Number of pages in this package 23 [ including additional pages 4 ] (Fill in when using printed copy as record)

CLIENT INFORMATION		
Company Name NOVAERUS US INC		
Address	4th Floor 470 Atlantic Ave	
	Boston, MA 02210	
	United States	

AUDIT INFORMATION:				
Description of Tests	Per Standard No.	UL 867	Edition/ Revision Date	Fifth/ 09/16/2016
		CSA C22.2 No. 187	Date	Third/ March 2009
[X] Tests Conducted by <sup>1</sup>		min	/	
	Mark Reardon	Illuk Ke	emlan	
[] UL Staff conducting or witnessing testing (WTDP, TMP, WMT only) [] UL Staff supervising UL Staff in training				
[] Authorized Signatory (CTDP, TPTDP, TCP, PPP, SMT)	Printed Nam	na (5	Signature Inc	clude date for
	FIIIICEG Nam		CTDP, TPTDP,	ICP, PPP, WMT, SMT

TESTS	TO BE	CONDUCTED:	
			[ ] Comments/Parameters
Test			[ ] Tests Conducted by <sup>2</sup>
No.	Done <sup>3</sup>	Test Name	[ ] Link to separate data files4
1	Х	PEAK OZONE LOCATION	
		DETERMINATION AND OZONE TEST	

### Instructions -

1 - When all tests are conducted by one person, name can be inserted here instead of including name on each page containing data.

2 - When test conducted by more than one person, name of person conducting the test can be inserted next to the test name instead of including name on each page containing data. Test dates may be recorded here instead of entering test dates on the individual datasheet pages.

3 - Use of this field is optional and may be employed differently. If used to include a date instead of entering the testing date on the individual datasheet pages, the date shall be the date the test was conducted.

4 - Link to separate data files for a test can be inserted here. The link must be to a server that is accessible to UL staff, that provides for backup, required retention periods and a path, including file name, that does not change and result in a broken link. Not applicable to DAP.

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## UL LABORATORY DATA PACKAGE SUMMARY

# PRODUCT DETAILS:

Electrostatic Air Cleaner, NV950

Model	Vac	Hz	А
NV950	120	60	1.07

- Intended for household and commercial use.
- Intended for dry locations and indoor use.
- Two fan speeds
- This product employs an ion generator.

Sample 1 80134-020AA	Test Run 80134-021AA
Ion Generator	ON
Fan Speed	Low
Filter	(Not Applicable)
The maximum measured ozone level, ppm	0.005

Sample 1 80134-020AA	Test Run 80134-022AA
Ion Generator	ON
Fan Speed	High
Filter	(Not Applicable)
The maximum measured ozone level, ppm	0.026

Sample 2	N/A
Ion Generator	ON
Fan Speed	High
Filter	(Not Applicable)
The maximum measured ozone level, ppm	N/A

Sample 2	N/A
Ion Generator	ON
Fan Speed	Low
Filter	(Not Applicable)
The maximum measured ozone level, ppm	N/A

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# EXPECTED OZONE GENERATING COMPONENTS:

Description	Manufacturer and model	Ratings
Transformer	Wells, WE-1-C	Secondary Rated
		4KV, 9mA
Closed Coupled Field	Novaerus, New Alternate	_
Technology Device	Construction	

Description of Tests	Per Standard No.	UL 867	Edition/	Fifth/
			Revision	09/16/2016
			Date	

Special Instructions -

[X] Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded at the time the test is conducted.

Ambient Relative Barometric Temperature, C  $25\pm2$  Humidity, %  $50\pm5$  Pressure, mBar N/A

[ ] No general environmental conditions are specified in the Standard(s) or have been identified that could affect the test results or measurements.

A Power Quality Analysis (PQA) is not required to be conducted on a laboratory conducting the tests in this datasheet package based on the following:

During the application of the tests in this data package, voltage is to be constantly monitored and may be adjusted as necessary by means of Variac or similar equipment.

