1.014581
14799_003366.LAB	1/12/2024	15:30:18	0.318394	0.140813	0.670738	0.002066	0.553678	0.087437	0.627377	0.237793	-0.08851	3.253125	0.294833	0.578671	1.035015	0.296001	-40.0312	0.4453	8.91005	150.8793	1.013601
14799_003367.LAB	1/12/2024	15:30:28	0.302944	0.391291	0.713717	-0.00067	0.591879	0.152334	0.410191	0.210839	-0.05252	3.513316	0.37058	0.756721	2.211046	0.217309	-25.9758	0.044876	1.5072	150.9641	1.014179
14799_003368.LAB	1/12/2024	15:30:37	0.622047	0.247907	0.761115	0.004352	0.573422	0.156786	0.609993	0.11169	0.047466	3.462238	0.343212	0.84884	2.205859	-0.38484	-31.4197	0.20929	3.603927	150.9938	1.014179
14799_003369.LAB	1/12/2024	15:30:46	0.099307	0.250185	0.36696	-0.00915	0.080118	0.050181	0.543264	-0.01249	0.002229	0.626393	0.023921	0.002424	0.070123	0.276284	8.889189	0.668057	13.521131	150.9912	1.014565
14799_003370.LAB	1/12/2024	15:30:56	0.159044	0.1471	0.480546	0.011492	0.010307	-0.12463	-0.00347	0.013987	-0.06208	0.119442	0.000226	0.00349	0.654687	-0.04399	-5.90858	0.009641	-0.00235	151.0093	1.013644
14799_003371.LAB	1/12/2024	15:31:06	0.035968	0.186735	0.400693	-0.00302	0.00571	-0.01649	0.04752	0.003125	0.027552	0.084761	0.019473	0.061344	-1.03856	0.212312	-11.9686	0.003017	0.433221	151.0093	1.013465
14799_003372.LAB	1/12/2024	15:31:15	0.254782	0.132671	0.381984	0.022696	0.007302	-0.03871	-0.03083	-0.04485	-0.0456	0.072906	0.06738	-0.12177	-0.23124	-0.08808	5.433641	0.00143	0.203333	150.9867	1.014036
14799_003373.LAB	1/12/2024	15:31:24	0.145854	0.253308	0.31226	0.007882	0.003702	0.006581	0.034805	0.006496	-0.01055	0.070149	0.03513	0.183057	0.081751	0.377255	-1.49252	0.000006	0.616457	150.8624	1.013144
14799_003374.LAB	1/12/2024	15:31:34	0.029823	0.17584	0.598436	-0.00598	0.004526	0.020165	-0.00536	-0.05135	0.009161	0.071238	-0.01373	0.080434	-1.23535	-0.62059	-4.79915	0.002779	0.130942	150.8895	1.014404
14799_003375.LAB	1/12/2024	15:31:44	0.189315	0.073295	0.391081	-0.00055	0.005354	-0.02977	-0.0124	-0.06465	-0.01	0.055446	-0.03182	0.15703	0.04417	-0.03792	-2.23462	-0.001758	0.391553	150.8398	1.013429
14799_003376.LAB	1/12/2024	15:31:53	0.035897	0.159064	0.518084	0.003154	0.004751	0.023085	0.013287	0.066409	-0.04226	0.050491	0.005422	-0.01768	0.287339	-0.27982	-3.26918	-0.000415	0.411346	150.8157	1.014541
14799_003377.LAB	1/12/2024	15:32:03	0.152704	0.163448	0.56505	0.006241	0.00334	-0.14709	-0.06902	0.003165	-0.03298	0.043392	-0.00956	-0.05632	-0.58186	-0.09434	1.569507	-0.000646	-0.048017	150.747	1.014404
14799_003378.LAB	1/12/2024	15:32:12	0.055923	0.106267	0.615671	-0.00737	0.003723	-0.03091	-0.01466	-0.14628	0.021096	0.047459	-0.01855	0.060366	0.022612	-0.41537	3.760983	-0.001152	0.21195	150.803	1.013777
14799_003379.LAB	1/12/2024	15:32:22	0.336511	0.060346	0.508611	-0.01263	0.003702	-0.15357	0.121352	-0.15769	0.074783	0.04895	0.022907	-0.06417	-1.66792	-0.19846	-11.1894	-0.003002	-0.592905	150.7776	1.013601
14799_003380.LAB	1/12/2024	15:32:31	0.126997	0.096944	0.553348	-0.00509	0.003883	0.096671	-0.01121	-0.02634	-0.02596	0.050608	-0.00181	0.033091	-0.00032	-0.47051	-7.70086	-0.000161	-0.753426	150.7493	1.013358
14799_003381.LAB	1/12/2024	15:32:41	0.016846	0.29485	0.287835	-0.0015	0.303149	-0.06589	0.291488	0.213871	0.093891	1.560445	0.11701	0.207536	1.895305	0.43029	-1.88245	-0.003903	-0.053587	150.7154	1.013929
14799_003382.LAB	1/12/2024	15:32:50	0.677724	0.326434	0.69803	0.009411	0.578338	0.132788	0.434074	0.189038	0.149924	3.481479	0.379778	1.019747	2.383165	0.014571	-50.8251	-0.006008	0.007483	150.8058	1.014001
14799_003383.LAB	1/12/2024	15:33:00	0.653597	0.241112	0.757805	0.005113	0.588313	0.188571	0.439791	0.125715	0.012177	3.588654	0.291797	1.100097	1.666004	-0.4065	-45.144	-0.003707	0.139603	150.8058	1.014286
14799_003384.LAB	1/12/2024	15:33:09	0.537014	0.155606	0.739227	-0.00175	0.592994	0.142969	0.564339	0.262163	0.030638	3.619361	0.309613	0.604498	1.20905	-0.11513	-32.5404	-0.006997	0.080636	150.8284	1.015
14799_003385.LAB	1/12/2024	15:33:19	0.554093	0.091118	0.828146	0.005721	0.590577	0.001394	0.426676	0.224302	0.079597	3.634856	0.33416	0.749159	1.503995	-0.59041	-27.8651	-0.003033	-0.014159	150.738	1.014251
14799_003386.LAB	1/12/2024	15:33:28	0.722818	0.196874	0.68396	0.001959	0.582752	0.184676	0.435506	0.216595	0.029902	3.642348	0.365116	0.669622	2.048042	-0.08503	-25.3697	-0.000855	0.071846	150.7041	1.014715
14799_003387.LAB	1/12/2024	15:33:38	0.667402	0.244716	0.637914	0.014919	0.585681	0.167894	0.317011	0.195759	0.051847	3.640127	0.342142	0.774947	2.605629	-0.35608	-32.8122	-0.001614	0.387061	150.738	1.014143
14799_003388.LAB	1/12/2024	15:33:47	0.397878	0.238729	0.584442	0.000047	0.587721	-0.02983	0.466279	0.238552	0.045527	3.641618	0.343828	1.043663	1.790758	-0.22708	-28.8533	-0.004165	0.351158	150.747	1.014693
14799_003389.LAB	1/12/2024	15:33:57	0.534215	0.405254	0.723572	0.018431	0.594415	0.068308	0.389707	0.195406	0.032612	3.656098	0.334808	0.940919	1.362155	-0.15112	-30.8251	-0.002881	-0.421225	150.7832	1.014393
14799_003390.LAB	1/12/2024	15:34:06	0.361713	0.323496	0.706413	0.009006	0.585589	0.139179	0.459833	0.036227	0.053975	3.635114	0.371999	0.87908	1.754582	-0.2335	-33.6828	-0.002562	0.205442	150.7903	1.0143
14799_003391.LAB	1/12/2024	15:34:16	0.481887	0.369096	0.693349	0.017366	0.592196	0.248981	0.44997	0.124107	0.049535	3.659237	0.361812	0.814945	0.969651	-0.5205	-22.6775	-0.002434	-0.21115	150.7606	1.013858
14799_003392.LAB	1/12/2024	15:34:25	0.305629	0.351826	0.579911	-0.00052	0.591012	0.003962	0.402624	0.057851	0.051113	3.655843	0.361466	0.740057	2.151464	-0.40702	-23.0628	-0.004247	0.136307	150.6758	1.014179
14799_003393.LAB	1/12/2024	15:34:35	0.615661	0.297942	0.666527	0.004801	0.588902	0.181531	0.510329	0.066404	0.064183	3.682347	0.369536	0.966028	1.753185	-0.20395	-36.1049	-0.006669	0.025963	150.6589	1.014286
14799_003394.LAB	1/12/2024	15:34:44	0.477005	0.223355	0.748186	0.014146	0.589532	0.13247	0.404858	0.255311	0.047953	3.67818	0.339467	0.502062	1.430349	-0.30062	-32.1748	-0.001539	-0.136412	150.6589	1.014072
14799_003395.LAB	1/12/2024	15:34:54	0.469944	0.253655	0.826492	0.021402	0.595223	0.102547	0.335627	0.141841	0.019862	3.662735	0.298874	0.840699	1.897922	-0.45872	-34.6899	-0.0023	0.039361	150.7154	1.013215
14799_003396.LAB	1/12/2024	15:35:03	0.373177	0.267714	0.77926	0.008653	0.592488	0.176995	0.394075	0.191116	0.035437	3.672688	0.321524	0.824946	2.526242	-0.61901	-35.2097	-0.005254	-0.423779	150.738	1.014429
14799_003397.LAB	1/12/2024	15:35:13	0.565303	0.262168	0.671363	0.006443	0.596841	0.035409	0.333653	0.10453	0.064272	3.664183	0.297848	0.898491	1.864056	-0.50215	-35.6066	-0.001928	0.345406	150.738	1.014715
14799_003398.LAB	1/12/2024	15:35:22	0.36182	0.199274	0.760779	-0.00185	0.595317	0.092949	0.400725	0.062369	0.001685	3.66912	0.327214	0.956867	1.63254	-0.04882	-37.5553	-0.004891	-0.154525	150.7267	

End of Appendix Section

APPENDIX F: REFERENCE METHOD MONITOR DATA

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CALIBRATION ERROR

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
Instrument Information				
Manufacturer:	Servomex	Servomex		
Model:	1420C	1415C	CleanAir	CleanAir
Detection:	Paramagn	NDIR	NA	NA
Asset or Serial No:	208593	208208	204347	204347

Calibration Span Value (CS)

21.160 20.780 5.000 1000.000

System Response Time (seconds)

Manufacturer Certified Cylinder Value (C_v)

Zero	0.000	0.000
Low		
Mid	12.040	11.990
High	21.160	20.780

Actual gas to be used for bias checks

12.040 11.990

Cylinder ID

Zero	N2	N2
Low		
Mid	CC426832	CC426832
High	CC743547	CC743547

Analyzer Calibration Response (C_{Dir})

Zero	0.019	0.011						
Low	20.137	0.102						
Mid	12.084	12.028						
High	21.172	20.755						

Analyzer Calibration Error (ACE) (Limit = 2%, Method 25A limit = 5% of gas value)

Zero	0.1%	0.1%	N/A	N/A
Low	N/A	N/A	N/A	N/A
Mid	0.2%	0.2%	N/A	N/A
High	0.1%	-0.1%	N/A	N/A

Calibration Error Status

Zero	OK	OK	N/A	N/A
Low	N/A	N/A	N/A	N/A
Mid	OK	OK	N/A	N/A
High	OK	OK	N/A	N/A

012924 090032

07:17:03	20.139	0.102	-0.044	306.977
07:17:18	20.138	0.102	-0.032	306.975
07:17:33	20.137	0.102	-0.042	306.981
07:17:48	20.138	0.102	-0.038	306.981
07:18:03	20.137	0.102	-0.033	306.973
07:18:18	20.137	0.102	-0.027	306.962
07:18:33	20.136	0.101	-0.028	306.977
07:18:48	20.165	0.102	-0.023	306.990
07:19:03	20.166	0.091	-0.023	306.977
07:19:18	20.193	0.091	-0.020	306.978
07:19:33	20.189	0.095	-0.031	306.986
07:19:48	19.828	0.125	-0.019	306.980
07:20:03	17.321	0.140	-0.023	306.979
07:20:18	13.310	0.122	-0.026	306.979
07:20:33	9.758	0.097	-0.032	306.979
07:20:48	6.907	0.075	-0.021	306.963
07:21:03	4.868	0.058	-0.025	306.972
07:21:18	3.385	0.045	-0.024	267.287
07:21:33	2.296	0.037	-0.002	-1.022

CALIBRATION ERROR

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF
07:21:48	1.503	0.030	0.035	13.675
07:22:03	0.903	0.025	0.221	67.948
07:22:18	0.463	0.021	0.255	22.443
07:22:33	0.192	0.018	0.396	79.381
07:22:48	-0.002	0.016	0.400	99.047
07:23:03	-0.153	0.016	0.401	219.521
07:23:18	-0.271	0.014	0.403	308.483
07:23:33	-0.368	0.013	0.404	308.438
07:23:48	-0.414	0.013	0.402	308.457
07:24:03	-0.161	0.013	0.400	308.405
07:24:18	-0.005	0.013	0.400	307.742
07:24:33	-0.037	0.013	0.401	308.135
07:24:48	-0.020	0.012	0.401	308.387
07:25:03	0.000	0.012	0.400	308.486
07:25:18	-0.026	0.011	0.400	308.500
07:25:33	-0.009	0.011	0.406	308.430
07:25:48	0.044	0.011	0.400	308.186
07:26:03	0.030	0.011	0.402	308.502
07:26:18	0.017	0.011	0.403	308.491
07:26:33	0.009	0.012	0.396	308.483
07:26:48	0.000	0.011	0.398	308.470
07:27:03	-0.008	0.011	0.399	308.493
07:27:18	-0.015	0.012	0.401	308.492
07:27:33	0.238	0.132	0.401	308.492
07:27:48	2.134	1.692	0.406	308.515
07:28:03	4.843	4.436	0.405	308.510
07:28:18	7.440	7.160	0.397	308.500
07:28:33	9.685	9.521	0.398	308.510
07:28:48	11.538	11.520	0.400	308.512
07:29:03	13.096	13.165	0.405	308.485
07:29:18	14.383	14.556	0.402	308.522
07:29:33	15.439	15.640	0.405	308.508
07:29:48	17.344	17.527	0.398	308.507
07:30:03	19.652	20.018	0.396	308.516
07:30:18	20.737	21.183	0.404	308.523
07:30:33	21.136	21.614	0.398	308.514
07:30:48	21.281	21.797	0.399	308.504
07:31:03	21.335	21.866	0.401	308.521
07:31:18	21.325	21.892	0.400	308.536
07:31:33	21.236	21.904	0.404	308.520
07:31:48	21.179	21.856	0.407	308.504
07:32:03	21.181	20.912	0.400	308.509
07:32:18	21.182	20.744	0.413	309.039
07:32:33	21.183	20.767	0.430	309.467
07:32:48	21.166	20.759	0.407	309.491
07:33:03	21.168	20.740	0.413	309.483
07:33:18	21.168	20.740	0.412	309.507
07:33:33	21.167	20.742	0.416	309.503
07:33:48	18.564	18.984	0.414	309.501
07:34:03	14.530	14.956	0.414	309.490
07:34:18	12.952	13.249	0.414	309.503
07:34:33	12.392	12.618	0.412	309.508
07:34:48	12.195	12.382	0.412	309.506
07:35:03	12.124	12.296	0.404	309.507
07:35:18	12.099	12.262	0.415	309.498
07:35:33	12.089	12.251	0.412	309.445
07:35:48	12.085	12.226	0.406	309.511
07:36:03	12.084	12.025	0.409	309.523
07:36:18	12.084	12.030	0.414	309.485
07:36:33	12.085	12.028	0.414	309.504
07:36:48	12.085	12.027	0.411	309.507

