附件1 仪器质检报告及计量认证及风向风速仪校准证书

深圳市中测计量检测技术有限公司
Shenzhen Sinotest Measurement Technology Co.,Ltd.

中国认可 国际互认 校准 CALIBRATION CNAS L4085

Calibration Certificate

Certi icate No. ST202409007219

Client Name

Address !4718 "6 #10 $

Description % & ' ( )VOCs * + ,

Model/Type - / . / FID3

Manufacturer 0 1 2 3

Serial No. % & 3081017

Management No. 6 7 /

Date ofReceipt 8 9 : ;	2024 Year	08 Month	31 Day
Calibration Date > ? : ;	2024 Year	08 Month	31 Day
Due Date @ A B C > ? : ;	2025 Year	08 Month	30 Day
Issue Date D E : ;	2024 Year	08 Month	31 Day

D 2 3(F G H)

Issued by

I ? J: Approved by

K L M: Inspected by

> ? M: Calibrated by

N O P Q R S T U V W X Y Q Z [\ 4] ^ _ ' a b _ c d
B e3 $ f4 $

ADD NFloor 3, floor 4, building B, Haoye branch, Baoan Taohuayuan Science and Technology Innovation Park, Fenghuanggang community, Xixiang Street, Bao 'an district, Shenzhen

g N518102
h i N0755-27780080
j Nwww.sinotest.cn
Email N888@sinotest.cn

DIRECTIONS

Our company is an independent third-party calibration services.

SI /

The data in this certificate can be traced to International System of Units (SI) and/or social public measurement standards.

The calibration certificate contains data and information applies only to the calibrated instrument.

The calibration certificate has uniqueness, we only charge of original certificate.

“ ”

Copying or using select parts or tampering with this document without the permission of our company is forbidden.

Copies of this certificate without an official stamp of calibration are not valid.

Authentication marks on certificates are printed to be valid, and other forms of affirmation marks are invalid.

This certificate of content with our final interpretation.

CNAS

Parameter with asterisk ‘ ’ is not within the accreditation by CNAS.

CNAS CNAS

Reference documents for the Calibration and the CNAS accreditation range, Beyond the scope of the data is not within the accreditation by CNAS

JJF( )033-2020

本次校准使用主要计量标准器具
Main Standards of Measurement Used

Description	Equipment No.	Certificate No.	Due date	Actuator
	B053-1	GBW(E)084001	2025-08-04	
	DX-BZ-012	WSP202401302	2025-07-04	

附加说明
Appended Directions

: 539 96
Operation Location

: : : %
Operation Environment Temperature 20.3 Relative Humidity 53

:
Statement of Compliance Limitation

深圳市中测计量检测技术有限公司
Shenzhen Sinotest Measurement Technology Co.,Ltd.

Results of Calibration

Certi icate No. ST202409007219 Page 3 of 3

1. k l m n o p * q N

(Appearance & Working Performance Check) r s(Pass)

2. t u v w N

Indication Error

x ? u Standard Value	t u Indication	v w Error	MPE	z { Pass/Fail
500 |mol/mol	501 |mol/mol	+0.2%	–10%	P
2003 |mol/mol	1999 |mol/mol	-0.2%	–10%	P
10002 |mol/mol	10000 |mol/mol	0.0%	–10%	P

3. } ~ o N

Repeatability

x ? u Standard Value	} ~ o Repeatability	] Technical Requirement	z { Pass/Fail
500 |mol/mol	0.6%	2%	P

4. N

Response Time

x ? u Standard Value	Response Time	] Technical Requirement	z { Pass/Fail
10002 |mol/mol	4.00s	10s	P

: C + z N

(The Expanded Uncertainty of the Measurement Result Is)

U_{rel}=1.5%; N U=0.5s k=2

(JJF1059.1-2012 + t

(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

---------- B (Blank below)----------

深圳市中测计量检测技术有限公司
Shenzhen Sinotest Measurement Technology Co.,Ltd.

Calibration Certificate

Certificate No. ST202409007243

Client Name

Address 4718 6 10

Description VOCs

Model/Type / FID3 Manufacturer

Serial No. 8081011 Management No. /

Date of Receipt 2024 Year 08 Month 31 Day

Calibration Date 2024 Year 08 Month 31

Due Date 2025 Year 08 Month

Issue Date 2024 Year 08 Month

DIRECTIONS

Our company is an independent third-party calibration services.