### RISK ANALYSIS RELATED TO TESTING PERFORMANCE:

The following types of risks have been identified. Take necessary precautions. This list is not all inclusive.

r			
[ ] Electric shock	[ ] Radiation		
[ ] Energy related hazards	[ ] Chemical hazards		
[ ] Fire	[ ] Noise		
[ ] Heat related hazards	[ ] Vibration		
[ ] Mechanical	[ ] Other (Specify)		

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File E356410 Page

Muk Ramban Date

04/20/17 -Date 05/12/17

TEST LOCATION: (To be completed by Staff Conducting the Testing)								
[√]UL or Affiliate []WTD			[]CTDP	[]TPTDP	[]TCP	[]PPP		
		[]WMT	[]TMP	[]SMT				
	Company Name: UL	Environm	ent					
	Address: 2211 Newmarket Parkway, Marietta, GA 30067-9399							

# TEST EQUIPMENT INFORMATION

- UL test equipment information is recorded on Meter Use.
- UL test equipment information is recorded on <<insert location and local laboratory equipment system identification.>>
- UL test equipment information is recorded on the Marietta Local Share [X] Drive.

Inst. ID	Instrument Type	Test Number +, Test Title or Conditioning	Function /Range	Last Cal. Date	Next Cal. Date
LCB	Environmental Chamber	1-2 (80134-021AA, -022AA) Performance validation and ozone testing	N/A	04/20/2017	10/20/2017
80134-021AA: 609315320		1-2 (80134-021AA, -022AA) Peak ozone,	0-400 ppb	80134-021AA: 05/10/2016	80134-021AA: 05/10/2017
80134-022AA: CM09350106	Ozone monitor	performance validation, and ozone testing		80134-022AA: 03/15/2017	80134-022AA: 03/15/2018
02120237	Anemometer Air Flow Meter	1-2 (80134-021AA, -022AA) Peak ozone and performance validation	0-30 m/s	80134-021AA: 06/28/2016 80134-022AA:	80134-021AA: 06/28/2017 80134-022AA:
1615000025	Manometer	1-2 (80134-021AA, -022AA) Ozone testing	0-1300 mBar	80134-022AA: 80134-021AA: 05/06/2016 80134-022AA:	80134-021AA: 05/31/2017
211310276	Ruler	1-2 (80134-021AA, -022AA) Peak ozone and ozone testing	0-24"	80134-021AA: 07/12/2013 80134-022AA:	80134-021AA: 07/12/2018 80134-022AA:
СЈ014	Chamber Temperature Monitor	1-2 (80134-021AA, -022AA) Ozone testing	0-50°C	80134-021AA: 10/24/2016 80134-022AA:	80134-021AA: 10/24/2017 80134-022AA:
151837171	Atomic Clock	1-2 (80134-021AA, -022AA) Run-in	N/A	80134-021AA: 11/06/2015 80134-022AA:	80134-021AA: 11/06/2017
160237685	Atomic Clock	1-2 (80134-021AA, -022AA) Ozone testing	N/A	80134-021AA: 02/29/2016 80134-022AA:	80134-021AA: 03/01/2018 80134-022AA:
80134-021AA: 106712226 80134-022AA: 200343305	Temperature & RH data Logger	1-2 (80134-021AA, -022AA) Ozone testing	Temp: -20 to 70C° RH: 5% to 95%	80134-021AA: 03/08/2017 80134-022AA: 12/27/2016	80134-021AA: 03/31/2018 80134-022AA: 12/31/2017

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04/20/17 -Date 05/12/17

+ - If Test Number is used, the Test Number must be identified on the data sheet pages or on the Data Sheet Package cover page.

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.
1	Ring Stand with Ring
2	Non-reactive vertical surface

Mark Ranken

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04/20/17 -Date 05/12/17

### TEST SAMPLE IDENTIFICATION:

The table below is provided to establish correlation of sample numbers to specific product related information. Refer to this table when a test identifies a test sample by "Sample No." only.