Steri-Tech, Inc.
 CleanAir Project No. 14799
 Salinas, Puerto Rico
 CRTO Stack

Jan 11, 2024
 Start Time 07:17
 Stop Time 07:37

CALIBRATION ERROR

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
07:37:03	12.084	12.027	0.407	309.504
07:37:18	12.085	12.027	0.409	309.500

CALIBRATION BIAS 00

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
System Response to Calibration Gasses (C_s)				
C _{of} Zero gas	-0.027	0.055		
C _{uf} Upscale gas	12.084	12.026		
Analyzer Calibration Error Responses (C_{Dir})				
C _{oce} Zero gas	0.019	0.011	0.000	0.000
C _{mce} Upscale gas	12.084	12.028	0.000	0.000
Actual Upscale Gas Value (C_{MA})				
C _{ma} Upscale gas	12.040	11.990		
Calibration Span Value (CS)				
	21.160	20.780	5.000	1000.000
System Bias as Percent of Calibration Span Value (SB) (5%)				
Zero gas	-0.2%	0.2%	0.0%	0.0%
Upscale gas	0.0%	0.0%	0.0%	0.0%
System Bias Status				
Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK
Previous System Response to Calibration Gasses (C_s)				
C _{oi} Zero gas	N/A	N/A	N/A	N/A
C _{ui} Upscale gas	N/A	N/A	N/A	N/A
Drift Assessment as Percent of Calibration Span Value (D) (3%)				
Zero gas	N/A	N/A	N/A	N/A
Upscale gas	N/A	N/A	N/A	N/A
Drift Assessment Status				
Zero gas	N/A	N/A	N/A	N/A
Upscale gas	N/A	N/A	N/A	N/A

012924 090032

06:37:54	12.085	12.025	0.414	309.501
06:38:09	12.085	12.026	0.406	309.512
06:38:24	12.084	12.026	0.415	309.519
06:38:39	12.084	12.026	0.412	309.475
06:38:54	12.084	12.026	0.417	309.620
06:39:09	12.084	12.025	0.410	309.500
06:39:24	12.083	12.026	0.412	309.533
06:39:39	11.903	11.994	0.414	309.514
06:39:54	6.766	7.915	0.408	309.482
06:40:09	2.340	2.930	0.416	309.503
06:40:24	0.785	1.020	0.409	309.498
06:40:39	0.252	0.413	0.407	309.479
06:40:54	0.071	0.195	0.413	309.482
06:41:09	0.008	0.111	0.408	309.503
06:41:24	-0.014	0.077	0.412	309.498
06:41:39	-0.023	0.062	0.411	309.484
06:41:54	-0.027	0.054	0.410	309.494
06:42:09	-0.030	0.050	0.409	309.508
06:42:24	-0.028	0.045	0.415	309.511
06:42:39	1.599	0.070	0.409	309.511
06:42:54	11.759	0.386	0.410	309.515
06:43:09	17.262	0.592	0.407	309.496
06:43:24	19.171	0.659	0.415	309.489
06:43:39	19.830	0.680	0.409	309.528

REFERENCE METHOD RUN 1

Channel			1	2	3	4
			O2	CO2	Δp	Ts
			CRT0 Stack	CRT0 Stack	CRT0 Stack	CRT0 Stack
			%dv	%dv	inWC	degF
Calibration Checks						
Bias 00	C _{oi}	Initial zero	-0.027	0.055	0.000	0.000
Stop 06:43	C _{ui}	Initial upscale	12.084	12.026	0.000	0.000
Bias 01	C _{of}	Final zero	0.051	0.000	0.000	0.000
Start 14:51	C _{uf}	Final upscale	12.057	12.023	0.000	0.000
	C _{ma}	Actual gas value	12.040	11.990		
Analyzer Averages (concentrations)						Average
C _{Avg}	Average conc.		20.322	0.689	0.437	327.979
C _{Gas}	Bias adjusted		20.279	0.661		0.660
Clock Time (at end of sample period)						
012924 090032						
	09:26	20.359	0.665	0.432	311.950	SqRt Dp 0.657
	09:27	20.306	0.701	0.457	314.355	0.676
	09:28	20.268	0.725	0.458	314.989	0.677
	09:29	20.253	0.738	0.462	315.532	0.679
	09:30	20.216	0.765	0.466	316.731	0.683
	09:31	20.209	0.765	0.464	317.061	0.681
	09:32	20.238	0.752	0.416	315.196	0.645
	09:33	20.243	0.744	0.450	316.371	0.671
	09:34	20.251	0.741	0.444	317.015	0.666
	09:35	20.262	0.743	0.455	318.281	0.675
	09:36	20.238	0.760	0.463	319.502	0.680
	09:37	20.276	0.734	0.462	320.342	0.680
	09:38	20.256	0.743	0.464	321.395	0.681
	09:39	20.244	0.750	0.462	322.419	0.680
	09:40	20.203	0.781	0.465	323.190	0.682
	09:41	20.289	0.731	0.467	324.254	0.683
	09:42	20.226	0.763	0.466	325.143	0.682
	09:43	20.362	0.685	0.464	326.096	0.681
	09:44	20.349	0.685	0.461	326.732	0.679
	09:45	20.341	0.694	0.462	327.453	0.679
	09:46	20.326	0.700	0.462	327.747	0.680
	09:47	20.314	0.714	0.461	328.739	0.679
	09:48	20.292	0.726	0.457	328.755	0.676
	09:49	20.267	0.742	0.457	328.755	0.676
	09:50	20.322	0.714	0.460	328.783	0.678
	09:51	20.308	0.721	0.457	329.069	0.676
	09:52	20.275	0.742	0.460	329.535	0.678
	09:53	20.381	0.670	0.458	328.944	0.677
	09:54	20.310	0.714	0.455	328.953	0.675
	09:55	20.320	0.707	0.454	329.746	0.674
	09:56	20.269	0.733	0.458	330.295	0.676
	09:57	20.272	0.738	0.457	330.727	0.676
	09:58	20.315	0.714	0.460	330.807	0.678
	09:59	20.318	0.713	0.457	330.804	0.676
	10:00	20.303	0.724	0.458	331.425	0.677
	10:01	20.346	0.695	0.459	331.808	0.677
	10:02	20.298	0.717	0.459	331.893	0.677
	10:03	20.284	0.736	0.459	331.975	0.677
	10:04	20.289	0.732	0.459	332.757	0.677
	10:05	20.339	0.699	0.461	332.840	0.679
	10:06	20.352	0.691	0.459	333.424	0.678
	10:07	20.322	0.709	0.458	333.744	0.677
	10:08	20.314	0.716	0.459	333.742	0.677
	10:09	20.275	0.743	0.455	333.748	0.675
	10:10	20.440	0.643	0.460	333.743	0.678
	10:11	20.416	0.644	0.459	333.747	0.677
	10:12	20.301	0.718	0.458	333.746	0.677

REFERENCE METHOD RUN 1

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
10:13	20.379	0.676	0.458	333.673	0.677
10:14	20.331	0.706	0.459	333.408	0.677
10:15	20.303	0.721	0.457	333.668	0.676
10:16	20.329	0.713	0.459	333.279	0.678
10:17	20.328	0.710	0.456	332.839	0.675
10:18	20.369	0.683	0.460	332.974	0.678
10:19	20.303	0.715	0.459	332.849	0.678
10:20	20.280	0.739	0.460	332.836	0.678
10:21	20.335	0.708	0.460	332.824	0.678
10:22	20.322	0.710	0.458	332.844	0.677
10:23	20.351	0.691	0.459	332.836	0.678
10:24	20.227	0.768	0.459	332.922	0.678
10:25	20.370	0.695	0.461	333.253	0.679
10:26	20.292	0.724	0.460	333.754	0.678
10:27	20.296	0.728	0.458	333.742	0.677
10:28	20.254	0.753	0.459	333.763	0.677
10:29	20.316	0.717	0.460	333.757	0.678
10:30	20.265	0.753	0.462	334.124	0.679
10:31	20.290	0.734	0.461	334.496	0.679
10:32	20.275	0.752	0.460	334.822	0.678
10:33	20.317	0.724	0.457	334.805	0.676
10:34	20.328	0.715	0.462	334.820	0.680
10:35	20.331	0.711	0.457	335.405	0.676
10:36	20.249	0.765	0.457	335.798	0.676
10:37	20.310	0.726	0.461	335.786	0.679
10:38	20.305	0.726	0.458	336.325	0.677
10:39	20.323	0.719	0.457	336.461	0.676
10:40	20.332	0.713	0.454	336.776	0.673
10:41	20.286	0.743	0.458	336.769	0.677
10:42	20.302	0.736	0.456	336.770	0.675
10:43	20.341	0.711	0.457	336.773	0.676
10:44	20.312	0.723	0.454	336.778	0.674
10:45	20.316	0.725	0.456	337.354	0.675
10:46	20.349	0.700	0.455	337.781	0.675
10:47	20.372	0.690	0.458	337.776	0.677
10:48	20.382	0.680	0.458	338.715	0.677
10:49	20.390	0.675	0.458	338.779	0.677
10:50	20.354	0.698	0.457	338.780	0.676
10:51	20.357	0.697	0.456	338.774	0.675
10:52	20.406	0.662	0.455	338.784	0.675
10:53	20.390	0.667	0.458	338.767	0.676
10:54	20.354	0.689	0.457	338.796	0.676
10:55	20.346	0.698	0.458	338.110	0.677
10:56	20.338	0.700	0.457	337.765	0.676
10:57	20.342	0.703	0.459	337.759	0.678
10:58	20.330	0.712	0.458	337.770	0.677
10:59	20.381	0.677	0.458	336.836	0.677
11:00	20.398	0.661	0.460	336.768	0.678
11:01	20.423	0.642	0.457	336.085	0.676
11:02	20.330	0.695	0.461	335.801	0.679
11:03	20.291	0.731	0.459	335.804	0.678
11:04	20.336	0.696	0.461	335.799	0.679
11:05	20.259	0.753	0.460	335.209	0.678
11:06	20.319	0.715	0.461	335.332	0.679
11:07	20.223	0.773	0.461	334.820	0.679
11:08	20.324	0.715	0.462	334.817	0.680
11:09	20.299	0.723	0.462	334.813	0.680
11:10	20.308	0.715	0.460	334.815	0.678
11:11	20.305	0.715	0.461	334.817	0.679
11:12	20.316	0.717	0.462	334.810	0.679
11:13	20.381	0.667	0.462	334.828	0.680

REFERENCE METHOD RUN 1

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
11:14	20.341	0.696	0.457	334.822	0.676
11:15	20.324	0.704	0.460	334.819	0.678
11:16	20.239	0.765	0.458	334.800	0.677
11:17	20.364	0.687	0.459	334.807	0.678
11:18	20.327	0.707	0.459	334.923	0.678
11:19	20.369	0.680	0.457	335.599	0.676
11:20	20.358	0.682	0.458	335.798	0.677
11:21	20.358	0.693	0.460	335.806	0.678
11:22	20.371	0.680	0.460	335.796	0.678
11:23	20.341	0.704	0.458	335.796	0.677
11:24	20.357	0.692	0.460	335.645	0.678
11:25	20.337	0.708	0.454	335.167	0.674
11:26	20.278	0.738	0.459	334.810	0.677
11:27	20.357	0.705	0.457	334.827	0.676
11:28	20.386	0.670	0.459	334.821	0.678
11:29	20.271	0.739	0.458	334.801	0.676
11:30	20.310	0.751	0.366	332.236	0.605
11:31	20.687	0.486	0.065	310.307	0.255
11:32	19.662	1.129	0.243	308.279	0.493
11:33	20.597	0.553	0.462	329.093	0.680
11:34	20.713	0.468	0.466	331.295	0.682
11:35	20.585	0.542	0.466	332.214	0.683
11:36	20.343	0.695	0.462	332.829	0.680
11:37	20.257	0.758	0.462	333.410	0.680
11:38	20.319	0.718	0.463	333.740	0.680
11:39	20.302	0.734	0.462	333.754	0.680
11:40	20.284	0.743	0.463	333.759	0.680
11:41	20.318	0.718	0.461	333.743	0.679
11:42	20.244	0.766	0.464	333.629	0.681
11:43	20.261	0.749	0.465	332.958	0.682
11:44	20.267	0.753	0.464	332.844	0.681
11:45	20.230	0.770	0.462	332.823	0.680
11:46	20.215	0.782	0.461	332.864	0.679
11:47	20.227	0.772	0.464	333.091	0.681
11:48	20.251	0.770	0.464	333.697	0.681
11:49	20.277	0.746	0.461	333.523	0.679
11:50	20.297	0.726	0.460	333.740	0.678
11:51	20.280	0.750	0.458	334.040	0.677
11:52	20.296	0.737	0.460	334.815	0.678
11:53	20.324	0.711	0.458	334.815	0.677
11:54	20.230	0.777	0.458	335.426	0.677
11:55	20.277	0.753	0.456	336.080	0.675
11:56	20.336	0.704	0.458	336.764	0.677
11:57	20.262	0.761	0.456	336.767	0.675
11:58	20.449	0.645	0.457	336.775	0.676
11:59	20.409	0.652	0.458	337.392	0.677
12:00	20.287	0.743	0.457	337.774	0.676
12:01	20.278	0.749	0.456	337.746	0.676
12:02	20.250	0.764	0.458	338.000	0.677
12:03	20.299	0.744	0.455	338.362	0.675
12:04	20.392	0.672	0.454	338.765	0.673
12:05	20.384	0.671	0.455	338.766	0.675
12:06	20.268	0.751	0.453	338.775	0.673
12:07	20.271	0.753	0.455	338.774	0.674
12:08	20.314	0.729	0.456	338.783	0.675
12:09	20.319	0.731	0.454	338.774	0.674
12:10	20.323	0.716	0.457	338.827	0.676
12:11	20.368	0.692	0.457	338.773	0.676
12:12	20.339	0.714	0.456	338.777	0.675
12:13	20.359	0.691	0.454	338.774	0.674
12:14	20.413	0.659	0.457	338.767	0.676