SI /

The data in this certificate can be traced to International System of Units (SI) and/or social public measurement standards.

The calibration certificate contains data and information applies only to the calibrated instrument.

The calibration certificate has uniqueness, we only charge of original certificate.

“ ”

Copying or using select parts or tampering with this document without the permission of our company is forbidden.

Copies of this certificate without an official stamp of calibration are not valid.

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This certificate of content with our final interpretation.

CNAS

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CNAS CNAS

Reference documents for the Calibration and the CNAS accreditation range, Beyond the scope of the data is not within the accreditation by CNAS

JJF( )033-2020

本次校准使用主要计量标准器具
Main Standards of Measurement Used

Description	Equipment No.	Certificate No.	Due date	Actuator
	B053-1	GBW(E)084001	2025-08-04	
	DX-BZ-012	WSP202401302	2025-07-04	

附加说明
Appended Directions

Operation Location : 539 96

Operation Environment : Temperature : 20.3 Relative Humidity : 53 %

Statement of Compliance Limitation :

Results of Calibration

Certi深 ST202409007243 Page 3 of 3

1.
(Appearance & Working Performance Check) (Pass)

2.
Indication Error

Standard Value	Indication	Error	MPE	Pass/Fail
500 μmol/mol	502 μmol/mol	+0.4%	±10%	P
2003 μmol/mol	2007 μmol/mol	+0.2%	±10%	P
10002 μmol/mol	10009 μmol/mol	+0.1%	±10%	P

3.
Repeatability

Standard Value	Repeatability	Technical Requirement	Pass/Fail
500 μmol/mol	0.8%	≤2%	P

4.
Response Time

Standard Value	Response Time	Technical Requirement	Pass/Fail
10002 μmol/mol	4.08s	≤10s	P

:
(The Expanded Uncertainty of the Measurement Result Is)

U_{rel}=1.5%; U=0.5s k=2

(JJF1059.1-2012
(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

---------- (Blank below)----------

深圳市中测计量检测技术有限公司
Shenzhen Sinotest Measurement Technology Co.,Ltd.

Calibration Certificate

Certificate No. ST202409007198 Page of

Client Name

Address 4718 6 10

Description VOCs

Model/Type / FID4 Manufacturer

Serial No. 1021009 Management No. /

Date of Receipt 2024 Year 08 Month 31 Day

Calibration Date 2024 Year 08 Month 31 Day

Due Date 2025 Year 08 Month 30 Day

Issue Date 2024 Year 08 Month 31 Day

( )

Approved by :

Inspected by :

Calibrated by :

B 3 4

ADD Floor 3, floor 4, building B, Haoye branch, Baoan Taohuayuan Science and Technology Innovation Park, Fenghuanggang community, Xixiang Street, Bao 'an district, Shenzhen

518102

0755-27780080

www.sinotest.cn

Email 888@sinotest.cn

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JJF( )033-2020

本次校准使用主要计量标准器具
Main Standards of Measurement Used

Description	Equipment No.	Certificate No.	Due date	Actuator
	B053-1	GBW(E)084001	2025-08-04	
	DX-BZ-012	WSP202401302	2025-07-04	

附加说明
Appended Directions

Operation Location : 539 96

Operation Environment : Temperature : 20.3 Relative Humidity : 59 %

Statement of Compliance Limitation :

Results of Calibration

Certi深 ST202409007198 Page 3 of 3

1.
(Appearance & Working Performance Check) (Pass)

2.
Indication Error

Standard Value	Indication	Error	MPE	Pass/Fail
500 μmol/mol	502 μmol/mol	+0.4%	±10%	P
2003 μmol/mol	2001 μmol/mol	-0.1%	±10%	P
10002 μmol/mol	10000 μmol/mol	0.0%	±10%	P

3.
Repeatability

Standard Value	Repeatability	Technical Requirement	Pass/Fail
500 μmol/mol	0.4%	≤2%	P

4.
Response Time

Standard Value	Response Time	Technical Requirement	Pass/Fail
10002 μmol/mol	4.61s	≤10s	P

:
(The Expanded Uncertainty of the Measurement Result Is)
U_{rel}=1.5%; rel

深圳市中测计量检测技术有限公司
Shenzhen Sinotest Measurement Technology Co.,Ltd.

