Statement CN25/00004214

Product Carbon Footprint Verification Statement

The Carbon Footprint Study of Product
A2C7671291300
which was conducted by

Gultech (Suzhou) Electronics Co., Ltd.

No. 80, Suhong West Road, Suzhou Industrial Park, Jiangsu Province, P.R. China

has been verified by SGS as meeting the requirements of
ISO 14067:2018

The carbon footprint of 1 m² printed circuit board (specification A2C7671291300) of is 137.5 kg CO_2e

For the life cycle stages of the product:
from cradle to gate

Authorized by
David Xin
Sr. Director – Business Assurance
Date: 20 June 2025

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This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.

SGS-CSTC Standards Technical Services Co., Ltd. (hereinafter referred to as "SGS") has been commissioned by Gultech (Suzhou) Electronics Co., Ltd. (hereinafter referred to as "the client") to verify the carbon footprint (hereinafter referred to as "CFP") study and statement of product A2C7671291300 (hereinafter referred to as "the product system") conducted by Gultech (Suzhou) Electronics Co., Ltd. (hereinafter referred to as "the responsible party"), in accordance with

ISO 14064-3:2019

Roles and Responsibilities

The responsible party is responsible for the management of the product GHG information system, the development and maintenance of records and reporting procedures in accordance with ISO 14067:2018, including the calculation and determination of the life cycle GHG emissions and removals of the product system, and preparing the CFP study report and the CFP statement.

It is SGS's responsibility to express an independent verification opinion on the responsible party's statement on the CFP of the product system.

SGS has conducted a third-party verification of the CFP study provided by the responsible party from June 12, 2025 to June 13, 2025. The verification was based on the verification scope, objectives and criteria as agreed between the client and SGS.

Level of Assurance

The level of assurance agreed upon was that of reasonable assurance.

Scope

The client has commissioned an independent verification to SGS on the CFP study of the product system to verify the conformance with ISO 14067:2018 with the scope of the verification as outlined below:

- The CFP Study: 1 m^2 printed circuit board A2C7671291300 product carbon footprint report, Ver.2, June 14, 2025.
- The product system: A2C7671291300.
- Product Category Rule (PCR): No relevant PCR identified or applied.
- Functional unit: m^2.
- System boundary: It included the raw material acquisition stage and the manufacturing stage.

- Data resources: the primary data were collected from manufacturing sites. The secondary data were collected from Ecoinvent, China Products Carbon Footprint Factors Database (CPCD) and website.
- GWP: IPCC 2021 GWP values were applied in the study.
- Life cycle assessment tool: SimaPro, version 10.2.0.0.
- Cut-off rules: In general, all processes and flows that were attributable to the product system are included. Based on the product input/output proportion, materials/energy inputs/outputs with a mass/energy contribution of less than 1% may be excluded, but the total proportion of excluded materials/energy must not exceed 5%.
- Allocation rules:
  - Wherever possible, allocation was avoided.
  - Where allocation could not be avoided, allocation was conducted in a way reflecting the underlying physical relationships.
  - Allocation was conducted based on socioeconomics other than physical relationships.
- Manufacturing locations: No. 80, Suhong West Road, Suzhou Industrial Park, Jiangsu Province, P.R. China.
- GHG emissions and removals of the product system included: please refer to the CFP study report provided by the responsible party: 1 m^2 printed circuit board A2C7671291300 product carbon footprint report, Ver.2, June 14, 2025.
- GHGs included: CO_2, CH_4, N_2O, NF_3, SF_6, HFCs, and PFCs, as listed in the latest IPCC Assessment Report.
- Mitigation: There was no carbon offsetting used in this CFP study.
- The time boundary for data: From January 01, 2024 to December 31, 2024.
- Intended user of the verification statement: Customer, the public, investors, etc.

Objective

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

- Whether the CFP study was conducted according to ISO 14067:2018.
- Whether the life cycle GHG emissions and removals of the product system were as declared by the product's CFP study report.
- Whether the data reported were accurate, complete, consistent, transparent and free of material error or omission.