Unit Down High LEL on system

REFERENCE METHOD RUN 1

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
12:15	20.352	0.697	0.456	338.757	0.675
12:16	20.359	0.696	0.457	338.761	0.676
12:17	20.372	0.685	0.457	338.747	0.676
12:18	20.310	0.726	0.457	338.774	0.676
12:19	20.331	0.706	0.459	338.761	0.678
12:20	20.353	0.700	0.456	338.191	0.675
12:21	20.314	0.721	0.455	337.766	0.675
12:22	20.354	0.691	0.458	337.776	0.677
12:23	20.374	0.683	0.455	337.765	0.675
12:24	20.343	0.696	0.457	337.764	0.676
12:25	20.368	0.687	0.459	337.751	0.677
12:26	20.369	0.684	0.454	337.774	0.674
12:27	20.371	0.682	0.458	337.756	0.677
12:28	20.376	0.676	0.458	337.062	0.676
12:29	20.387	0.668	0.456	336.749	0.675
12:30	20.410	0.654	0.458	336.773	0.677
12:31	20.449	0.627	0.461	336.759	0.679
12:32	20.464	0.615	0.459	336.763	0.678
12:33	20.466	0.611	0.460	336.774	0.678
12:34	20.447	0.623	0.462	336.766	0.680
12:35	20.456	0.620	0.461	336.161	0.679
12:36	20.446	0.623	0.462	335.729	0.680
12:37	20.423	0.636	0.461	334.942	0.679
12:38	20.405	0.648	0.462	334.817	0.680
12:39	20.412	0.644	0.466	334.043	0.683
12:40	20.390	0.656	0.459	333.343	0.677
12:41	20.369	0.667	0.416	330.421	0.645
12:42	20.394	0.655	0.414	328.428	0.644
12:43	20.404	0.647	0.406	327.318	0.637
12:44	20.411	0.642	0.408	326.756	0.638
12:45	20.409	0.641	0.409	326.184	0.639
12:46	20.384	0.655	0.406	325.096	0.637
12:47	20.378	0.658	0.410	324.776	0.640
12:48	20.380	0.658	0.411	324.778	0.641
12:49	20.404	0.643	0.409	323.816	0.639
12:50	20.390	0.650	0.405	323.340	0.636
12:51	20.411	0.638	0.402	323.020	0.634
12:52	20.419	0.632	0.394	322.539	0.628
12:53	20.424	0.630	0.405	321.940	0.636
12:54	20.415	0.635	0.407	321.730	0.638
12:55	20.401	0.642	0.408	321.724	0.639
12:56	20.397	0.645	0.402	320.774	0.634
12:57	20.395	0.645	0.400	320.682	0.632
12:58	20.394	0.646	0.402	320.681	0.634
12:59	20.388	0.649	0.402	320.679	0.634
13:00	20.411	0.636	0.408	320.554	0.639
13:01	20.410	0.635	0.404	319.781	0.635
13:02	20.413	0.634	0.404	319.734	0.636
13:03	20.405	0.638	0.407	319.628	0.638
13:04	20.388	0.647	0.402	318.951	0.634
13:05	20.361	0.662	0.403	318.897	0.635
13:06	20.345	0.673	0.409	318.865	0.639
13:07	20.302	0.701	0.403	319.089	0.635
13:08	20.332	0.686	0.399	318.117	0.632
13:09	20.361	0.667	0.400	317.959	0.632
13:10	20.386	0.652	0.400	317.782	0.633
13:11	20.402	0.642	0.403	317.780	0.635
13:12	20.389	0.648	0.403	317.764	0.635
13:13	20.386	0.649	0.398	317.774	0.631
13:14	20.377	0.653	0.407	317.823	0.638
13:15	20.382	0.650	0.405	318.169	0.637

REFERENCE METHOD RUN 1

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
13:16	20.393	0.643	0.401	317.771	0.633
13:17	20.385	0.648	0.402	317.763	0.634
13:18	20.389	0.645	0.404	317.767	0.636
13:19	20.394	0.640	0.398	317.769	0.631
13:20	20.412	0.630	0.398	317.670	0.631
13:21	20.406	0.633	0.400	317.394	0.633
13:22	20.380	0.648	0.405	317.775	0.636
13:23	20.373	0.652	0.405	317.717	0.637
13:24	20.381	0.648	0.409	317.677	0.640
13:25	20.380	0.647	0.409	317.688	0.640
13:26	20.388	0.641	0.397	316.843	0.630
13:27	20.387	0.641	0.407	316.747	0.638
13:28	20.392	0.638	0.403	316.748	0.635
13:29	20.400	0.633	0.401	316.742	0.633
13:30	20.384	0.642	0.401	316.073	0.633
13:31	20.364	0.654	0.405	315.989	0.636
13:32	20.290	0.694	0.398	316.836	0.631
13:33	20.924	0.362	0.110	301.070	0.331
13:34	19.766	0.997	0.058	285.448	0.241
13:35	20.119	0.838	0.383	303.814	0.619
13:36	20.642	0.499	0.407	310.713	0.638
13:37	20.623	0.507	0.431	312.965	0.656
13:38	20.447	0.606	0.448	314.611	0.669
13:39	20.200	0.761	0.470	317.440	0.685
13:40	20.155	0.798	0.472	318.253	0.687
13:41	20.185	0.775	0.470	318.954	0.685
13:42	20.248	0.736	0.430	317.543	0.655
13:43	20.226	0.741	0.449	318.772	0.670
13:44	20.210	0.750	0.463	319.615	0.680
13:45	20.237	0.734	0.452	319.620	0.672
13:46	20.205	0.746	0.443	319.334	0.666
13:47	20.231	0.729	0.446	319.910	0.668
13:48	20.213	0.737	0.448	320.411	0.669
13:49	20.215	0.734	0.445	320.488	0.667
13:50	20.228	0.725	0.454	321.723	0.674
13:51	20.195	0.736	0.452	322.149	0.672
13:52	20.125	0.761	0.464	323.695	0.681
13:53	20.113	0.761	0.462	324.793	0.680
13:54	19.976	0.804	0.461	325.623	0.679
13:55	20.035	0.788	0.462	326.444	0.680
13:56	20.141	0.739	0.461	326.767	0.679
13:57	20.009	0.780	0.459	327.703	0.677
13:58	19.892	0.824	0.459	328.700	0.678
13:59	19.979	0.793	0.461	329.410	0.679
14:00	19.943	0.803	0.459	330.310	0.678
14:01	20.046	0.759	0.455	331.715	0.675
14:02	20.035	0.752	0.455	332.642	0.675
14:03	20.022	0.756	0.456	333.481	0.675
14:04	20.036	0.750	0.452	334.366	0.673
14:05	20.041	0.748	0.456	334.922	0.675
14:06	20.007	0.765	0.454	335.802	0.673
14:07	20.030	0.757	0.453	336.038	0.673
14:08	20.057	0.747	0.456	336.784	0.675
14:09	20.087	0.733	0.451	337.283	0.671
14:10	20.079	0.728	0.452	337.863	0.672
14:11	20.122	0.726	0.451	338.773	0.671
14:12	20.159	0.708	0.452	339.041	0.672
14:13	20.174	0.703	0.451	339.731	0.671
14:14	20.194	0.694	0.451	339.741	0.672
14:15	20.226	0.684	0.452	340.153	0.672
14:16	20.226	0.681	0.452	340.767	0.672
14:17	20.251	0.671	0.449	340.788	0.670
14:18	20.260	0.670	0.451	340.792	0.672

Unit Down High LEL on system

REFERENCE METHOD RUN 1

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
14:19	20.239	0.680	0.451	340.738	0.671
14:20	20.279	0.665	0.451	340.784	0.671
14:21	20.291	0.658	0.450	339.765	0.671
14:22	20.311	0.648	0.451	339.742	0.671
14:23	20.336	0.639	0.454	339.128	0.674
14:24	20.338	0.643	0.454	338.779	0.673
14:25	20.330	0.652	0.454	338.773	0.674
14:26	20.352	0.642	0.458	337.777	0.677
14:27	20.357	0.642	0.456	337.771	0.675
14:28	20.361	0.642	0.457	336.841	0.676
14:29	20.381	0.636	0.458	336.768	0.677
14:30	20.413	0.620	0.459	336.115	0.677
14:31	20.409	0.622	0.456	335.173	0.676
14:32	20.413	0.621	0.461	334.715	0.679
14:33	20.415	0.621	0.462	333.749	0.680
14:34	20.405	0.626	0.460	333.251	0.678
14:35	20.380	0.642	0.461	332.491	0.679
14:36	20.380	0.643	0.441	330.897	0.664
14:37	20.362	0.654	0.412	328.151	0.642
14:38	20.393	0.636	0.415	327.573	0.644
14:39	20.397	0.633	0.415	326.270	0.644
14:40	20.386	0.638	0.412	325.552	0.642
14:41	20.401	0.632	0.411	324.789	0.641
14:42	20.400	0.631	0.417	324.731	0.646
14:43	20.407	0.628	0.405	323.444	0.636
14:44	20.405	0.628	0.410	323.329	0.640
14:45	20.391	0.636	0.406	322.724	0.637
14:46	20.385	0.640	0.406	321.947	0.638
14:47	20.372	0.646	0.405	321.574	0.636
14:48	20.375	0.644	0.409	320.968	0.640
14:49	20.381	0.640	0.406	320.685	0.637
14:50	20.370	0.647	0.406	320.255	0.637
14:51	20.377	0.643	0.411	320.086	0.641
14:52	20.376	0.644	0.412	319.853	0.642
14:53	20.332	0.664	0.407	319.577	0.638
14:54	20.342	0.660	0.417	319.602	0.646
14:55	20.317	0.671	0.414	319.209	0.643
14:56	20.353	0.661	0.410	318.777	0.640
14:57	20.338	0.661	0.418	318.775	0.647
14:58	20.311	0.675	0.409	318.192	0.639
14:59	20.315	0.673	0.408	318.079	0.639
15:00	20.325	0.669	0.411	317.940	0.641
15:01	20.326	0.668	0.411	318.010	0.641
15:02	20.328	0.667	0.417	318.176	0.646
15:03	20.320	0.670	0.414	318.142	0.643
15:04	20.336	0.663	0.416	317.829	0.645
15:05	20.347	0.656	0.413	317.760	0.643
15:06	20.352	0.654	0.418	318.096	0.647
15:07	20.338	0.661	0.417	318.356	0.646
15:08	20.332	0.665	0.419	317.770	0.647
15:09	20.329	0.665	0.411	317.781	0.641
15:10	20.330	0.665	0.412	317.783	0.642
15:11	20.347	0.654	0.410	317.782	0.640
15:12	20.341	0.656	0.410	317.770	0.640
15:13	20.347	0.652	0.412	317.773	0.642
15:14	20.335	0.656	0.411	317.759	0.641
15:15	20.354	0.645	0.413	317.775	0.643
15:16	20.352	0.647	0.410	317.769	0.640
15:17	20.349	0.648	0.416	317.773	0.645
15:18	20.338	0.654	0.413	317.770	0.643
15:19	20.335	0.657	0.413	317.930	0.643
15:20	20.337	0.654	0.414	317.774	0.644
15:21	20.347	0.650	0.414	317.973	0.643
15:22	20.337	0.655	0.407	317.768	0.638
15:23	20.356	0.644	0.412	317.812	0.642
15:24	20.358	0.641	0.415	317.770	0.645

REFERENCE METHOD RUN 1

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
15:25	20.335	0.653	0.408	317.387	0.639
15:26	20.345	0.651	0.409	317.115	0.639
15:27	20.360	0.641	0.407	316.981	0.638
15:28	20.372	0.635	0.408	316.748	0.639
15:29	20.361	0.639	0.411	316.746	0.641
15:30	20.352	0.646	0.410	316.747	0.640
15:31	20.341	0.652	0.406	315.902	0.637
15:32	20.350	0.648	0.405	315.732	0.637
15:33	20.357	0.645	0.409	315.724	0.639
15:34	20.357	0.644	0.409	315.949	0.640
15:35	20.348	0.650	0.413	315.730	0.642
15:36	20.344	0.651	0.414	316.579	0.644
15:37	20.339	0.654	0.402	315.715	0.634
15:38	20.346	0.650	0.406	315.727	0.637
15:39	20.360	0.643	0.410	316.300	0.640
15:40	20.360	0.642	0.406	315.724	0.637
15:41	20.372	0.636	0.410	315.730	0.640
15:42	20.369	0.638	0.406	315.728	0.637
15:43	20.362	0.642	0.409	315.724	0.639
15:44	20.344	0.652	0.413	315.724	0.643
15:45	20.354	0.646	0.405	315.278	0.637
15:46	20.351	0.649	0.407	314.741	0.638
15:47	20.350	0.649	0.407	315.384	0.638
15:48	20.343	0.652	0.402	314.690	0.634

CALIBRATION BIAS 01

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF
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System Response to Calibration Gasses (C_s)

C_{of} Zero gas	0.051	0.000							
C_{uf} Upscale gas	12.057	12.023							

Analyzer Calibration Error Responses (C_{Dir})

C_{oce} Zero gas	0.019	0.011	0.000	0.000
C_{mce} Upscale gas	12.084	12.028	0.000	0.000

Actual Upscale Gas Value (C_{MA})

C_{ma} Upscale gas	12.040	11.990
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Calibration Span Value (CS)

	21.160	20.780	5.000	1000.000
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System Bias as Percent of Calibration Span Value (SB) (5%)

Zero gas	0.2%	-0.1%	0.0%	0.0%
Upscale gas	-0.1%	0.0%	0.0%	0.0%

System Bias Status

Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK

Bias 00

Previous System Response to Calibration Gasses (C_s)

C_{oi} Zero gas	-0.027	0.055	0.000	0.000
C_{ui} Upscale gas	12.084	12.026	0.000	0.000

Drift Assessment as Percent of Calibration Span Value (D) (3%)

Zero gas	0.4%	-0.3%	0.0%	0.0%
Upscale gas	-0.1%	0.0%	0.0%	0.0%

Drift Assessment Status

Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK

012924 090032

14:51:33	19.141	0.640	0.406	314.681
14:51:48	9.087	0.382	0.404	314.675
14:52:03	3.049	0.138	0.408	314.670
14:52:18	1.006	0.046	0.403	314.695
14:52:33	0.346	0.015	0.404	314.696
14:52:48	0.137	0.005	0.415	314.700
14:53:03	0.069	0.001	0.405	314.700
14:53:18	0.046	0.000	0.422	314.696
14:53:33	0.038	-0.001	0.408	314.682
14:53:48	0.035	-0.002	0.414	314.702
14:54:03	0.713	0.006	0.409	314.700
14:54:18	10.522	0.295	0.398	314.687
14:54:33	17.082	0.532	0.406	314.686
14:54:48	15.456	3.302	0.409	314.695
14:55:03	13.244	8.893	0.407	314.710
14:55:18	12.536	10.973	0.395	314.536
14:55:33	12.307	11.626	0.404	314.120
14:55:48	12.232	11.872	0.404	314.324
14:56:03	12.208	11.959	0.415	314.178
14:56:18	12.200	11.989	0.403	314.718
14:56:33	12.197	12.005	0.404	314.694
14:56:48	12.188	12.013	0.395	313.806
14:57:03	12.070	12.018	0.406	313.639
14:57:18	12.057	12.020	0.401	313.612
14:57:33	12.058	12.023	0.409	313.976
14:57:48	12.057	12.025	0.409	314.609
14:58:03	12.058	12.027	0.398	313.982
14:58:18	12.335	11.911	0.399	313.564
14:58:33	16.209	7.228	0.405	313.585
14:58:48	18.827	2.918	0.400	313.633
14:59:03	19.691	1.417	0.406	313.600
14:59:18	19.981	0.878	0.400	313.598
14:59:33	20.082	0.741	0.408	314.179
15:00:03	20.123	0.674	0.410	314.672
15:00:18	20.121	0.668	0.406	314.679
15:00:33	20.114	0.670	0.399	314.701