UL Camas	UL Environment	D. L.	[]	G 1 -	Manufacture Burduct Tdark!5!astic and
Sample	Sample Card	Date	Test	Sample	Manufacturer, Product Identification and
Card No.	No. *	Received	No.+	No.	Ratings
	80134-020AA				Novaerus, Model NV950,
652074		04/11/2017	1	1	
032074			1	_	Novaerus Serial Number EG1R1151905203/1700088
					UL Sample # CURCBF288
	80134-020BA				Novaerus, Model NV950,
CE207E		04/11/2017	1	2	
652075			1		Novaerus Serial Number EG1R1151905203/1700085
					UL Sample # CURCBF289

If Test Number is used, the Test Number or Numbers the sample was used in must be identified on the data sheet pages or on the Data Sheet Package cover page.

\* - UL Environment Note - When we get a replicate pair of air cleaners in, one is randomly assigned to be our primary test sample, designated the AA sample, while the second unit is designated a replicate sample. So if this is the first model of air cleaner associated with the project, they will be labeled 010AA and 010BA to show that the replicate came from the customer. Once the units are broken in and testing begins, new sample numbers are generated based on what is needed for proper testing. For example, if the product needs three different scans (usually a high fan speed, low fan speed, and filter out scan), then we will generate three product numbers: 011AA, 012AA, and 013AA. If any of these runs have a technical issue (for example, we had a thunderstorm knock out power during a test), then any retests will be marked using the last letter on that sample number (011AB). Finally, if any of the tests show emissions high enough to warrant testing the replicate sample, we will create a new sample number using the replicate's letter (run 012AA ran into 40ppb  $O_3$  concentrations, so we would create a sample number 012BA for replicate testing of those test conditions).

- Sampling Procedure -[ ]
- [ ] This document contains data or information using color and if printed, should be printed in color to retain legibility and the information represented by the color.

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Notes to lab -

1. Hang the product on a simulated wall. Attached to a non-reactive vertical surface at a minimum height of 30 inches.

2. The product has two fan speeds: High and Low.

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Muk Ramban

04/20/17 -Date 05/12/17

PEAK OZONE LOCATION DETERMINATION AND OZONE TEST

UL 867, Section 41

METHOD - PART A PRODUCT RUN-IN

The appliance was placed in a room with a maintained temperature of  $25\pm2^{\circ}\text{C}$  and filtered air. The appliance was operated under maximum output conductions as described in the following table:

Fan Speed

High Speed and Low Speed

This test was repeated on a second sample.

# METHOD - PART B PEAK OZONE LOCATION DETERMINATION

While in a well-heated condition, the appliance was placed in an open space with a minimum height dimension of 8ft. and a minimum side dimension of 10ft. The appliance was placed in the center of the room and

- [X] 30 inches above the floor.
- [ ] on the floor.
- [ ] attached to the ceiling or to the underside of a horizontal non-reactive surface at a minimum height of 30 inches.
- [X] attached to a non-reactive vertical surface at a minimum height of 30inches.

The periphery of the airstream in the plane parallel to and 2 inches from the surface of the air cleaner discharge grille was established and total area was recorded.

For bounded airstreams measuring less than  $16\text{in}^2$ , five ozone measurements were taken. One in each quadrant of the airstream and one in the center of the airstream.

For bounded airstreams measuring  $16 \text{in}^2$  or larger, ozone measurements were taken in a 4 x4 in. grid pattern up to 10 measurements. For greater than 10 grid measurements, 10 measurements were taken evenly spaced across the airstream. One additional measurement was taken in the center of the airstream.

For ozone generating ionizing sources, one additional measurement was taken in the airstream directly in line with the source.

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

Ozone measurements were taken at the locations described above with the appliance operating

- [√] on both the highest and lowest fan speed and at each ozone/high voltage output level setting.
- on both the highest and lowest fan speed and at the minimum, middle, and maximum ozone/high voltage output level setting.
- and with independently activated [ionizers] [UV lamps] operating.

