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VOL-01

PERFORMANCE QUALIFICATION PROTOCOL

Annex-01.02

Turn Over Package

FOR

RETAINED SAMPLE ROOM FOR RAW MATERIAL

(LB-025)

OF

UTOPIA PHARMACEUTICALS

10TH OF RAMADAN CITY

CLIENT:



QUALIFICATION PROVIDER:



Package Content:

VOL-01 Performance Qualification Protocol

Annex-01.01) Results Data Sheets

Annex-01.02) Turn Over Package (Attachments)

EGYPT: 26 Al Israa St., Lebanon Sq., Mohandseen, Giza, Egypt

KSA: 3321, Prince Mamdouh Bin Abdulaziz St., Al Sulaymaniyah, Riyadh, KSA

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VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

Content:

01.02.01.01	Main Cycle No. (1) Printouts
01.02.01.02	Power Failure Printouts
01.02.01.03	Door Opening Printouts
01.02.01.04	Raw Data (on CD)
01.02.01.05	Inspection Label
01.02.01.06	Reference Equipment Calibration Certificates
01.02.01.07	Inspection Certificate



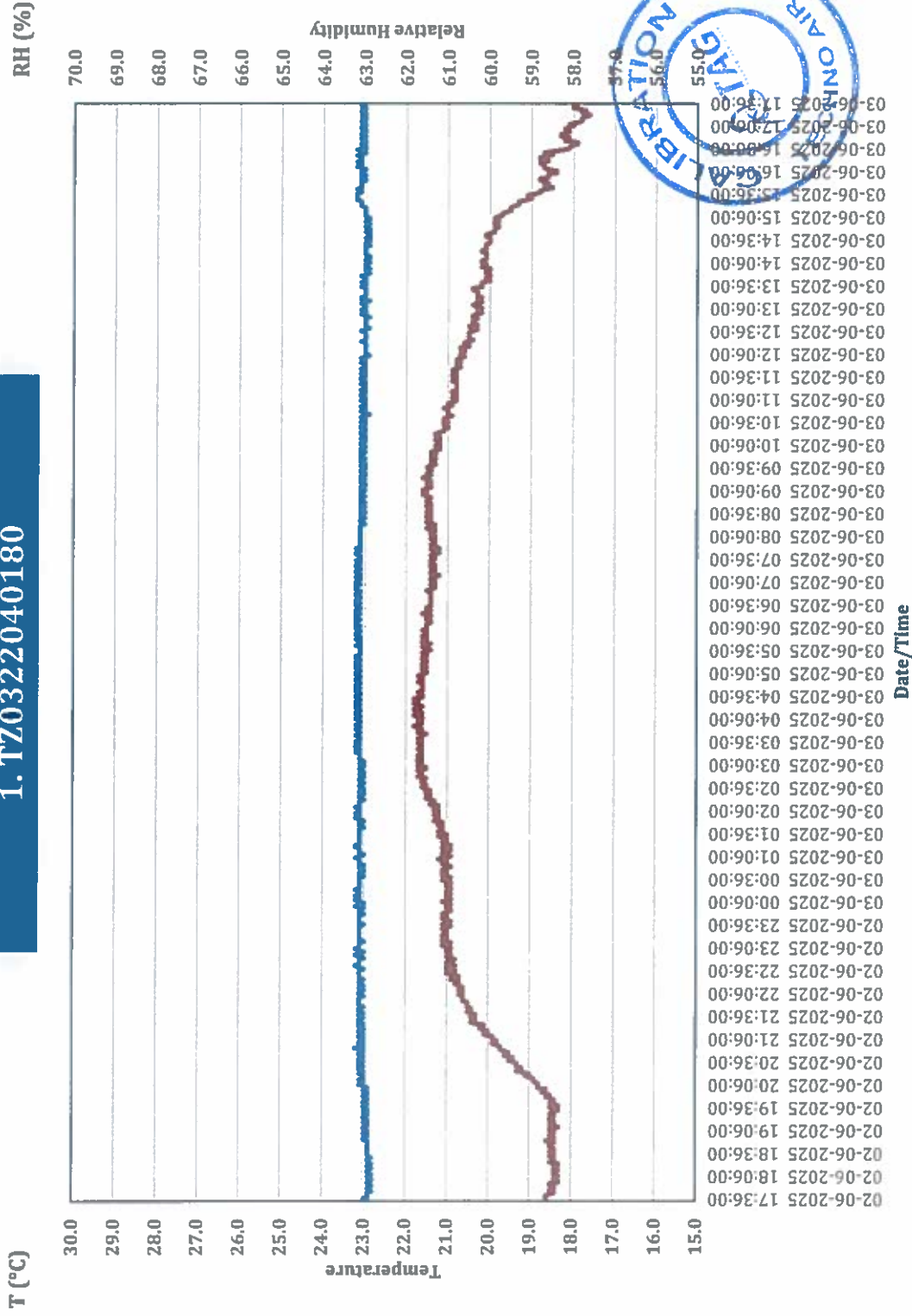
VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

ATTACHMENTS 01.02.01.01
Main Cycle Printouts



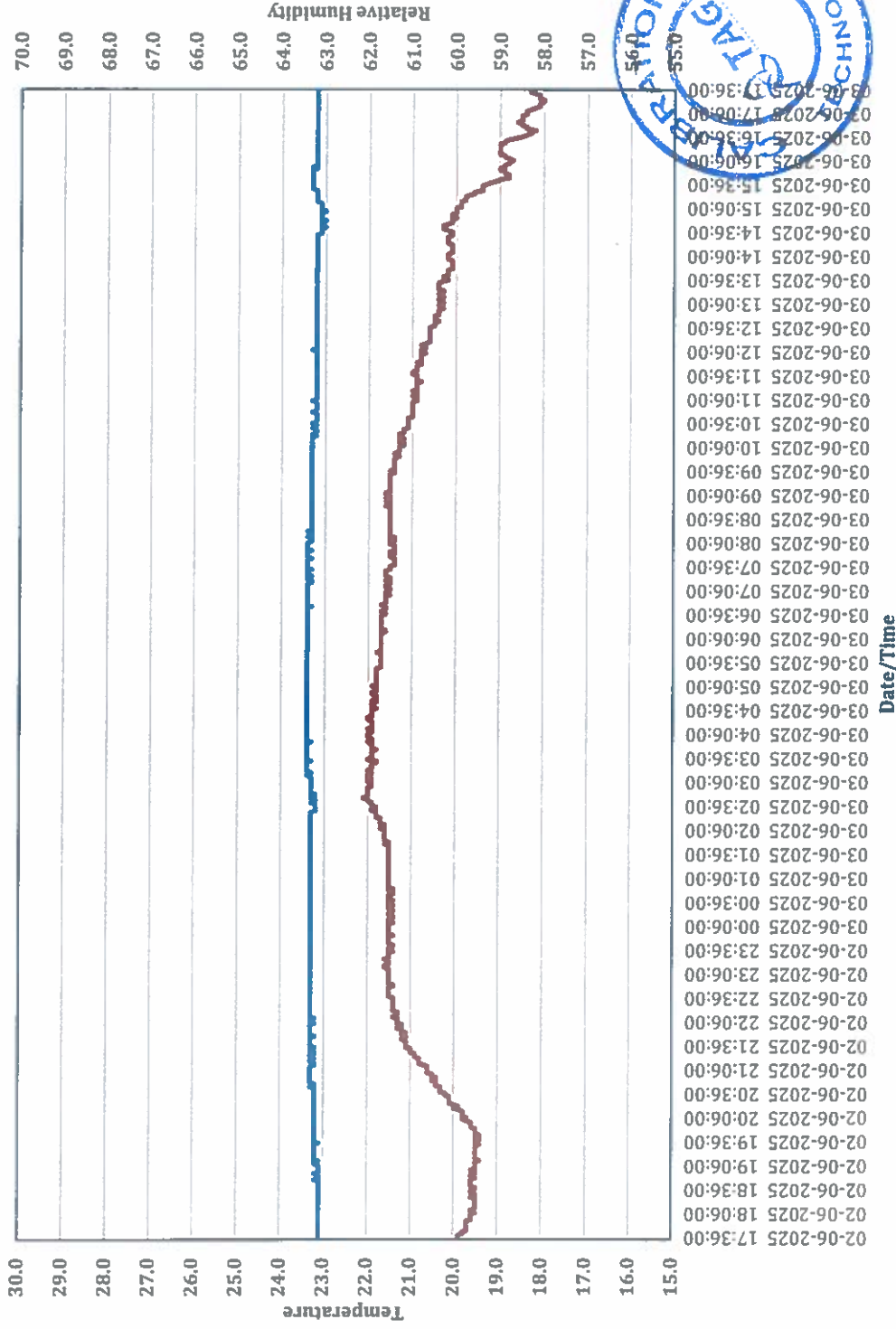
1. TZ0322040180



2. TZ0322041196

RH (%)

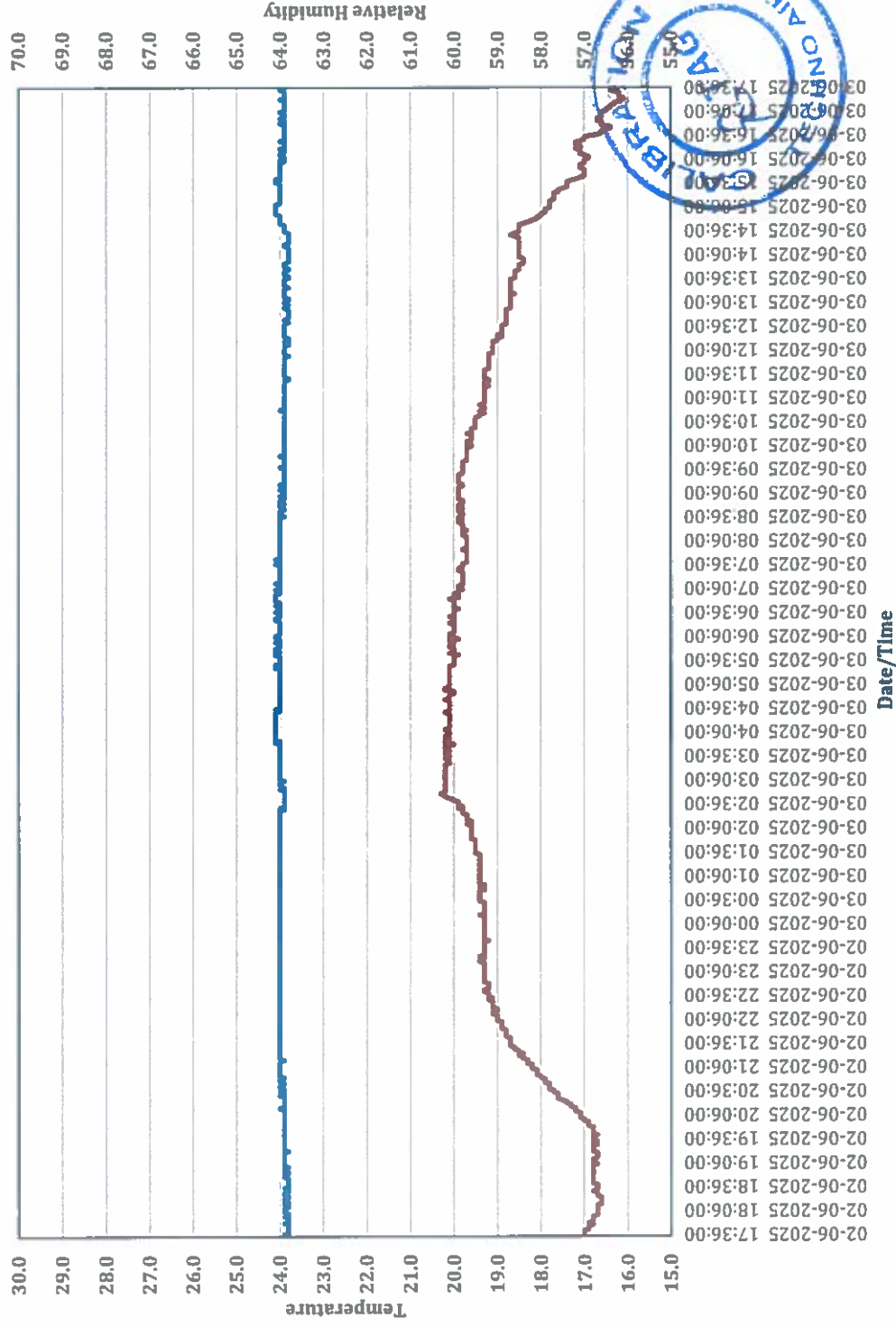
T (°C)



3. TZ0322041188

RH (%)

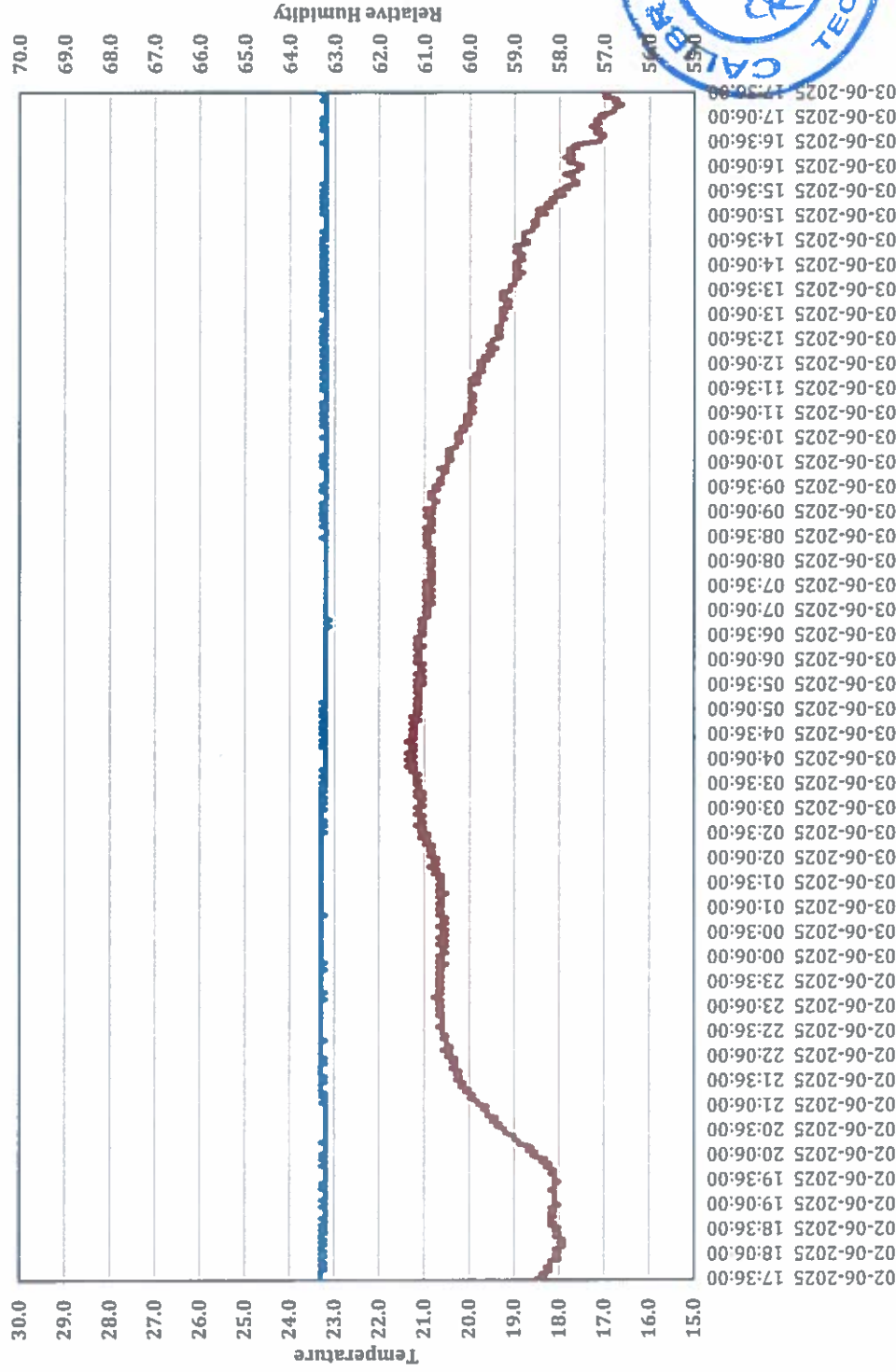
T (°C)



4. TZ0322040169

RH (%)

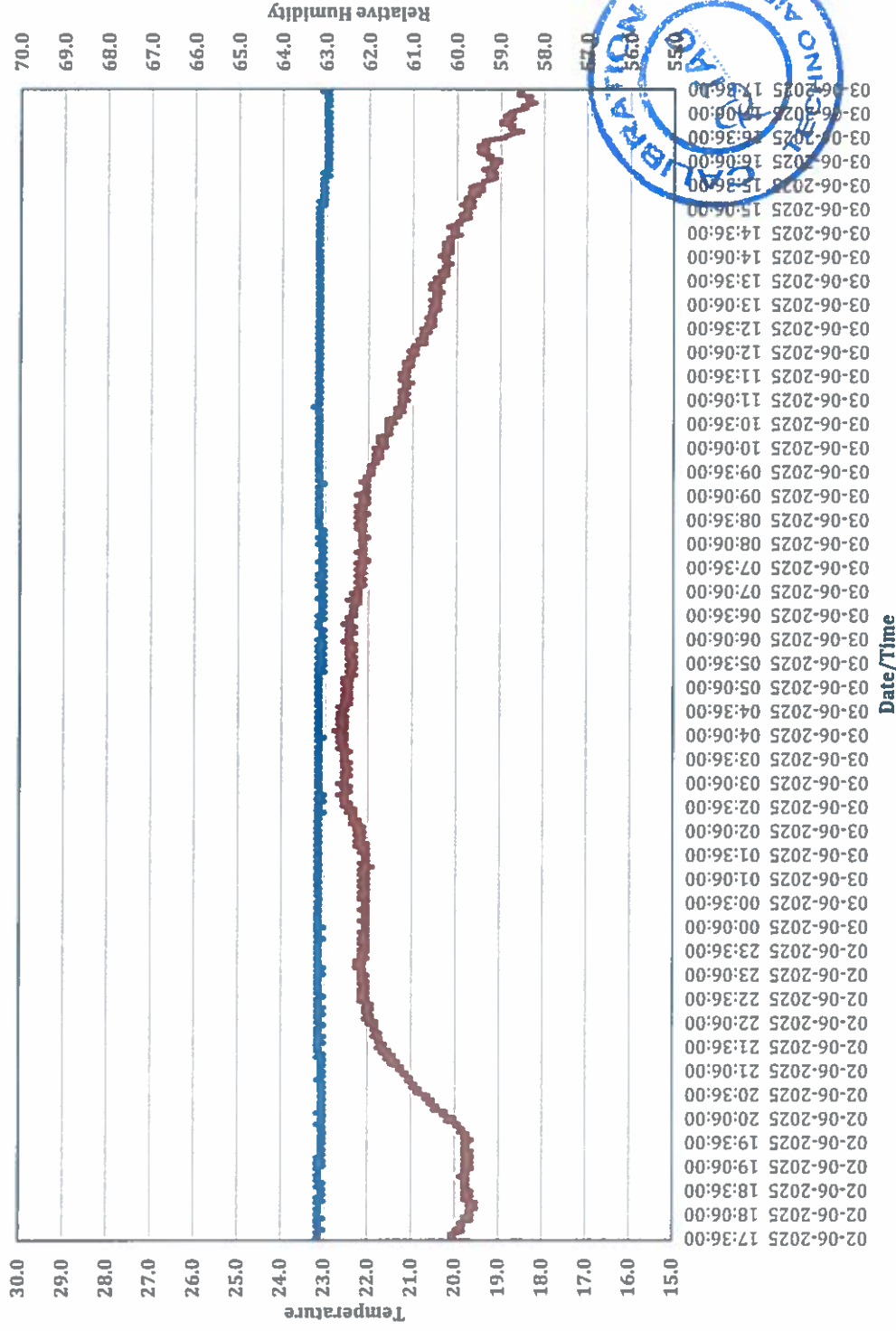
T (°C)



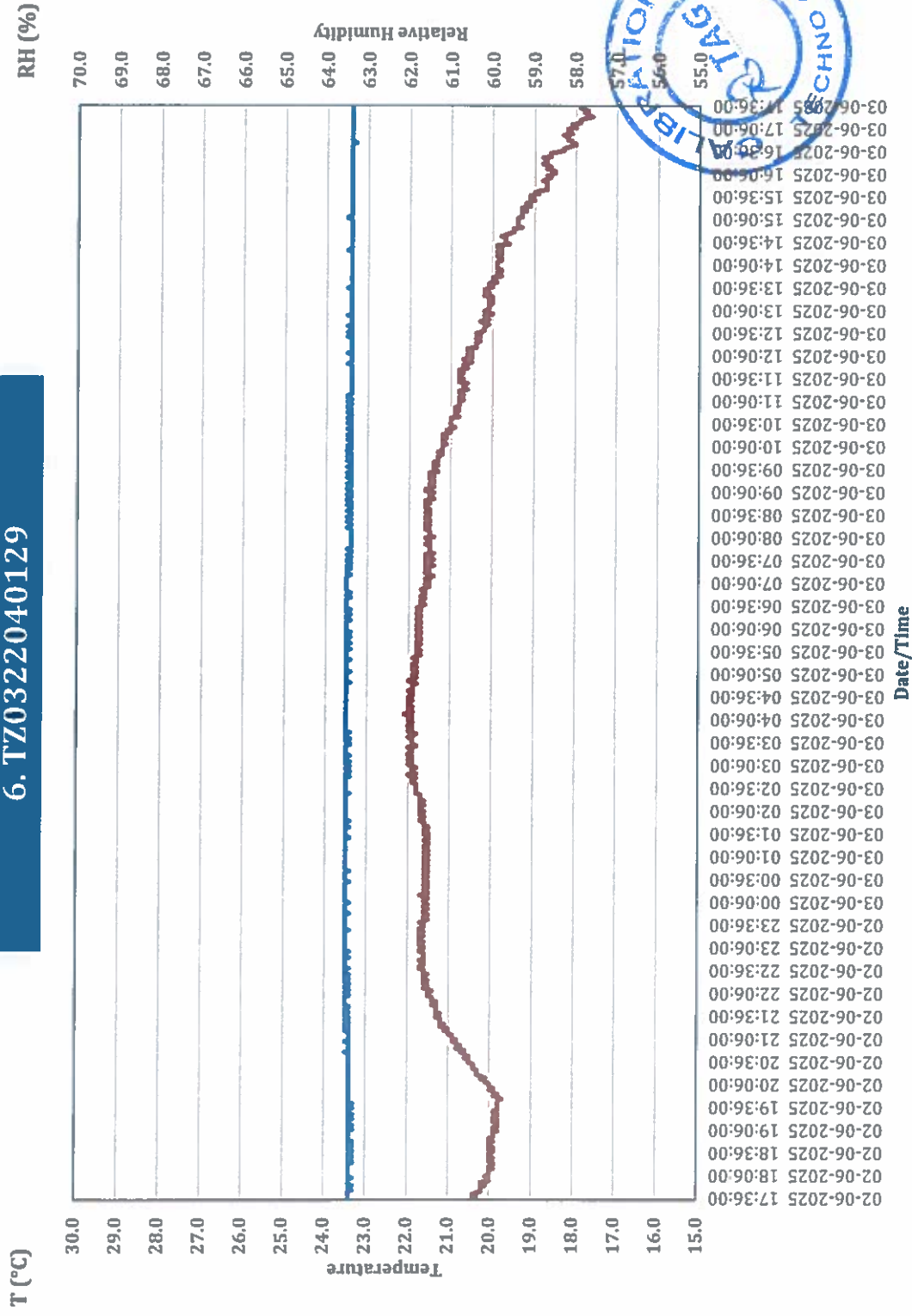
5. TZ0322041001

T (°C)

RH (%)