Steri-Tech, Inc.
CleanAir Project No. 14799
Salinas, Puerto Rico
CRTO Stack

Jan 11, 2024
Start Time 14:51
Stop Time 15:03

CALIBRATION BIAS 01

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
15:00:48	20.109	0.671	0.407	314.724
15:01:03	20.117	0.667	0.404	314.693
15:01:18	20.123	0.662	0.404	314.184
15:01:33	20.113	0.665	0.408	314.628
15:01:48	20.109	0.666	0.407	314.692
15:02:03	20.114	0.663	0.397	314.704
15:02:18	20.118	0.661	0.402	314.678
15:02:33	20.118	0.660	0.410	314.702
15:02:48	20.111	0.664	0.402	314.684
15:03:03	20.107	0.665	0.403	314.681

REFERENCE METHOD RUN 2

Channel			1	2	3	4	
			O2	CO2	Δp	Ts	
			CRT0 Stack	CRT0 Stack	CRT0 Stack	CRT0 Stack	
			%dv	%dv	inWC	degF	
Calibration Checks							
Bias 01	C _{oi}	Initial zero	0.051	0.000	0.000	0.000	
Stop 15:03	C _{ui}	Initial upscale	12.057	12.023	0.000	0.000	
Bias 02	C _{of}	Final zero	0.092	0.023	0.000	0.000	
Start 23:00	C _{uf}	Final upscale	12.151	12.034	0.000	0.000	
	C _{ma}	Actual gas value	12.040	11.990			
Analyzer Averages (concentrations)							Average
C _{Avg}	Average conc.		20.113	0.727	0.450	326.575	0.669
C _{Gas}	Bias adjusted		20.054	0.714			
Clock Time (at end of sample period)							
012924 090032							
	17:30	20.140	0.651	0.416	312.649	SqRt Dp	0.645
	17:31	20.126	0.658	0.414	312.652		0.643
	17:32	20.112	0.668	0.416	312.659		0.645
	17:33	20.061	0.695	0.440	313.428		0.663
	17:34	20.040	0.719	0.456	315.204		0.675
	17:35	20.032	0.722	0.439	314.574		0.663
	17:36	19.997	0.745	0.459	315.771		0.677
	17:37	19.977	0.765	0.477	317.231		0.690
	17:38	19.983	0.769	0.475	317.761		0.689
	17:39	19.949	0.786	0.472	317.769		0.687
	17:40	20.014	0.751	0.470	318.406		0.685
	17:41	19.945	0.792	0.469	318.757		0.685
	17:42	19.987	0.771	0.470	319.533		0.685
	17:43	20.005	0.764	0.473	320.207		0.688
	17:44	19.999	0.764	0.473	320.799		0.688
	17:45	19.996	0.768	0.471	321.725		0.686
	17:46	20.014	0.763	0.471	322.769		0.686
	17:47	19.984	0.770	0.470	323.292		0.686
	17:48	20.022	0.768	0.467	324.357		0.683
	17:49	20.086	0.711	0.467	325.273		0.683
	17:50	20.057	0.731	0.465	326.035		0.682
	17:51	20.071	0.731	0.466	326.765		0.683
	17:52	20.029	0.761	0.465	327.593		0.682
	17:53	20.156	0.675	0.448	327.613		0.669
	17:54	20.567	0.458	0.161	313.291	Unit Down High LEL on system	0.401
	17:55	19.619	0.983	0.080	294.803		0.283
	17:56	20.016	0.793	0.451	317.457		0.672
	17:57	20.481	0.479	0.467	324.000		0.683
	17:58	20.460	0.486	0.467	325.635		0.683
	17:59	20.191	0.649	0.470	326.747		0.686
	18:00	20.181	0.663	0.469	327.557		0.685
	18:01	20.127	0.693	0.466	327.771		0.683
	18:02	20.094	0.718	0.471	327.775		0.686
	18:03	20.086	0.722	0.469	327.777		0.685
	18:04	20.010	0.772	0.466	327.477		0.683
	18:05	20.032	0.756	0.462	326.614		0.680
	18:06	20.010	0.772	0.462	326.205		0.680
	18:07	20.019	0.764	0.436	324.958		0.661
	18:08	20.031	0.758	0.458	324.963		0.677
	18:09	20.064	0.735	0.459	325.026		0.678
	18:10	19.963	0.804	0.465	325.536		0.682
	18:11	20.066	0.748	0.465	325.770		0.682
	18:12	20.054	0.748	0.467	326.111		0.683
	18:13	20.062	0.747	0.469	326.748		0.685
	18:14	20.072	0.739	0.468	326.754		0.684
	18:15	20.043	0.754	0.468	327.547		0.684
	18:16	19.998	0.784	0.466	327.780		0.682

REFERENCE METHOD RUN 2

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF		
18:17	20.234	0.674	0.327	323.335	Unit Down High LEL on system	0.572
18:18	20.406	0.505	0.049	300.745		0.220
18:19	19.451	1.148	0.268	302.226		0.518
18:20	20.406	0.544	0.468	322.244		0.684
18:21	20.466	0.496	0.471	324.855		0.686
18:22	20.439	0.511	0.471	326.089		0.687
18:23	20.155	0.696	0.399	325.176		0.631
18:24	20.578	0.433	0.087	305.331		0.296
18:25	19.408	1.163	0.182	296.923		0.426
18:26	20.297	0.620	0.472	320.372		0.687
18:27	20.495	0.483	0.473	323.419		0.688
18:28	20.318	0.582	0.474	324.413		0.689
18:29	20.132	0.701	0.474	324.793		0.689
18:30	20.102	0.729	0.462	324.448		0.679
18:31	20.032	0.763	0.466	323.598		0.683
18:32	19.992	0.801	0.462	323.416		0.680
18:33	20.021	0.776	0.438	321.796		0.662
18:34	20.024	0.776	0.433	320.627		0.658
18:35	19.953	0.814	0.455	321.468		0.675
18:36	20.060	0.757	0.427	319.569		0.654
18:37	19.982	0.799	0.459	321.119		0.678
18:38	20.039	0.762	0.426	319.301		0.653
18:39	20.084	0.739	0.424	319.529		0.651
18:40	20.043	0.761	0.458	320.679		0.677
18:41	20.088	0.740	0.472	322.531		0.687
18:42	20.027	0.779	0.474	323.319		0.688
18:43	20.087	0.741	0.473	324.149		0.688
18:44	20.078	0.744	0.471	324.793		0.686
18:45	20.039	0.772	0.471	325.416		0.687
18:46	20.044	0.764	0.470	326.238		0.685
18:47	20.032	0.781	0.469	326.770		0.685
18:48	20.118	0.726	0.467	327.434		0.683
18:49	20.089	0.741	0.468	327.773		0.684
18:50	20.036	0.775	0.466	328.715		0.682
18:51	20.090	0.746	0.464	328.816		0.681
18:52	20.097	0.746	0.469	329.056		0.685
18:53	20.105	0.727	0.464	329.748		0.681
18:54	20.118	0.729	0.465	329.748		0.682
18:55	20.097	0.741	0.466	330.338		0.682
18:56	20.055	0.764	0.464	330.813		0.681
18:57	20.111	0.729	0.466	331.269		0.683
18:58	20.092	0.746	0.465	331.803		0.682
18:59	20.119	0.724	0.464	331.820		0.681
19:00	20.143	0.709	0.465	331.823		0.682
19:01	20.132	0.718	0.463	331.808		0.680
19:02	20.144	0.710	0.463	331.863		0.680
19:03	20.140	0.711	0.465	332.024		0.682
19:04	20.155	0.704	0.467	331.982		0.683
19:05	20.160	0.699	0.467	332.018		0.683
19:06	20.110	0.729	0.466	332.202		0.683
19:07	20.111	0.735	0.465	331.813		0.682
19:08	20.140	0.714	0.467	331.801		0.683
19:09	20.128	0.724	0.465	331.805		0.682
19:10	20.079	0.758	0.467	331.821		0.683
19:11	20.122	0.737	0.466	331.802		0.683
19:12	20.150	0.713	0.464	331.800		0.681
19:13	20.120	0.735	0.465	331.800		0.682
19:14	20.130	0.730	0.467	331.818		0.683
19:15	20.166	0.703	0.468	331.815		0.684
19:16	20.147	0.710	0.468	331.788		0.684
19:17	20.111	0.734	0.468	331.812		0.684

REFERENCE METHOD RUN 2

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
19:18	20.098	0.746	0.463	331.418	0.681
19:19	20.082	0.757	0.468	331.748	0.684
19:20	20.067	0.775	0.466	330.825	0.683
19:21	20.145	0.715	0.466	331.104	0.683
19:22	20.120	0.736	0.466	330.813	0.683
19:23	20.128	0.727	0.467	330.846	0.684
19:24	20.131	0.730	0.466	330.808	0.682
19:25	20.089	0.753	0.467	330.815	0.683
19:26	20.067	0.767	0.466	331.468	0.683
19:27	20.055	0.776	0.464	331.613	0.681
19:28	20.098	0.749	0.465	331.801	0.682
19:29	20.048	0.779	0.466	331.812	0.682
19:30	20.065	0.774	0.467	331.803	0.683
19:31	20.162	0.710	0.469	331.799	0.685
19:32	20.176	0.697	0.467	331.810	0.683
19:33	20.193	0.682	0.463	331.830	0.681
19:34	20.050	0.775	0.465	332.065	0.682
19:35	20.140	0.725	0.467	332.766	0.684
19:36	20.113	0.735	0.465	332.839	0.682
19:37	20.065	0.766	0.464	332.838	0.681
19:38	20.107	0.747	0.463	332.843	0.681
19:39	20.149	0.716	0.466	332.848	0.682
19:40	20.126	0.729	0.466	332.842	0.682
19:41	20.157	0.716	0.465	332.835	0.682
19:42	20.199	0.685	0.469	332.891	0.685
19:43	20.183	0.694	0.463	332.841	0.680
19:44	20.165	0.705	0.467	332.830	0.683
19:45	20.161	0.712	0.464	332.834	0.681
19:46	20.181	0.698	0.466	332.832	0.683
19:47	20.138	0.723	0.465	332.827	0.682
19:48	20.056	0.775	0.465	332.849	0.682
19:49	20.140	0.732	0.469	332.834	0.685
19:50	20.166	0.709	0.466	332.152	0.683
19:51	20.139	0.727	0.465	331.799	0.682
19:52	20.125	0.739	0.471	331.793	0.686
19:53	20.026	0.797	0.466	331.797	0.683
19:54	20.147	0.734	0.467	331.796	0.683
19:55	20.173	0.708	0.467	331.787	0.683
19:56	20.060	0.774	0.466	331.017	0.682
19:57	20.049	0.779	0.470	330.991	0.685
19:58	20.044	0.804	0.468	331.286	0.684
19:59	20.172	0.697	0.468	330.804	0.684
20:00	20.076	0.774	0.466	331.080	0.683
20:01	20.081	0.773	0.467	331.753	0.683
20:02	20.099	0.751	0.468	331.430	0.684
20:03	20.167	0.718	0.465	331.791	0.682
20:04	20.038	0.796	0.466	331.794	0.683
20:05	20.133	0.729	0.464	331.784	0.681
20:06	20.143	0.739	0.467	331.952	0.683
20:07	20.229	0.676	0.465	332.821	0.682
20:08	20.169	0.697	0.467	332.835	0.683
20:09	20.159	0.727	0.468	332.823	0.684
20:10	20.044	0.791	0.469	332.831	0.685
20:11	20.082	0.777	0.467	332.825	0.683
20:12	20.089	0.770	0.464	332.818	0.682
20:13	20.095	0.764	0.463	332.831	0.681
20:14	20.094	0.760	0.467	332.822	0.683
20:15	20.099	0.766	0.464	332.802	0.681
20:16	20.111	0.759	0.462	332.817	0.680
20:17	20.114	0.753	0.467	332.830	0.684
20:18	20.076	0.773	0.467	333.710	0.683

REFERENCE METHOD RUN 2

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
20:19	20.062	0.779	0.464	333.713	0.681
20:20	20.087	0.774	0.466	333.714	0.683
20:21	20.107	0.754	0.465	333.714	0.682
20:22	20.120	0.744	0.463	334.331	0.681
20:23	20.127	0.743	0.463	334.240	0.681
20:24	20.095	0.766	0.465	334.773	0.682
20:25	20.108	0.762	0.464	334.799	0.681
20:26	20.119	0.754	0.464	334.778	0.681
20:27	20.114	0.752	0.462	334.773	0.680
20:28	20.129	0.749	0.464	334.773	0.681
20:29	20.127	0.748	0.461	334.934	0.679
20:30	20.121	0.751	0.464	335.598	0.681
20:31	20.093	0.768	0.463	335.752	0.680
20:32	20.115	0.759	0.461	335.766	0.679
20:33	20.140	0.744	0.465	335.765	0.682
20:34	20.140	0.740	0.462	335.754	0.680
20:35	20.108	0.763	0.464	335.758	0.681
20:36	20.120	0.755	0.462	335.766	0.680
20:37	20.081	0.779	0.463	335.755	0.680
20:38	20.099	0.775	0.465	335.755	0.682
20:39	20.096	0.774	0.461	335.771	0.679
20:40	20.067	0.787	0.462	335.762	0.680
20:41	20.067	0.790	0.462	335.764	0.680
20:42	20.102	0.772	0.462	335.772	0.680
20:43	20.127	0.753	0.463	335.750	0.681
20:44	20.159	0.732	0.462	335.768	0.680
20:45	20.119	0.759	0.460	335.942	0.679
20:46	20.173	0.723	0.464	336.724	0.681
20:47	20.161	0.732	0.466	336.742	0.683
20:48	20.176	0.724	0.464	336.745	0.681
20:49	20.190	0.713	0.466	336.730	0.682
20:50	20.221	0.693	0.463	336.311	0.680
20:51	20.247	0.675	0.464	335.816	0.681
20:52	20.258	0.664	0.464	335.751	0.681
20:53	20.242	0.672	0.464	335.760	0.681
20:54	20.248	0.671	0.468	335.758	0.684
20:55	20.260	0.663	0.467	334.822	0.684
20:56	20.277	0.649	0.472	334.230	0.687
20:57	20.080	0.773	0.469	333.724	0.685
20:58	20.146	0.743	0.470	333.411	0.686
20:59	20.180	0.716	0.469	332.807	0.685
21:00	20.216	0.693	0.470	331.920	0.686
21:01	20.241	0.670	0.471	331.467	0.686
21:02	20.235	0.670	0.473	330.778	0.688
21:03	20.228	0.673	0.473	330.599	0.687
21:04	20.251	0.658	0.474	329.715	0.689
21:05	20.249	0.658	0.475	329.706	0.689
21:06	20.254	0.656	0.477	328.928	0.691
21:07	20.249	0.659	0.479	328.764	0.692
21:08	20.239	0.664	0.478	327.858	0.691
21:09	20.240	0.664	0.461	326.786	0.679
21:10	20.211	0.681	0.429	323.747	0.655
21:11	20.222	0.764	0.249	316.167	0.499
21:12	20.150	0.689	0.034	294.681	0.184
21:13	19.689	1.037	0.329	303.317	0.573
21:14	20.467	0.541	0.419	315.030	0.647
21:15	20.448	0.544	0.447	316.886	0.669
21:16	20.181	0.697	0.472	319.170	0.687
21:17	20.016	0.812	0.462	318.767	0.680
21:18	20.093	0.770	0.447	318.588	0.668
21:19	20.017	0.804	0.473	320.116	0.688