Ozone measurements were monitored for a period of 2 minutes, and recorded for use during Part D - Ozone Test.

This test was repeated on a second sample.

METHOD - PART C CHAMBER HALF-LIFE

Prior to testing of an appliance model, the chamber ozone half-life was determined using the theoretical air exchange rate, 1.19 1/h, and an initial steady state ozone concentration of 0.100 to 0.200 ppm.

\* Note #1 to Technician - If the measured chamber half-life is not equal to 31 ±2 minutes, the air exchange rate shall be adjusted and the ozone halflife measurement shall be reconducted until this value is obtained.\*

The air exchange rate was adjusted and the chamber half-life value was [X] again determined using an initial steady state ozone concentration of 0.100 to 0.200 ppm.

> METHOD - PART D OZONE TEST

The appliance was placed in a chamber having a volume of 950-1100 cubic feet  $(26.9-31.1 \text{ m}^3)$  with a minimum side dimension of 8 feet (2.4 m) and a maximum height dimension of 10 feet (3.0 m) without openings. The test chamber walls, ceiling, and floor were surface treated stainless steel or other nonporous, non-reactive material.

During the test, the test room was maintained at a temperature of  $25\pm2^{\circ}\mathrm{C}$  $(77\pm4^{\circ}F)$  and a relative humidity of  $50\pm5$  percent. Prior to the start of this test, the ozone background level was measured with the product off. The measurement was subtracted from the maximum measurement during the test.

\*Note #2 to Technician - If the measured ozone background level is greater than 0.005 ppm, the chamber must be purged and the ozone background level measured again prior to inception of the test.\*

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D):

UL 867, Section 41

The appliance was placed in the center of the test chamber and

- 30 inches above the floor.
- [ ] on the floor.
- attached to the ceiling or to the underside of a horizontal nonreactive surface at a minimum height of 30 inches.
- [X] attached to a non-reactive vertical surface at a minimum height of 30inches.

The ozone monitor sampling tube was located 2 inches (50mm) from the air outlet of the product and was pointed directly into the air stream. Ozone or high voltage output level/measurement location was as/where ozone emissions were determined highest during Part B - Peak Ozone Emissions Determination.

The emission of ozone was monitored for 24 hours on both the high and low fan speeds to determine the concentration.

- \* Note #3 to Technician The monitoring of ozone can be stopped after 8 hours if the measured chamber ozone concentration has reached steadystate. For the purpose of this measurement steady state is defined as:
- a) Negative or zero slope for the plot of chamber ozone concentration vs. time ([C(t)] vs. t), during hour 7 to 8 of monitoring, and fluctuation not greater than + 10 percent or 2 ppb around the mean, whichever is greater during the same time period,
- b) Positive slope for the plot of chamber ozone concentration vs. time, during hour 7 to 8 of monitoring, mean ozone concentration less than 20 ppb, and fluctuation not greater than + 2 ppb around the mean, during the same time period, or
- c) Positive slope for the plot of chamber ozone concentration vs. time, during hour 7 to 8 of monitoring, mean ozone concentration greater than or equal to 20 ppb and less than 38 ppb, a normalized slope for hour 7-8 less than or equal to 0.0153 (ppb/hr)/mean ppb, and fluctuation not greater than + 10% around the mean, during the same time period.\*
- [ ] The test was repeated with [the fan not functioning] [the particle filters removed] [ozone-monitoring circuitry bypassed].
- The test was repeated on a second sample. []
- \* Note #4 to Technician Testing of a second sample is not required if the maximum measured ozone concentration of the first sample measured less than 0.030 parts per million.\*

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

RESULTS PART A PRODUCT RUN-IN

[X] Sample 1 completed the 48 hour run-in period. Sample 2 completed the 48 hour run-in period. []