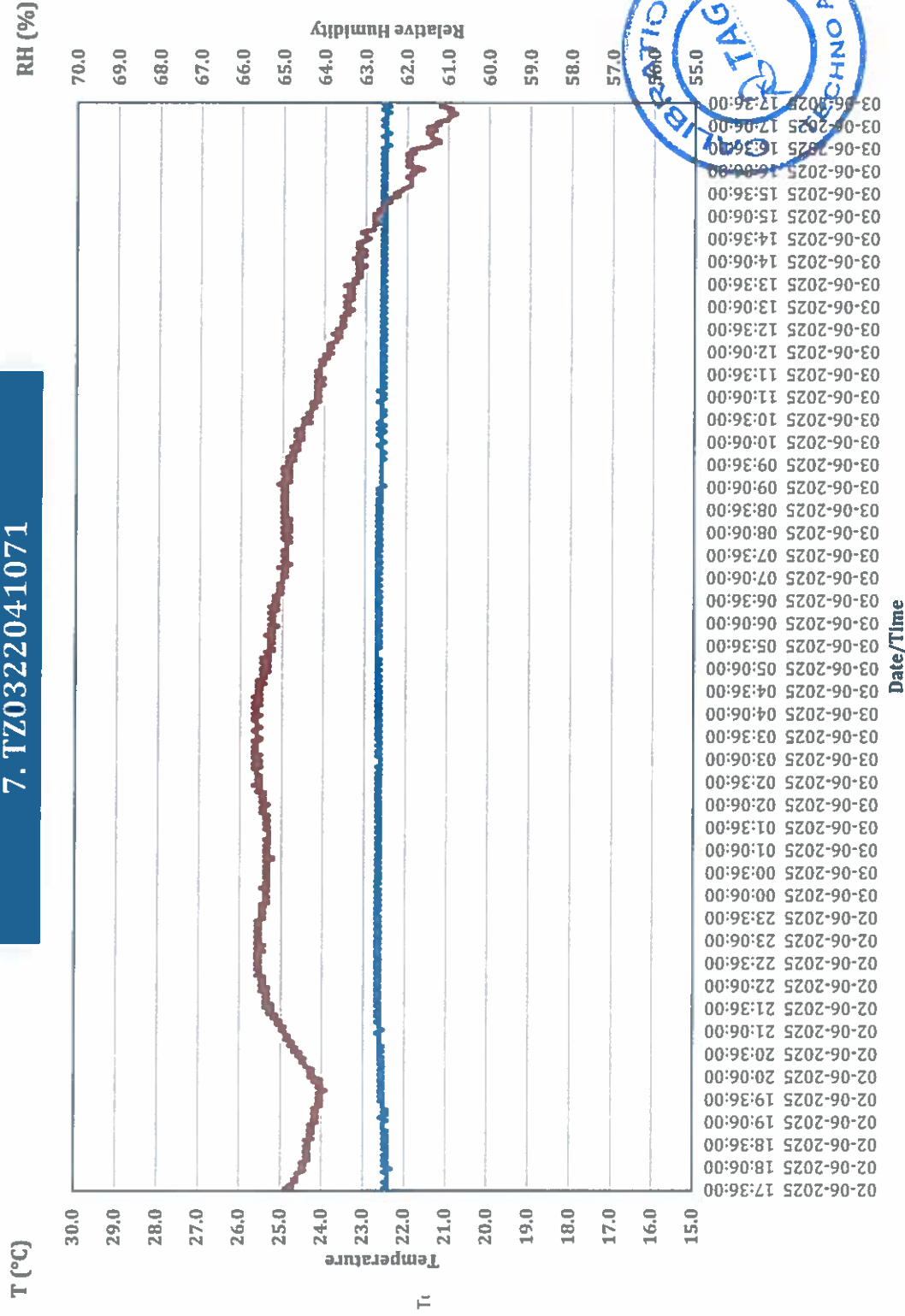


6. TZ0322040129



Sampling Period	24 hrs. (Main Cycle)
Start Date/Time	02-06-2025 17:36:00
Stop Date/Time	03-06-2025 17:36:00

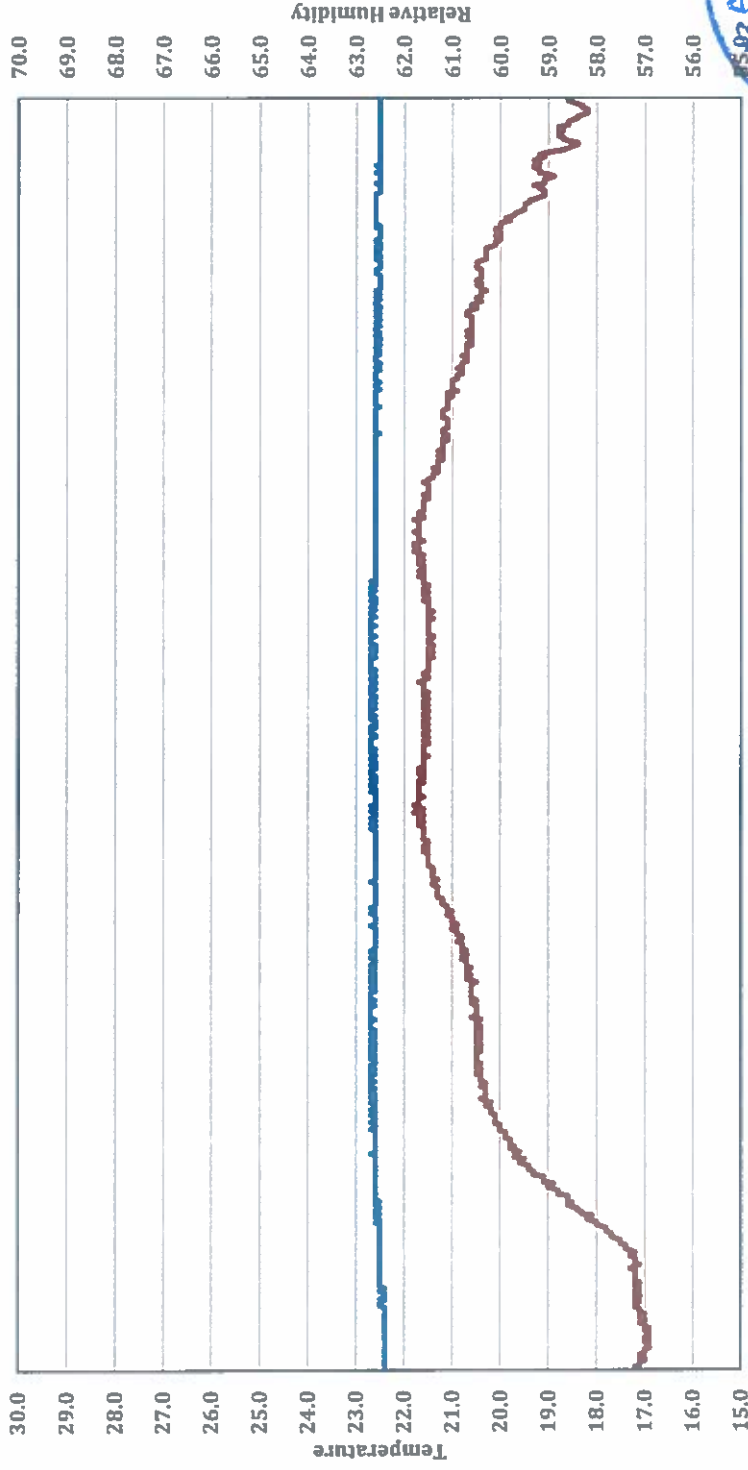
7. TZ0322041071



8. TZ0322040149

RH (%)

T (°C)

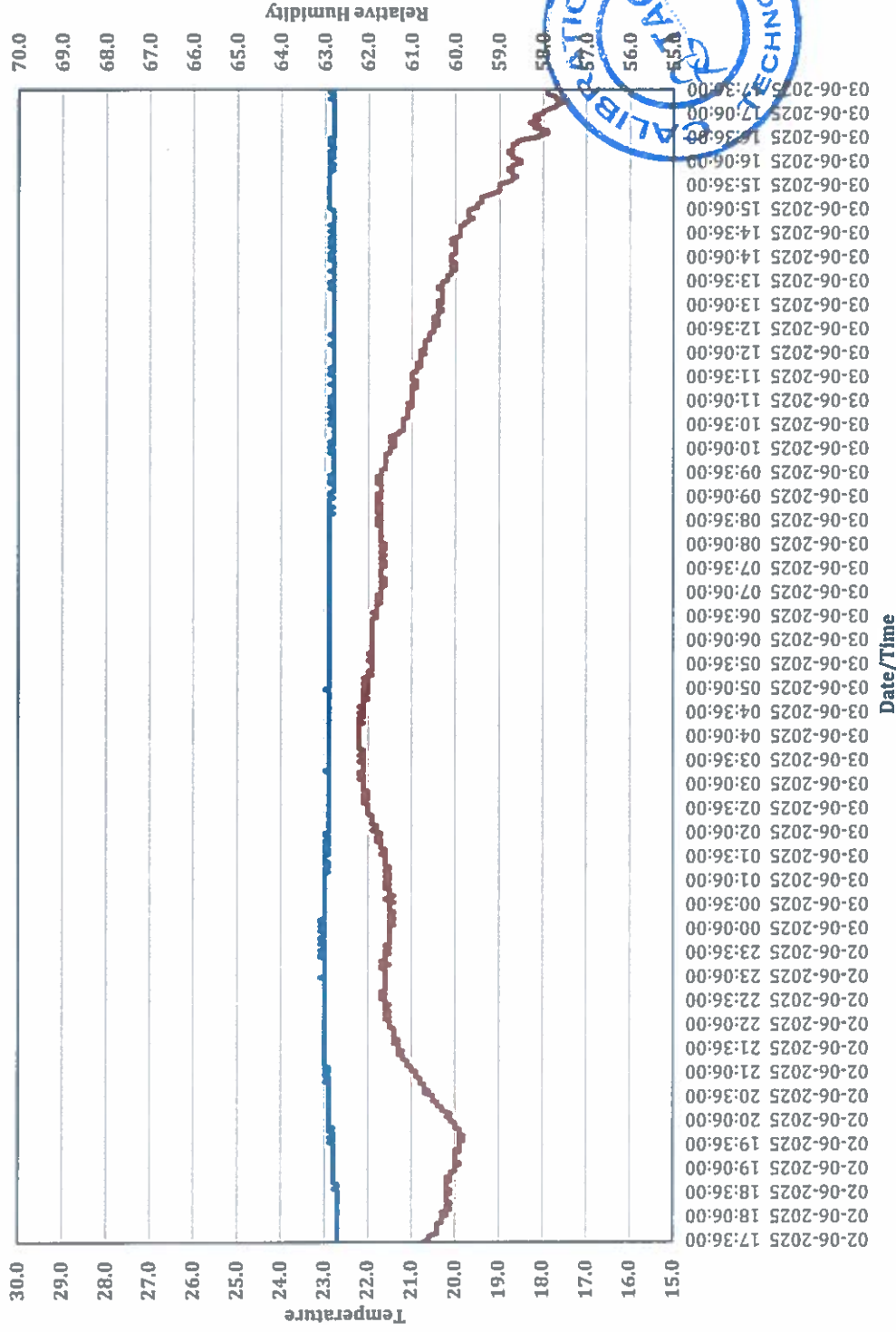


Temp RH

9. TZ0323114418

RH (%)

T (°C)

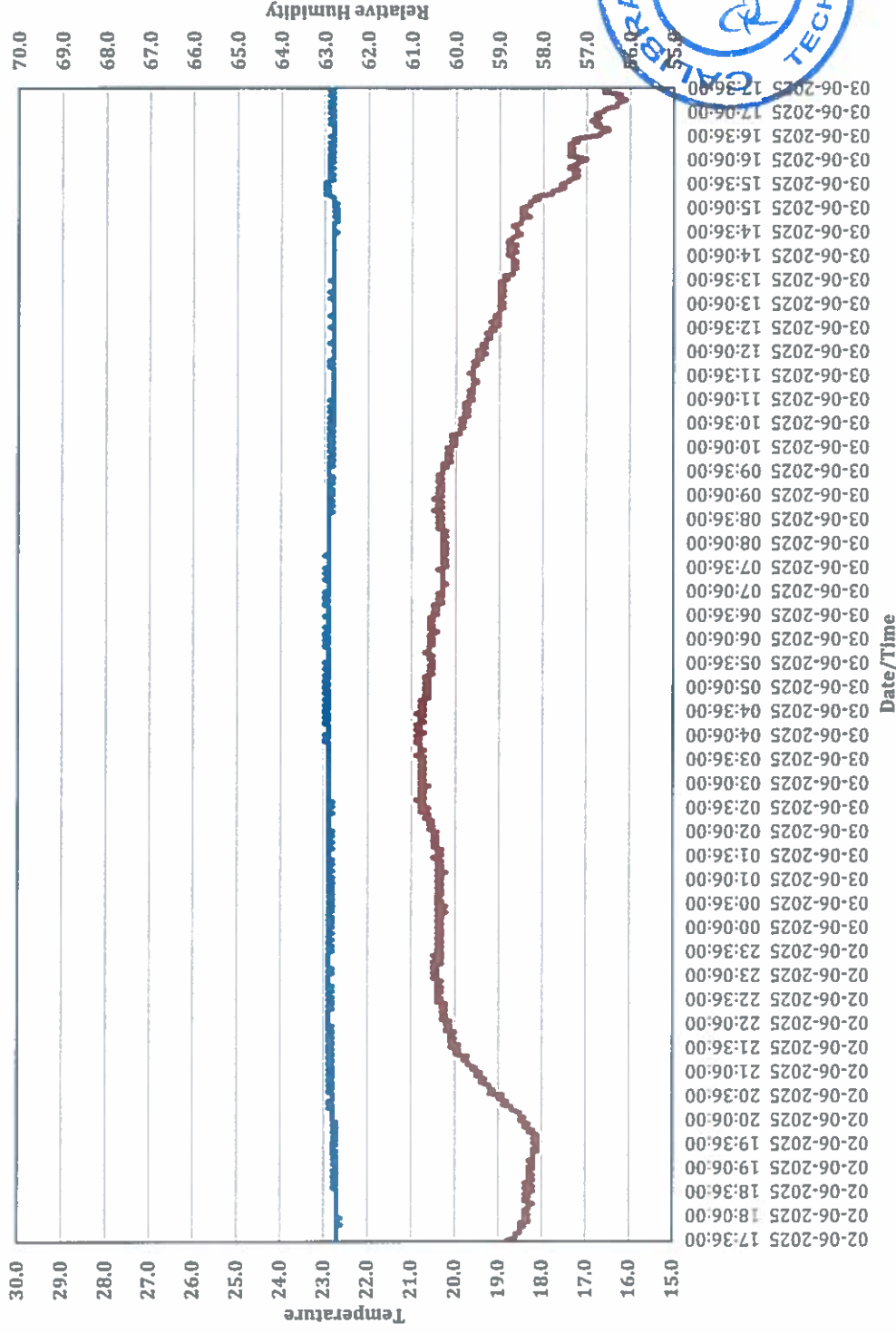


Temp RH

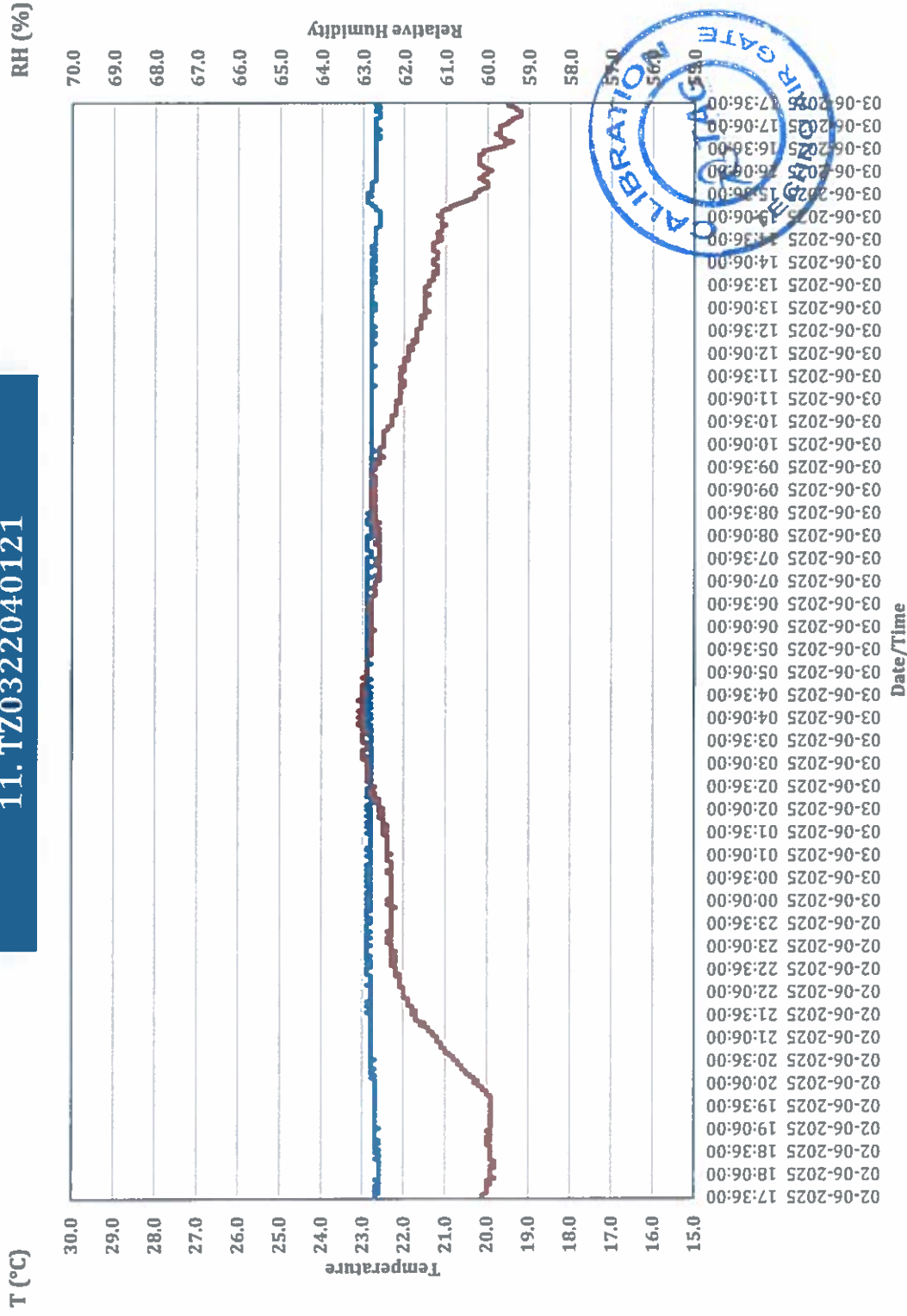
10. TZ0323114544

RH (%)

T (°C)



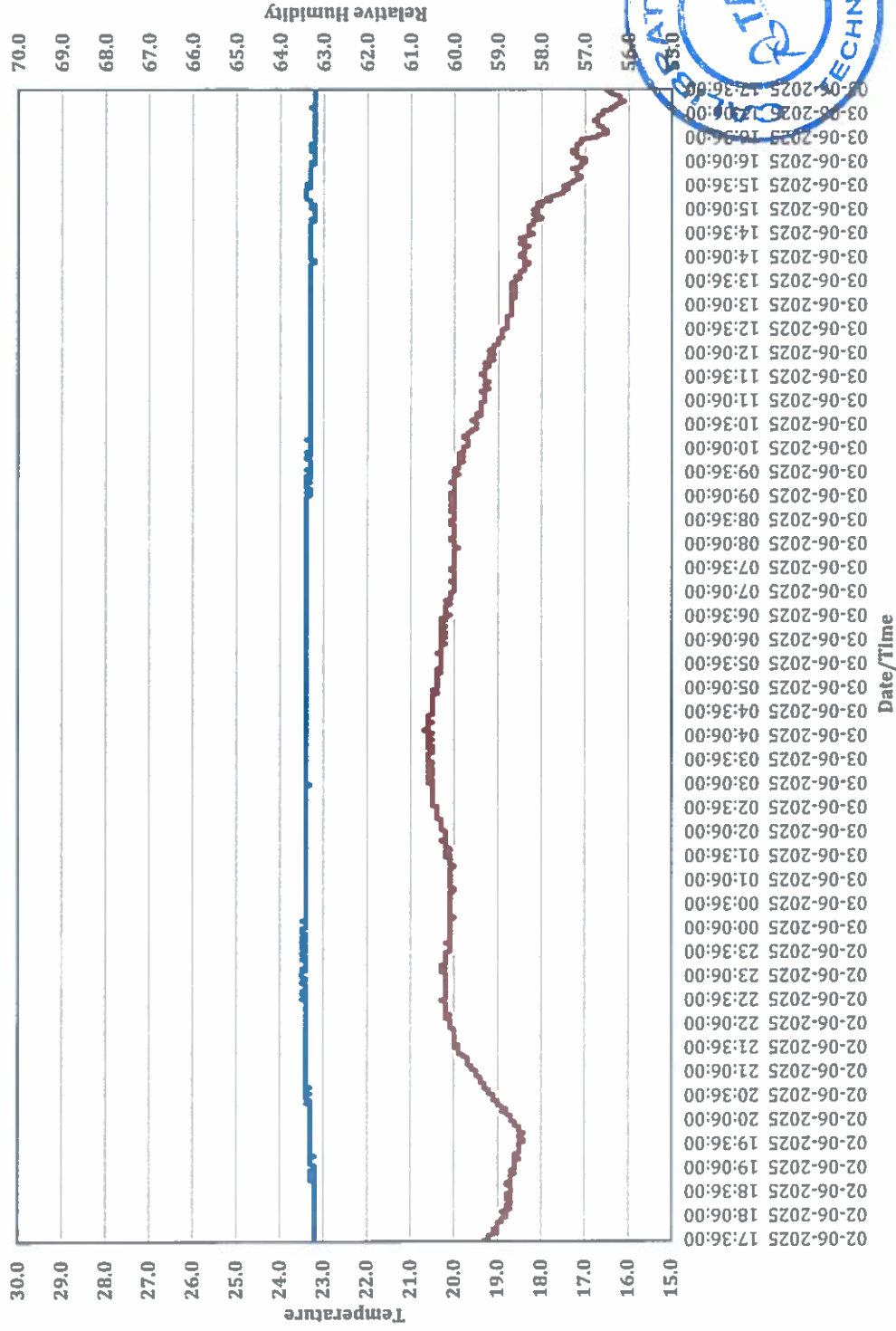
11. TZ0322040121



12. TZ03223114578

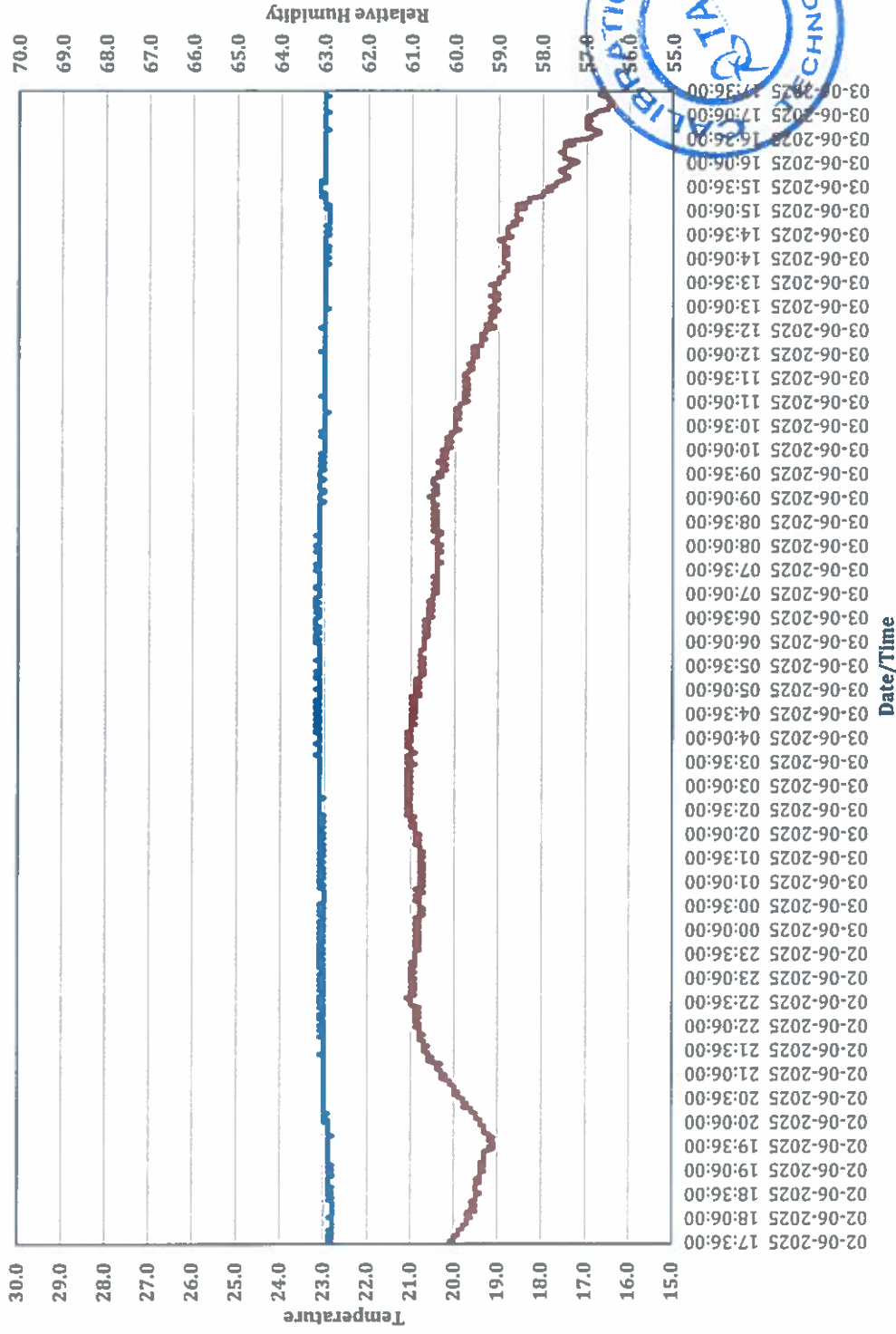
RH (%)