REFERENCE METHOD RUN 2

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
21:20	20.039	0.795	0.469	320.199	0.685
21:21	20.018	0.798	0.472	320.639	0.687
21:22	20.039	0.783	0.468	320.632	0.684
21:23	20.055	0.768	0.462	320.427	0.680
21:24	20.047	0.767	0.465	320.799	0.682
21:25	20.063	0.757	0.460	320.745	0.678
21:26	20.045	0.758	0.467	321.864	0.683
21:27	20.114	0.723	0.475	322.691	0.689
21:28	20.033	0.743	0.476	323.581	0.690
21:29	19.851	0.805	0.472	323.836	0.687
21:30	19.730	0.846	0.474	324.745	0.688
21:31	19.901	0.790	0.468	325.147	0.684
21:32	19.960	0.766	0.471	325.729	0.686
21:33	19.954	0.760	0.471	326.361	0.686
21:34	19.948	0.763	0.467	326.770	0.683
21:35	19.867	0.781	0.468	327.710	0.684
21:36	19.842	0.791	0.468	327.720	0.684
21:37	19.832	0.792	0.466	328.542	0.683
21:38	19.799	0.803	0.467	329.157	0.684
21:39	19.875	0.779	0.465	329.688	0.682
21:40	19.950	0.756	0.467	330.443	0.684
21:41	19.914	0.754	0.463	330.779	0.680
21:42	19.871	0.775	0.465	331.401	0.682
21:43	19.903	0.766	0.464	331.744	0.681
21:44	19.898	0.769	0.461	332.053	0.679
21:45	19.903	0.769	0.463	332.798	0.681
21:46	19.964	0.743	0.463	332.801	0.680
21:47	19.963	0.740	0.461	333.542	0.679
21:48	19.968	0.746	0.464	333.698	0.681
21:49	20.025	0.728	0.463	333.696	0.681
21:50	20.019	0.730	0.461	334.487	0.679
21:51	19.992	0.733	0.463	334.696	0.680
21:52	20.049	0.713	0.464	334.770	0.681
21:53	20.009	0.726	0.463	334.769	0.681
21:54	20.010	0.729	0.464	334.745	0.681
21:55	20.016	0.735	0.464	334.718	0.681
21:56	20.065	0.716	0.465	334.258	0.682
21:57	20.090	0.709	0.463	333.678	0.681
21:58	20.134	0.692	0.464	333.695	0.681
21:59	20.156	0.685	0.464	333.694	0.682
22:00	20.173	0.681	0.466	333.085	0.683
22:01	20.186	0.679	0.466	332.805	0.683
22:02	20.209	0.669	0.467	332.256	0.683
22:03	20.220	0.666	0.470	331.759	0.686
22:04	20.224	0.671	0.470	331.756	0.686
22:05	20.210	0.685	0.473	330.900	0.688
22:06	20.243	0.667	0.473	330.736	0.687
22:07	20.252	0.662	0.471	329.691	0.686
22:08	20.248	0.665	0.474	329.334	0.688
22:09	20.246	0.667	0.475	328.658	0.690
22:10	20.240	0.672	0.475	327.710	0.689
22:11	20.215	0.686	0.446	325.682	0.668
22:12	20.225	0.682	0.423	322.949	0.651
22:13	20.233	0.678	0.423	322.114	0.650
22:14	20.224	0.685	0.419	321.073	0.647
22:15	20.220	0.689	0.417	319.952	0.646
22:16	20.233	0.681	0.420	319.388	0.648
22:17	20.237	0.678	0.418	318.733	0.646
22:18	20.210	0.686	0.428	318.570	0.655
22:19	20.150	0.708	0.425	317.720	0.652
22:20	20.160	0.713	0.430	317.043	0.656
22:21	20.171	0.707	0.427	316.687	0.654

REFERENCE METHOD RUN 2

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
22:22	20.177	0.702	0.433	316.412	0.658
22:23	20.150	0.715	0.429	315.876	0.655
22:24	20.143	0.720	0.431	315.667	0.657
22:25	20.125	0.731	0.430	315.102	0.655
22:26	20.169	0.707	0.425	314.643	0.652
22:27	20.183	0.700	0.425	314.644	0.652
22:28	20.192	0.694	0.430	314.658	0.656
22:29	20.194	0.693	0.424	314.652	0.651
22:30	20.193	0.694	0.427	314.163	0.653
22:31	20.181	0.701	0.427	313.700	0.653
22:32	20.175	0.704	0.422	313.561	0.650
22:33	20.190	0.695	0.427	313.558	0.653
22:34	20.183	0.699	0.422	313.563	0.650
22:35	20.182	0.701	0.422	313.552	0.649
22:36	20.197	0.693	0.422	313.552	0.650
22:37	20.203	0.690	0.419	313.557	0.648
22:38	20.212	0.685	0.418	313.573	0.646
22:39	20.221	0.681	0.421	313.561	0.649
22:40	20.214	0.684	0.421	313.551	0.649
22:41	20.219	0.681	0.419	313.547	0.648
22:42	20.221	0.681	0.420	313.064	0.648
22:43	20.209	0.687	0.416	312.859	0.645
22:44	20.174	0.707	0.418	312.620	0.646
22:45	20.198	0.698	0.416	312.622	0.645
22:46	20.217	0.686	0.418	312.620	0.646
22:47	20.215	0.686	0.416	312.626	0.645
22:48	20.220	0.683	0.416	312.631	0.645
22:49	20.218	0.684	0.416	312.587	0.645
22:50	20.231	0.677	0.416	312.251	0.645
22:51	20.221	0.682	0.414	311.729	0.644

CALIBRATION BIAS 02

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
System Response to Calibration Gasses (C_s)				
C _{of} Zero gas	0.092	0.023		
C _{uf} Upscale gas	12.151	12.034		
Analyzer Calibration Error Responses (C_{Dir})				
C _{oce} Zero gas	0.019	0.011	0.000	0.000
C _{mce} Upscale gas	12.084	12.028	0.000	0.000
Actual Upscale Gas Value (C_{MA})				
C _{ma} Upscale gas	12.040	11.990		
Calibration Span Value (CS)				
	21.160	20.780	5.000	1000.000
System Bias as Percent of Calibration Span Value (SB) (5%)				
Zero gas	0.3%	0.1%	0.0%	0.0%
Upscale gas	0.3%	0.0%	0.0%	0.0%
System Bias Status				
Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK
Bias 01	Previous System Response to Calibration Gasses (C_s)			
	C _{oi} Zero gas	0.051	0.000	0.000
	C _{ui} Upscale gas	12.057	12.023	0.000
	Drift Assessment as Percent of Calibration Span Value (D) (3%)			
	Zero gas	0.2%	0.1%	0.0%
	Upscale gas	0.4%	0.1%	0.0%
Drift Assessment Status				
	Zero gas	OK	OK	OK
	Upscale gas	OK	OK	OK

012924 090032

23:00:50	18.981	0.740	0.417	310.581
23:01:05	8.615	0.607	0.413	310.579
23:01:20	2.753	0.231	0.410	310.602
23:01:35	0.925	0.093	0.411	310.586
23:01:50	0.359	0.047	0.417	310.596
23:02:05	0.179	0.032	0.411	310.601
23:02:20	0.122	0.026	0.414	310.583
23:02:35	0.104	0.025	0.417	310.584
23:02:50	0.096	0.024	0.407	310.573
23:03:05	0.093	0.023	0.415	310.600
23:03:20	0.092	0.023	0.409	310.602
23:03:35	0.091	0.023	0.413	310.575
23:03:50	0.090	0.022	0.409	310.591
23:04:05	0.090	0.022	0.419	310.575
23:04:20	0.088	0.022	0.410	310.573
23:04:35	4.962	0.137	0.414	310.567
23:04:50	14.917	0.488	0.414	310.587
23:05:05	16.060	1.690	0.413	310.578
23:05:20	13.365	7.683	0.411	310.595
23:05:35	12.531	10.642	0.412	310.599
23:05:50	12.269	11.551	0.411	310.574
23:06:05	12.187	11.870	0.412	310.607
23:06:20	12.162	11.982	0.419	310.619
23:06:35	12.152	12.021	0.412	310.601
23:06:50	12.150	12.038	0.412	310.613
23:07:05	12.150	12.044	0.420	310.621
23:07:20	12.150	12.050	0.418	310.615
23:07:35	12.150	12.055	0.416	310.566
23:07:50	12.172	12.056	0.413	310.592
23:08:05	15.183	8.930	0.418	310.590
23:08:20	18.560	3.574	0.411	310.581
23:08:35	19.695	1.646	0.416	310.571
23:08:50	20.052	0.964	0.413	310.609
23:09:05	20.159	0.796	0.412	310.589
23:09:20	20.192	0.743	0.408	310.578

CALIBRATION ERROR

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
Instrument Information				
Manufacturer:	Servomex	Servomex		
Model:	1420C	1415C	CleanAir	CleanAir
Detection:	Paramagn	NDIR	NA	NA
Asset or Serial No:	208593	208208	204347	204347

Calibration Span Value (CS)

21.160 20.780 5.000 1000.000

System Response Time (seconds)

Manufacturer Certified Cylinder Value (C_v)

Zero	0.000	0.000
Low		
Mid	12.040	11.990
High	21.160	20.780

Actual gas to be used for bias checks

12.040 11.990

Cylinder ID

Zero	N2	N2
Low		
Mid	CC426832	CC426832
High	CC743547	CC743547

Analyzer Calibration Response (C_{Dir})

Zero	0.100	0.033						
Low	17.820	0.790						
Mid	12.158	12.191						
High	21.194	20.709						

Analyzer Calibration Error (ACE) (Limit = 2%, Method 25A limit = 5% of gas value)

Zero	0.5%	0.2%	N/A	N/A
Low	N/A	N/A	N/A	N/A
Mid	0.6%	1.0%	N/A	N/A
High	0.2%	-0.3%	N/A	N/A

Calibration Error Status

Zero	OK	OK	N/A	N/A
Low	N/A	N/A	N/A	N/A
Mid	OK	OK	N/A	N/A
High	OK	OK	N/A	N/A

012924 090622

08:03:34	20.262	0.564	0.409	309.531
08:03:49	20.095	0.796	0.403	309.510
08:04:04	20.140	0.738	0.406	309.565
08:04:19	13.224	0.835	0.405	309.531
08:04:34	4.353	0.386	0.405	309.548
08:04:49	1.431	0.153	0.405	309.549
08:05:04	0.516	0.073	0.406	309.562
08:05:19	0.231	0.047	0.409	309.552
08:05:34	0.142	0.039	0.405	309.549
08:05:49	0.113	0.036	0.413	309.550
08:06:04	0.103	0.033	0.405	309.522
08:06:19	0.099	0.033	0.406	309.543
08:06:34	0.098	0.032	0.401	309.539
08:06:49	0.095	0.032	0.404	309.496
08:07:04	0.097	0.033	0.409	309.530
08:07:19	0.095	0.032	0.408	309.573
08:07:34	2.777	0.085	0.405	309.552
08:07:49	13.393	0.446	0.400	309.546
08:08:04	17.886	0.628	0.401	309.556

CALIBRATION ERROR

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF
08:08:19	18.317	5.714	0.405	309.546
08:08:34	20.177	15.458	0.406	309.552
08:08:49	20.874	18.889	0.401	309.542
08:09:04	21.091	19.879	0.405	309.554
08:09:19	21.162	20.232	0.409	309.536
08:09:34	21.185	20.363	0.406	309.562
08:09:49	21.192	20.414	0.408	309.558
08:10:04	21.196	20.435	0.415	309.545
08:10:19	21.196	20.447	0.411	309.529
08:10:34	21.196	20.453	0.414	309.565
08:10:49	21.198	20.591	0.405	309.575
08:11:04	21.201	20.705	0.407	309.533
08:11:19	21.189	20.704	0.408	309.575
08:11:34	21.196	20.709	0.408	309.569
08:11:49	21.196	20.713	0.409	309.538
08:12:04	21.196	20.714	0.409	309.603
08:12:19	20.831	16.049	0.409	309.581
08:12:34	20.394	6.212	0.405	309.538
08:12:49	20.014	3.078	0.416	309.530
08:13:04	16.020	7.948	0.408	309.541
08:13:19	13.366	10.904	0.406	309.538
08:13:34	12.534	11.778	0.404	309.540
08:13:49	12.277	12.081	0.413	309.538
08:14:04	12.196	12.179	0.410	309.527
08:14:19	12.170	12.208	0.402	309.523
08:14:34	12.161	12.189	0.410	309.519
08:14:49	12.158	12.191	0.409	309.526
08:15:04	12.156	12.192	0.409	309.508
08:15:19	12.155	12.193	0.403	309.551
08:15:34	12.154	12.192	0.402	309.557
08:15:49	12.153	12.191	0.410	309.553

CALIBRATION BIAS 0 B

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRT0 Stack	CRT0 Stack	CRT0 Stack	CRT0 Stack
	%dv	%dv	inWC	degF
System Response to Calibration Gasses (C_s)				
C _{of} Zero gas	0.085	0.049		
C _{uf} Upscale gas	12.153	12.049		
Analyzer Calibration Error Responses (C_{Dir})				
C _{oce} Zero gas	0.100	0.033	0.000	0.000
C _{mce} Upscale gas	12.158	12.191	0.000	0.000
Actual Upscale Gas Value (C_{MA})				
C _{ma} Upscale gas	12.040	11.990		
Calibration Span Value (CS)				
	21.160	20.780	5.000	1000.000
System Bias as Percent of Calibration Span Value (SB) (5%)				
Zero gas	-0.1%	0.1%	0.0%	0.0%
Upscale gas	0.0%	-0.7%	0.0%	0.0%
System Bias Status				
Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK
Previous System Response to Calibration Gasses (C_s)				
C _{oi} Zero gas	N/A	N/A	N/A	N/A
C _{ui} Upscale gas	N/A	N/A	N/A	N/A
Drift Assessment as Percent of Calibration Span Value (D) (3%)				
Zero gas	N/A	N/A	N/A	N/A
Upscale gas	N/A	N/A	N/A	N/A
Drift Assessment Status				
Zero gas	N/A	N/A	N/A	N/A
Upscale gas	N/A	N/A	N/A	N/A

