



06/27/2017

Charles Waddell
Global Plasma Solutions, LLC
10 Mall Terrace, Bldg C
Savannah, GA, 31406, USA

ULE Project No.: 4787934774
ULE Order No.: 11719167
Subject: Environmental Claims Validation for GPS iMOD

Dear Mr. Waddell

Congratulations! All testing, auditing and analysis work associated with above mentioned project number has been completed. Please refer to the following page for all environmental claims that were validated and the methods used for validation. The products listed in this report are eligible to bear the ULE Environmental Claims Validation Logo, in accordance with the ECV Guidelines.

Please be informed that in some cases, UL Environment Inc. did not select the samples. Auditing conducted to validate environmental claims was performed on a sample of available documentation, products and materials.

The issuance of this report in no way implies ULE Sustainable Product Certification, ULE Environmental Product Declaration, Underwriters Laboratories Inc. (UL) Product Safety Listing, Classification or Recognition and does not authorize the use of ULE certification marks or UL Safety Listing, Classification or Recognition Marks or any other reference to UL on or in connection with the safety of the product or system. This letter is solely intended to report the environmental claims that were found to be valid and the methods used by ULE to validate such claims. Any modifications to electrical components, mechanical components, materials, manufacturing processes, purchasing policies or other items, which may affect the environmental claims validated, may invalidate the claims and require full reassessment.

We appreciate the opportunity to have worked with you on this project. Should you have any questions regarding this letter or the attachments, please let us know.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Sutton'.

Nick Sutton
Environmental Project Manager
UL Environment Inc.



Proposed Test Schedule

ULE conducts testing on a three year cycle, provided there have been no major changes that would affect the test results within the three year period. Major changes include, but are not limited to product reformulation, manufacturing process changes, relocation of manufacturing facility, etc. Your Environmental Project Manager (EPM) will also reserve the right to request more frequent re-testing at an additional cost should s/he feel it is necessary; however, these decisions will be made on a case-by-case basis and only after careful consideration.

Product Tested	On-Site Test Completed On	Proposed Year for On-Site Test
GPS iMOD	June 13, 2017	June 2020

If changes have been made to product, testing will have to be completed.

Annual Review - Purpose and Objectives

Upon completion of your Environmental Claims Validation (ECV) project, each year you will complete an annual review of your products and environmental claims. The purpose of the annual review is to ensure your products continue to be in compliance with the environmental claims that were issued.

Annual Review Activities

Your annual review will consist of the following activities during which we will work together to bring your renewal services to completion.

- Approximately 3 months before your annual review, we will reach out to you to confirm renewal in the program.
- Your team will complete an annual review declaration provided by UL Environment, which will be used to identify any product, manufacturing and/or quality system changes during the past year.
- Review new products developed within the past year in addition to reviewing the product spec sheets and production records.
- Review claim wording and make any necessary modifications based on new guidance such as the US Federal Trade Commission 16 CRF Part 260 (Green Guides) revisions and other pertinent environmental claim regulations.
- Complete testing per UL 867 Section 40 (if necessary).
- Upon completion of the annual review, an updated report will be posted on the UL Environment database to show an annual review was completed.

Scope of Annual Review

- **Validated Product(s):** GPS iMOD
- **Services Performed:** Environmental Claim Validation to validate UL ECVP 2998 Zero Ozone Emissions from Air Cleaners, 2016
- **Test Frequency:** Every 3 years, refer to Proposed Test Schedule for next testing date
- **Annual Review Project Timeline:** April – June 2018
- **Annual Review Completion Deadline:** June 27, 2018 - *Please note that if your Annual Review is not completed by this above mentioned date, we will have to remove your product(s) from the ULE Sustainable Products Database.*



- **Annual Review Fee:** TBD on initiation of Annual Review

Explanation of Dates on Product Reports

- **Report Date:** The report date is when your letter report was issued by UL Environment, which will be updated each year when the annual review is completed.
- **Original Issue Date:** The original issue date is the first date your product received approval by UL Environment.
- **Valid Through:** An ECV project's environmental claim is valid for one year. Each year when you renew in the program and complete the annual review, the valid through year will be extended for one year. The original valid through date is established using the Original Issue Date plus one year.



June 13, 2017

Mr. Charles Waddell
Global Plasma Solutions, LLC
10 Mall Ter, Bldg. C
Savannah, GA 31406

Dear Mr. Waddell:

Thank you for choosing UL Environment and its ISO/IEC 17025 accredited testing laboratories for your analytical needs. Attached is the final report, which presents the test protocols and resulting data.

We appreciate this opportunity to assist you. If you have any questions or wish to discuss your results, please feel free to contact us at (888) 485-4733.

Sincerely,

A handwritten signature in black ink that reads "W. Elliott Horner".

W. Elliott Horner, PhD, LEED® AP
Lead Scientist

Attachment: Report: 18598-01R1



PROJECT SUMMARY

UL Environment is pleased to present the test results for the air cleaner identified as “GPS - iMOD” model, as submitted by Global Plasma Solutions, LLC. The requested test protocol for this project was to determine compliance with the UL 867 Ozone test method/requirements.

UL Environment did not select the samples, determine whether the samples were representative of production samples, witness the production of the test samples, nor were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results apply only to the actual samples tested.

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This report will serve that all tests on the subject product have been completed. This concludes all work associated with Project 18598 and we are therefore closing this project.

ENVIRONMENTAL CHAMBER TEST REPORT FOR OZONE EMISSIONS TESTING

Maximum Measured Ozone Emission Concentration (ppm)	Average Ozone Concentration 24 Hour (ppm)	Maximum Allowed Ozone Concentration per UL 867 (ppm)
< 0.001	< 0.001	0.050

Customer: Global Plasma Solutions, LLC

Sample Identification: 18598-010AA

Product Description: AIR CLEANER; GPS-iMOD – modular ionization system

Product Loading: 1 unit / 31.1 m³

Test Conditions: 1.33 ± 0.05 ACH (apparent)
50% RH ± 5% RH
25°C ± 2°C

Electrode Voltage: 5.35kV RMS

Test Period: 05/25/17 - 05/26/17

Test Description: The product was received by UL Environment on 04/14/17 as packaged and shipped by the customer. The package was visually inspected and stored in a controlled environment. The product was then loaded into the chamber and monitored for ozone emissions over a 24-hour period.

Ozone analysis conducted using a TEI Model 49i UV-absorbance based analyzer with a detection limit of 0.5 ppb (0.0005 ppm).
BQL – Below quantifiable limit

FIGURE 1

18598-010AA Ozone Test Results