T (°C)



13. TZ0323114516

T (°C) RH (%)

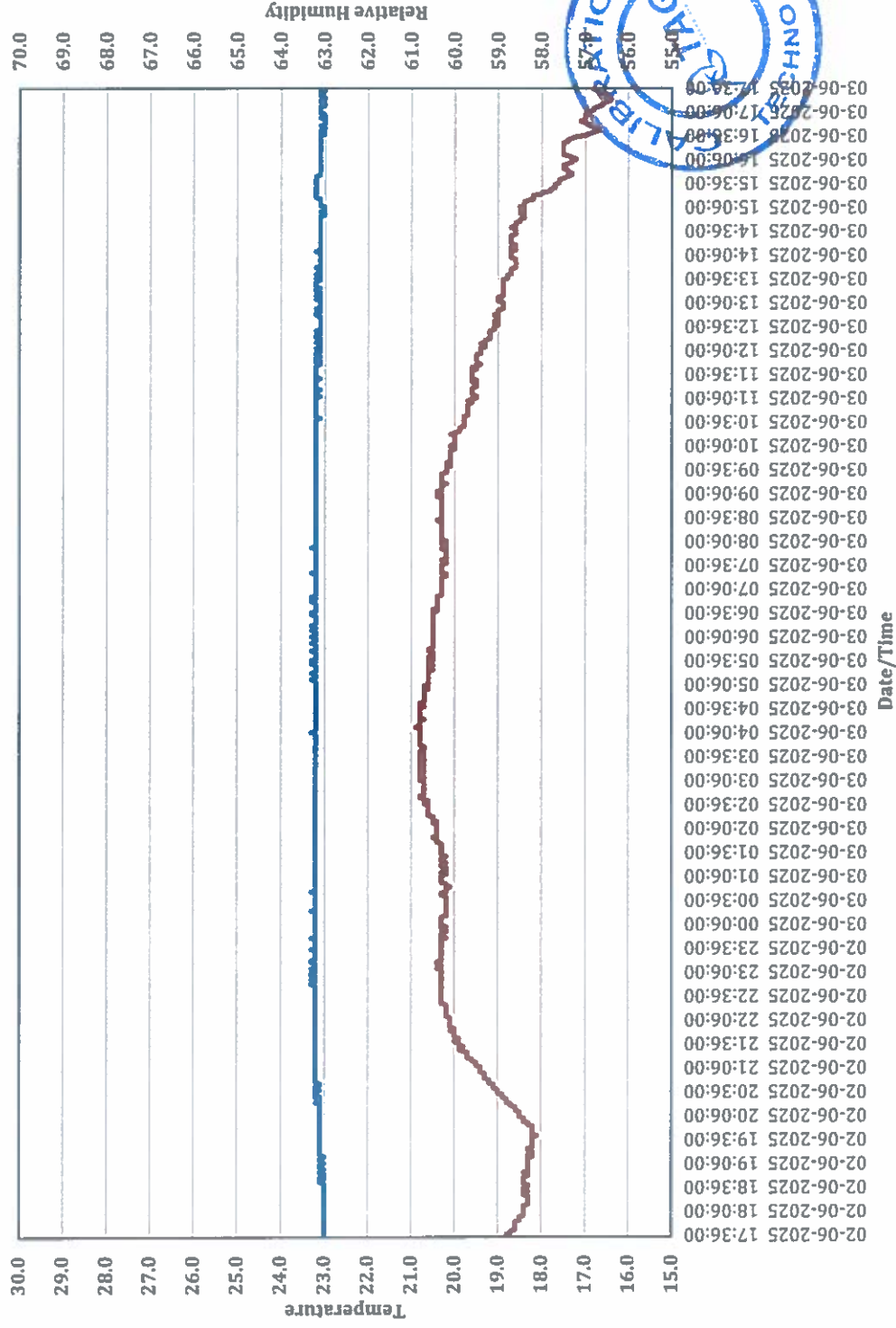


Temp RH

14. TZ0323114412

T (°C)

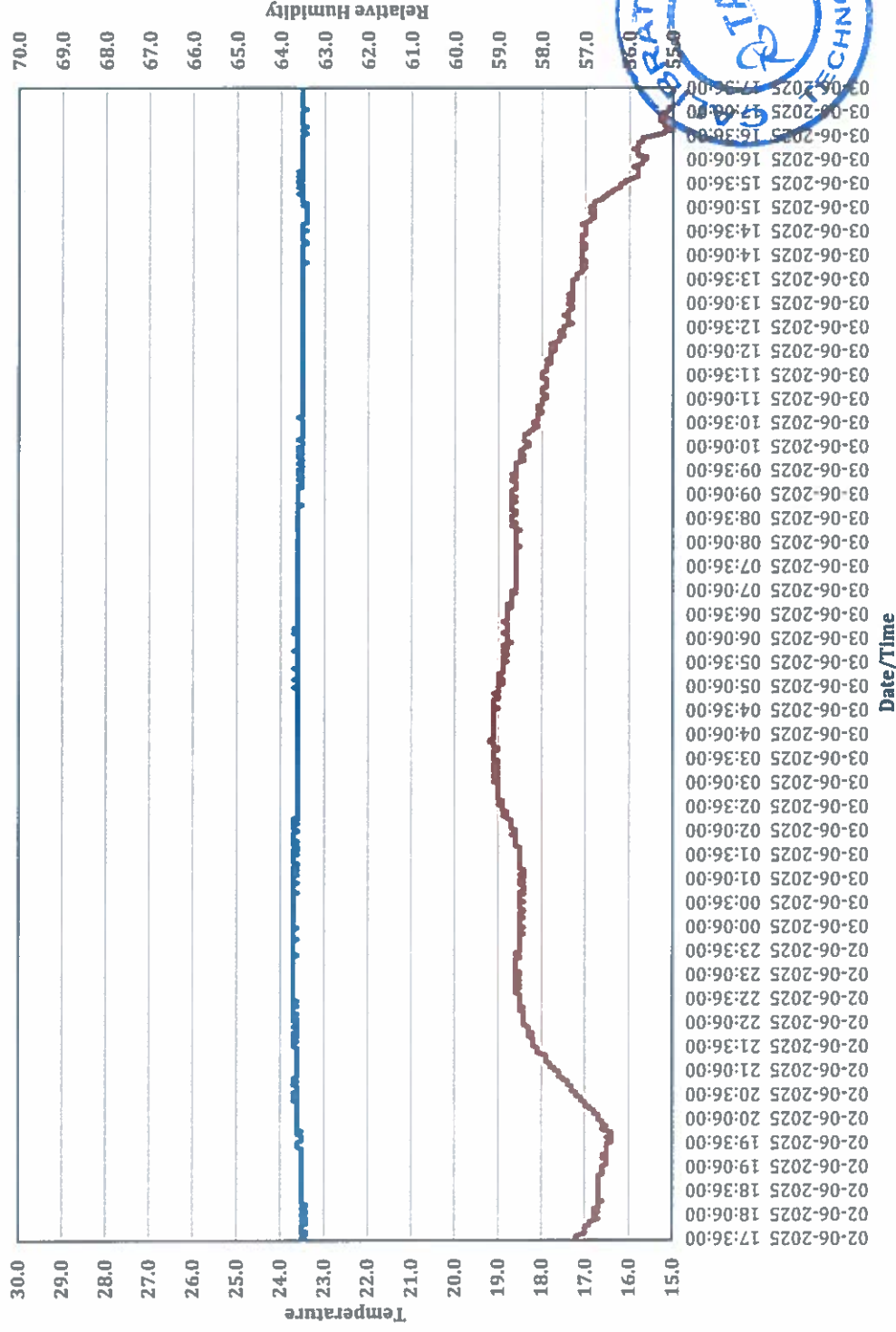
RH (%)



15. TZ0323114431

RH (%)

T (°C)

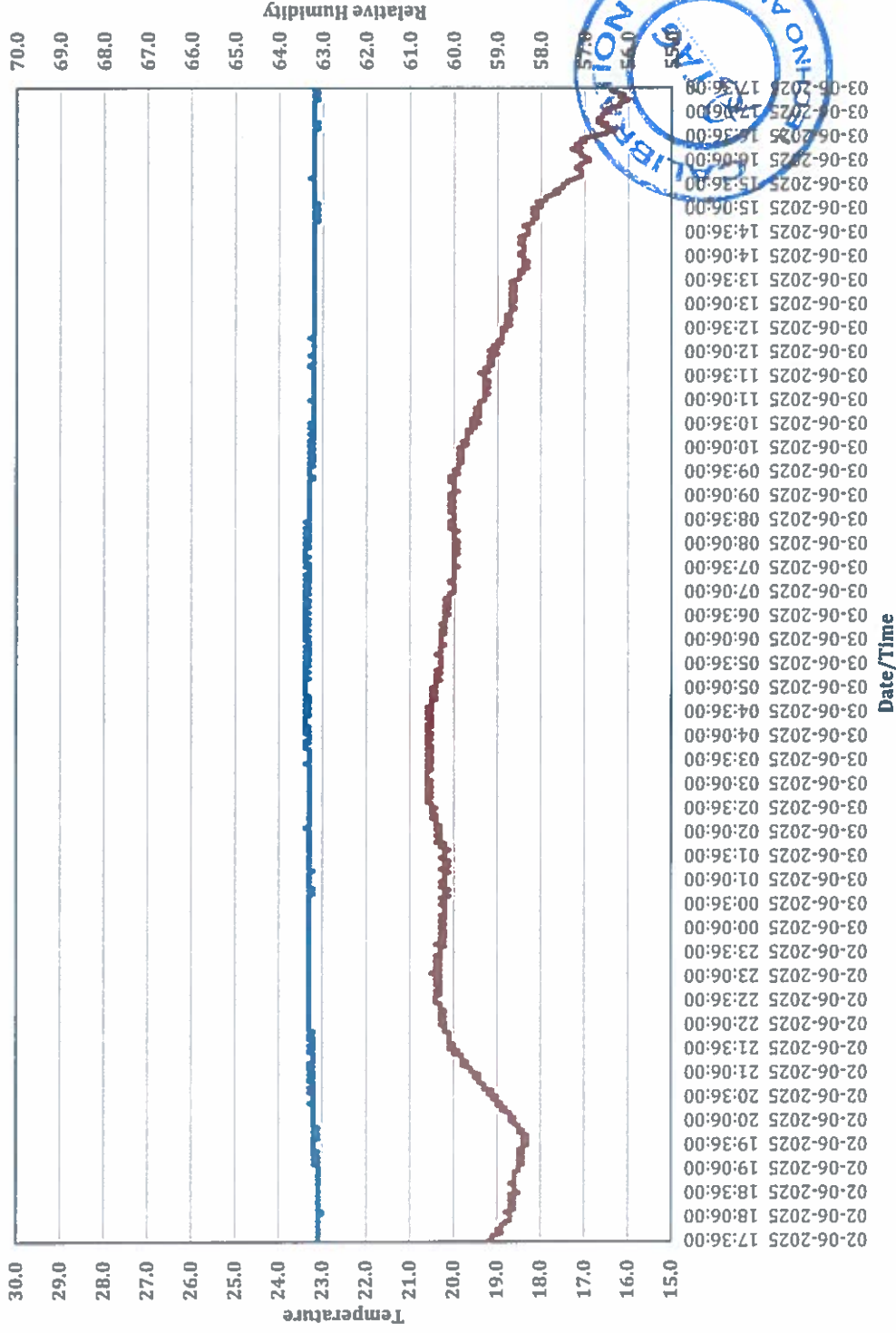


Temp RH

16. TZ0323114577

RH (%)

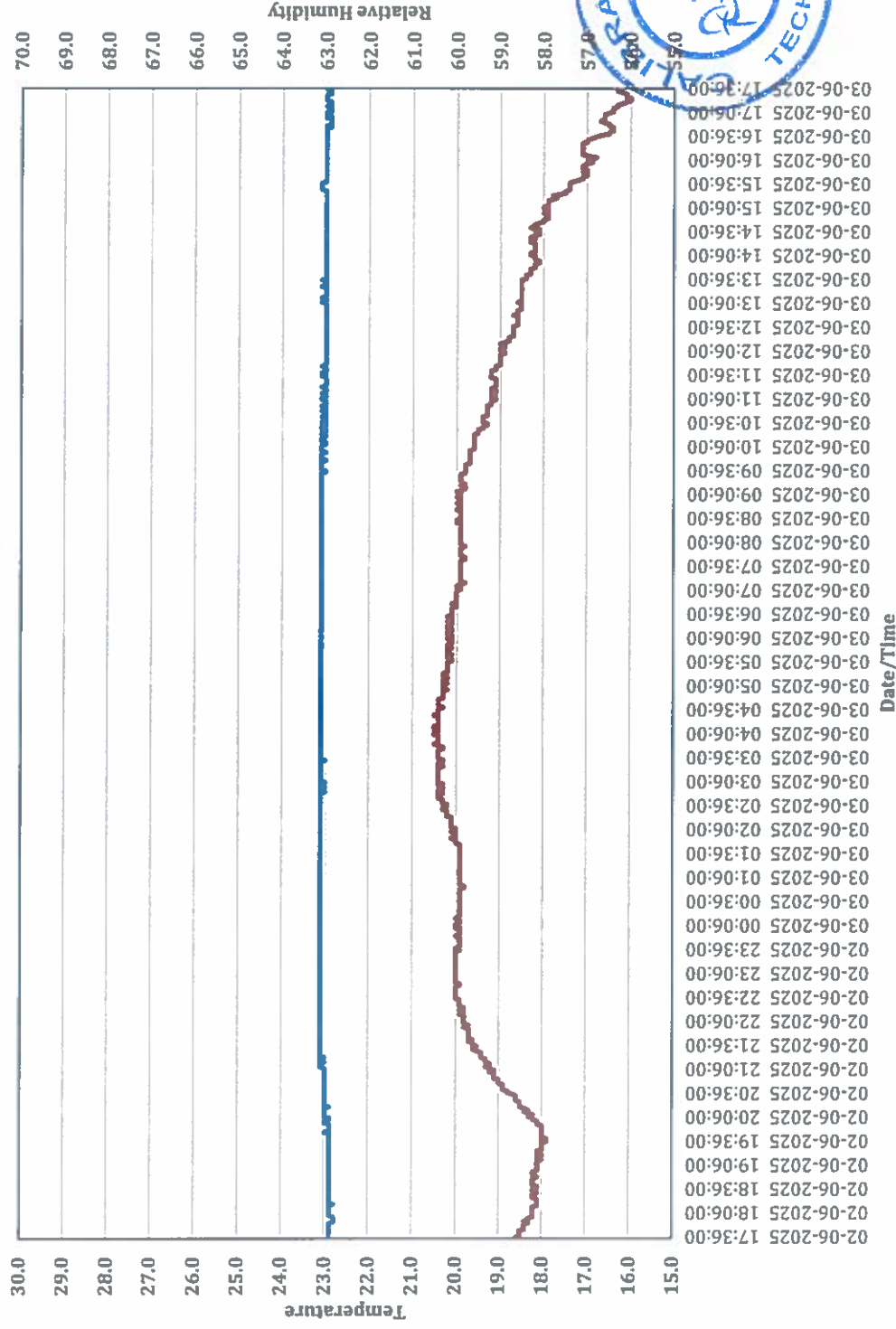
T (°C)



17. TZ0323114565

RH (%)

T (°C)



Temp RH

Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 24 hrs. (Main Cycle)

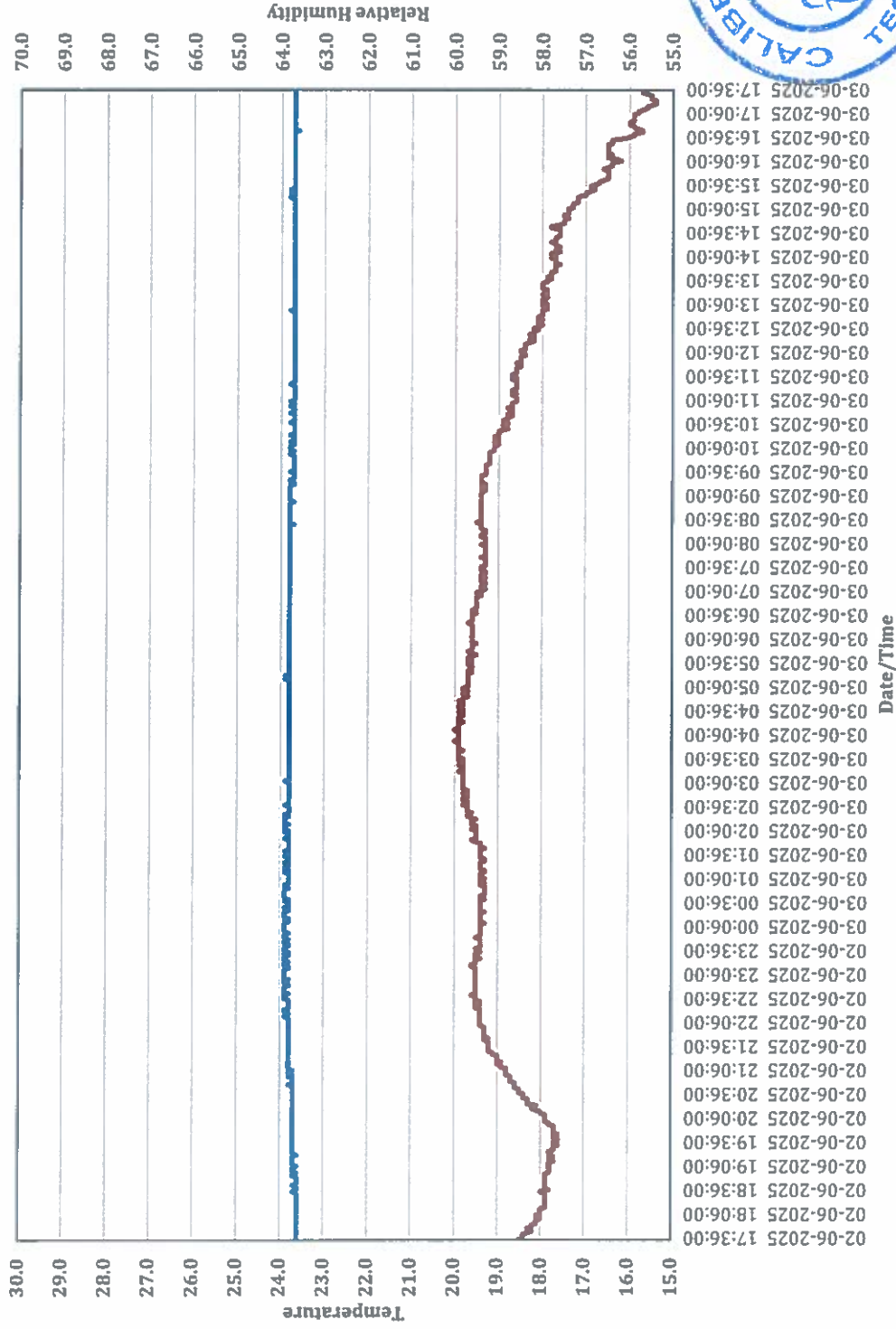
Start Date/Time 02-06-2025 17:36:00

Stop Date/Time 03-06-2025 17:36:00

18. TZ0323114540

RH (%)

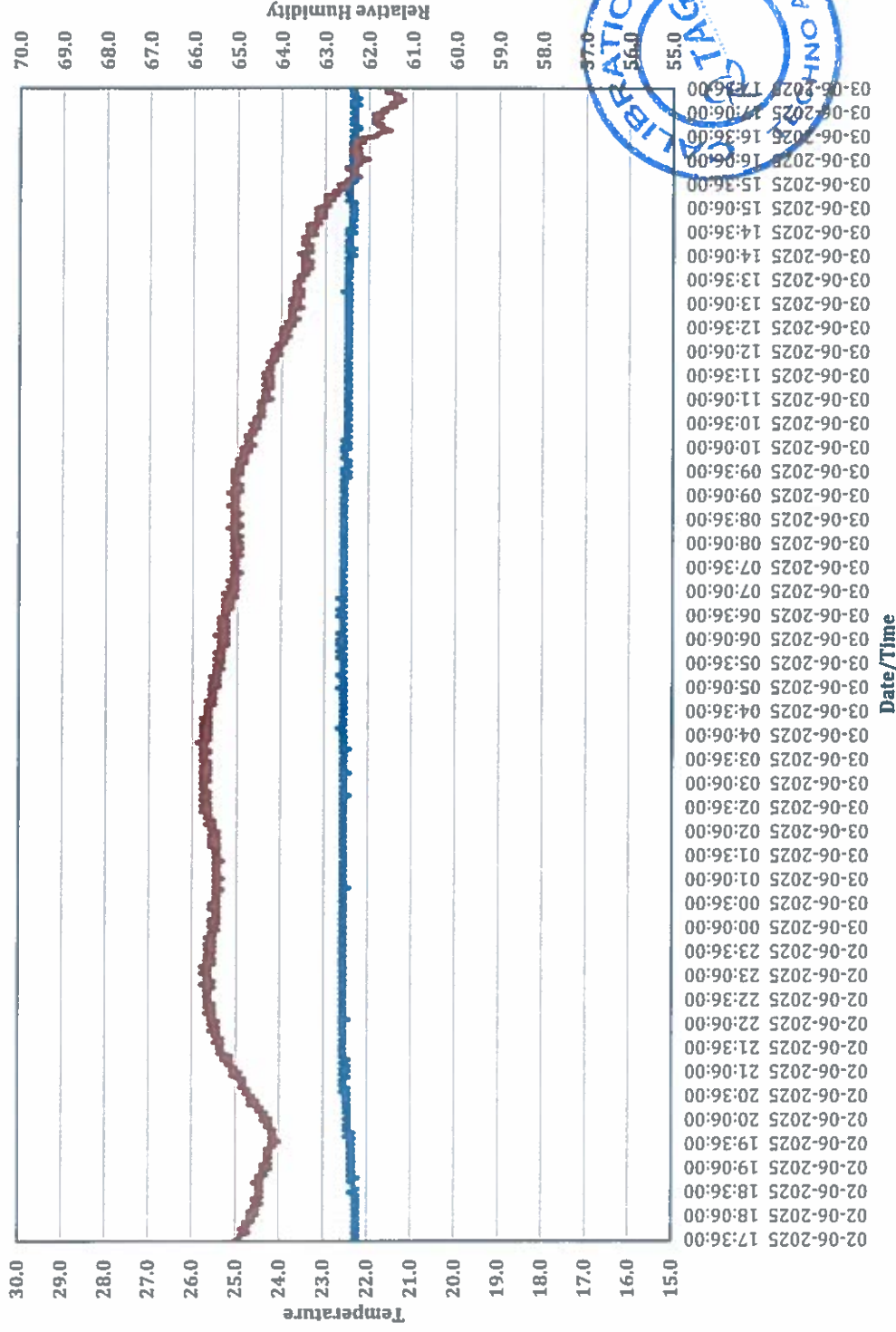
T (°C)