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08:16:31	12.154	12.192	0.412	309.572
08:16:46	12.156	12.194	0.407	309.553
08:17:01	12.155	12.196	0.409	309.531
08:17:16	12.156	12.194	0.410	309.560
08:17:31	12.155	12.145	0.416	309.571
08:17:46	12.154	12.049	0.409	309.528
08:18:01	12.152	12.050	0.412	309.573
08:18:16	12.153	12.049	0.406	309.515
08:18:31	12.152	12.049	0.408	309.536
08:18:46	13.046	11.419	0.404	309.568
08:19:01	17.323	5.685	0.412	309.522
08:19:16	19.331	2.322	0.407	309.537
08:19:31	19.950	1.185	0.404	309.566
08:19:46	20.134	0.847	0.400	309.539
08:20:01	20.184	0.765	0.397	309.561
08:20:16	18.028	1.066	0.406	309.533
08:20:31	7.259	0.939	0.407	309.558
08:20:46	2.278	0.358	0.406	309.570
08:21:01	0.771	0.160	0.408	309.536
08:21:16	0.314	0.092	0.403	309.527
08:21:31	0.175	0.068	0.408	309.542
08:21:46	0.131	0.059	0.413	309.552
08:22:01	0.118	0.054	0.409	309.533
08:22:16	0.113	0.052	0.400	309.554
08:22:31	0.086	0.050	0.397	309.540
08:22:46	0.085	0.049	0.408	309.536
08:23:01	0.084	0.047	0.411	309.534
08:23:16	0.083	0.046	0.412	309.633
08:23:31	3.757	0.126	0.406	310.384
08:23:46	14.245	0.487	0.405	310.176
08:24:01	18.351	0.639	0.406	310.291
08:24:16	19.599	0.688	0.403	310.568
08:24:31	19.974	0.709	0.405	310.574

REFERENCE METHOD RUN 3

Channel			1	2	3	4
			O2	CO2	Δp	Ts
			CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
			%dv	%dv	inWC	degF
Calibration Checks						
Bias 00	C _{oi}	Initial zero	0.085	0.049	0.000	0.000
Stop 08:24	C _{ui}	Initial upscale	12.153	12.049	0.000	0.000
Bias 01	C _{of}	Final zero	0.122	0.056	0.000	0.000
Start 15:07	C _{uf}	Final upscale	12.130	11.938	0.000	0.000
	C _{ma}	Actual gas value	12.040	11.990		
Analyzer Averages (concentrations)						Average
C _{Avg}	Average conc.		20.166	0.721	0.443	326.931
C _{Gas}	Bias adjusted		20.065	0.671		0.662

Clock Time (at end of sample period)

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					SqRt Dp	
09:10	20.204	0.676	0.408	310.621		0.639
09:11	20.178	0.690	0.407	310.617		0.638
09:12	20.178	0.691	0.408	310.610		0.639
09:13	20.189	0.684	0.402	310.355		0.634
09:14	20.205	0.676	0.418	310.941		0.646
09:15	20.194	0.684	0.435	312.160		0.660
09:16	20.133	0.723	0.449	313.324		0.670
09:17	20.066	0.765	0.471	314.882		0.687
09:18	20.071	0.769	0.464	315.387		0.681
09:19	20.028	0.795	0.470	315.100		0.685
09:20	20.009	0.804	0.471	315.734		0.686
09:21	20.034	0.799	0.473	316.395		0.688
09:22	20.067	0.781	0.474	316.702		0.689
09:23	20.003	0.813	0.467	317.281		0.684
09:24	20.040	0.811	0.473	318.159		0.688
09:25	20.082	0.779	0.469	318.955		0.685
09:26	20.037	0.805	0.467	319.584		0.683
09:27	20.080	0.786	0.464	320.675		0.681
09:28	20.124	0.762	0.468	321.972		0.684
09:29	20.113	0.765	0.468	323.022		0.684
09:30	20.123	0.761	0.451	323.455		0.672
09:31	20.661	0.479	0.166	309.640		0.408
09:32	19.809	0.921	0.047	289.001		0.217
09:33	19.904	0.935	0.420	309.151		0.648
09:34	20.546	0.506	0.467	319.946		0.683
09:35	20.570	0.490	0.464	322.019		0.681
09:36	20.476	0.540	0.469	323.314		0.685
09:37	20.202	0.707	0.466	324.664		0.683
09:38	20.209	0.712	0.463	325.070		0.681
09:39	20.248	0.697	0.463	325.720		0.680
09:40	20.188	0.730	0.466	325.729		0.682
09:41	20.159	0.753	0.467	325.384		0.683
09:42	20.149	0.759	0.449	324.197		0.670
09:43	20.159	0.750	0.446	322.867		0.668
09:44	20.098	0.792	0.458	323.620		0.676
09:45	20.152	0.760	0.450	322.590		0.671
09:46	20.167	0.756	0.431	321.856		0.657
09:47	20.206	0.724	0.429	320.529		0.655
09:48	20.201	0.727	0.449	321.434		0.670
09:49	20.161	0.756	0.451	321.748		0.672
09:50	20.142	0.773	0.402	321.509		0.634
09:51	20.960	0.311	0.094	303.053		0.306
09:52	20.823	0.319	0.031	285.657		0.175
09:53	19.415	1.225	0.129	283.847		0.359
09:54	20.274	0.708	0.416	307.993		0.645
09:55	20.564	0.515	0.455	314.201		0.675
09:56	20.573	0.507	0.471	318.085		0.687

REFERENCE METHOD RUN 3

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
09:57	20.452	0.580	0.472	319.809	0.687
09:58	20.277	0.685	0.472	320.672	0.687
09:59	20.203	0.735	0.470	321.225	0.686
10:00	20.166	0.760	0.464	321.480	0.681
10:01	20.155	0.769	0.426	318.910	0.652
10:02	20.161	0.758	0.430	317.939	0.656
10:03	20.149	0.775	0.446	318.602	0.668
10:04	20.190	0.739	0.454	318.019	0.674
10:05	20.134	0.771	0.446	317.396	0.668
10:06	20.134	0.774	0.459	317.787	0.678
10:07	20.112	0.785	0.460	318.079	0.678
10:08	20.085	0.800	0.461	318.567	0.679
10:09	20.083	0.802	0.460	318.713	0.678
10:10	20.020	0.843	0.465	319.438	0.682
10:11	20.146	0.768	0.453	319.686	0.673
10:12	20.154	0.763	0.469	320.634	0.685
10:13	20.153	0.761	0.469	321.447	0.685
10:14	20.105	0.792	0.467	322.597	0.684
10:15	20.123	0.785	0.464	323.320	0.681
10:16	20.144	0.769	0.466	324.677	0.683
10:17	20.182	0.747	0.465	325.476	0.682
10:18	20.212	0.727	0.464	325.825	0.681
10:19	20.242	0.706	0.464	326.704	0.681
10:20	20.226	0.717	0.463	327.158	0.680
10:21	20.239	0.716	0.460	327.740	0.679
10:22	20.226	0.730	0.463	328.644	0.681
10:23	20.254	0.711	0.464	328.982	0.681
10:24	20.219	0.731	0.460	329.701	0.678
10:25	20.138	0.786	0.462	329.708	0.680
10:26	20.139	0.777	0.461	330.401	0.679
10:27	20.104	0.806	0.459	329.706	0.677
10:28	20.163	0.767	0.460	329.998	0.678
10:29	20.186	0.745	0.462	330.482	0.680
10:30	20.218	0.728	0.460	330.543	0.678
10:31	20.145	0.766	0.460	330.774	0.678
10:32	20.214	0.731	0.460	330.761	0.678
10:33	20.232	0.711	0.463	331.311	0.680
10:34	20.164	0.753	0.461	331.038	0.679
10:35	20.225	0.714	0.464	331.323	0.681
10:36	20.185	0.735	0.458	331.774	0.677
10:37	20.165	0.753	0.460	331.769	0.678
10:38	20.236	0.704	0.462	331.767	0.680
10:39	20.206	0.723	0.461	331.767	0.679
10:40	20.199	0.728	0.462	331.894	0.680
10:41	20.209	0.719	0.461	332.295	0.679
10:42	20.156	0.751	0.463	332.810	0.680
10:43	20.116	0.778	0.460	332.066	0.678
10:44	20.151	0.756	0.460	331.776	0.678
10:45	20.149	0.751	0.463	332.347	0.680
10:46	20.161	0.754	0.461	332.652	0.679
10:47	20.174	0.743	0.461	332.805	0.679
10:48	20.144	0.762	0.462	332.122	0.679
10:49	20.258	0.689	0.461	332.071	0.679
10:50	20.161	0.746	0.461	332.618	0.679
10:51	20.156	0.751	0.464	332.816	0.681
10:52	20.148	0.758	0.461	332.787	0.679
10:53	20.117	0.778	0.462	333.107	0.680
10:54	20.105	0.784	0.460	333.020	0.678
10:55	20.105	0.793	0.461	332.816	0.679
10:56	20.154	0.750	0.460	332.815	0.678
10:57	20.061	0.816	0.460	332.817	0.679

REFERENCE METHOD RUN 3

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
10:58	20.165	0.754	0.457	332.810	0.676
10:59	20.149	0.753	0.459	332.937	0.678
11:00	20.133	0.764	0.458	333.423	0.677
11:01	20.190	0.728	0.459	333.696	0.678
11:02	20.208	0.719	0.458	333.696	0.677
11:03	20.228	0.698	0.460	333.797	0.678
11:04	20.234	0.695	0.458	334.762	0.677
11:05	20.227	0.703	0.459	334.770	0.677
11:06	20.237	0.695	0.459	335.258	0.678
11:07	20.238	0.689	0.460	335.683	0.678
11:08	20.201	0.711	0.458	335.078	0.677
11:09	20.144	0.752	0.459	334.763	0.678
11:10	20.225	0.705	0.460	334.754	0.678
11:11	20.231	0.694	0.457	334.775	0.676
11:12	20.252	0.679	0.463	333.955	0.680
11:13	20.235	0.690	0.463	333.703	0.680
11:14	20.199	0.713	0.464	333.536	0.681
11:15	20.226	0.700	0.464	332.949	0.681
11:16	20.200	0.711	0.462	332.618	0.680
11:17	20.149	0.745	0.463	331.763	0.680
11:18	20.152	0.745	0.465	331.766	0.682
11:19	20.149	0.746	0.464	331.767	0.681
11:20	20.127	0.760	0.462	331.768	0.680
11:21	20.146	0.754	0.463	331.761	0.680
11:22	20.198	0.718	0.464	331.765	0.681
11:23	20.171	0.730	0.464	331.768	0.681
11:24	20.176	0.736	0.465	331.771	0.682
11:25	20.192	0.725	0.467	331.775	0.683
11:26	20.178	0.728	0.467	331.781	0.683
11:27	20.183	0.733	0.466	331.768	0.683
11:28	20.208	0.716	0.466	331.769	0.682
11:29	20.215	0.709	0.467	331.768	0.684
11:30	20.225	0.702	0.466	331.770	0.683
11:31	20.191	0.725	0.465	331.756	0.682
11:32	20.198	0.727	0.466	331.775	0.682
11:33	20.254	0.690	0.468	331.769	0.684
11:34	20.258	0.683	0.464	331.646	0.681
11:35	20.253	0.688	0.466	331.585	0.683
11:36	20.252	0.690	0.465	331.515	0.682
11:37	20.227	0.706	0.464	331.783	0.681
11:38	20.204	0.722	0.468	331.191	0.684
11:39	20.179	0.742	0.466	331.153	0.682
11:40	20.176	0.742	0.469	331.109	0.685
11:41	20.151	0.765	0.467	330.786	0.683
11:42	20.156	0.762	0.465	330.764	0.682
11:43	20.173	0.756	0.464	330.782	0.682
11:44	20.161	0.761	0.466	330.779	0.683
11:45	20.077	0.811	0.466	330.793	0.683
11:46	20.175	0.768	0.467	330.793	0.683
11:47	20.211	0.720	0.450	330.655	0.671
11:48	20.651	0.520	0.166	316.641	0.408
11:49	19.961	0.853	0.038	296.080	0.194
11:50	19.839	1.001	0.391	312.901	0.625
11:51	20.585	0.510	0.469	325.486	0.685
11:52	20.585	0.504	0.471	327.061	0.687
11:53	20.454	0.580	0.468	328.215	0.684
11:54	20.309	0.673	0.467	329.069	0.683
11:55	20.166	0.766	0.466	329.179	0.683
11:56	20.194	0.739	0.463	329.707	0.681
11:57	20.093	0.815	0.465	329.708	0.682
11:58	20.107	0.806	0.465	329.722	0.682

REFERENCE METHOD RUN 3

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
11:59	20.081	0.815	0.465	329.291	0.682
12:00	20.047	0.846	0.457	328.673	0.676
12:01	20.160	0.767	0.458	327.744	0.677
12:02	20.096	0.805	0.456	327.740	0.675
12:03	20.067	0.816	0.459	327.981	0.677
12:04	20.088	0.806	0.461	328.780	0.679
12:05	20.077	0.812	0.464	329.437	0.682
12:06	20.122	0.785	0.465	329.711	0.682
12:07	20.092	0.799	0.462	329.711	0.680
12:08	20.234	0.712	0.458	330.693	0.677
12:09	20.089	0.796	0.464	331.277	0.681
12:10	20.179	0.758	0.462	331.903	0.680
12:11	20.213	0.716	0.464	332.819	0.682
12:12	20.161	0.760	0.458	333.204	0.677
12:13	20.154	0.755	0.458	333.704	0.677
12:14	20.159	0.761	0.460	334.783	0.678
12:15	20.202	0.725	0.460	335.489	0.679
12:16	20.234	0.708	0.459	335.717	0.677
12:17	20.234	0.702	0.458	335.753	0.677
12:18	20.251	0.698	0.458	335.753	0.676
12:19	20.276	0.678	0.458	335.763	0.677
12:20	20.257	0.690	0.461	335.758	0.679
12:21	20.271	0.684	0.457	335.778	0.676
12:22	20.237	0.704	0.458	335.760	0.677
12:23	20.252	0.696	0.458	335.643	0.677
12:24	20.250	0.684	0.459	335.189	0.677
12:25	20.218	0.723	0.463	334.769	0.680
12:26	20.132	0.763	0.461	334.776	0.679
12:27	20.225	0.705	0.459	334.065	0.678
12:28	20.143	0.756	0.464	333.661	0.681
12:29	20.179	0.730	0.461	332.965	0.679
12:30	20.222	0.711	0.463	332.810	0.681
12:31	20.180	0.738	0.460	332.056	0.678
12:32	20.138	0.755	0.463	331.775	0.680
12:33	20.205	0.717	0.464	331.948	0.681
12:34	20.139	0.751	0.461	331.786	0.679
12:35	20.171	0.726	0.460	331.901	0.678
12:36	20.187	0.730	0.465	332.819	0.682
12:37	20.216	0.697	0.464	332.833	0.681
12:38	20.215	0.698	0.461	332.584	0.679
12:39	20.186	0.714	0.461	332.802	0.679
12:40	20.155	0.743	0.464	332.805	0.681
12:41	20.181	0.731	0.459	332.070	0.677
12:42	20.206	0.709	0.465	331.889	0.682
12:43	20.236	0.693	0.465	332.679	0.682
12:44	20.226	0.697	0.466	332.805	0.683
12:45	20.203	0.709	0.464	332.831	0.681
12:46	20.197	0.719	0.463	332.403	0.680
12:47	20.190	0.720	0.463	331.803	0.681
12:48	20.231	0.697	0.465	331.794	0.682
12:49	20.254	0.677	0.462	331.788	0.680
12:50	20.169	0.726	0.466	331.788	0.683
12:51	20.196	0.714	0.464	331.782	0.681
12:52	20.130	0.760	0.465	331.784	0.682
12:53	20.096	0.789	0.461	331.774	0.679
12:54	20.235	0.695	0.464	331.795	0.681
12:55	20.182	0.725	0.466	331.779	0.682
12:56	20.166	0.734	0.466	331.787	0.683
12:57	20.149	0.747	0.464	331.781	0.681
12:58	20.160	0.742	0.464	331.195	0.682
12:59	20.167	0.736	0.464	331.240	0.681