# RESULTS - PART B PEAK OZONE LOCATION DETERMINATION

Sample 1: 80134-020AA

	Measured Ozone, ppm			
Fan Chood	Test Run 80134-021AA	Test Run 80134-022AA		
Fan Speed	Low	High		
Ion Generator	ON	ON		
Left Quadrant 1	0.0029	0.0193		
Left Quadrant 2	0.0021	0.0175		
Left Quadrant 3	0.0020	0.0140		
Left Quadrant 4	0.0017	0.0133		
Right Quadrant 5	0.0020	0.0129		
Right Quadrant 6	0.0017	0.0131		
Right Quadrant 7	0.0017	0.0145		
Right Quadrant 8	0.0018	0.0143		
<del>Quadrant 9</del>	N/A	N/A		
<del>Quadrant 10</del>	N/A	N/A		
Center of the Airstream (Left)	0.0021	0.0142		
Center of the Airstream (Right)	0.0017	0.0139		

The location of the peak ozone measurement was in the Left Quadrant 1, Fan Speed on HIGH. See Illustration 1 for visible indication of location.

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

Sample 2: N/A

	Measured (	Ozone, ppm
Fan Speed	High	Low
Ion Generator	N/A	N/A
Quadrant 1	N/A	N/A
Quadrant 2	N/A	N/A
Quadrant 3	N/A	N/A
Quadrant 4	N/A	N/A
Quadrant 5	N/A	N/A
Quadrant 6	N/A	N/A
Quadrant 7	N/A	N/A
Quadrant 8	N/A	N/A
<del>Quadrant 9</del>	N/A	N/A
<del>Quadrant 10</del>	N/A	N/A
Center of the Airstream (Left)	N/A	N/A
Center of the Airstream (Right)	N/A	N/A

The	location	of	the	peak	ozor	ne measurem	ent	was	·	See
Illu	stration		for	visi	ble	indication	of	location.		

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

RESULTS - PART C CHAMBER HALF-LIFE

# Theoretical Air Exchange Rate, 1/h 1.19

Using the theoretical air exchange rate above the measured chamber ozone half-life was 5.025 hours (301.5 minutes).

[ ] The measured chamber ozone half-life was 31±2 minutes.

[X] The measured chamber ozone half-life was not 31±2 minutes. (Continue Results Below)

Air Exchange Rate After Adjustment,	1.33
1/h	

After air exchange rate adjustment, the measured chamber ozone half-life was 0.51388899 hours (30.83 minutes).

- [X] The measured chamber ozone half-life was 31±2 minutes.
- [ ] The measured chamber ozone half-life was not 31±2 minutes.

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

RESULTS - PART D OZONE TEST

Sample 1 Test Run 80134-021AA - Low Fan Speed:

[X] The test was run for 24 hours. Data showing steady-state condition is attached.

 $O_3(t) = Maximum ozone concentration measured: 0.006 parts per million (PPM) by volume.$ 

 $O_3$  (Background) = Ozone background level before test: 0.000 parts per million.

The maximum measured ozone level =  $O_3(t)$  -  $O_3(Background)$  = 0.006 parts per million.

- [ ] The maximum measured ozone level was between 0.030 and 0.050 parts per million test repeated on sample 2.
- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was less than 0.050 parts per million test repeated on sample 2.
- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was not less than 0.050 parts per million test halted.
- [ ] The maximum measured ozone level exceeded 0.100 parts per million test halted.

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

Sample 1 Test Run 80134-022AA - High Fan Speed:

[X] The test was run for 24 hours. Data showing steady-state condition is attached.

 $O_3(t) = Maximum$  ozone concentration measured: 0.028 parts per million (PPM) by volume.

 $O_3$  (Background) = Ozone background level before test: 0.002 parts per million.

The maximum measured ozone level =  $O_3(t)$  -  $O_3(Background)$  = 0.026 parts per million.

- The maximum measured ozone level did not exceed 0.030 parts per million [X] - only one sample tested.
- The maximum measured ozone level was between 0.030 and 0.050 parts per [ ] million - test repeated on sample 2.
- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was less than 0.050 parts per million - test repeated on sample 2.
- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was not less than 0.050 parts per million - test halted.
- The maximum measured ozone level exceeded 0.100 parts per million -[ ] test halted.