Criteria

The criteria used by the responsible party to conduct this CFP study was ISO 14067:2018, against which SGS used to make the verification conclusion.

Materiality

The materiality required for the verification was considered by SGS as 5%, based on the needs of the intended user of the GHG Assertion.

Conclusion

The responsible party has conducted the CFP study and made the GHG assertion in accordance with the requirements of ISO 14067:2018. SGS concludes with a reasonable level of assurance that the presented GHG statement on the carbon footprint of the product above is materially correct and is a fair representation of the GHG emissions and removals, complying with the requirements of the criteria outlined above.

The CFP of the product is 137.50 kilograms of CO_2 equivalent per m^2.

The life cycle GHG emissions of the product system for each life stage are described below:

Life Cycle Stages	GHG Emissions	Unit
Raw material acquisition	66.26	kilograms of CO_2 equivalent
Production	71.24	kilograms of CO_2 equivalent
Total	137.50	kilograms of CO_2 equivalent

SGS's approach was risk-based, drawing on an understanding of the risks associated with reporting the life cycle GHG emissions of product information and the controls in place to mitigate these risks. Our examination included an assessment of evidence relevant to the amounts and disclosures in relation to the organization's reported life cycle GHG emissions of the product.

We planned and performed our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance.

We conducted the verification with regard to the GHG assertion of the CFP study which included an assessment of the GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied.

This statement shall be interpreted with the CFP study report of 1 m^2 printed circuit board A2C7671291300 product carbon footprint report, Ver.2, June 14, 2025. If the carbon footprint of the product changes by more than 10%, it shall undergo re-verification by SGS to maintain the validity of this statement.

Note: This Statement is issued, on behalf of the Client, by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Green Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at the responsible party. 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.

This carbon footprint verification statement is executed in English, with a Chinese version provided. In the event of any discrepancies between the translations, the English version shall take precedence.

声明书编号 CN25/00004214

产品碳足迹核查声明书

A2C7671291300 产品的碳足迹研究

由以下公司开展：

高德（苏州）电子有限公司

中国江苏省苏州市工业园区苏虹西路 80 号

经 SGS 核查符合以下标准要求：

ISO 14067:2018

1m²印刷线路板（规格 A2C7671291300）产品的碳足迹为 137.5kg CO_2e

被核查产品的生命周期阶段为
从摇篮到大门

签署
David Xin
Sr. Director - Business Assurance
日期：2025 年 06 月 20 日

通标标准技术服务有限公司
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This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 4 of this Statement.

通标标准技术服务有限公司（以下简称 SGS）受高德（苏州）电子有限公司（以下简称“客户”）委托，根据以下标准，对由高德（苏州）电子有限公司（以下简称“责任方”）进行的关于 A2C7671291300（以下简称“产品系统”）的产品碳足迹（以下简称 “CFP”）研究和声明进行核查。

ISO 14064-3:2019

角色和责任

责任方负责依据 ISO 14067:2018 进行产品温室气体信息系统管理，开发和维护记录及报告程序，包括计算和确定产品系统生命周期温室气体的排放与清除，并编制碳足迹研究报告和碳足迹声明。

SGS 负责对责任方关于产品系统的产品碳足迹声明发表独立的核查意见。

SGS 于 2025 年 06 月 12 日至 2025 年 06 月 13 日对责任方提供的产品碳足迹研究报告进行了第三方核查。核查是基于客户与 SGS 商定的核查范围、目标和准则。