19. TZ03222041093

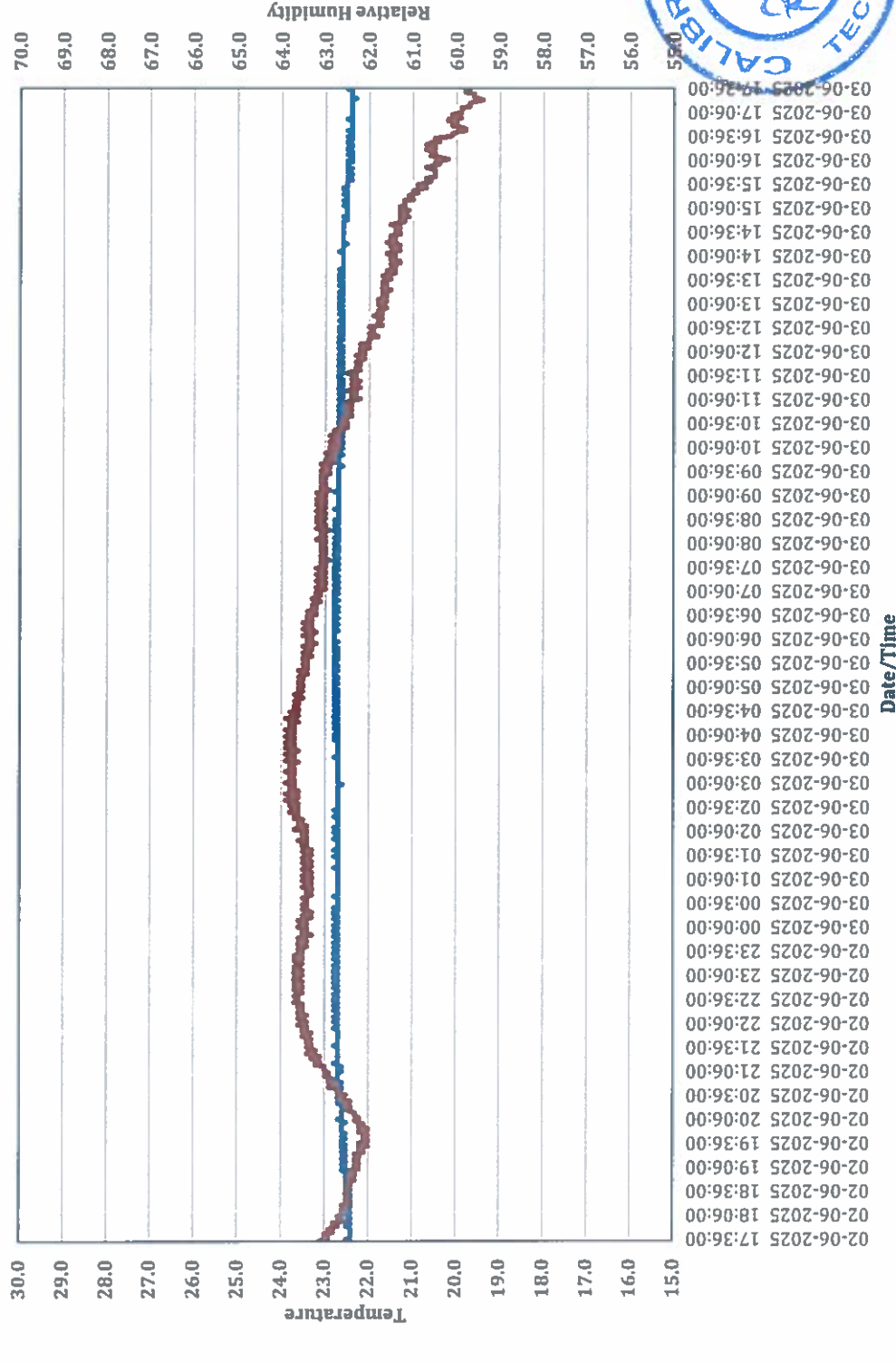
RH (%)

T (°C)



20. TZ0323114535

RH (%)



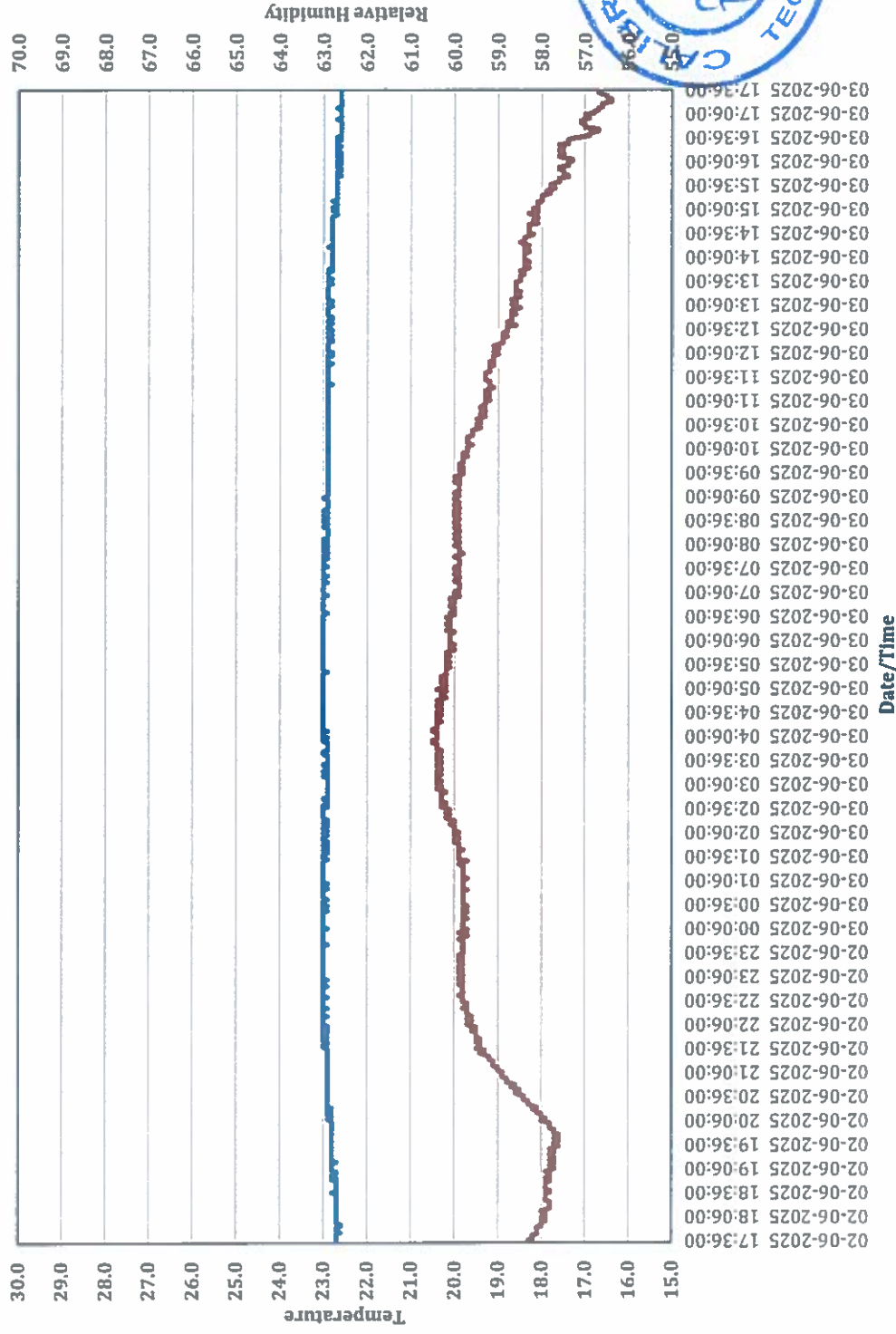
Temp RH



21. TZ0323114527

T (°C)

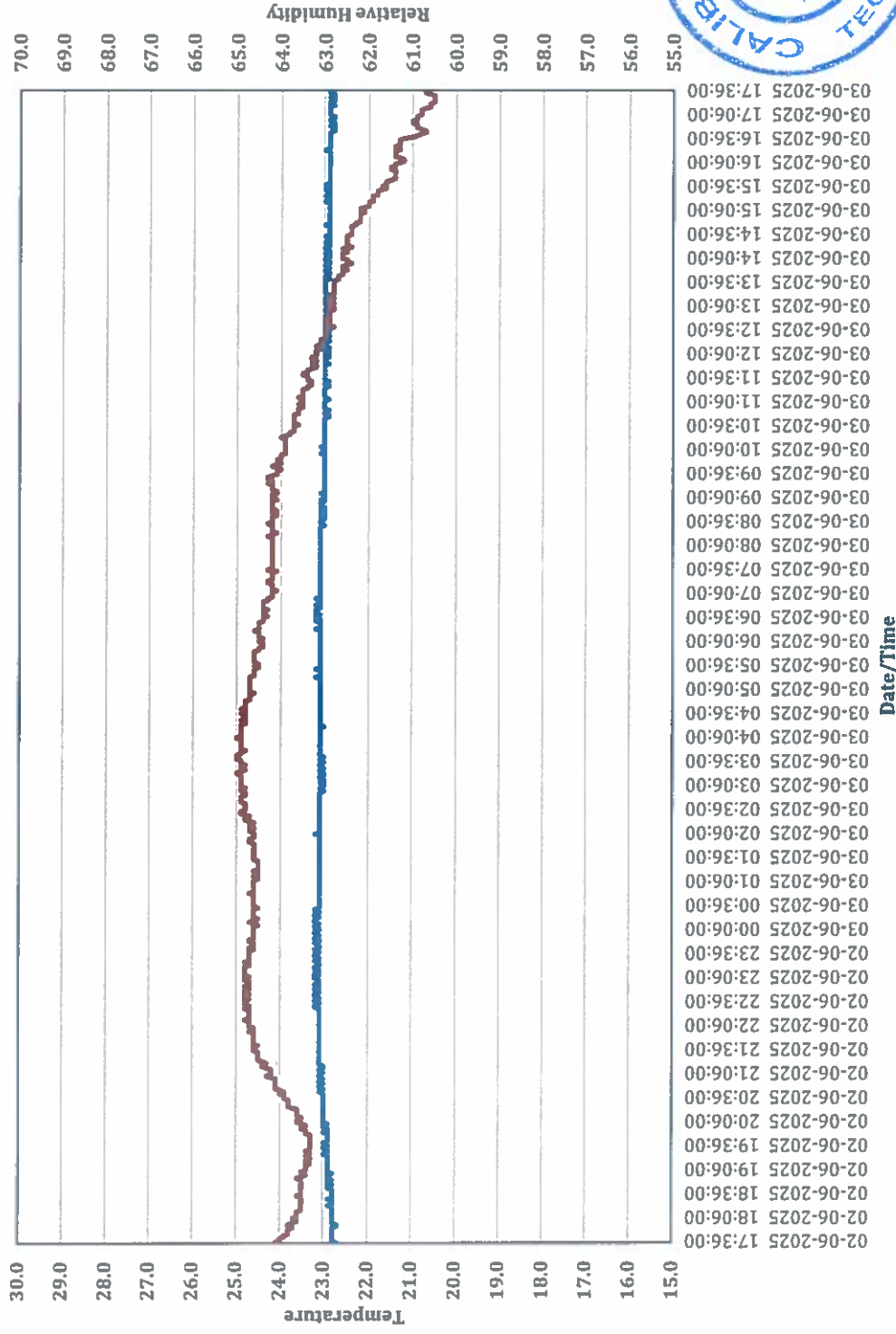
RH (%)



22. TZ0322040131

RH (%)

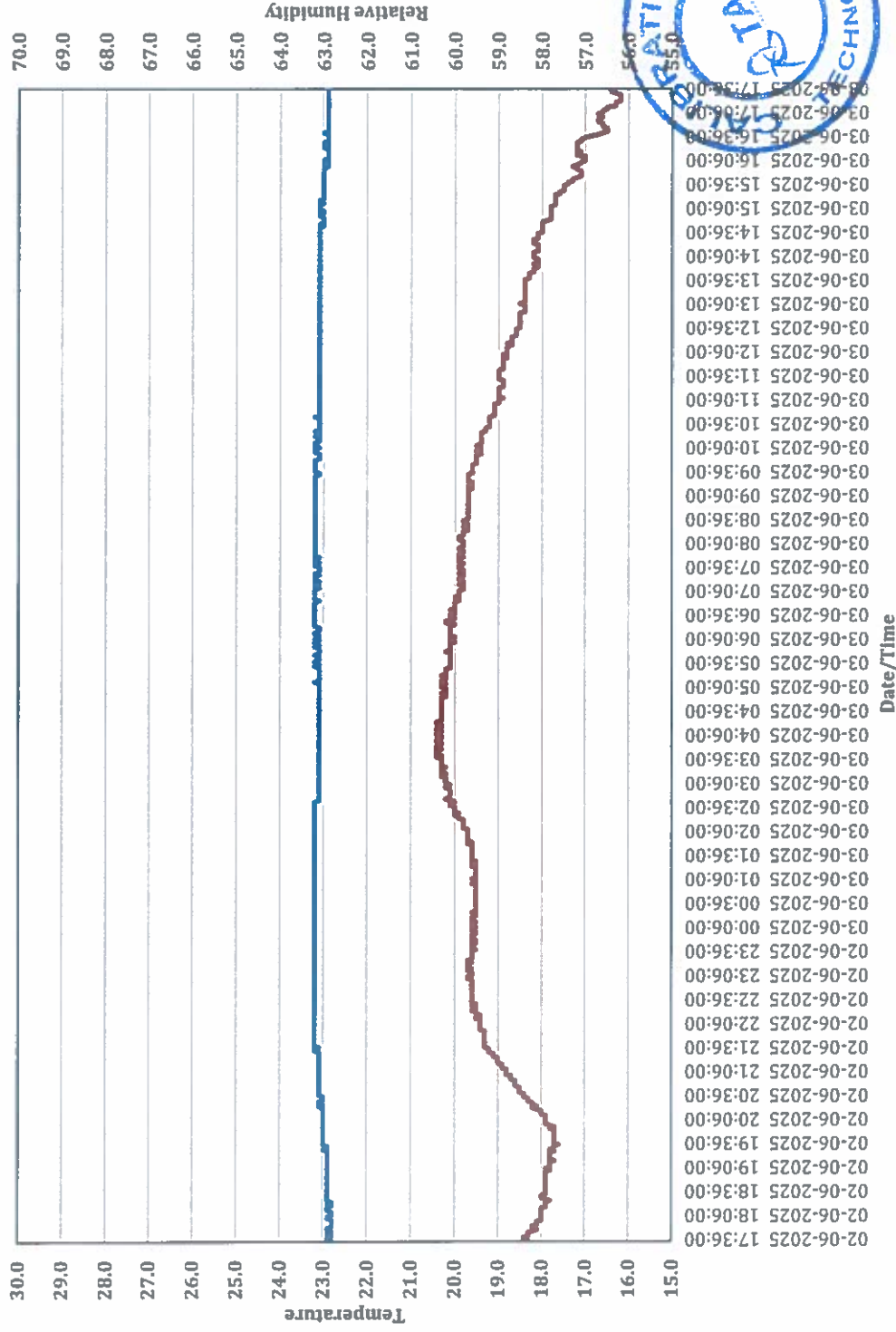
T (°C)



23. TZ0323114407

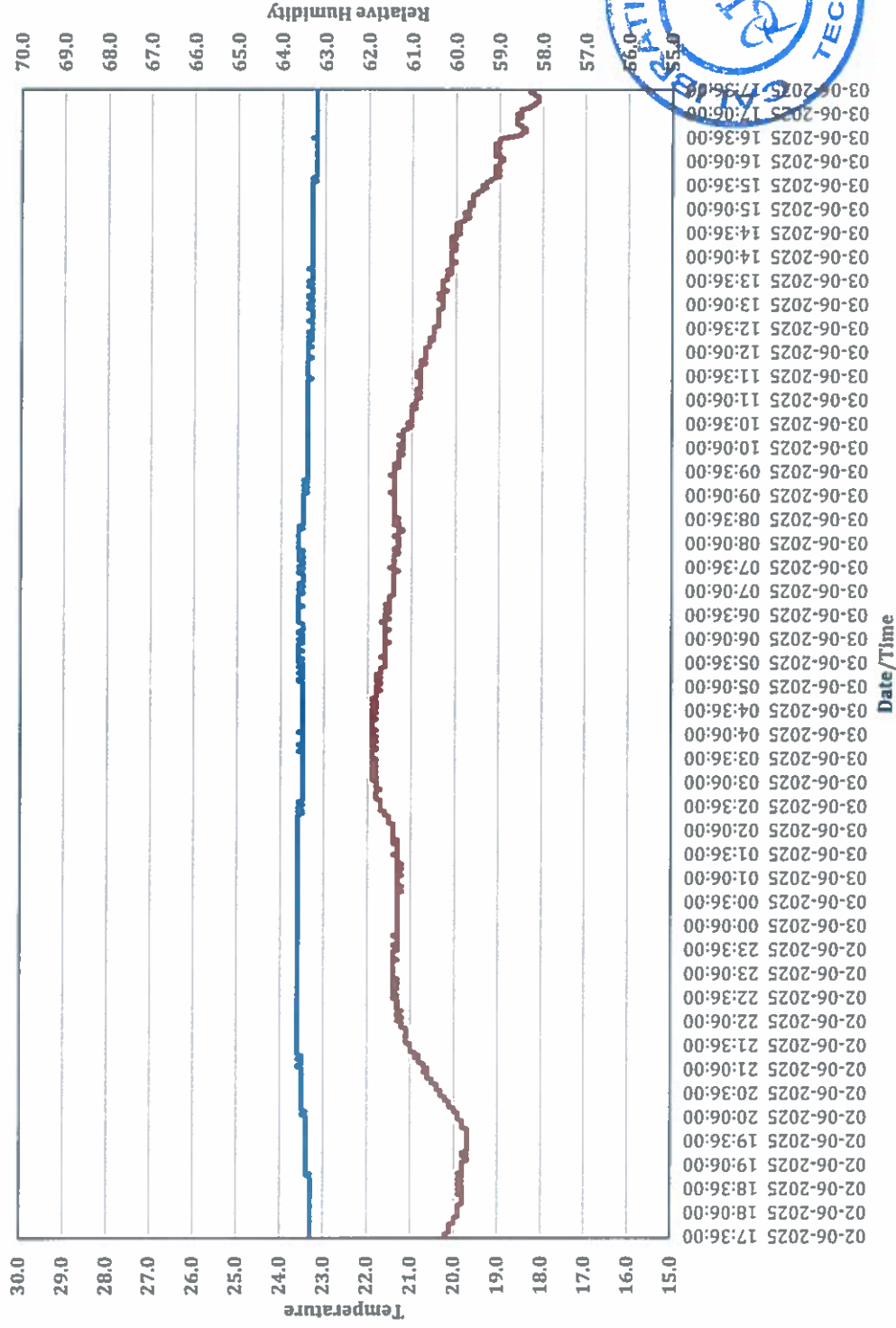
RH (%)

T (°C)



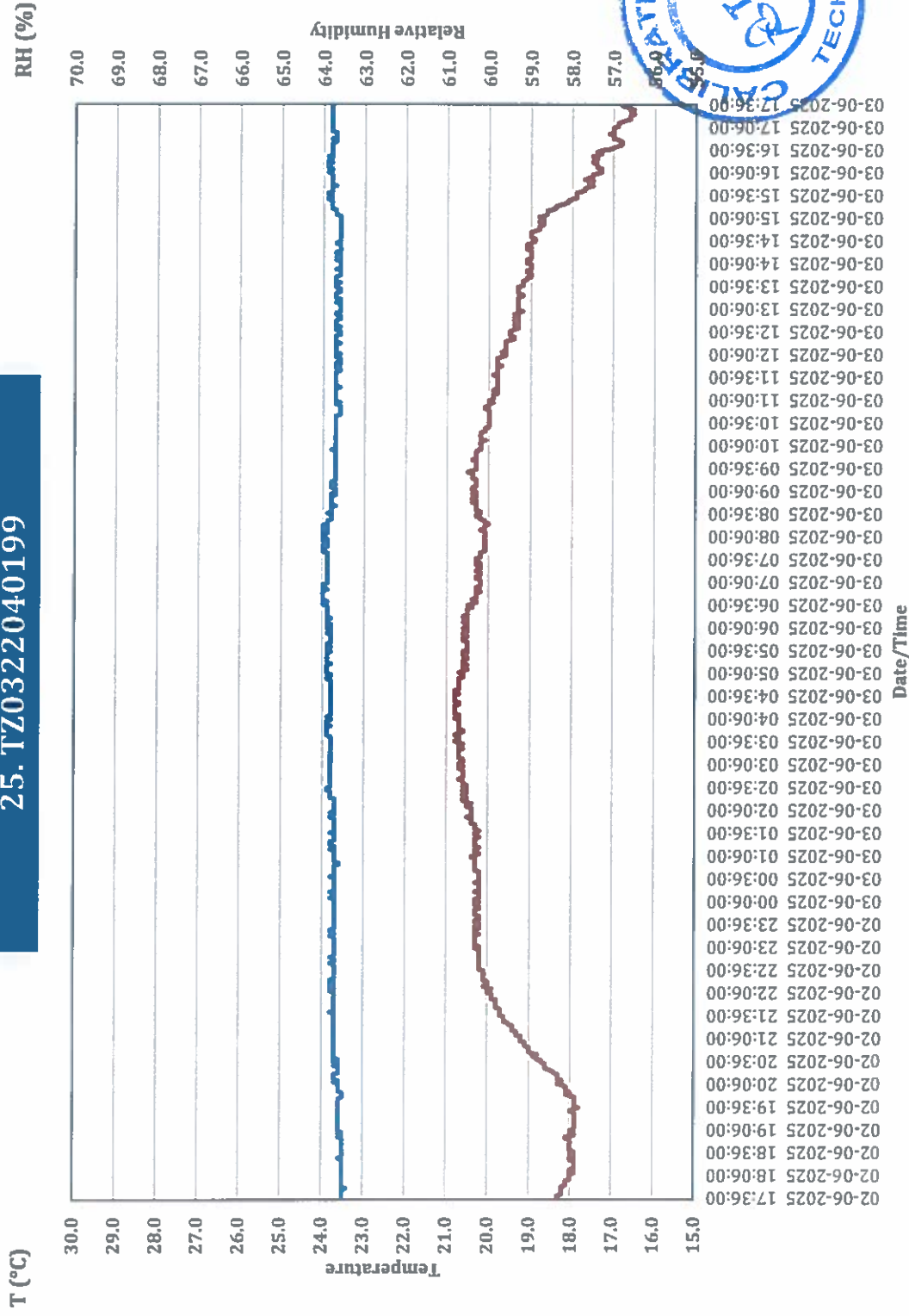
24. TZ0322040102

T (°C) RH (%)



