

# Report No. 3124247CRT-001

June 2, 2007

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<b>Report Scope</b>	Ozone Concentration Testing of Household Electrostatic Air Cleaners.
<b>Limitation Statement</b>	The test data and results contained in this report are provided for client information and evaluation.
<b>Authorization</b>	The tests were authorized by ECS Order No. 132896 dated May 18, 2007.
<b>Standards Used</b>	UL 867, Section 37; Ozone Test for Electrostatic Air Cleaners.
<b>Sample Description</b>	Two Brookstone Pure-Ion Advanced Air Cleaners units
<b>Dates of Tests</b>	May 31, 2007 through June 2, 2007

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## Test Method:

### Ozone Test – (UL 867)

All testing was performed per UL 867, section 37. Refer to test results section below. Test Room Dimensions, Cubic Feet: 11.5ft.Width x 12ft. Depth x 7ft Height = 966 cu.ft. Test Room Conditions: 50% +/- 5% RH, Temperature 77° +/- 4° F. Intake sampling tube of the ozone analyzer is located 2 inches from the center of the discharge air stream of the air cleaner. An initial background measurement of the ambient ozone level is taken prior to the start of the test cycle. The unit under test is then started and another recording of the ozone level is taken. The ozone emissions test is run for 24 consecutive hours plus an evacuation time of .5 to 1 hour. At the end of the 24 hour test run the ambient ozone background level is recorded. Pre-test and Post-test ambient ozone levels are averaged. The resulting average is then subtracted from the highest recorded ozone level during the 24 hour test. This number is the calculated emitted ozone according to the UL 867 calculation procedures.

## Test Equipment List:

<u>Equipment Used</u>	<u>Model Number</u>	<u>Intertek Control #</u>	<u>Cal. Due Date</u>
Advanced Pollution Instrumental Ozone Monitor	450	H195	04/03/08
Fluke Hydra Data Logger	2625A	E279	02/15/08
Cole-Parmer Timer	94411-10	G014	01/19/08
Omega Chart Recorder	CT485B	T1090	07/28/07
Yokogawa Power Meter	WT110	B043	12/06/07
Westward Tape Meas.	4YP92	N1054	05/16/08

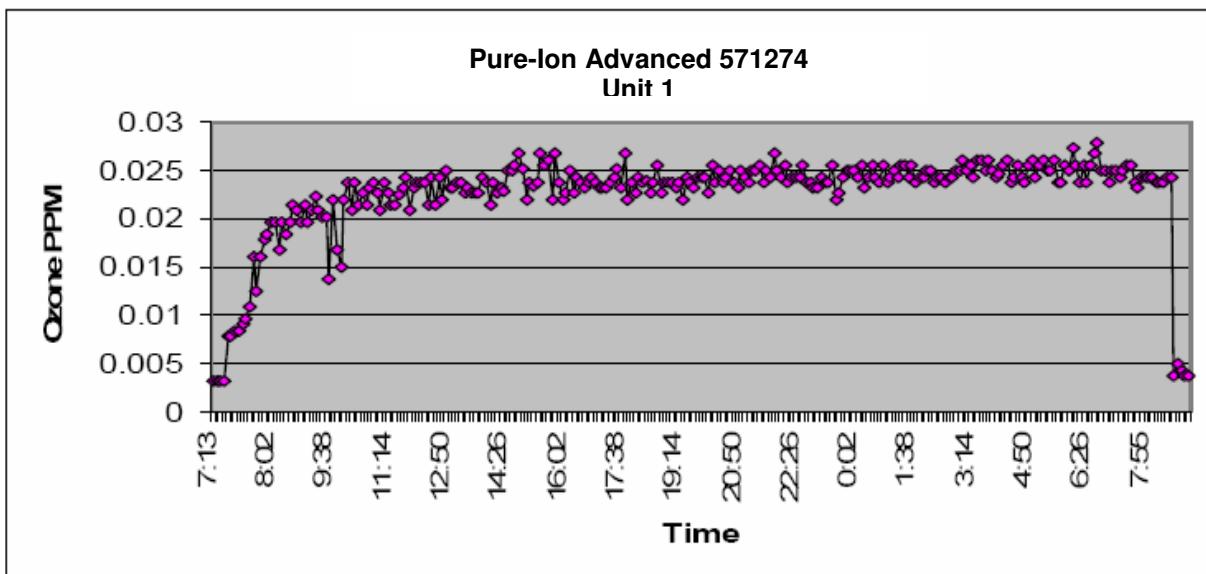
# Report No. 3124247CRT-001, *Continued*