保证等级

商定的保证等级为合理保证。

适用范围

客户委托 SGS 对产品系统的碳足迹声明进行独立核查，以确保其符合 ISO 14067:2018 标准，核查范围如下所述：

这一协议涵盖依据ISO 14067:2018要求，对产品系统生命周期内温室气体排放和清除的核查。

- CFP 研究：1m²印刷线路板 A2C7671291300 产品碳足迹研究报告，Ver.2，2025 年 06 月 14 日。
- 产品系统：A2C7671291300。
- 产品类别规则（PCR）：未识别或应用相关 PCR。
- 功能单位：平方米。
- 生命周期阶段：包括原材料获取阶段和制造阶段。
- 数据资源：初级数据来源于制造现场；次级数据来自 Ecoinvent、中国产品全生命周期温室气体排放系数库（CPCD）以及网站。
- GWP：采用 IPCC 2021 的 GWP 值。
- 生命周期评价工具：SimaPro，版本号：10.2.0.0。
- 取舍准则：总体上，所有归因于产品系统的过程和流都被纳入考虑。基于产品输入/输出的占比，舍去质量/能量贡献小于 1%的输入/输出，但总的材料/能量舍去比例不超过 5%。
- 分配原则：
  - 在可能的情况下，尽量避免分配；

- 当无法避免分配时，依据物理关系分配；
- 当无法依据物理关系进行分配时，根据社会经济学进行分配。

- 制造地点：中国江苏省苏州市工业园区苏虹西路 80 号。
- 产品系统的温室气体排放和清除包括：请参考责任方提供的产品碳足迹研究报告：1m²印刷线路板 A2C7671291300 产品碳足迹研究报告，Ver.2，2025 年 06 月 14 日。
- 评价所包括的温室气体类型有：CO_2、CH_4、N_2O、NF_3、SF_6、HFC_s、PFC_s，参照最新的 IPCC 评估报告所列。
- 缓解措施：本研究未采用碳抵消。
- 数据的时间边界：2024 年 01 月 01 日至 2024 年 12 月 31 日。
- 核查声明的预期使用者：客户、公众、投资方等。

目标

本次核查目的是通过评审客观证据，独立核查：

- 责任方的产品碳足迹研究是否按照 ISO 14067:2018 进行；
- 产品生命周期温室气体排放和清除是否如产品碳足迹研究报告所述；
- 所报告的数据是否是准确的、完整的、一致的、透明的，且不存在重大错误或遗漏。

准则

责任方进行本次产品碳足迹研究所采用的标准是 ISO 14067:2018，SGS 据此标准得出核查结论。

重要性

基于预期用户的需要，本次核查的重要性阈值定为 5%。

结论

责任方依据 ISO 14067:2018 要求完成了产品碳足迹研究和声明。SGS 以合理保证等级得出结论，认为其所呈现的产品碳足迹声明在实质上是正确的，并且合理地反映了温室气体的排放和清除，与商定的核查范围、目标和准则一致。

产品的碳足迹为每平方米 137.50 千克二氧化碳当量。

产品系统各生命周期阶段温室气体排放如下：

生命周期阶段	温室气体排放量	单位
原材料获取阶段	66.26	千克二氧化碳当量
生产阶段	71.24	千克二氧化碳当量
合计	137.50	千克二氧化碳当量

SGS 采用风险评估方法为基础，理解所报告的温室气体信息相关的风险并加以控制，从而减轻风险。我们的核查包括评估与产品系统的生命周期温室气体排放和清除相关数量证据和报告披露。

SGS 策划并实施相关工作来获取必要的信息、解释和证据，以提供合理保证等级。

SGS 对产品系统的产品碳足迹研究报告和声明进行了核查，包括对温室气体信息系统、监控和报告计划/协议的评估。评估包括收集用以支持所报告数据的证据，以及检查所参考的协议条款是否被一致和适当地应用。

本核查声明书应与产品系统的产品碳足迹研究报告(1m²印刷线路板 A2C7671291300 产品碳足迹研究报告，Ver.2，2025 年 06 月 14 日)作为一个整体进行解读。如果产品碳足迹发生大于 10%的变化，需经 SGS 重新核查才能维持本声明书的持续有效性。

备注： 本声明由通标标准技术服务有限公司按照 SGS 温室气体审定与核查服务通用条款（条款可在 http://www.sgs.com/terms_and_conditions.htm 查阅）代表客户发布。此声明的内容基于核查结果编制。完整声明、核查发现及责任方温室气体声明可向责任方查询获得。本核查声明不可解除客户应遵守国家法律法规、以及任何被发布国际指引的责任。此核查声明不对 SGS 造成约束，SGS 没有责任面对除其客户以外的任何一方。

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