Temp RH

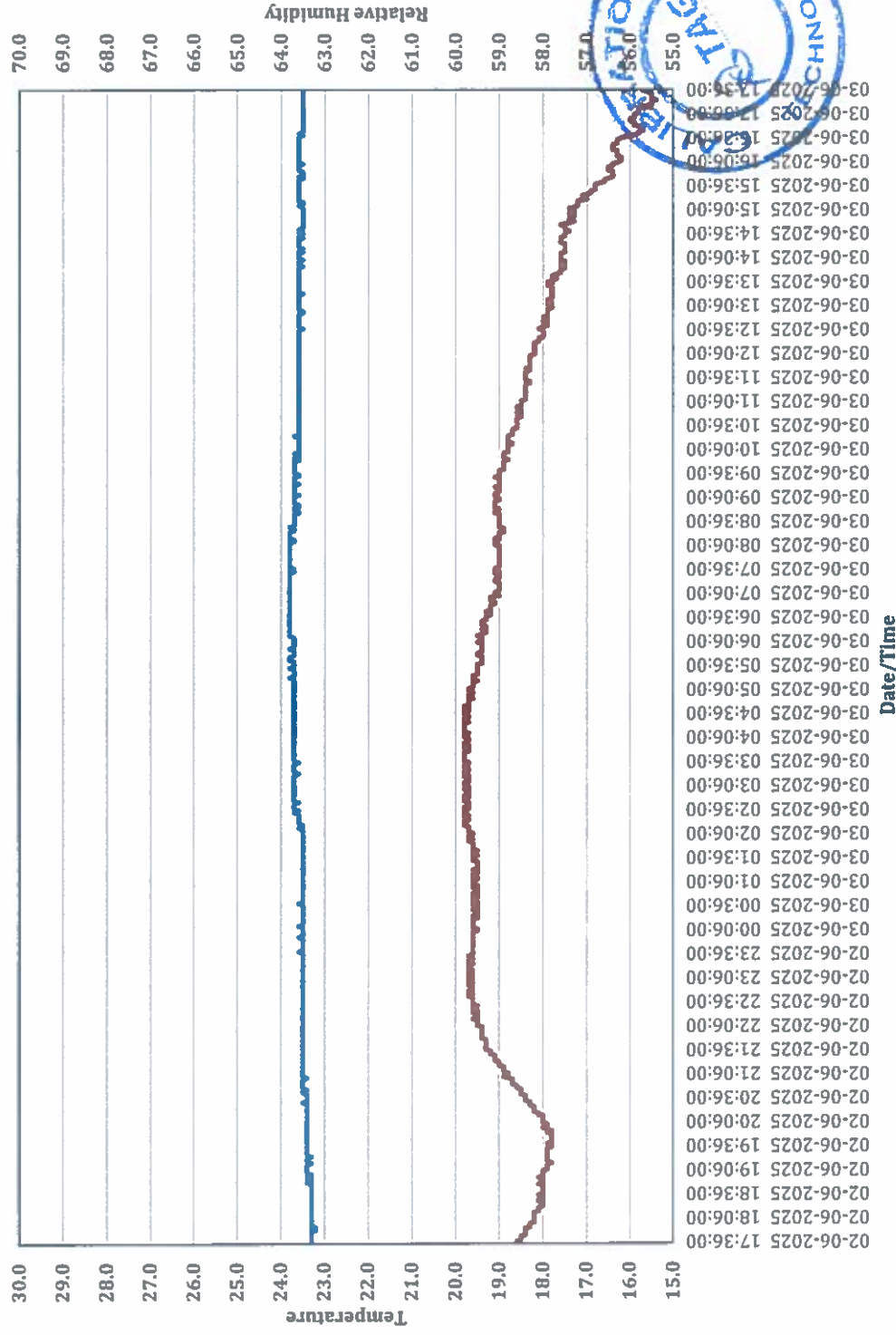
25. TZ03222040199



26. TZ0323114503

RH (%)

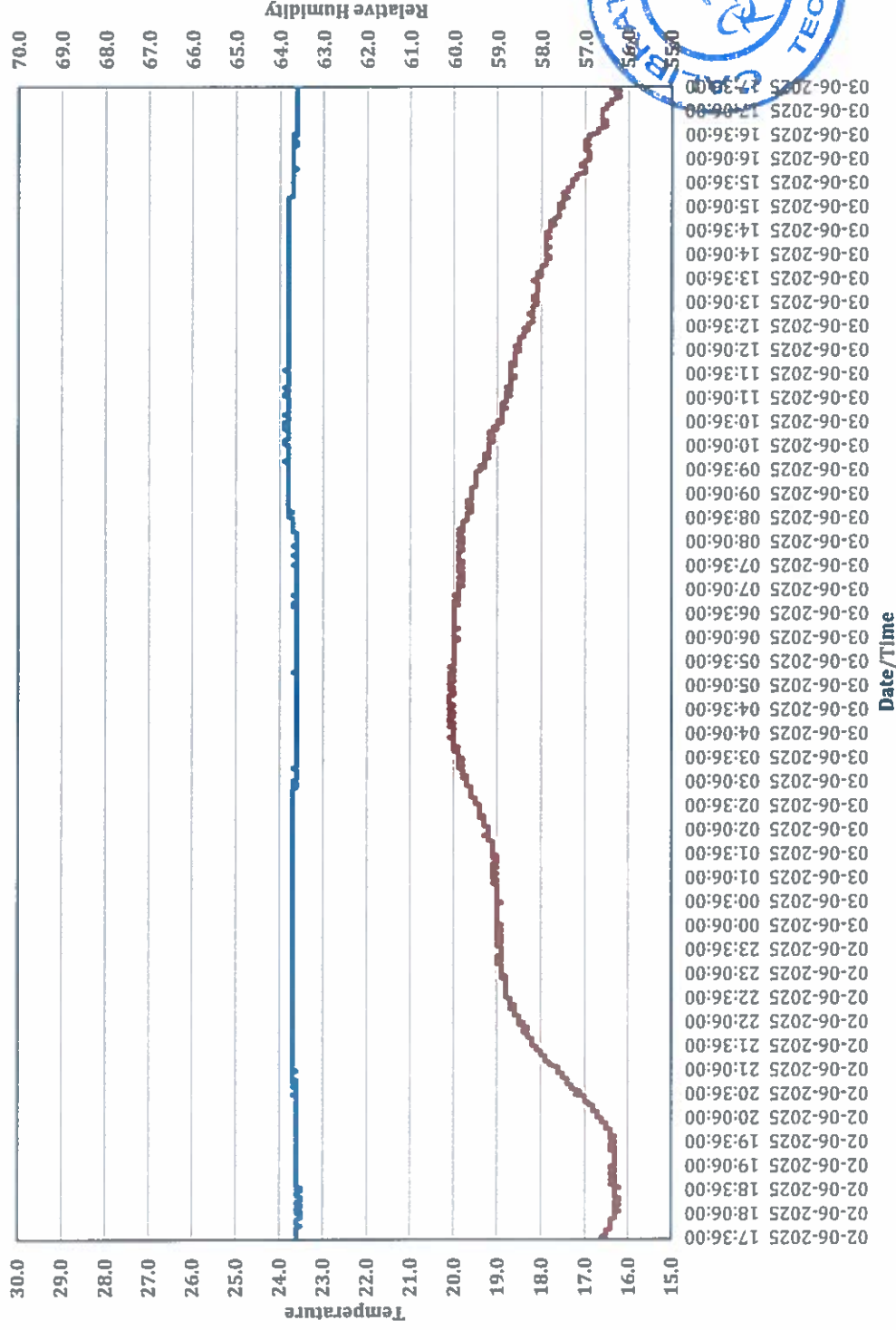
T (°C)



27. TZ03222040111

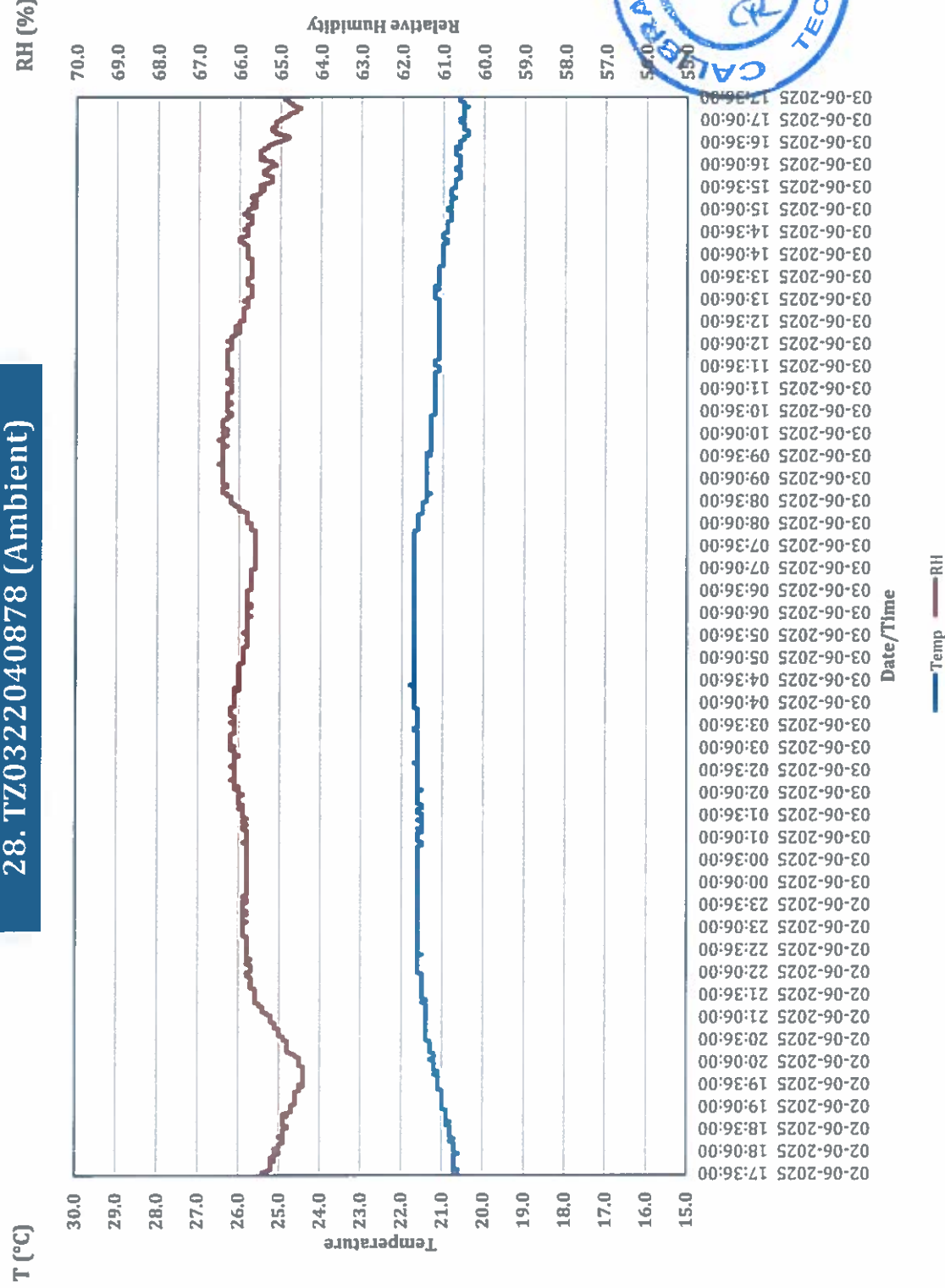
RH (%)

T (°C)



Temp RH

28. TZ0322040878 (Ambient)



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

ATTACHMENTS 01.02.01.02
Power Failure Printouts



RETAINED SAMPLE ROOM PERFORMANCE QUALIFICATION



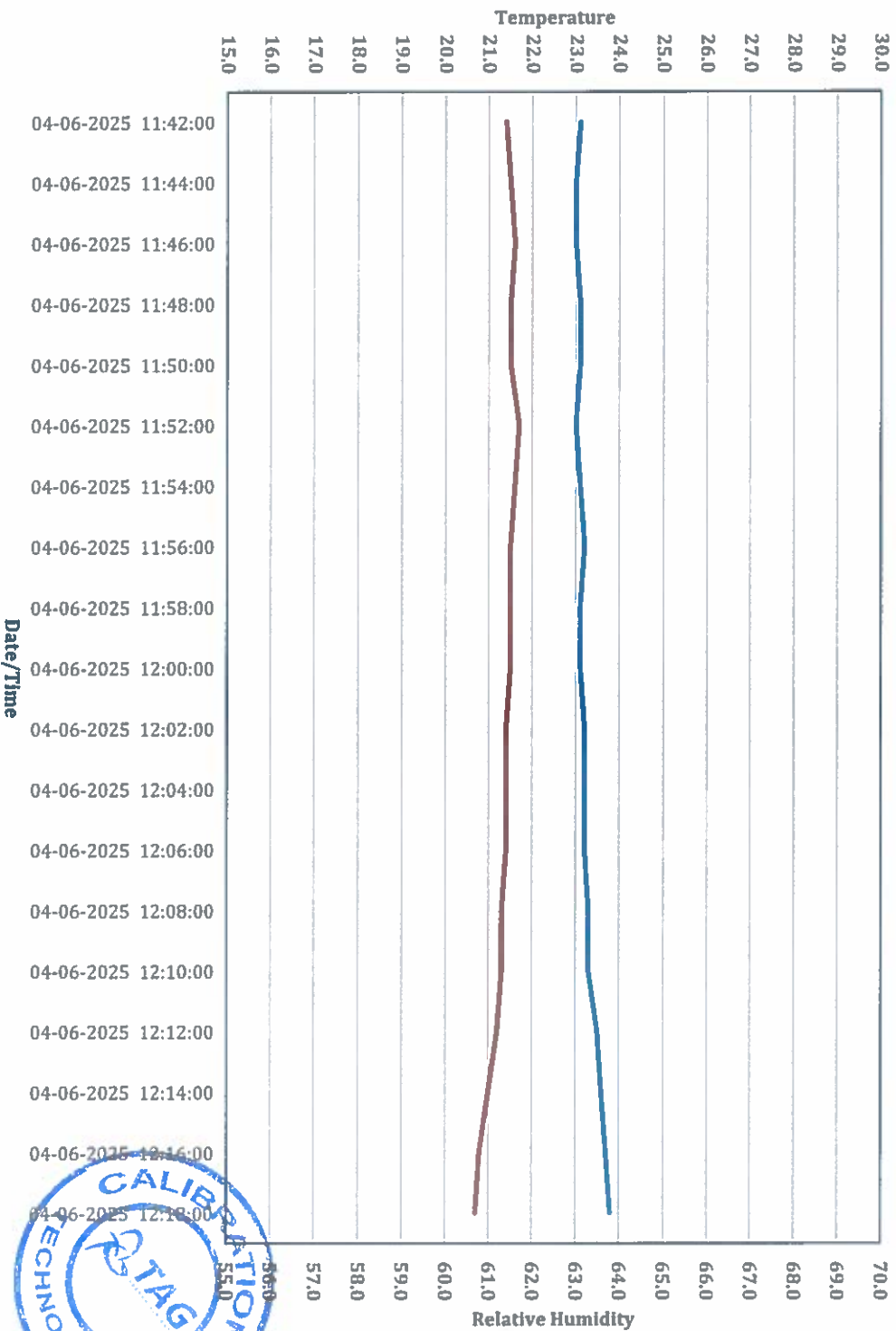
Performance Qualification for		
Retained Sample Room for Raw Material (LB-025)		
Doc. No.: PQR-M-00625		
Sampling Period	30 min (Power Failure)	
Start Date/Time	04-06-2025 11:45:00	
Stop Date/Time	04-06-2025 12:15:00	



T (°C)

1. TZ0322040180

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

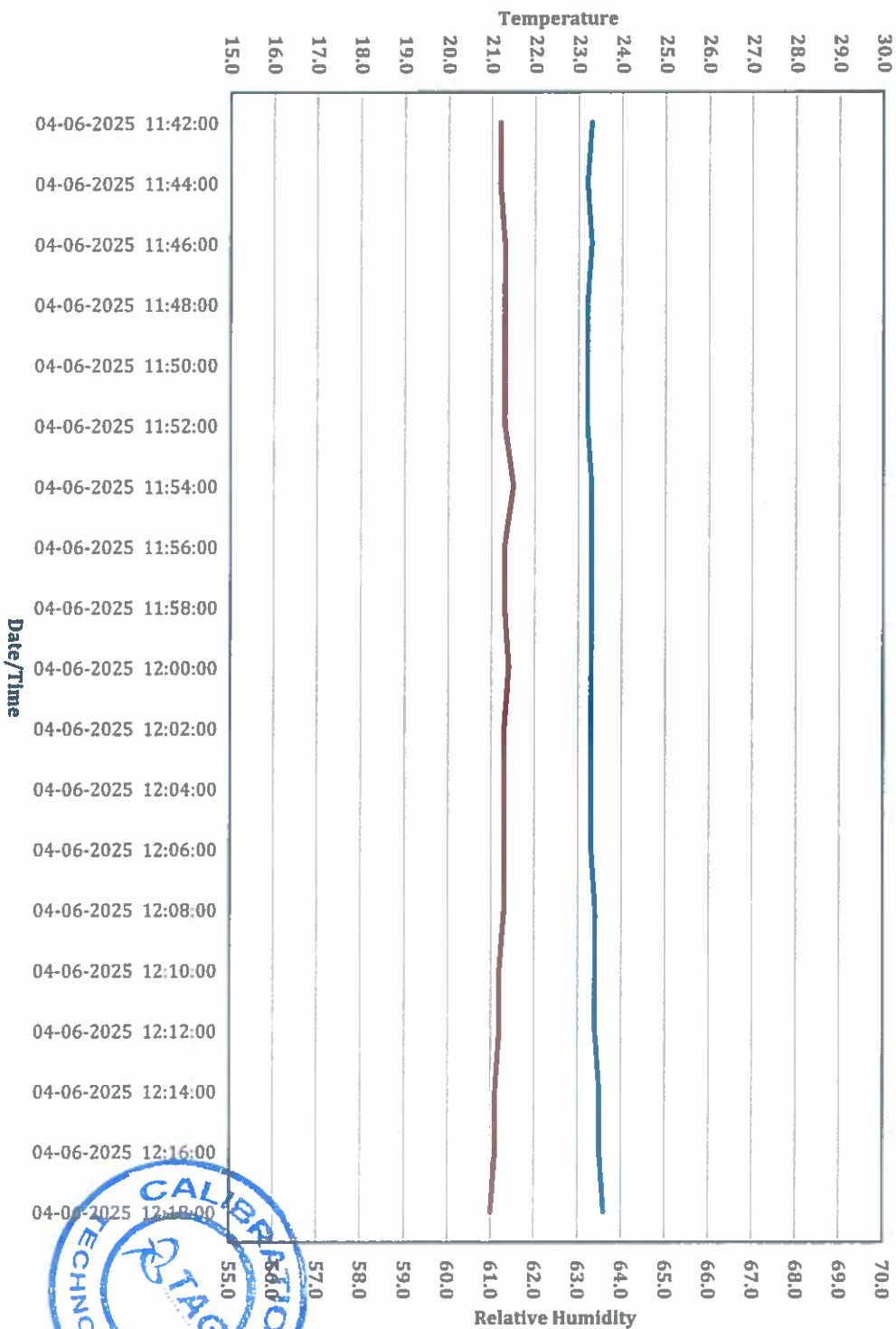
Stop Date/Time 04-06-2025 12:15:00



T (°C)

2. TZ0322041196

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

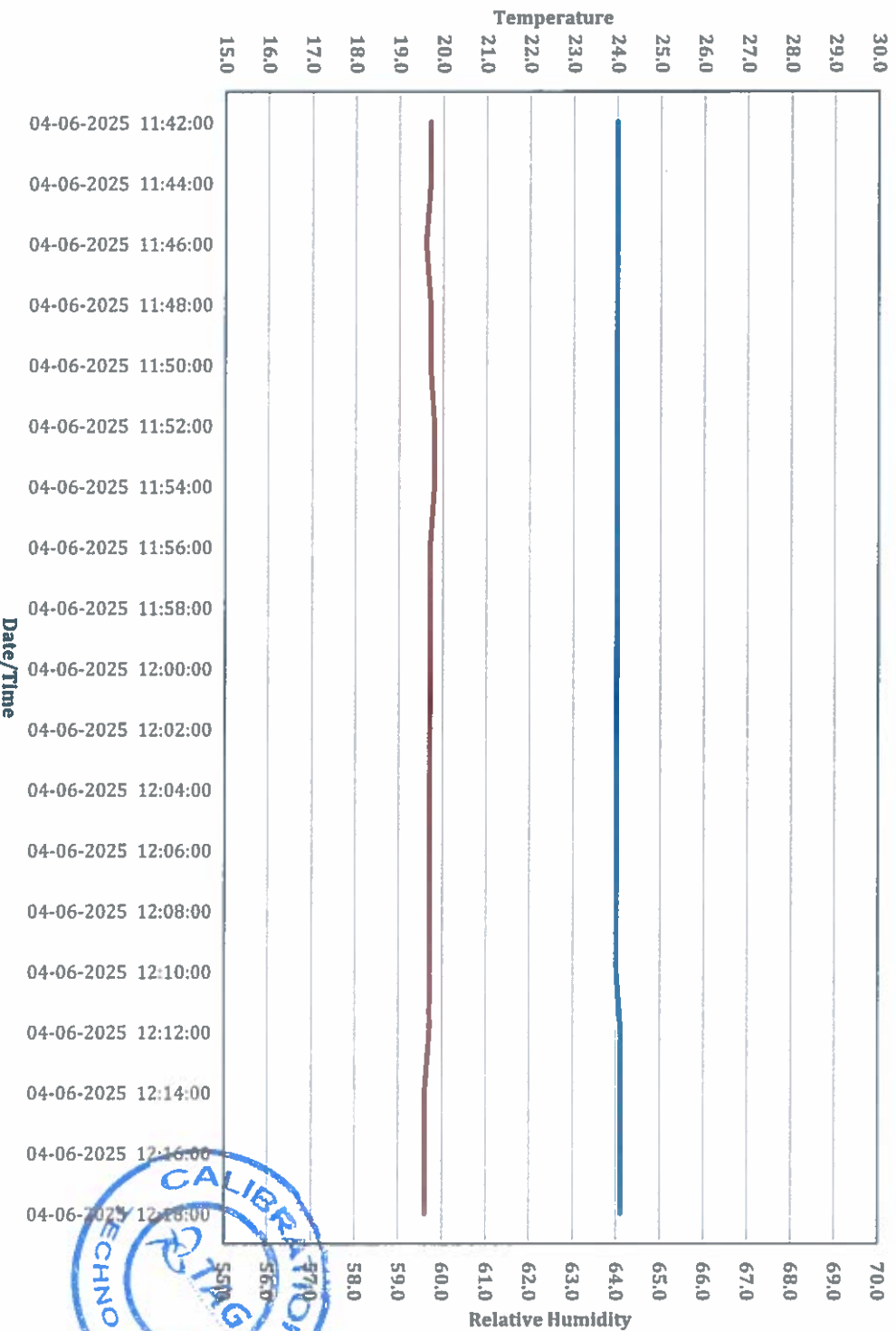
Doc. No.: PQR-M-00625

Sampling Period	30 min (Power Failure)
Start Date/Time	04-06-2025 11:45:00
Stop Date/Time	04-06-2025 12:15:00

T (°C)

3. TZ0322041188

RH (%)