REFERENCE METHOD RUN 3

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
13:00	20.061	0.804	0.461	331.762	0.679
13:01	20.076	0.803	0.464	331.790	0.681
13:02	20.082	0.800	0.464	331.763	0.681
13:03	20.083	0.797	0.462	331.785	0.680
13:04	20.030	0.831	0.462	332.600	0.680
13:05	20.060	0.814	0.463	332.889	0.681
13:06	20.237	0.704	0.461	333.707	0.679
13:07	20.300	0.653	0.460	333.717	0.679
13:08	20.312	0.640	0.460	333.713	0.678
13:09	20.325	0.631	0.462	334.688	0.680
13:10	20.326	0.629	0.459	334.771	0.678
13:11	20.337	0.623	0.462	334.760	0.680
13:12	20.347	0.616	0.459	334.760	0.677
13:13	20.344	0.617	0.461	334.787	0.679
13:14	20.343	0.617	0.461	334.099	0.679
13:15	20.317	0.632	0.462	333.695	0.680
13:16	20.312	0.634	0.466	333.082	0.683
13:17	20.292	0.646	0.464	332.401	0.681
13:18	20.139	0.735	0.466	331.761	0.683
13:19	20.173	0.732	0.447	330.029	0.669
13:20	20.041	0.810	0.460	329.712	0.678
13:21	20.120	0.782	0.376	326.843	0.613
13:22	20.995	0.258	0.072	305.567	0.268
13:23	21.018	0.196	0.030	290.280	0.172
13:24	19.503	1.116	0.078	286.178	0.280
13:25	20.095	0.802	0.407	308.760	0.638
13:26	20.517	0.519	0.415	314.997	0.644
13:27	20.492	0.529	0.422	316.749	0.649
13:28	20.304	0.632	0.462	320.057	0.680
13:29	20.101	0.764	0.456	321.602	0.675
13:30	20.082	0.768	0.465	322.706	0.682
13:31	20.071	0.769	0.467	323.703	0.683
13:32	20.006	0.794	0.466	324.419	0.683
13:33	20.117	0.741	0.440	323.242	0.663
13:34	20.131	0.727	0.420	321.773	0.648
13:35	20.084	0.735	0.431	322.278	0.657
13:36	20.106	0.731	0.422	321.736	0.650
13:37	20.114	0.717	0.428	321.926	0.654
13:38	20.009	0.754	0.446	323.631	0.668
13:39	19.987	0.765	0.465	324.442	0.682
13:40	19.885	0.787	0.468	325.453	0.684
13:41	19.781	0.826	0.465	325.784	0.682
13:42	19.930	0.767	0.467	326.631	0.683
13:43	19.832	0.790	0.468	326.788	0.684
13:44	19.795	0.810	0.465	327.696	0.682
13:45	19.773	0.811	0.464	327.965	0.681
13:46	19.736	0.821	0.462	328.778	0.680
13:47	19.772	0.806	0.464	328.825	0.681
13:48	19.759	0.806	0.462	329.700	0.680
13:49	19.894	0.766	0.461	330.399	0.679
13:50	19.845	0.770	0.460	331.104	0.678
13:51	19.890	0.757	0.459	331.923	0.677
13:52	19.984	0.720	0.458	332.809	0.677
13:53	19.889	0.751	0.459	333.603	0.678
13:54	19.982	0.726	0.454	333.912	0.674
13:55	19.819	0.769	0.457	334.788	0.676
13:56	19.838	0.772	0.458	335.338	0.677
13:57	19.921	0.748	0.457	335.768	0.676
13:58	19.912	0.748	0.455	336.579	0.675
13:59	19.940	0.740	0.458	336.380	0.676
14:00	20.015	0.713	0.456	336.741	0.675
14:01	19.978	0.719	0.456	336.737	0.675

REFERENCE METHOD RUN 3

Channel	1 O2 CRTO Stack %dv	2 CO2 CRTO Stack %dv	3 Δp CRTO Stack inWC	4 Ts CRTO Stack degF	
14:02	19.982	0.721	0.457	336.726	0.676
14:03	19.985	0.724	0.457	336.731	0.676
14:04	19.969	0.731	0.457	336.726	0.676
14:05	20.004	0.724	0.457	336.739	0.676
14:06	20.032	0.712	0.457	336.739	0.676
14:07	20.049	0.708	0.456	336.735	0.675
14:08	20.059	0.705	0.455	336.732	0.675
14:09	20.101	0.691	0.455	336.729	0.675
14:10	20.130	0.680	0.457	336.735	0.676
14:11	20.161	0.670	0.458	336.161	0.676
14:12	20.152	0.672	0.460	336.338	0.678
14:13	20.125	0.683	0.458	335.761	0.677
14:14	20.132	0.687	0.462	335.758	0.680
14:15	20.203	0.669	0.461	335.340	0.679
14:16	20.232	0.661	0.462	334.781	0.680
14:17	20.265	0.648	0.460	334.396	0.678
14:18	20.264	0.647	0.463	333.737	0.681
14:19	20.258	0.648	0.470	333.704	0.685
14:20	20.255	0.651	0.462	333.304	0.680
14:21	20.274	0.638	0.465	332.833	0.682
14:22	20.272	0.638	0.465	331.787	0.682
14:23	20.270	0.638	0.469	331.629	0.684
14:24	20.235	0.655	0.439	329.974	0.662
14:25	20.196	0.674	0.422	327.096	0.650
14:26	20.225	0.657	0.413	326.206	0.642
14:27	20.229	0.652	0.419	325.225	0.647
14:28	20.199	0.667	0.417	324.298	0.646
14:29	20.191	0.671	0.416	323.441	0.645
14:30	20.194	0.668	0.409	322.711	0.640
14:31	20.192	0.668	0.408	321.875	0.638
14:32	20.155	0.676	0.422	321.800	0.650
14:33	20.109	0.697	0.423	321.753	0.650
14:34	20.166	0.679	0.422	320.645	0.650
14:35	20.148	0.685	0.423	320.553	0.651
14:36	20.148	0.684	0.422	319.908	0.650
14:37	20.140	0.691	0.424	319.686	0.651
14:38	20.137	0.691	0.423	319.498	0.650
14:39	20.137	0.690	0.419	318.727	0.647
14:40	20.124	0.697	0.422	319.261	0.649
14:41	20.129	0.693	0.424	318.982	0.651
14:42	20.133	0.691	0.421	318.767	0.649
14:43	20.139	0.689	0.422	319.078	0.650
14:44	20.139	0.689	0.427	318.789	0.654
14:45	20.157	0.680	0.423	318.723	0.650
14:46	20.174	0.674	0.426	318.943	0.652
14:47	20.172	0.678	0.425	318.718	0.652
14:48	20.173	0.680	0.427	318.992	0.654
14:49	20.171	0.683	0.423	318.778	0.650
14:50	20.185	0.676	0.424	318.457	0.651
14:51	20.181	0.676	0.423	318.307	0.650
14:52	20.184	0.675	0.420	318.266	0.648
14:53	20.182	0.675	0.419	317.959	0.647
14:54	20.169	0.681	0.418	317.960	0.647
14:55	20.166	0.684	0.417	318.250	0.646
14:56	20.171	0.682	0.421	317.727	0.649
14:57	20.166	0.683	0.413	317.484	0.642
14:58	20.179	0.676	0.412	317.720	0.642
14:59	20.182	0.675	0.407	317.493	0.638
15:00	20.198	0.665	0.414	317.645	0.643
15:01	20.184	0.672	0.406	316.752	0.637
15:02	20.183	0.674	0.413	316.944	0.642
15:03	20.193	0.668	0.422	317.480	0.649
15:04	20.180	0.676	0.414	316.786	0.643
15:05	20.184	0.676	0.415	316.698	0.644

CALIBRATION BIAS 03

Channel	1	2	3	4
	O2	CO2	Δp	Ts
	CRTO Stack	CRTO Stack	CRTO Stack	CRTO Stack
	%dv	%dv	inWC	degF
System Response to Calibration Gasses (C_S)				
C _{of} Zero gas	0.122	0.056		
C _{uf} Upscale gas	12.130	11.938		
Analyzer Calibration Error Responses (C_{Dir})				
C _{oce} Zero gas	0.100	0.033	0.000	0.000
C _{mce} Upscale gas	12.158	12.191	0.000	0.000
Actual Upscale Gas Value (C_{MA})				
C _{ma} Upscale gas	12.040	11.990		
Calibration Span Value (CS)				
	21.160	20.780	5.000	1000.000
System Bias as Percent of Calibration Span Value (SB) (5%)				
Zero gas	0.1%	0.1%	0.0%	0.0%
Upscale gas	-0.1%	-1.2%	0.0%	0.0%
System Bias Status				
Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK
Bias 00 Previous System Response to Calibration Gases (C_S)				
C _{oi} Zero gas	0.085	0.049	0.000	0.000
C _{ui} Upscale gas	12.153	12.049	0.000	0.000
Drift Assessment as Percent of Calibration Span Value (D) (3%)				
Zero gas	0.2%	0.0%	0.0%	0.0%
Upscale gas	-0.1%	-0.5%	0.0%	0.0%
Drift Assessment Status				
Zero gas	OK	OK	OK	OK
Upscale gas	OK	OK	OK	OK
012924 090622				
15:07:26	20.192	0.673	0.415	316.693
15:07:41	17.500	2.440	0.411	316.714
15:07:56	13.833	8.403	0.422	316.710
15:08:11	12.650	10.853	0.413	316.722
15:08:26	12.291	11.574	0.421	316.705
15:08:41	12.180	11.832	0.423	316.712
15:08:56	12.141	11.915	0.415	316.716
15:09:11	12.127	11.945	0.408	316.469
15:09:26	12.122	11.954	0.425	316.688
15:09:41	12.119	11.957	0.410	316.714
15:09:56	13.202	11.129	0.407	315.920
15:10:11	17.341	5.347	0.402	316.220
15:10:26	11.147	2.899	0.410	315.692
15:10:41	3.492	1.024	0.417	315.667
15:10:56	1.110	0.373	0.406	315.681
15:11:11	0.410	0.165	0.415	315.741
15:11:26	0.206	0.095	0.416	316.543
15:11:41	0.145	0.070	0.409	316.514
15:11:56	0.126	0.061	0.413	315.827
15:12:11	0.121	0.056	0.409	316.008
15:12:26	0.119	0.053	0.405	315.677
15:12:41	0.118	0.049	0.413	315.695
15:12:56	3.421	0.115	0.411	315.681
15:13:11	14.081	0.460	0.404	315.676
15:13:26	18.350	0.619	0.409	315.676
15:13:41	19.622	0.667	0.414	315.689
15:13:56	20.009	0.680	0.411	315.666
15:14:11	20.118	0.686	0.412	316.156

End of Appendix Section

APPENDIX H: CLEANAIR RESUMES AND CERTIFICATIONS

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JASON MCKEEVER

Principal Engineer

PROFESSIONAL PROFILE

Mr. McKeever is a chemical engineer with over sixteen years of experience in the environmental source testing, engineering, and consulting industry. Mr. McKeever's chemical engineering education and field-testing experience provides a strong background for compliance, diagnostic and monitor certification testing. Mr. McKeever has taken on various project management responsibilities, including the technical operation for the Eastern Engineering Source Group. The major industries in which Mr. McKeever has process and air emission experience includes municipal and hazardous waste combustors, refinery and petrochemical industries, cement kilns, coal fired utility boilers, food processing units, and wood and paper processing.

In addition, Mr. McKeever has extensive experience in ion chromatography (IC) and real-time in-situ particulate matter (TEOM) testing. He has also helped develop and design a mercury probe system which uses sorbent traps inside the flue gas stream to sample in a saturated stack condition.

Since 2005, Mr. McKeever has been involved with projects utilizing EPA Methods 1 through 4, 5, 5B, 6C, 7E, 9, 10, 12, 17, 18, 19, 22, 23, 25A, 26, 29, 30B, 30B Modified (speciated mercury), Ontario Hydro Method, 201A, 202, 320, ASTM D6348-03, Other Test Method 28 (OTM 28), and SW-846 Methods 0010 and 0011, Modified CTM-013/ Draft ASTM CCM from the planning stage through field testing. Mr. McKeever also has experience with EPA Performance Specifications 1, 2, 3, 4, 6, 11, and 15, as well as Guidance Document 8 for performing particulate testing in cyclonic flow.

Mr. McKeever has extensive knowledge in performing particle size testing via CARB 501 to help with plant performance design specifications.

RELEVANT EXPERIENCE

Lima Refinery Company (Husky Energy) – Lima, OH

Project manager and Field Test Leader. The objective of this project was to assist LRC in meeting the requirements of the new Title V permit. This included performance testing on the newly installed SCR and Wet Gas Scrubber (WGS) and long with performing the initial and annual RATA's. In addition, numerous H2S RATA were performed to help satisfy the consent to creed.

Carpenter Technology Corporation – Latrobe, PA

Field Test Leader. The objective was to determine the particulate matter emitted from the vacuum induction furnace going to the RotoClone air pollution control unit. Flow and temperature profiles were obtained along with in-situ particle size distribution (PSD). This data was going to be used for design purpose so that a new air pollution control device could be designed and installed to eliminate the opacity issue that the plant was having. Data was collected over two separate test mobilization.

Doosan Heavy Industries & Construction Company; Rabigh, Saudi Arabia

Project manager for a diagnostic test program to determine the acid dew point of the gas stream at the air heater outlet location. On-site titrations were performed to provide data to the client prior to demobilization.

Reliant Energy

Project Engineer for a diagnostic test program for the flue gas characterization during low and full loads for both ozone (O₃) and non-ozone burning settings. Mercury emissions (total Hg and speciated Hg), sulfuric acid emissions and unburned carbon in the fly ash were determined.