Calibration Certificate

Certificate No. ST202409007238

Client Name

Address 4718 6 10

Description VOCs

Model/Type / FID4 Manufacturer

Serial No. 2032004 Management No. /

Date of Receipt 2024 Year 08 Month 31 Day

Calibration Date 2024 Year 08 Month 31 Day

Due Date 2025 Year 08 Month 30 Day

Issue Date 2024 Year 08 Month 31 Day

( ) : Approved by

: Inspected by

: Calibrated by

B 3 4

ADD Floor 3, floor 4, building B, Haoye branch, Baoan Taohuayuan Science and Technology Innovation Park, Fenghuanggang community, Xixiang Street, Bao 'an district, Shenzhen

518102

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Email 888@sinotest.cn

DIRECTIONS

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JJF( )033-2020

本次校准使用主要计量标准器具
Main Standards of Measurement Used

Description	Equipment No.	Certificate No.	Due date	Actuator
	B053-1	GBW(E)084001	2025-08-04	
	DX-BZ-012	WSP202401302	2025-07-04	

附加说明
Appended Directions

Operation Location: 539 96

Operation Environment: Temperature: 20.3 Relative Humidity: 53 %

Statement of Compliance Limitation:

Results of Calibration

Certi深 ST202409007238 Page 3 of 3

1.
(Appearance & Working Performance Check) (Pass)

2.
Indication Error

Standard Value	Indication	Error	MPE	Pass/Fail
500 μmol/mol	501 μmol/mol	+0.2%	±10%	P
2003 μmol/mol	2005 μmol/mol	+0.1%	±10%	P
10002 μmol/mol	9999 μmol/mol	0.0%	±10%	P

3.
Repeatability

Standard Value	Repeatability	Technical Requirement	Pass/Fail
500 μmol/mol	0.8%	≤2%	P

4.
Response Time

Standard Value	Response Time	Technical Requirement	Pass/Fail
10002 μmol/mol	4.03s	≤10s	P

:
(The Expanded Uncertainty of the Measurement Result Is)

U_{rel}=1.5%; U=0.5s k=2

(JJF1059.1-2012
(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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深圳市中测计量检测技术有限公司

Shenzhen Sinotest Measurement Technology Co.,Ltd.

中国认可 国际互认 校准 CALIBRATION CNAS L4085

Calibration Certificate

Certificate No. ST202409007275

Client Name

Address 4718 6 10

Description VOCs

Model/Type / FID4 Manufacturer

Serial No. 2032007 Management No. /

Date of Receipt 2024 Year 08 Month 31 Day

Calibration Date 2024 Year 08 Month

Due Date 2025 Year 08 Tf.Tf/a

Issue Date 2024 Year

DIRECTIONS

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SI /

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CNAS CNAS

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JJF( )033-2020

本次校准使用主要计量标准器具
Main Standards of Measurement Used

Description	Equipment No.	Certificate No.	Due date	Actuator
	B053-1	GBW(E)084001	2025-08-04	
	DX-BZ-012	WSP202401302	2025-07-04	

附加说明
Appended Directions

: 539 96

Operation Location

: : :

Operation Environment Temperature 20.3 Relative Humidity 53 %

:

Statement of Compliance Limitation

Results of Calibration

Certi深 ST202409007275

1.
(Appearance & Working Performance Check) (Pass)