Performance Qualification

for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

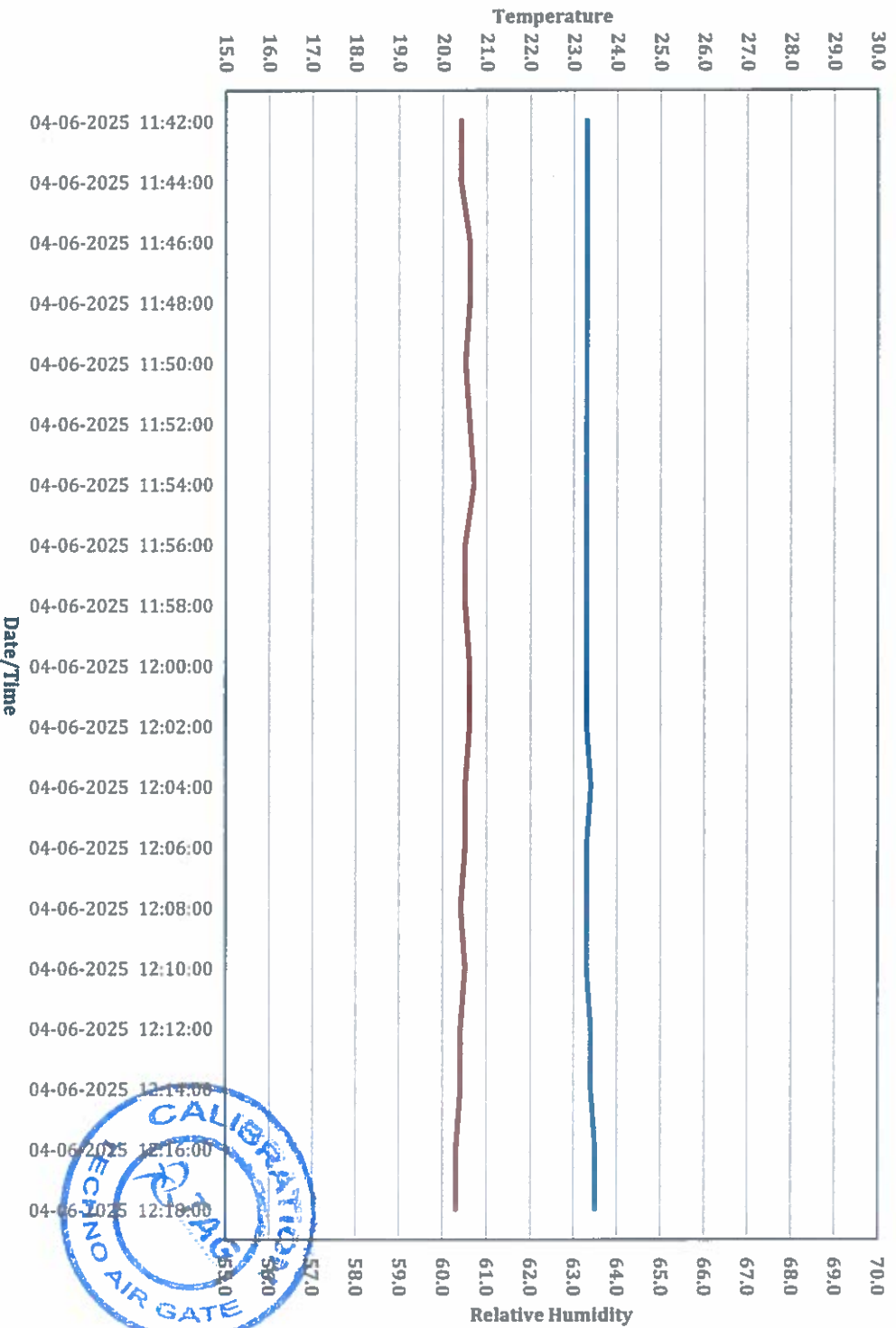
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

RH (%)

4. TZ0322040169



Performance Qualification

for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

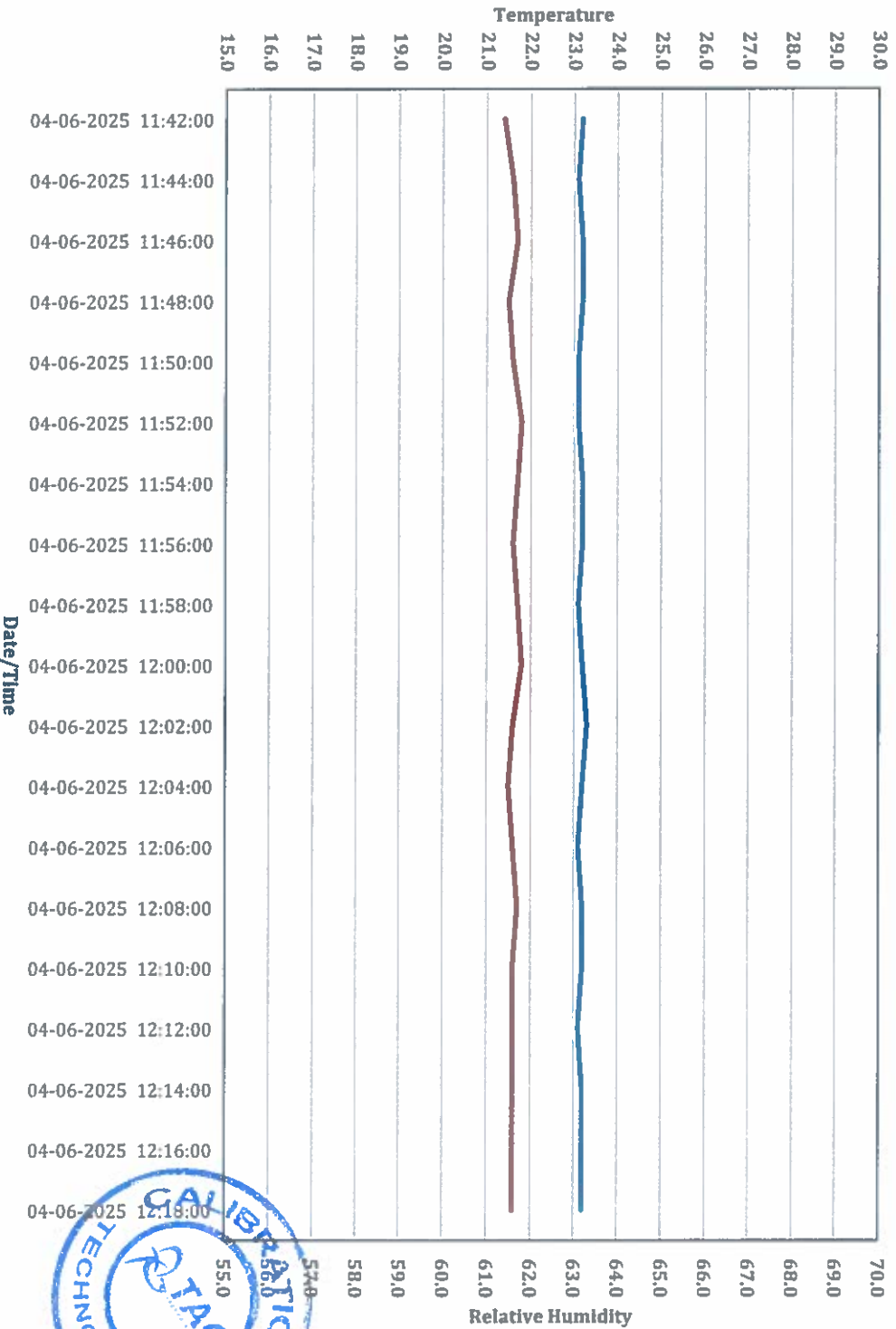
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

5. TZ0322041001

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

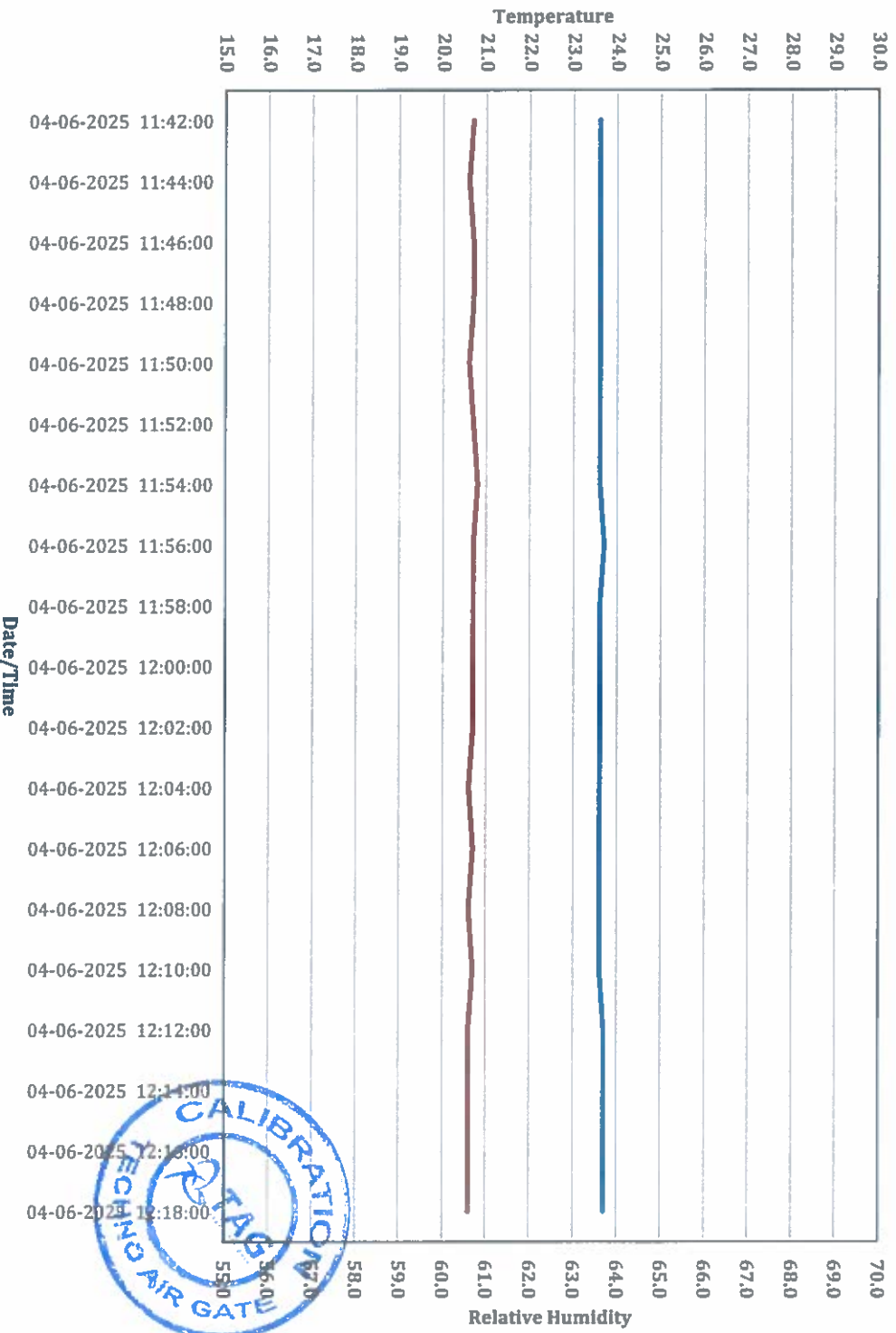
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

6. TZ0322040129

RH (%)





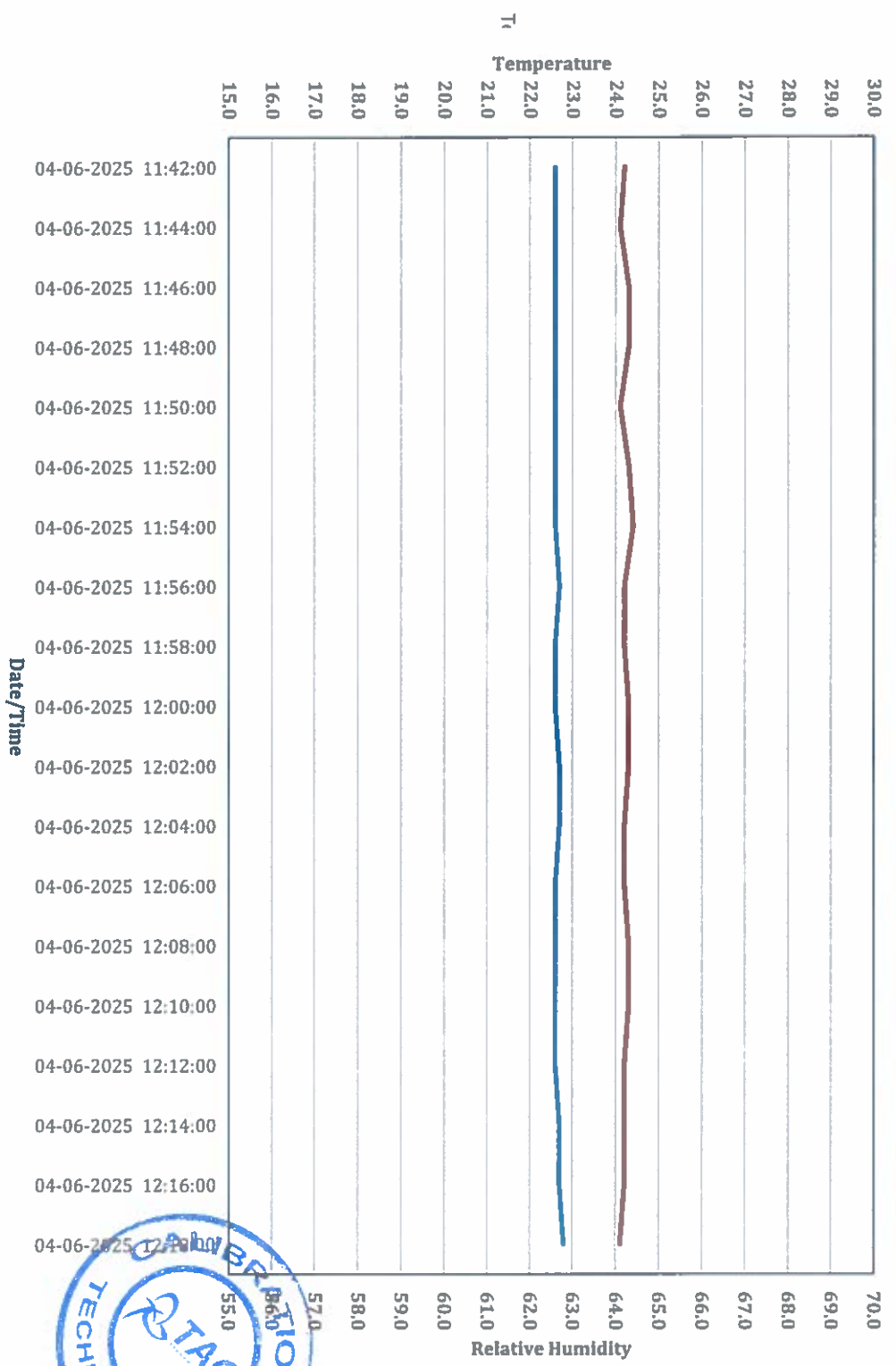
Performance Qualification for			
Retained Sample Room for Raw Material (LB-025)			
Doc. No.: PQR-M-00625		30 min (Power Failure)	
Sampling Period		04-06-2025 11:45:00	
Start Date/Time		04-06-2025 12:15:00	
Stop Date/Time			



T (°C)

7. TZ0322041071

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

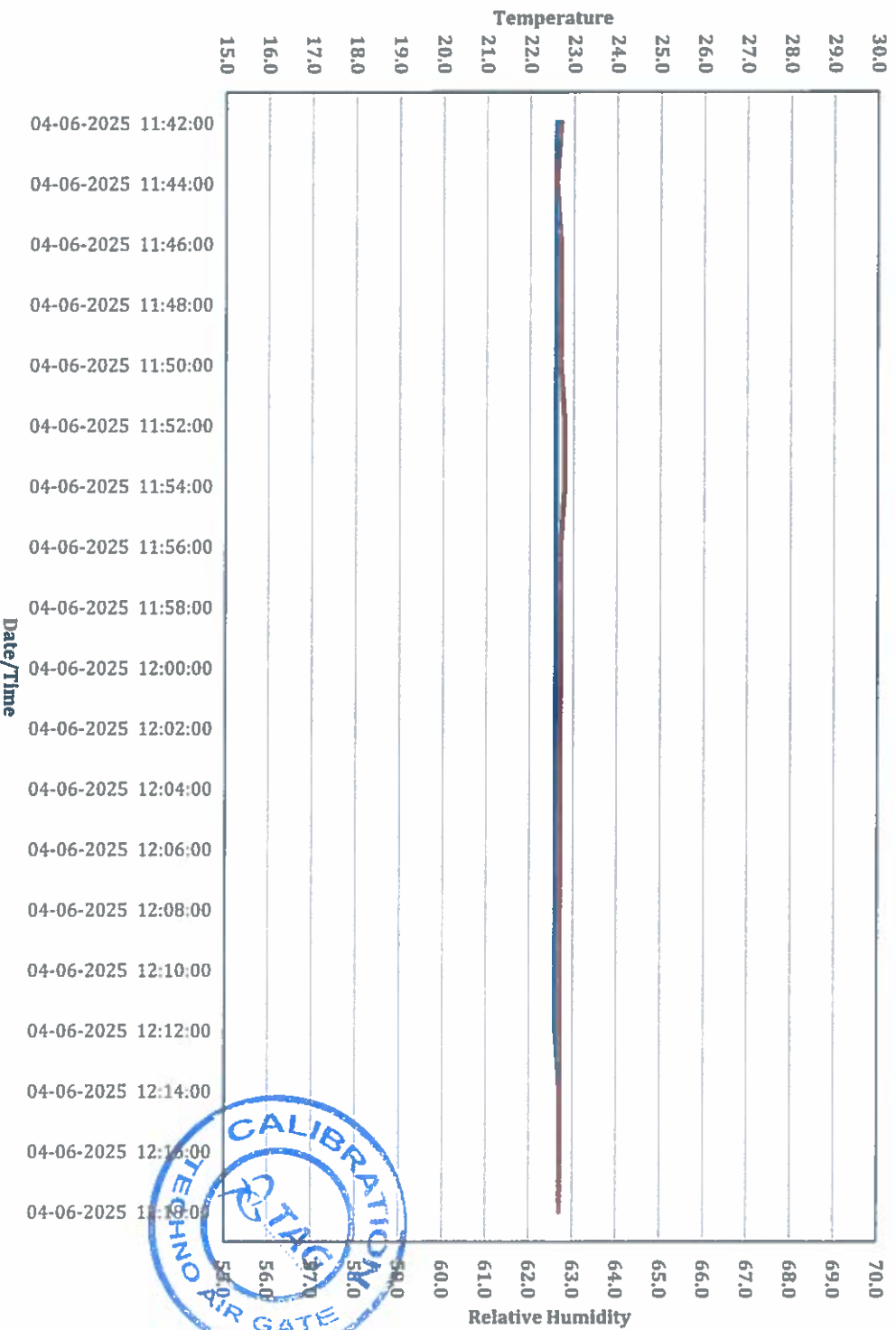
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

8. TZ0322040149

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

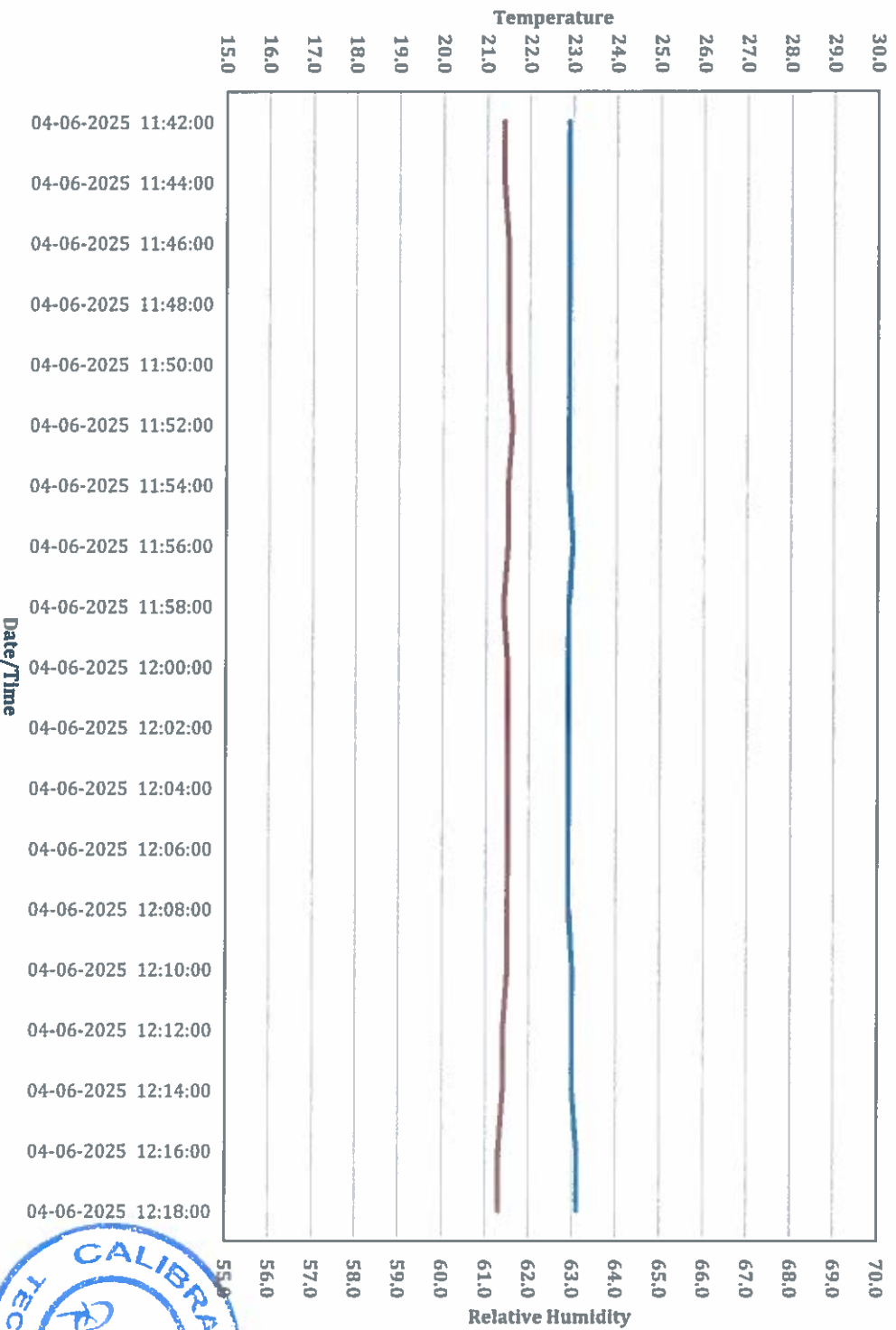
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

RH (%)