Cormetech, Inc., Dominion; Mt. Storm Generating Station

Project manager for a test program to optimize, to the greatest extent possible, the nitrogen oxides (NO_x) distribution on each selective catalytic reactor (SCR) box. This was done by measuring the spatial distribution of NO_x, identifying areas of non-uniformity, and making discrete adjustments to the AIG flow valves. This testing was streamlined utilizing CleanAir's Multi-Point Automated Sampling System (MASS), which was configured to profile up to 64 sample points per SCR module.

Hitachi America Ltd.: AEP Mountaineer Power Station

Project Manager and Field Test Leader for a test program to collect data to determine the performance of Hitachi's triple action catalyst (TRAC) and CM catalyst. The purpose of the test program was to quantify mercury oxidation across various catalyst, as well as evaluate mercury speciation.

Catalyst Air Management

Worked as a Project Test Engineer for CAM Plan Testing. The objective of the test program was to assist Catalyst Air Management, Inc. and UGI Development Company in developing a 40 CFR Part 64 Compliance Assurance Monitoring (CAM) Plan for the 50 MW coal-fired boiler turbine unit located in Hunlock Creek, Pennsylvania. The TEOM 7000 was used to gather particulate emission data necessary to develop a predictive indicator correlation between stack particulate grain loading and opacity.

Hitachi Power Systems America, Ltd: Tucson Electric Power; Springerville Generating Station

Project Manager and Field Test Leader for a test program to gain understanding of the mercury concentration along the flue gas path and concentration of possible interferents (including hydrogen halides and halogens, SO₃ and ammonia).

Consol Energy, Inc.; AES Greenridge

Project engineer who assisted in providing testing and field support to Consol Energy to demonstrate a cost-effective emissions control technology that could be applied to small coal-fired generation facilities. The project involved testing at the SCR outlet and SCR inlet locations to generate a profile grid of NO_x concentration at different load conditions. In addition, sulfur dioxide was measured at the stack and air heater outlet to determine the removal efficiency.

Babcock & Wilcox; AB Brown Generating Station

Assisted as a project engineer. The objective of this test program was to obtain multi-pollutant baseline data across an AQCS system while injecting hydrated lime to mitigate SO₃. Pollutants included SO₂, SO₃, condensable and solid particulate, hazardous air pollutants (HAPS) and total Hg. On-site Hg analysis and on-site IC analysis for SO₃ was performed.

Siemens Environmental Systems and Services; Brunner Island Generating Station

Assisted as a project engineer. The objective of the test program was to gather data at the wet flue gas desulfurization (WFGD) and stack locations for SO₃ and SO₂. To map the changes in SO₃ concentrations, multiple test ports were sampled simultaneously at each location to see if there was any stratification across the duct.

UOP LLC, Fuji Oil Company; Tokyo, Japan

Worked as a Project Engineer conducting EPA Method 5 testing on a high pressure and high temperature FCC TSS Inlet and Outlet simultaneously. On-site sample analysis was performed to provide data to the client prior to demobilization.

NRG - Big Cajun II; New Roads, Louisiana

Project manager and field test leader for baseline testing at the facility. The purpose of the test program was to determine if activated carbon injection (ACI) and dry sorbent injection (DSI) could be utilized to control mercury and sulfur dioxide emissions without a significant increase in particulate matter (PM) emissions.

Alstom Energy, Shoaiba and Rabigh; Kingdom of Saudi Arabia

Lead the field operations of two large-scale boiler performance projects at the Shoaiba and Rabigh Power Plants. Coordinated travel logistics for equipment, supplies, and test crew for members from the United States to Saudi Arabia. Testing at both facilities included USEPA Methods 3A, 6C, 7E, 10, 5B, 17, CTM-027 and particle size distribution (PSD). Testing at the Shoaiba facility included over 100 test runs for USEPA Method 5 and CTM-027. Mr. McKeever played a significant role in evaluating the test data from these projects. He worked closely with the client to generate a detailed test report for the Shoaiba project.

Westinghouse Electric Company; Columbia Fuel Fabrication Facility

Field project lead along with the help of equipment design to meet the safety concern when dealing with Uranium enrich material. Testing was performed on the inlet and outlet of the facilities Calciner Scrubber. Testing included USEPA Method 5, 17, 320.

AIR EMISSIONS METHOD EXPERIENCE

Sampling experience on projects acting as Project Manager or Field Test Leader includes test methodology from the Code of Federal Regulations (CFR) with examples below.

- Title 40 CFR Part 60, Appendix A
- Title 40 CFR Part 60, Appendix B Performance Specifications
- Title 40 CFR Part 51, Appendix M
- Title 40 CFR Part 63, Appendix A
- Title 40 CFR Part 75, Appendix A
- CTM-013 (Mod.)/Draft ASTM Controlled Condensation Method (Draft ASTM CCM)
- SW-846 Methods
- Conditional Test Methods
- American Society for Testing and Materials Methods

CONFERENCES AND PRESENTATIONS

McKeever 2013 – SSSAAP Conference – Mercury Speciation

McKeever 2023 - SSSAAP Conference - Ethylene Oxide

PROFESSIONAL CERTIFICATIONS

Qualified Source Testing Individual (QSTI) Test Exams (Certificate No.2008-164):

- Group I (Manual Gas Volume and Flow Measurements and Isokinetic Particulate Sampling Methods)
- Group II (Manual Gaseous Pollutants Source Sampling Methods)
- Group III (Gaseous Pollutants Source Sampling Methods)
- Group IV ((Hazardous Metals Measurement Sampling Methods)

EDUCATION

Bachelor of Science in Chemical Engineering

Minor in Chemistry

University of Pittsburgh; Pittsburgh, Pennsylvania

SOURCE EVALUATION SOCIETY



Qualified Source Testing Individual

LET IT BE KNOWN THAT

JASON S. McKEEVER

HAS SUCCESSFULLY PASSED A COMPREHENSIVE EXAMINATION AND SATISFIED
EXPERIENCE REQUIREMENTS IN ACCORDANCE WITH THE GUIDELINES
ISSUED BY THE SES QUALIFIED SOURCE TEST INDIVIDUAL REVIEW BOARD FOR

**MANUAL GAS VOLUME MEASUREMENTS AND ISOKINETIC PARTICULATE
SAMPLING METHODS**

ISSUED THIS 27TH DAY OF FEBRUARY 2023 AND EFFECTIVE UNTIL FEBRUARY 26TH, 2028

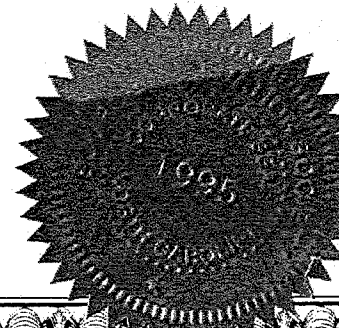
Peter R. Westlin, QSTI/QSTO Review Board

Peter S. Pakalnis, QSTI/QSTO Review Board

J. Wade Bice, QSTI/QSTO Review Board

Karen D. Kajiya-Mills, QSTI/QSTO Review Board

CERTIFICATE
NO.
2008-164



SOURCE EVALUATION SOCIETY



Qualified Source Testing Individual

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EXPERIENCE REQUIREMENTS IN ACCORDANCE WITH THE GUIDELINES
ISSUED BY THE SES QUALIFIED SOURCE TEST INDIVIDUAL REVIEW BOARD FOR

GASEOUS POLLUTANTS INSTRUMENTAL SAMPLING METHODS

ISSUED THIS 22ND DAY OF APRIL 2022 AND EFFECTIVE UNTIL APRIL 21ST, 2027

Peter R. Westlin, QSTI/QSTO Review Board

Peter S. Pakalnis, QSTI/QSTO Review Board

Tina Sanderson, QSTI/QSTO Review Board

J. Wade Bice, QSTI/QSTO Review Board

Karen D. Kajiya-Mills, QSTI/QSTO Review Board

Bruce Randall QSTI/QSTO Review Board

CERTIFICATE
NO.
2008-164



SOURCE EVALUATION SOCIETY



Qualified Source Testing Individual

LET IT BE KNOWN THAT

JASON S. McKEEVER

HAS SUCCESSFULLY PASSED A COMPREHENSIVE EXAMINATION AND SATISFIED
EXPERIENCE REQUIREMENTS IN ACCORDANCE WITH THE GUIDELINES
ISSUED BY THE SES QUALIFIED SOURCE TEST INDIVIDUAL REVIEW BOARD FOR

HAZARDOUS METALS MEASUREMENT METHODS

ISSUED THIS 10TH DAY OF JANUARY 2020 AND EFFECTIVE UNTIL JANUARY 9TH, 2025

Peter R. Westlin, QSTI/QSTO Review Board

Peter S. Pakalnis, QSTI/QSTO Review Board

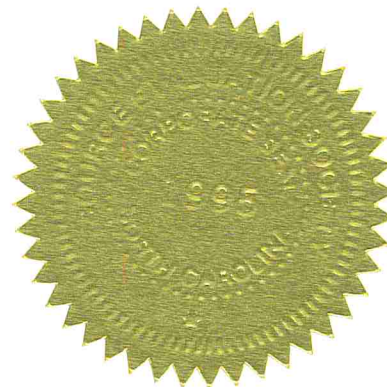
Tina Sanderson, QSTI/QSTO Review Board

J. Wade Bice, QSTI/QSTO Review Board

Karen D. Kajiya-Mills, QSTI/QSTO Review Board

Bruce Randall QSTI/QSTO Review Board

CERTIFICATE
NO.
2008-164





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CLEAN AIR ENGINEERING
500 West Wood Street
Palatine, IL 60067
Mr. Scott Brown Phone: 847-654-4544
sbrown@cleanair.com

ENVIRONMENTAL^{1,2}

Valid To: October 31, 2024

Certificate Number: 4342.01

In recognition of the successful completion of the A2LA evaluation process (including an evaluation of the laboratory's compliance with ISO/IEC 17025:2005 and the NELAC Institute Field Sampling and Measurement Organization Volume 1 (TNI FSMO V1 2007, Rev 2.0), accreditation is granted to this organization to perform recognized methods using the following sampling and measurement technologies:

FSMO Type: Commercial

Mobile Units: Mobile Trailer Units

Sampling:

<u>Matrix</u>	<u>Technology(ies)</u>	<u>Methods</u>
Air	Absorption in Impinger Solution	EPA Methods 6, 6B, 7C, 7D, 8, 12, 13A, 13B, 14, 14A, 15, 15A, 16, 16A, 23, 26, 26A, 29, 101, 101A, 102, 104, 106, 202, 306, 316; Conditional Test Methods 013, 027; SW-846 Methods 0011, 0023A, 0030, 0031, 0050, 0051, 0060, 0061; CARB Methods 425, 426, 428, 429, 430, 431; ASTM D6735-01, D6831-02; NCASI Method 8A, ISS/FP-A105.01; Other Test Method (OTM) 029
Air	Absorption in Sorbent Trap	EPA 30B, PS12A, PS12B
Air	Absorption in Sorbent Trap and Impinger Solution	NCASI Methods: CI/SG/Pulp-94.02; SI/CG/Pulp 94.03
Air	Filter	EPA Methods 5, 5A, 5B, 5D, 5E, 5F, 5H, 5I, 12, 13B, 14, 14A, 17, 23, 29, PS11, 101, 101A, 102, 104, 106, 201, 201A, 306, 316; Conditional Test Methods 013; SW-846 Methods, 0010, 0011, 0023A, 0060, 0061; CARB Methods 425, 426, 428, 429, 430, 501; ASTM D6784-02, D6831-02; Other Test Method (OTM) 029
Air	Tedlar Bags or Stainless Canisters	EPA 18, 25, 10B, 106

Measurement:

<u>Matrix</u>	<u>Test</u>	<u>Technology(ies)</u>	<u>Methods</u>
Air	Air Flow	Pitot tube	EPA 1, 1A, 2, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, PS6, Part 75 CEMS
Air	Continuous Emissions	Electromagnetic, Infrared, Ultraviolet, Non-Dispersive Infrared, Fluorescence, FTIR, Chemiluminescence	EPA 3A, 6C, 7E, 10, 10A, 10B, 20, 30A, PS2, PS3, PS4, PS4A, PS7, PS16, PS18, 205, Part 75 CEMS; Conditional Test Method 0030
Air	Continuous Emissions (FTIR)	FTIR	EPA 318, 320, 321, PS15; ASTM D6348-03
Air	Continuous Emissions (VOCs)	Flame Ionization Detection	EPA 25A, 25B, 25C, 25D, 25E, 204, B, 204C, 204D, PS8
Air	Continuous Emissions in conjunction with an Absorbing Solution	Infrared, Ultraviolet, Non-Dispersive Infrared, Fluorescence	EPA 16C, PS5
Air	Correction Factor	Calculation	EPA 3B
Air	Moisture Content	N/A	EPA 4, 6A, 320; Psychrometric Moisture; Part 75 CEMS
Air	Molecular Weight	N/A	EPA 3
Air	Verification of Temporary or Permanent Enclosure	N/A	EPA 204, 204B
Air	Visual and Fugitive Emissions	N/A	EPA 9, 22, PS 1

Field Analysis/Testing:

<u>Matrix</u>	<u>Technology</u>	<u>Analyte(s)</u>
Air	Gas Chromatography	TRS, Gaseous Organic Compounds, Performance Spec. 9, EPA 18, 106
Air	Ion Chromatography	HCl, CL2, HF, F2, HBr, Br2, SO4, NH3, NO2, NO3, PO4, Li, Ma, K, Mg, Ca
Air	Ion Specific Electrode	NH3
Air	Ohio Lumex (Thermal Atomic Absorption)	Hg

¹All sampling and analysis is performed in the field.

Location 2:
110 Technology Drive
Pittsburgh, PA 15275-1004

Location 3:
13720 24th Washington Street East
Units 102 and 109. Building E
Sumner, WA 98390

² Mobile Lab Units:

Mobile Lab VINs:

1WC200G2811097523

1WC200G2811097148

1WC200G2841107312

1WC200G2641107311

1WC200G2441109073

1WC200J2381120774

1WC200G2611097147

1wc200j2791124568

(witnessed in-field; 26
July '22)

1WC200G291114451

5NHUAMV249V327844

1WC200J20C1192704

Accredited Laboratory

A2LA has accredited

CLEAN AIR ENGINEERING

Palatine, IL

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of R219 - *Specific Requirements - TNI Field Sampling and Measurement Organization Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 28th day of October 2022,

A blue ink signature of the Vice President, Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4342.01
Valid to October 31, 2024

Accredited Air Emission Testing Body

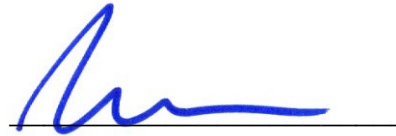
A2LA has accredited

CLEAN AIR ENGINEERING

In recognition of the successful completion of the joint A2LA and Stack Testing Accreditation Council (STAC) evaluation process, this laboratory is accredited to perform testing activities in compliance with ASTM D7036:2004 - Standard Practice for Competence of Air Emission Testing Bodies.



Presented this 28th day of October 2022,



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4342.02
Valid to October 31, 2024

This accreditation program is not included under the A2LA ILAC Mutual Recognition Arrangement.

End of Appendix Section

END OF DOCUMENT