2.
Indication Error

校 准 证 书
Calibration Certificate

CALIBRATION
CNAS L5138

证书编号 *Certificate No.* Z2024N2-H195899

客户名称 *Client Name* 上海汉洁环境工程有限公司

地 址 *Address* 上海市静安区共和新路4718弄6号楼10层

仪器名称 *Description* 风速仪（风速部分）

型号/规格 *Model/Type* GM8910

制造厂商 *Manufacturer* BENETECH

出厂编号 *Serial Number* 2599801

管理编号 *Management No.*

接收日期 *Date of Receipt* 2024 年 *Year* 08 月 *Month* 15 日

校准日期 *Calibration Date* 2024 年 *Year* 08 月 *Month* 17 日 *Day*

建议下次校准日期 *Due Date* 2025 年 *Year* 08 月 *Month* 16 日 *Day*

发布日期 *Issue Date* 2024 年 *Year* 08 月 *Month* 17 日 *Day*

发证单位(专用章) *Issued by (stamp)*

批准: *Approved by*

核验: *Inspected by* 何芬

校准: *Calibrated by*

地址：广东省深圳市龙岗区锦龙大道2号
ADD：No.2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China
电话（TEL）：0755-84815081
邮编(Post Code)：518116
网址：http://www.tiansu.org
Email：zskf@tiansu.org

说　　明
DIRECTIONS

1. 本实验室质量管理体系依据ISO/IEC17025:2017建立。
   The laboratory quality management systems document is established according to ISO/IEC17025:2017.
2. 本证书中的数据均可溯源至国际单位制（SI）单位和/或社会公用计量标准。
   The data in this certificate can be traced to International System of Units (SI) and/or social public measurement standards.
3. 本证书未经签章、数据涂改、或分离使用均无效。未经我司书面批准，不得部分复制此证书。校准结果仅对受测仪器当时之情况负责。
   The Certificate is invalid when no stamp sealed on, data alteration or separate use. Without our written approval, the certification should not be partially duplicated. The calibration results are only responsible for calibration conditions of the instrument at the time.
   本证书具有唯一性，带有相同证书编号、按页码顺序的组成页为校准证书，我司对本证书的内容拥有最终解释权。
   The certificate is unique,and made up of pages with same certificate number and serial order,and reserves final explanation right of the certificate contents.
5. 证书中最大允许误差、判定结果仅供参考，其中“P”代表“合格”，“F”代表“不合格”。
   MPE & judgement result in the datasheet is only for reference,"P"is"Pass""F"is "Fail".
6. 若被校仪器属于强检范畴，按照法规要求，不能替代检定证书。
   If the instrument belongs to compulsory test field, the corresponding calibration can not replace the verification according to the compulsory regulations.
7. 带※的参数项目表示不在CNAS认可范围内。
   Parameter with asterisk '※' is not within the accreditation by CNAS.



校 准 结 果
Results of Calibration

1.外观及工作性能检查：
(Appearance & Working Performance Check) 符合(Pass)

2.风速校准：
Wind Speed Calibration

风速点 *Wind Point*	标准风速 *Standard Wind Speed Value*	风速示值 *Wind Speed Indication*	修正值 *Correction Value*	允差 *MPE*	结论 *Pass/Fail*
2m/s	2.00m/s	2.0m/s	0.0m/s	±0.60m/s	P
5m/s	5.00m/s	5.2m/s	-0.2m/s	±0.75m/s	P
10m/s	10.00m/s	10.3m/s	-0.3m/s	±1.00m/s	P
15m/s	15.00m/s	15.5m/s	-0.5m/s	±1.25m/s	P
20m/s	20.00m/s	20.6m/s	-0.6m/s	±1.50m/s	P
25m/s	25.00m/s	25.6m/s	-0.6m/s	±1.75m/s	P
30m/s	30.00m/s	30.7m/s	-0.7m/s	±2.00m/s	P

说明:本次测量结果的扩展不确定度为：
(The Expanded Uncertainty of the Measurement Result Is)
(2～5)m/s，U=0.20m/s；(>5～30)m/s，U=0.60m/s k=2
(依据JJF1059.1-2012测量不确定度评定与表示)
(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

----------以下空白(Blank below)----------

深圳天溯计量检测股份有限公司
ShenZhen Tiansu Calibration and Testing Co., Ltd.

校 准 证 书
Calibration Certificate

中国认可
国际互认
校准
CALIBRATION
CNAS L5138

证书编号 Z20241-H211130
Certificate No.

