



Greenhouse Gas Verification Statement Number UK.VOL.INV.0148.2024

The inventory of Greenhouse Gas emissions in the period 1st November 2023 to 31st October 2024 of:

Ciena

7035 Ridge Road,
Hanover,
MD21076 USA

has been verified in accordance with ISO 14064-3:2019 as meeting the principles of Transparency, Accuracy, Consistency and Relevance to represent a total amount of:

Scope 1 **1,709 tCO₂e**
Scope 2 **0 tCO₂e** (Market Based)
Scope 2 **14,275 tCO₂e** (Location Based)
Scope 3 **1,722,455 tCO₂e**

For the following activities

Manufacturing, research and development and office facilities and / or laboratory facilities, product transportation, employee commuting, business travel, contract manufacturing (purchased goods and services), fuel and energy related activities and waste disposal.

Lead Assessor: Diane Carling
Technical Reviewer: Laura Berns

Authorised by:

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Business Manager
SGS United Kingdom Ltd

Verification Statement Date: 30th May 2025

This Statement is not valid without the full verification scope, objectives, criteria, and conclusion available on pages 2 to 4 of this Statement.



Schedule Accompanying Greenhouse Gas Verification Statement Number UK.VOL.INV.0148.2024

Brief Description of Verification Process

SGS has been contracted by Ciena for the verification of direct and indirect carbon dioxide (CO₂) equivalent emissions as provided by Ciena, 7035 Ridge Road, Hanover, MD21076 USA in their GHG Assertion in the form of a Greenhouse Gas Emissions Report covering CO₂ equivalent emissions.

Statement Of Independence and Competence

The SGS Group of companies is a world leader in inspection, testing and verification, operating in more than 140 countries and providing services including management systems and service certification; quality, environmental, social, and ethical auditing, and training; environmental, social and sustainability report assurance. SGS United Kingdom Limited affirms its independence from Ciena being free from bias and conflicts of interest with the organisation, its subsidiaries, and stakeholders. The assurance team was assembled based on their knowledge, experience, and qualifications for this assignment and conducted in accordance with the SGS Code of Integrity.

Roles and Responsibilities

The management of Ciena is responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.

It is SGS' responsibility to express an independent GHG verification opinion on the emissions as provided in the Ciena GHG Assertion for the period 1st November 2023 to 31st October 2024. As independent auditors to Ciena our work was conducted based on current best practice in independent verification and in accordance with SGS policies regarding impartiality and independence. SGS has no conflict of interest in relation to providing these services to Ciena.

SGS conducted a third-party verification following the requirements of ISO 14064-3:2019 of the provided CO₂ equivalent assertion during the period April to May 2025.

The verification and assurance methodology employed by SGS was based upon the internationally recognized standard ISO 14064-3:2019 - Specification with guidance for the validation and verification of greenhouse gas assertions. The assurance was comprised of a combination of desk-based documentation review and telephone interviews with relevant employees. The verification was based on the verification scope, objectives and criteria as agreed between Ciena and SGS on 3rd March 2025.

Level of Assurance

The level of assurance agreed is a limited level of assurance.

Materiality

The materiality required of the verification was considered by SGS to be 10% based on the needs of the intended user of the GHG assertion. Data and information supporting the CO₂ equivalent assertion were historical in nature and proven by evidence or estimated using the best available data.



Scope

Ciena has commissioned an independent verification by SGS of reported CO₂ equivalent emissions arising from their activities. The objective of the verification assessment is to establish conformance with applicable verification criteria within the scope of the verification, to enable submission of verified emissions data for the CDP. Data and information supporting the CO₂ equivalent assertion was historical in nature and proven by evidence.

This engagement covers verification of emissions from anthropogenic sources of greenhouse gases included within the organization's boundary.

- The organizational boundary was established following the operational control approach.
- Title or description of activities: Manufacturing, research and development, laboratories and office facilities.
- Location/boundary of the activities: Global including; USA, Canada, India, Australia, United Kingdom, Japan, Brazil, Singapore, Argentina, Germany, South Korea, China, Israel, Mexico, Philippines, Russia, and UAE.
- Physical infrastructure, activities, technologies and processes of the organization: offices, laboratories.
- GHG sources, sinks and/or reservoirs included:
 - Scope 1 – stationary combustion, mobile combustion, refrigerants
 - Scope 2 – purchased electricity.
 - Scope 3 emissions include:
 - Category 1 Purchased Goods and Services
 - Category 3 Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2 (FERA)
 - Category 4 Upstream transportation and distribution
 - Category 5 Waste Generated in Operations
 - Category 6 Business Travel
 - Category 7 Employee Commuting
 - Category 11 Use of sold products.
 - Category 12 End of life treatment of sold products.
- Types of GHGs included: CO₂, N₂O, CH₄, and HFCs
- Directed actions: none.
- GHG information for the following period was verified 1st November 2023 to 31st October 2024
- Intended user of the verification statement: Internal and external stakeholders.

Objective and Criteria

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the CO₂ equivalent emissions are as declared by the organization's CO₂ equivalent assertion
- That the data reported are accurate, complete, consistent, transparent, and free of material error or omission.

Materiality

The materiality required of the verification was considered by SGS to be below 10%, based on the needs of the intended user of the GHG Assertion.



Conclusion

The GHG information for the period 1st November 2023 to 31st October 2024 disclosing gross emissions of 1,724,164 metric tonnes of CO₂ equivalent (market-based) are verified by SGS to a limited level of assurance, consistent with the agreed verification scope, objectives, and criteria.

Scope	Metric tonnes of CO ₂ equivalent
Scope 1	1,709
Scope 2 (market-based)	0
Scope 2 (location-based)	14,275
Scope 3	1,722,455

SGS' approach is risk-based, drawing on an understanding of the risks associated with modelling GHG emission information and the controls in place to mitigate these risks. Our examination included assessment, on a sample basis, of evidence relevant to the voluntary reporting of emission information.

SGS concludes with limited assurance that there is no evidence to suggest that the reported CO₂ equivalent assertion is not materially correct and is not a fair representation of GHG information based on the calculation methodologies utilized.

During the verification process some examples of good practice as well as some opportunities for improvement in underlying processes were identified and reported with the aim of enabling a process of continual improvement in collection and reporting of data.

Ciena continues to improve the quality of data from suppliers, sites and has invested in ESG software to assist the process.

Opportunities for Improvement

- Some site Scope 1 and 2 data for operations is estimated because of the nature of the operation and access to data, they continue to work with third parties to improve the data quality.
- The waste data from sites continues to develop, estimates are applied for waste for a number of sites. Evidence from waste contractor records would improve the transparency and the accuracy of the data.
- The staff commute data includes consideration of employees contracted to work from home, but consideration needs to be extended for hybrid working.

We planned and performed our work to obtain the information, explanations, and evidence that we considered necessary to provide limited level of assurance that the CO₂ equivalent emissions are fairly stated.

This statement shall be interpreted with the CO₂ equivalent assertion of Ciena as a whole.

Note: This Statement is issued, on behalf of Client, by SGS United Kingdom Ltd, Rossmore Business Park, Inward Way, Ellesmere Port, Cheshire, CH65 3EN ("SGS") under its General Conditions for GHG Validation and Verification Services. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement and the supporting GHG Assertion may be consulted via Ciena. This Statement does not relieve Client from compliance with any bylaws, federal, national, or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.