## Specimen Procurement and Preparation

For purposes of identification, the Brookstone air cleaner specimens were designated as Sample 1 and Sample 2.

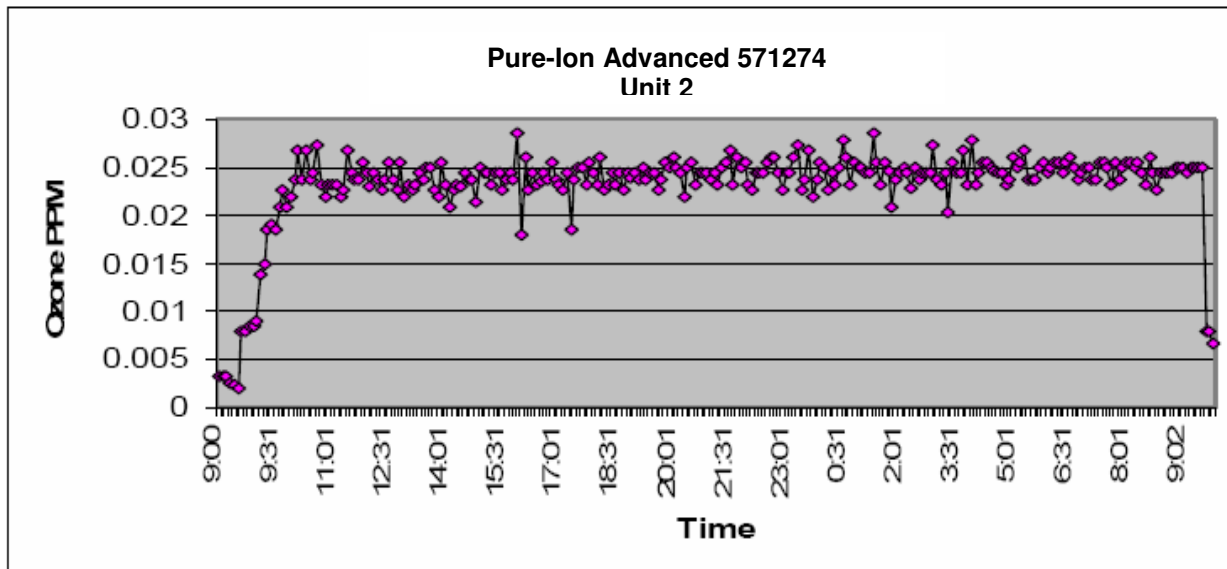
## Test Results

Test Sample	Peak Ozone ( PPM )	Pre-Test Background Ozone ( PPM )	Post-Test Background Ozone ( PPM )	Average Background Ozone ( PPM )	Emitted Ozone ( PPM )
Sample # 1	0.028	0.003	0.024	0.014	0.014



# Report No. 3124247CRT-001, *Continued*

Test Sample	Peak Ozone ( PPM )	Pre-Test Background Ozone ( PPM )	Post-Test Background Ozone ( PPM )	Average Background Ozone ( PPM )	Emitted Ozone ( PPM )
Sample # 2	0.028	0.003	0.025	0.014	0.014



## Conclusion

The maximum allowable limit for ozone emissions per UL 867, section 37 is 0.05ppm. The calculated ozone emitted by Sample # 1 was 0.014 ppm. The calculated ozone emitted by Sample # 2 was 0.014 ppm. **These test results indicate that these samples do comply with section 37 of UL 867.**