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

Sample 2 N/A - High Fan Speed:

[] The test was run for 24 hours. Data showing steady-state condition is attached.

 ${\rm O}_3(t) = {\rm Maximum}$  ozone concentration measured: parts per million (PPM) by volume.

O<sub>3</sub>(Background) = Ozone background level before test: parts per million.

The maximum measured ozone level =  $O_3(t)$  -  $O_3(Background)$  = parts per million.

- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was less than 0.050 parts per million.
- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was not less than 0.050 parts per million.
- [ ] The maximum measured ozone level exceeded 0.100 parts per million test halted.

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PEAK OZONE LOCATION DETERMINATION AND OZONE TEST (CONT'D)

UL 867, Section 41

Sample 2 - Low Fan Speed: N/A

[ ] The test was halted after 8 hours. Data showing steady-state condition is attached.

 $O_3(t) = Maximum$  ozone concentration measured: \_\_\_\_\_ parts per million (PPM) by volume.

 $O_3(Background) = Ozone background level before test: _____ parts per million.$ 

The maximum measured ozone level =  $O_3(t)$  -  $O_3(Background)$  = \_\_\_\_\_ parts per million.

- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was less than 0.050 parts per million.
- [ ] The sample produced a transitory concentration in excess of 0.050 parts per million, but less than 0.100 parts per million. The average of any five consecutive one minute average measurements was not less than 0.050 parts per million.
- [ ] The maximum measured ozone level exceeded 0.100 parts per million test halted.

NOTE #5 TO LABORATORY TECHNICIAN: The maximum allowable ozone concentration is 0.050 ppm.

NOTE #6 TO LABORATORY TECHNICIAN: For samples with transitory concentrations in excess of 0.050 ppm, but less than 0.100 ppm, the average of any five consecutive one minute average measurements shall be used when recording the maximum ozone concentration measured.

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Mak Rambar Date 04/20/17 -Tested by: Mark Reardon Date 05/12/17

Start Date	Time	Test Instance	Ambient Temperature, C	Relative Humidity, %	Barometric Pressure, mBar
80134- 021AA 04/20/17	16:29 (04/20/17) - 16:50 (04/21/17)	Fan: ON LOW	24.3 - 24.6	50.2 - 51.9	984.6
80134- 022AA 05/11/17	09:27 (05/11/17) - 10:53 (05/12/17)	Fan: ON HIGH	24.4 - 24.9	50.8 - 52.6	979.8

NOTE #7 TO LABORATORY TECHNICIAN: Environmental conditions shall be monitored and recorded for the duration of the Ozone Test.

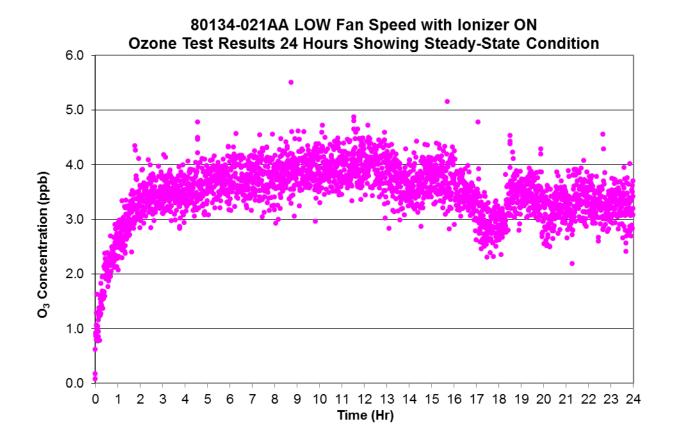
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# 80134-022AA HIGH Fan Speed with lonizer ON Ozone Test Results 24 Hours Showing Steady-State Condition 30.0 10.0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Time (Hr)

**Project No.** 4787678721 File E356410

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### Illustration 1



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