客户名称 上海汉洁环境工程有限公司
Client Name

地 址 上海市静安区共和新路4718弄6号楼10层
Address

型号/规格 GM8910 制造厂商 BENETECH
仪器名称 *Manufacturer*

出厂编号 2599801 管理编号
Serial Number *Management No.*

接收日期 *Date of Receipt*	2024 年 *Year*	08 月 *Month*	15 日 *Day*
校准日期 *Calibration Date*	2024 年 *Year*	08 月 *Month*	16 日 *Day*
建议下次校准日期 *Due Date*	2025 年 *Year*	08 月 *Month*	15 日 *Day*
发布日期 *Issue Date*	2024 年 *Year*	08 月 *Month*	16 日 *Day*

发证单位(专用章)
Issued by (stamp

批准:
Approved by

核验:
Inspected by

校准:
Calibrated by

地址：广东省深圳市龙岗区锦龙大道2号
ADD：No.2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China
电话（TEL）：0755-84815081
邮编(Post Code)：518116
网址：http://www.tiansu.org
Email：zskf@tiansu.org

说　　明
DIRECTIONS

1. 本实验室质量管理体系依据ISO/IEC17025:2017建立。
The laboratory quality management systems document is established according to ISO/IEC17025:2017.

[redacted]

天溯 深圳天溯计量检测股份有限公司

校 准 结 果
Results of Calibration

证书编号 *Certificate No.* Z20241-H211130

1.外观及工作性能检查：
(Appearance & Working Performance Check) 符合(Pass)

2.湿度修正值（T=20℃）
Humidity correction value

校准点 *Calibration Point*	标准值 *Standard Value*	示值 *Indication*	修正值 *Correction*	允差 *MPE*	结论 *Pass/Fail*
40%RH	40.1%RH	44.3%RH	-4.2%RH	±5.0%RH	P
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Calibration Point	*Standard Value*	*Indication*	*Correction*	*MPE*	结论 *Pass/Fail*
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

说明:本次测量结果的扩展不确定度为：
(The Expanded Uncertainty of the Measurement Result Is)

湿度：U=1.5%RH 温度：U=0.3℃ k=2

(依据JJF1059.1-2012测量不确定度评定与表示)
(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

----------以下空白(Blank below)----------

校 准 证 书
Calibration Certificate

中国计量
国际互认
校准
CALIBRATION
CNAS L5138

证书编号 *Certificate No.* Z20242-H195992

客户名称 *Client Name* 上海汉洁环境工程有限公司

地 址 *Address* 上海市静安区共和新路4718弄6号楼10层

仪器名称 *Description* 风速仪（大气压部分）

型号/规格 *Model/Type* GM8910

制造厂商 *Manufacturer* BENETECH

出厂编号 *Serial Number* 2599801

管理编号 *Management No.*

接收日期 *Date of Receipt*	2024 年 *Year*	08 月 *Month*	15 日 *Day*
校准日期 *Calibration Date*	2024 年 *Year*	08 月 *Month*	17 日 *Day*
建议下次校准日期	2025 年	08 月	16 日
		Month	*Day*
发布日期 *Issue Date*	2024 年 *Year*	08 月	17 日 *Day*

发证单位(专用章) *Issued by (stamp)*

批准: *Approved by* (科室主任)

核验: *ected by*

校准: *Calibrated by*

地址：广东省深圳市龙岗区锦龙大道2号
ADD：No.2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China
电话（TEL）：0755-84815081
邮编(Post Code)：518116
网址：http://www.tiansu.org
Email：zskf@tiansu.org

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3. 本证书未经签章、数据涂改、或分离使用均无效。未经我司书面批准，不得部分复制此证书。校准结果仅对受测仪器当时之情况负责。
   The Certificate is invalid [illegible] Without

校准结果
Results of Calibration

证书编号 *Certificate No.* Z20242-H195992

1.外观及工作性能检查 符合(Pass)

(Appearance & Working Performance Check)

2.示值误差校准:

Indication Error Calibration

标准值 *Standard Value*	示值 *Indication*	示值误差 *IndicatingError*	允差 *MPE*	回程误差 *Repeatability*	允差 *MPE*	修正值 *Corrected Value*	结论 *Pass/Fail*
600hPa	599.90hPa	-0.10hPa	±5.0hPa	0.00hPa	≤2.5hPa	0.10hPa	
700hPa	699.95hPa	-0.05hPa	±5.0hPa	0.10hPa	≤2.5hPa	0.05hPa	P
800hPa	800.00hPa	0.00hPa	±5.0hPa	0.00hPa	≤2.5hPa	0.10hPa	