9. TZ0323114418



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

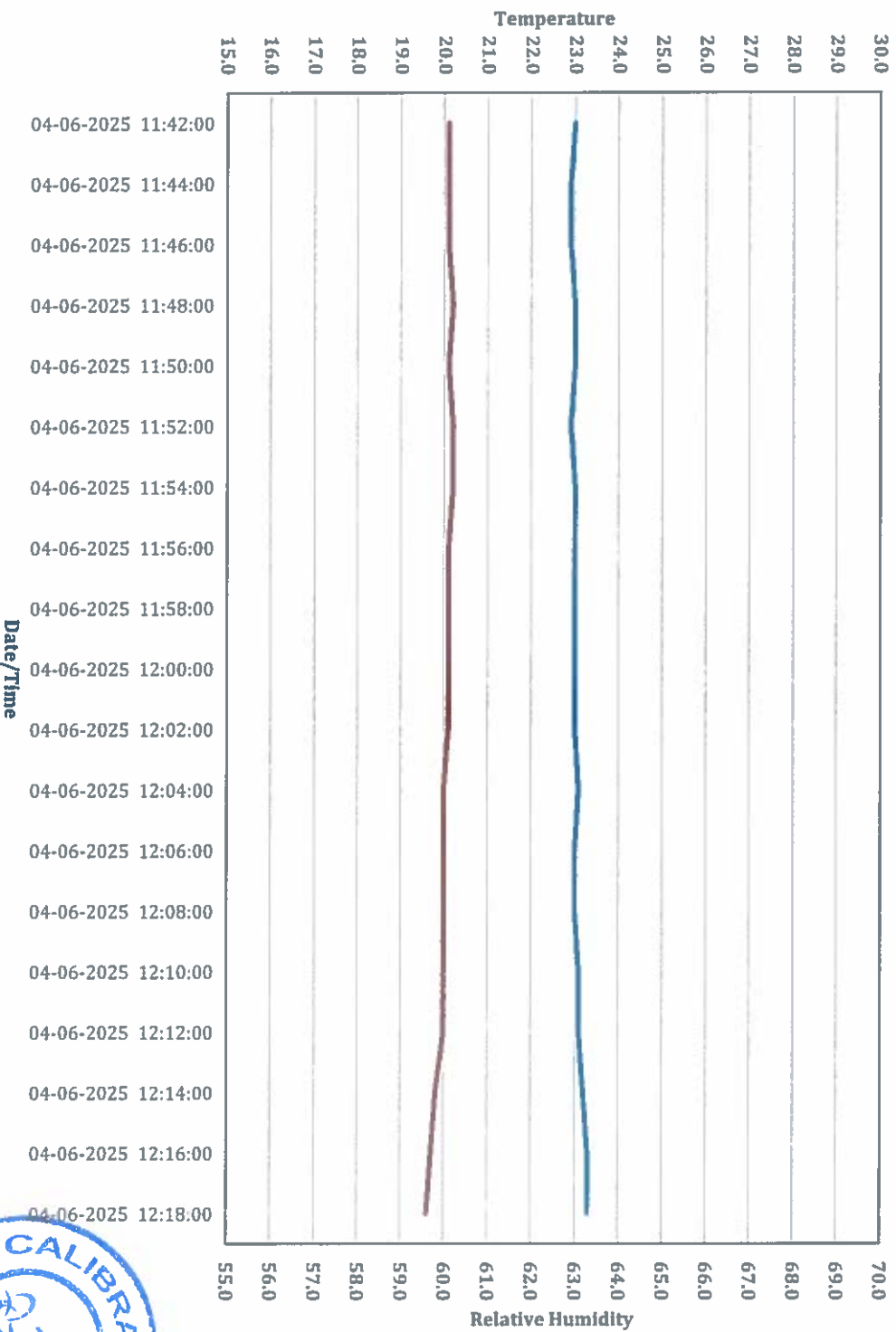
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

10. TZ0323114544

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

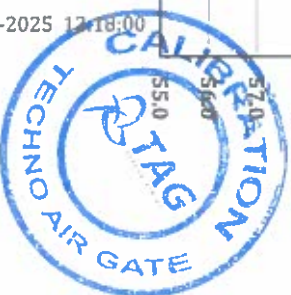
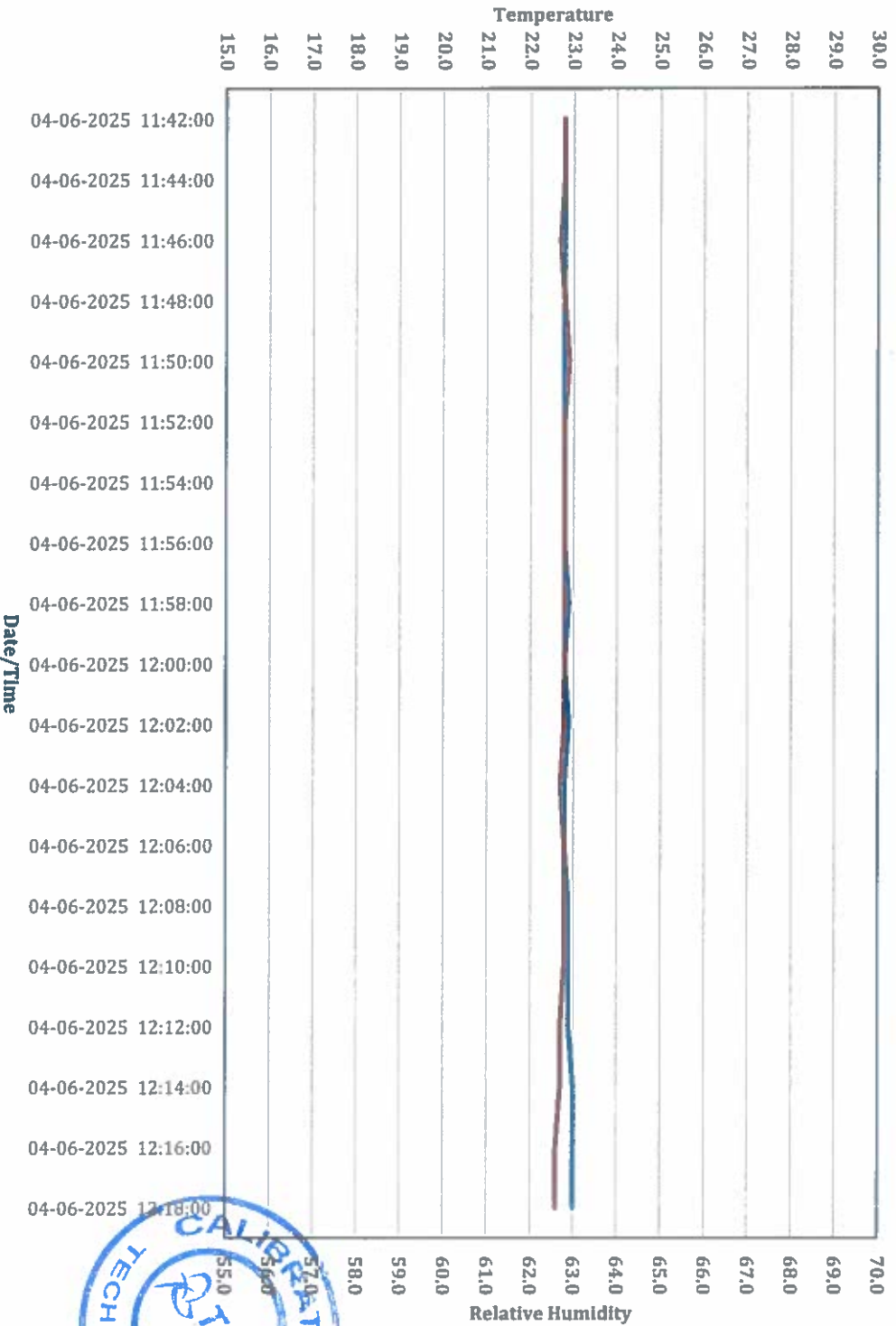
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

RH (%)

11. TZ0322040121



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

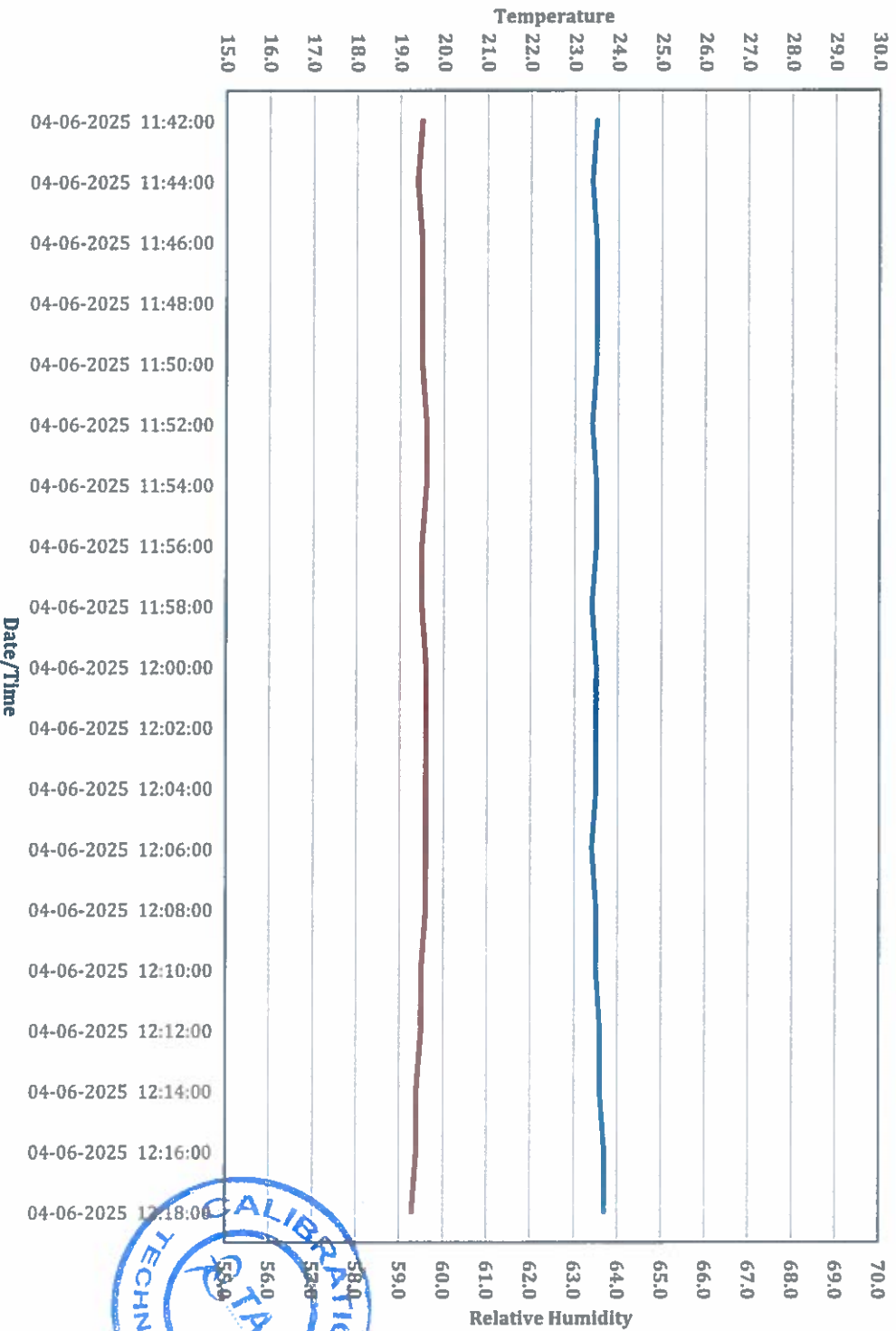
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

RH (%)

12. TZ0323114578



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

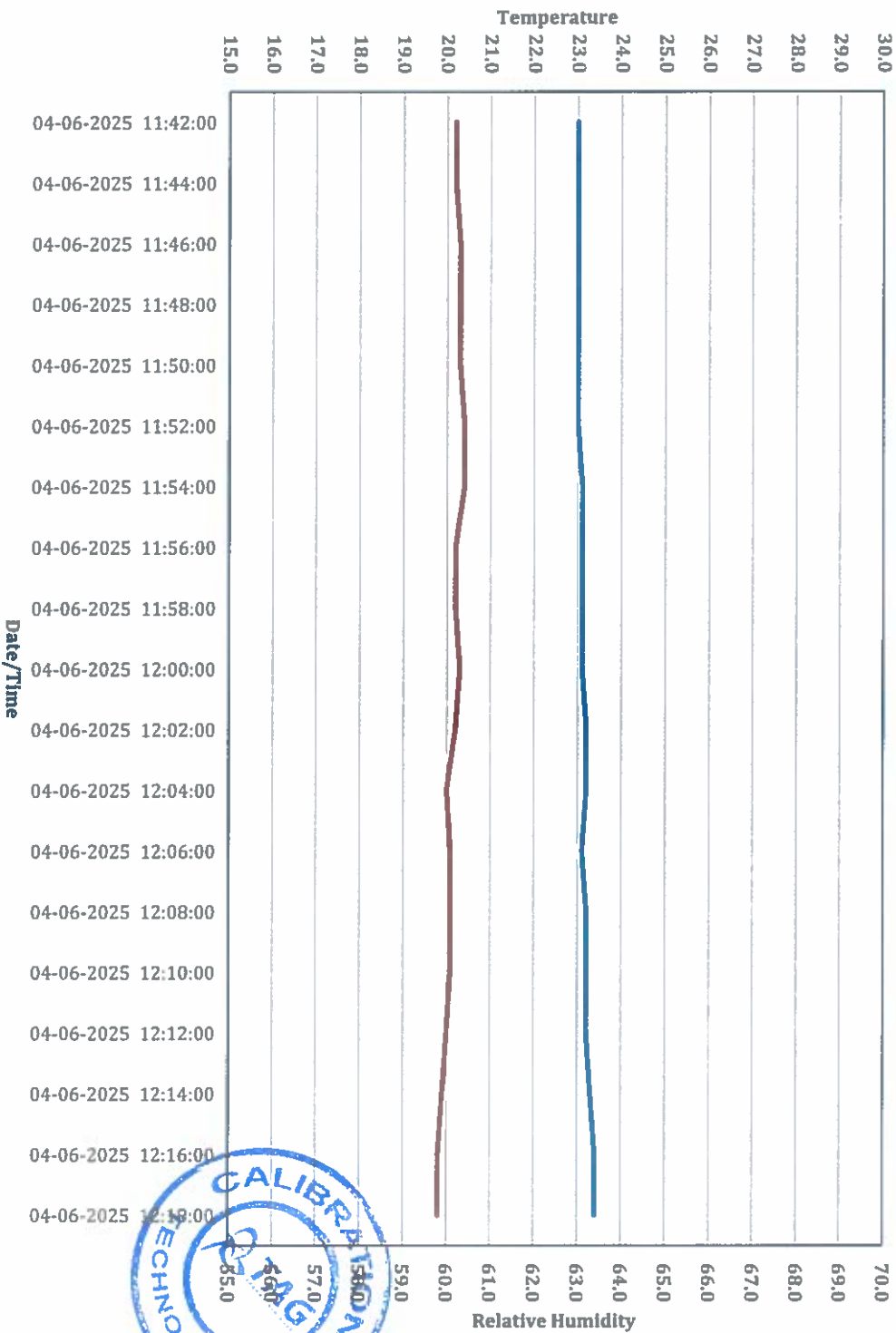
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

13. TZ0323114516

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

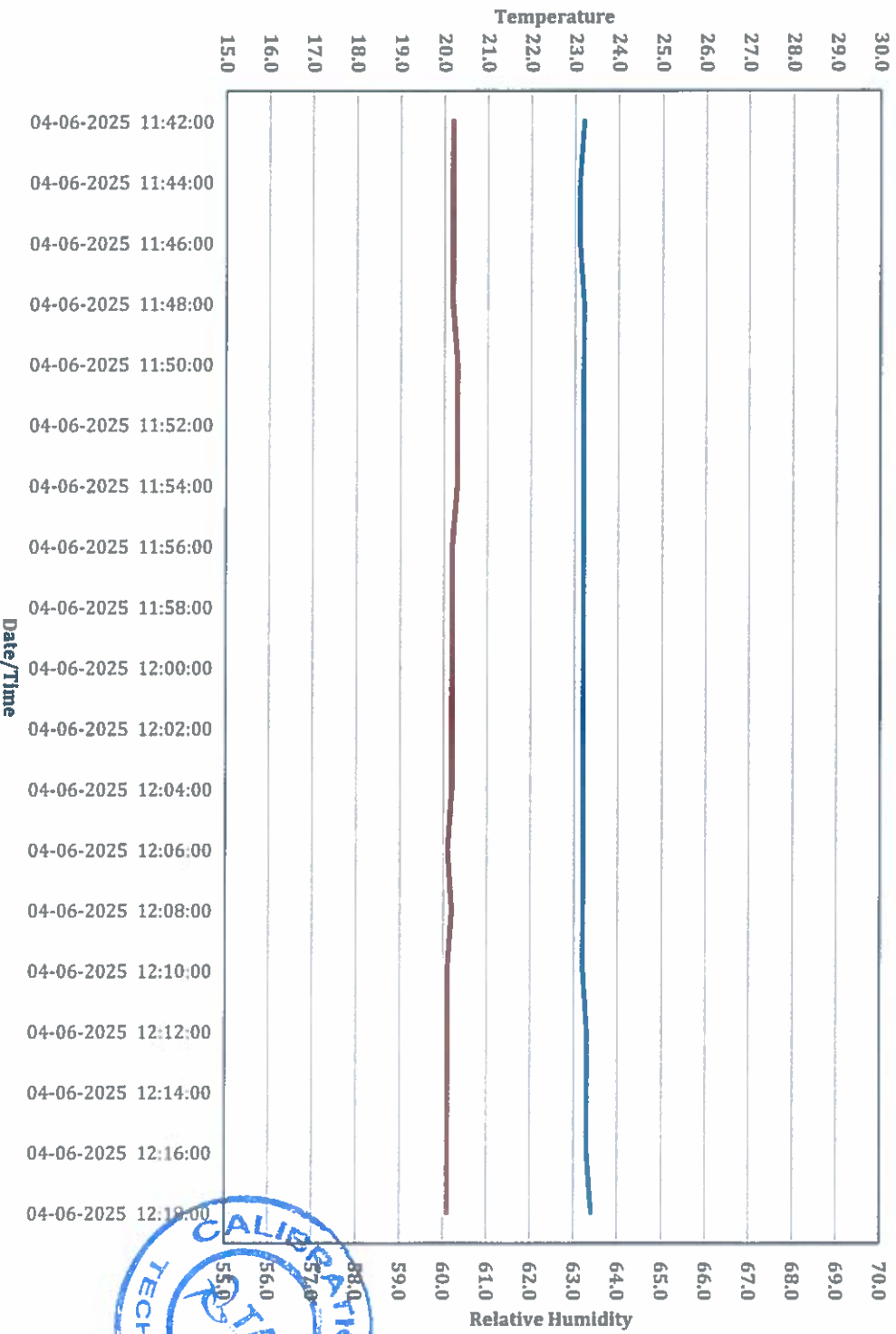
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

14. TZ0323114412

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

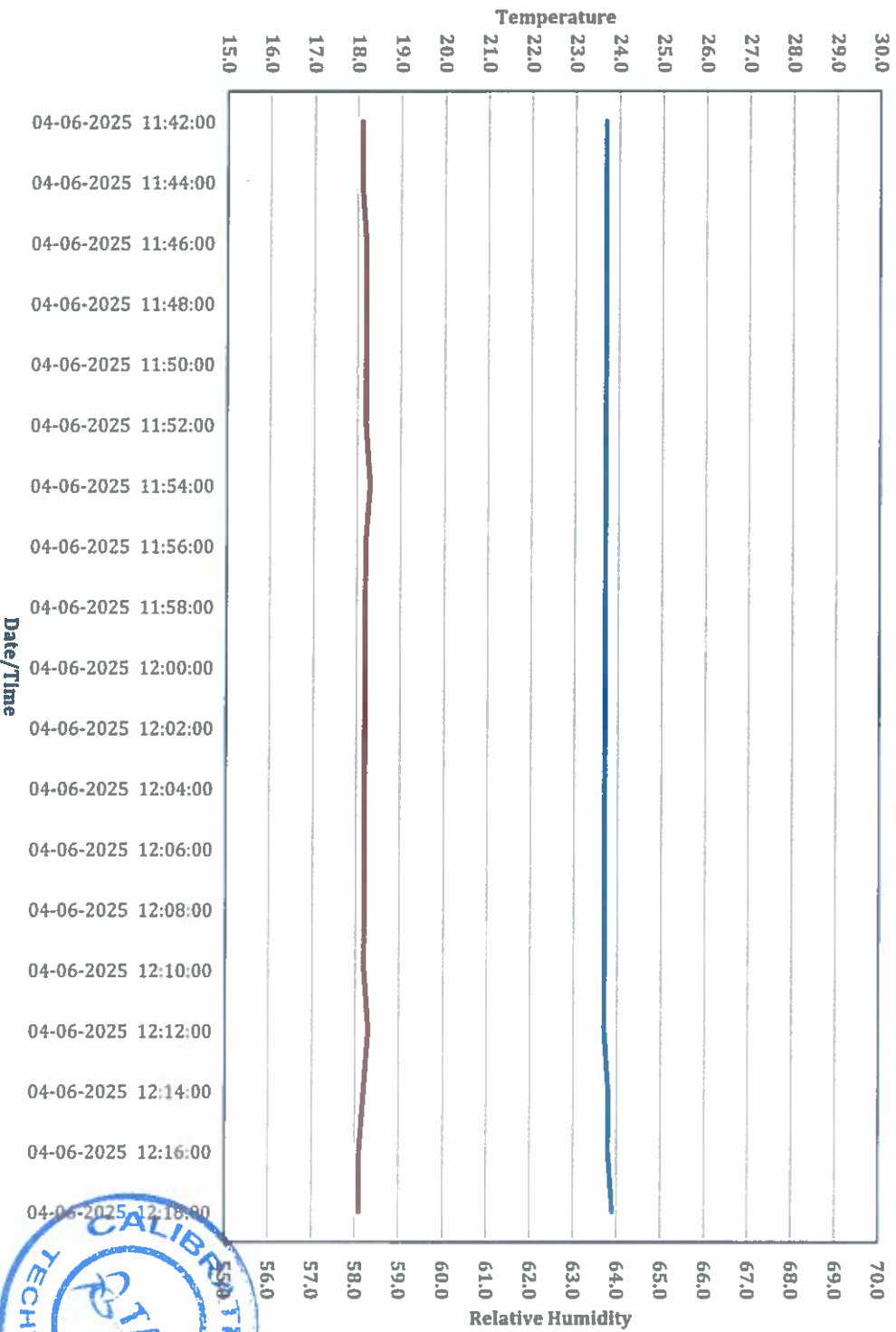
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

15. TZ0323114431

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

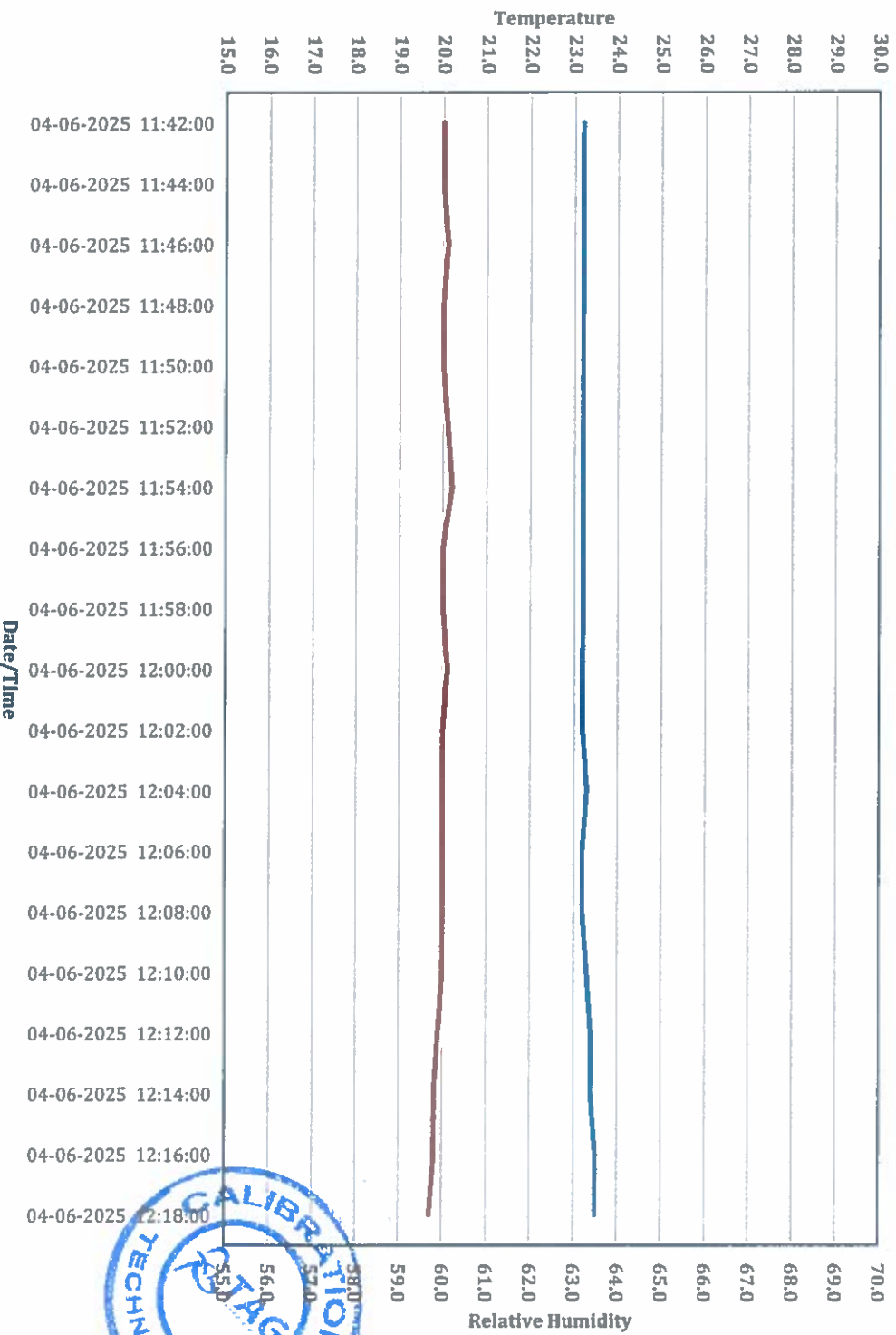
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

16. TZ0323114577

RH (%)





Performance Qualification

for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

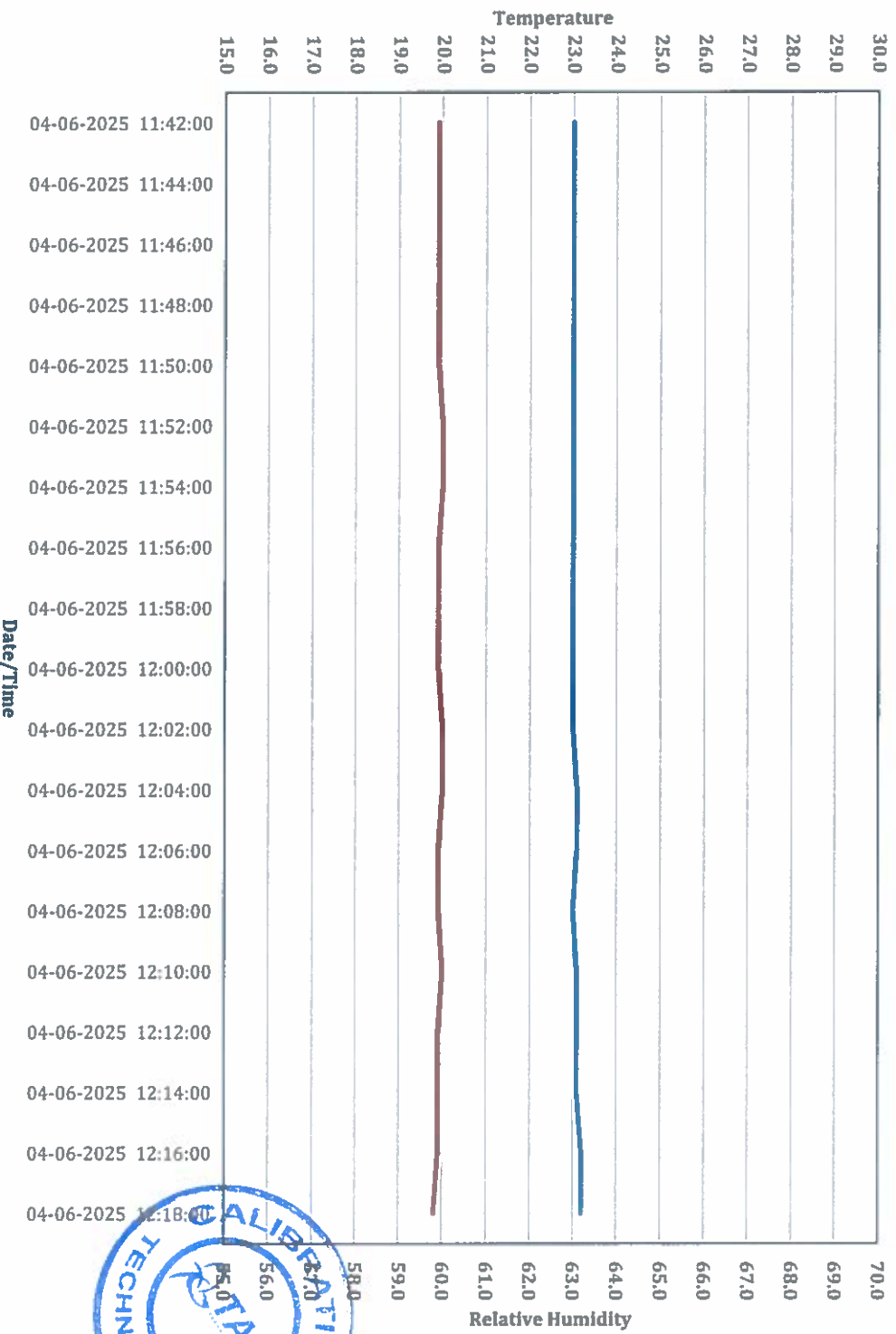
Stop Date/Time 04-06-2025 12:15:00



T (°C)

RH (%)

17. TZ0323114565



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

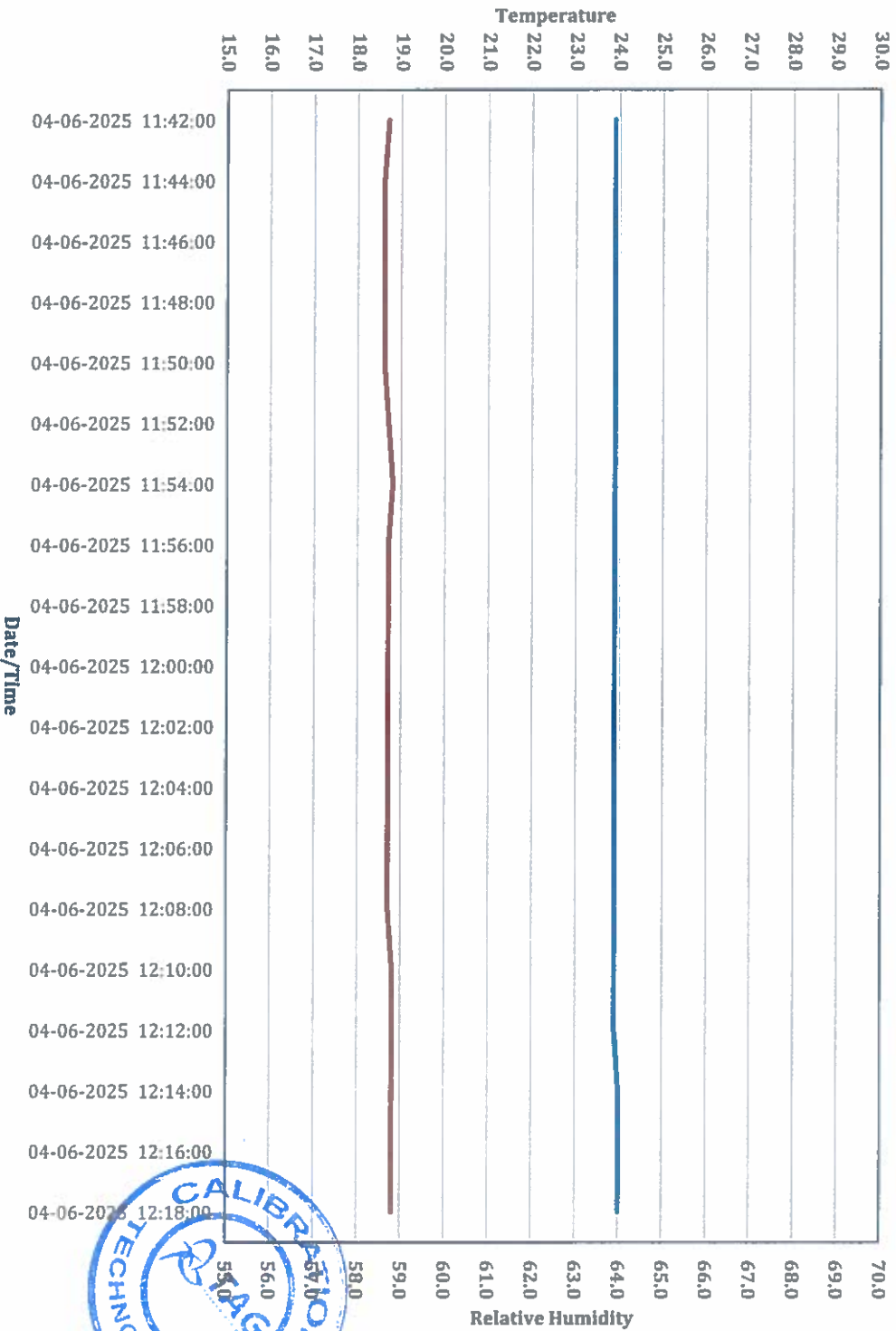
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

18. TZ0323114540

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

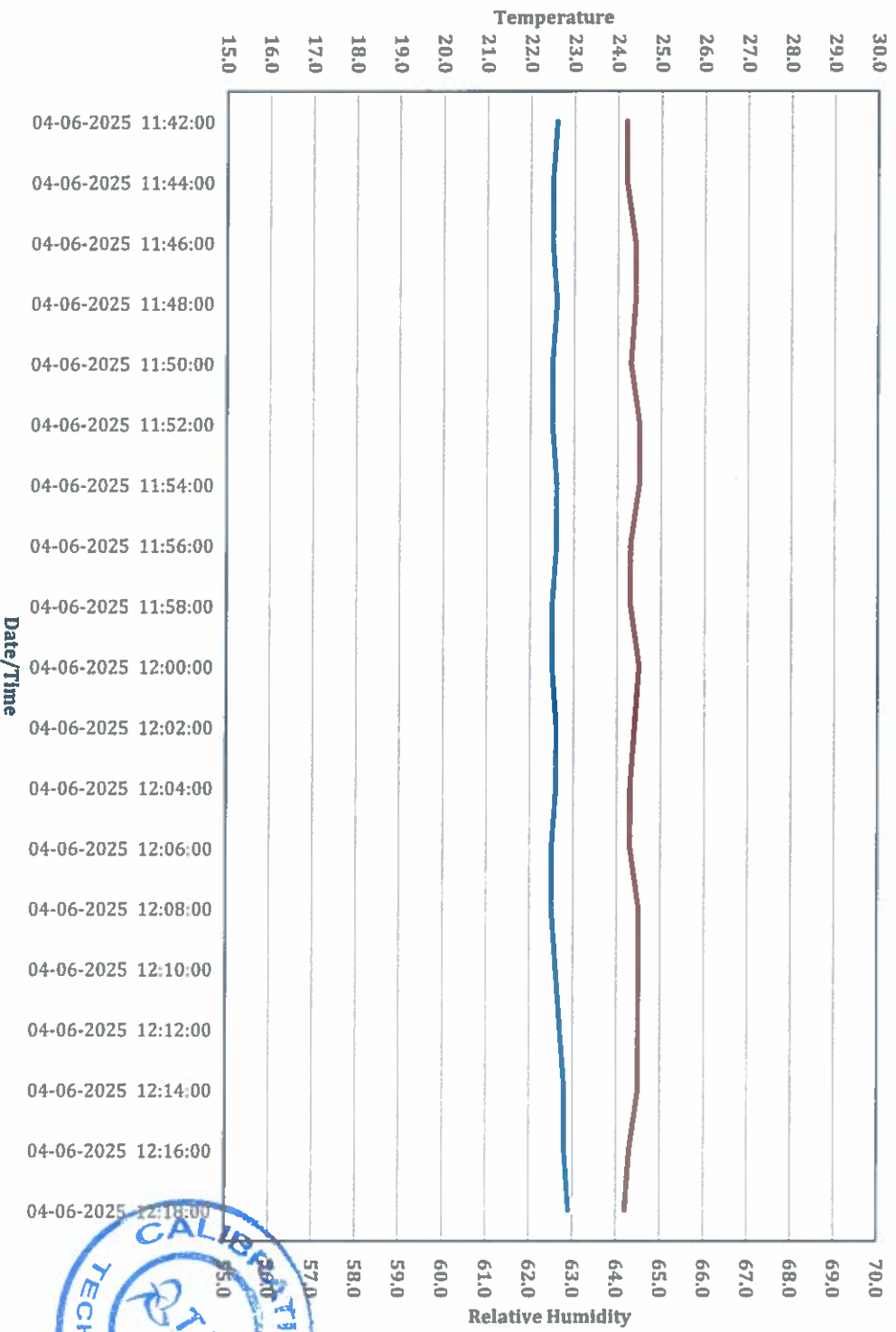
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

19. TZ0322041093

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

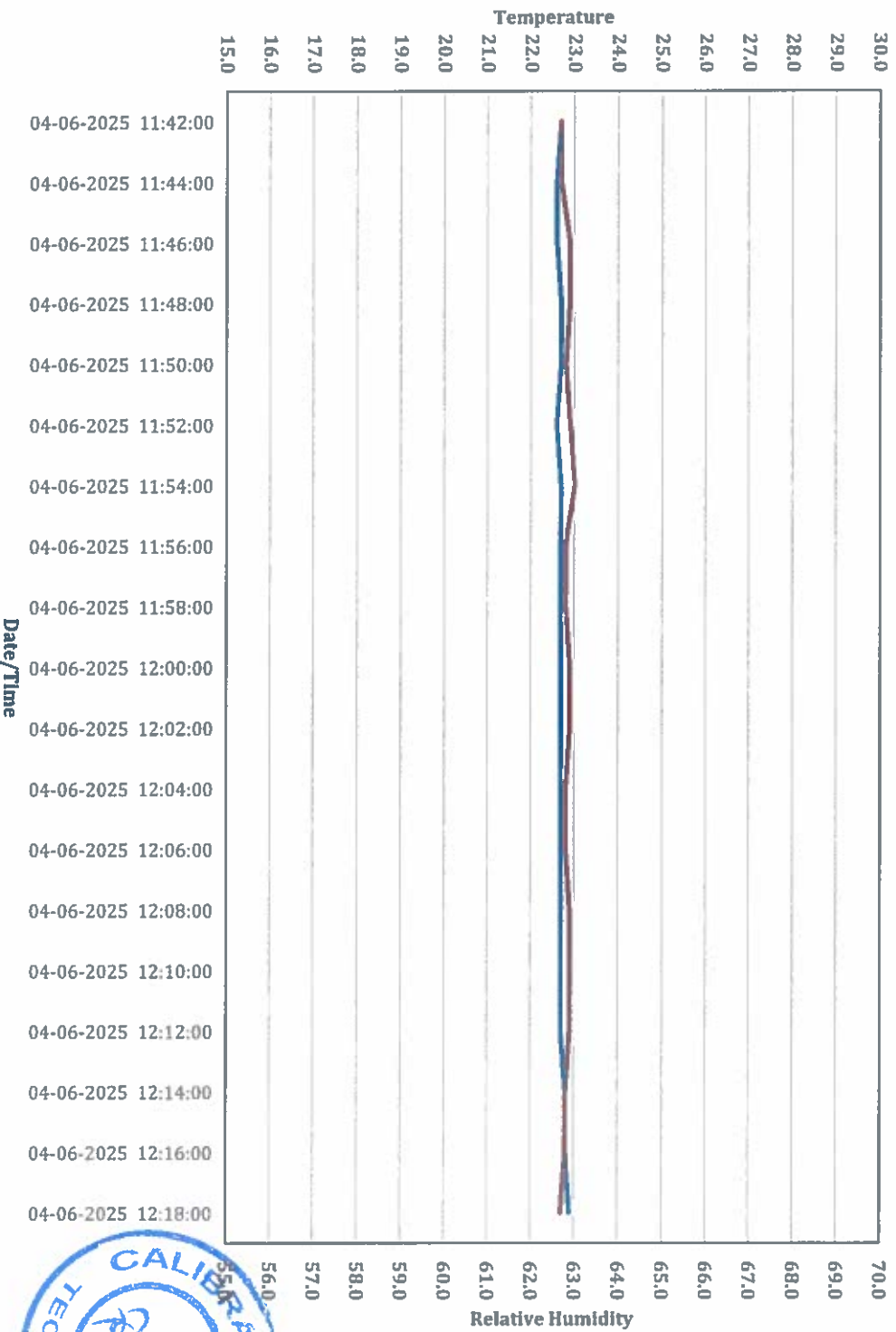
Stop Date/Time 04-06-2025 12:15:00



T (°C)

20. TZ0323114535

RH (%)





Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

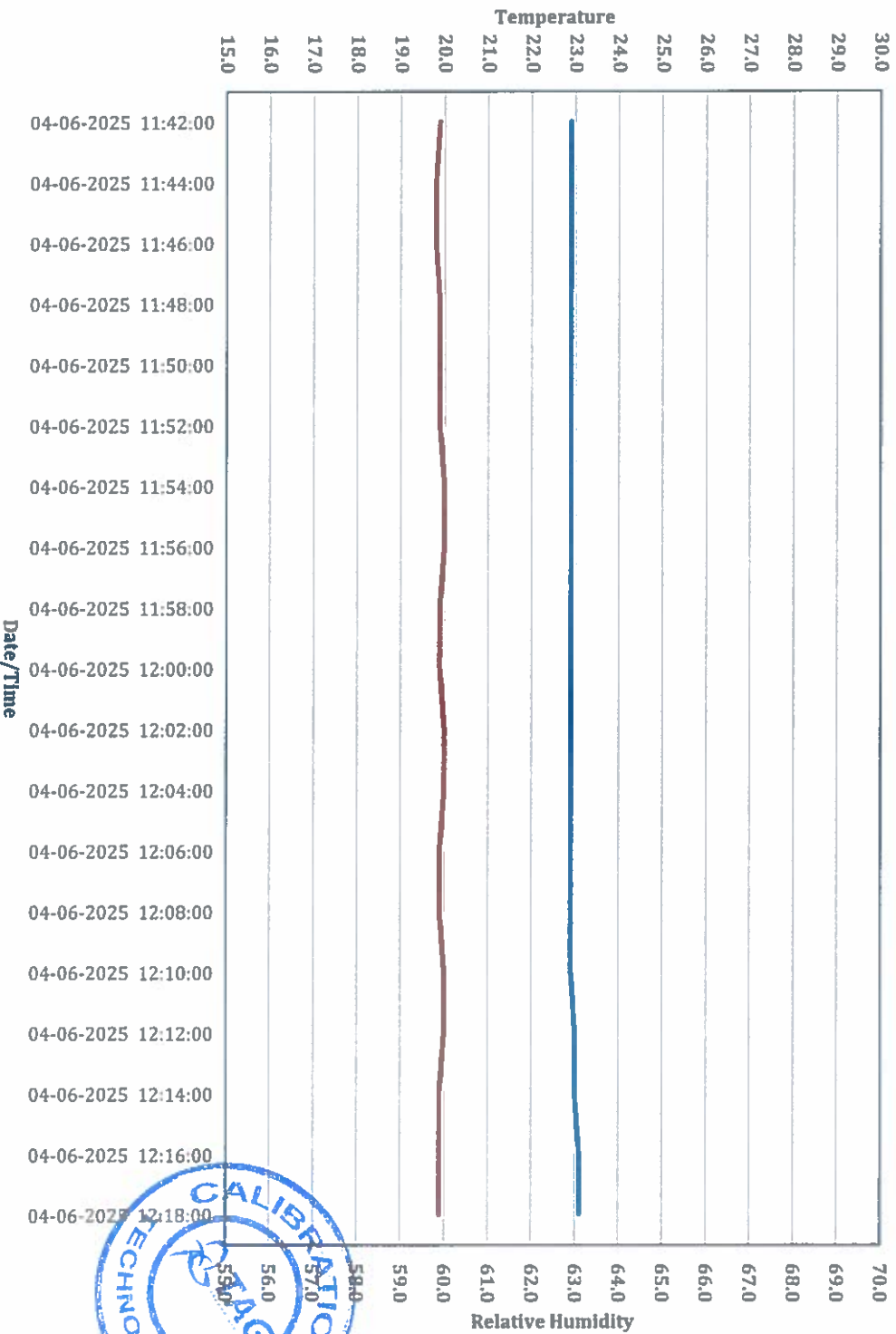
Stop Date/Time 04-06-2025 12:15:00



T (°C)

RH (%)

21. TZ0323114527





Performance Qualification

for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

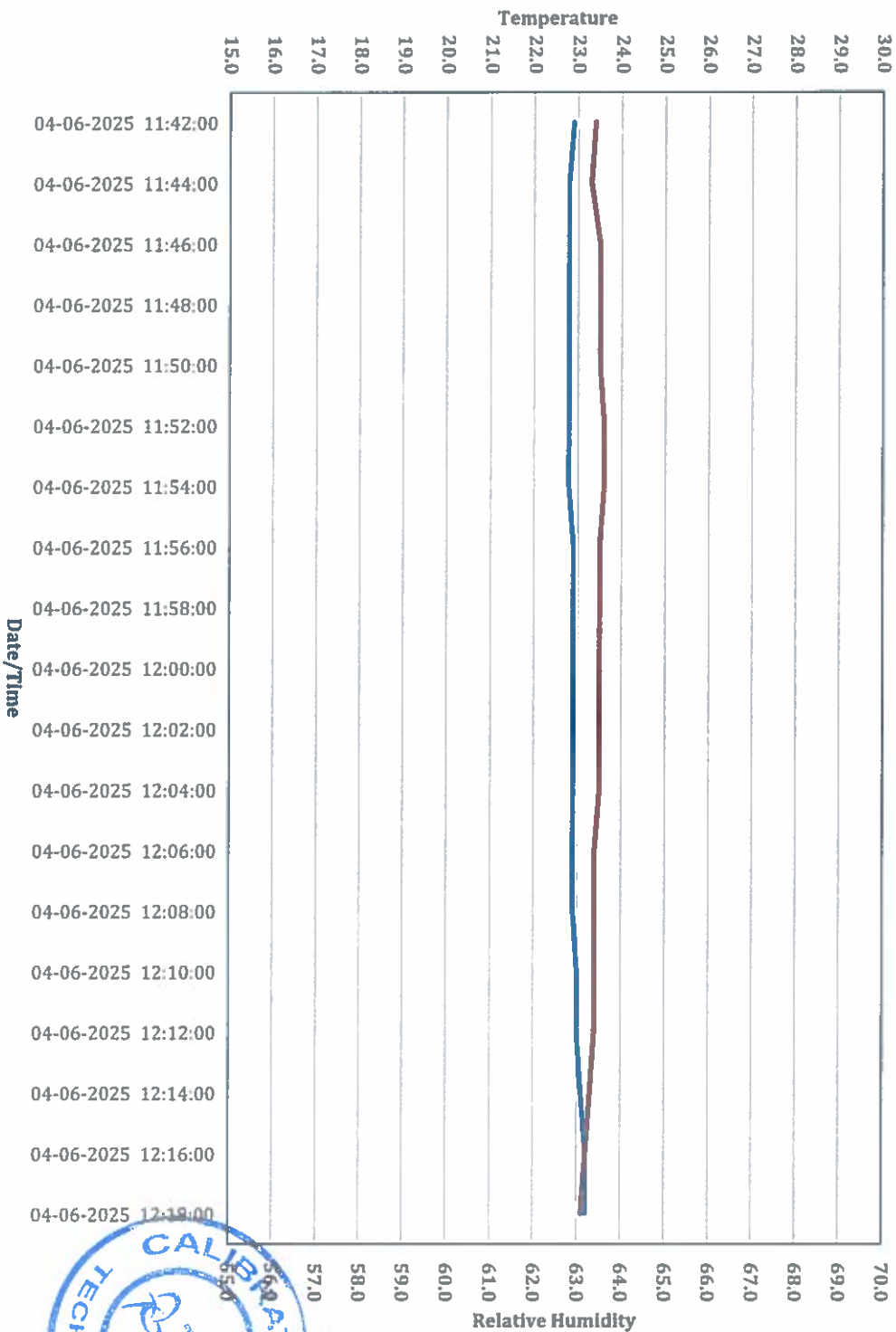
Stop Date/Time 04-06-2025 12:15:00



T (°C)

22. TZ0322040131

RH (%)





Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

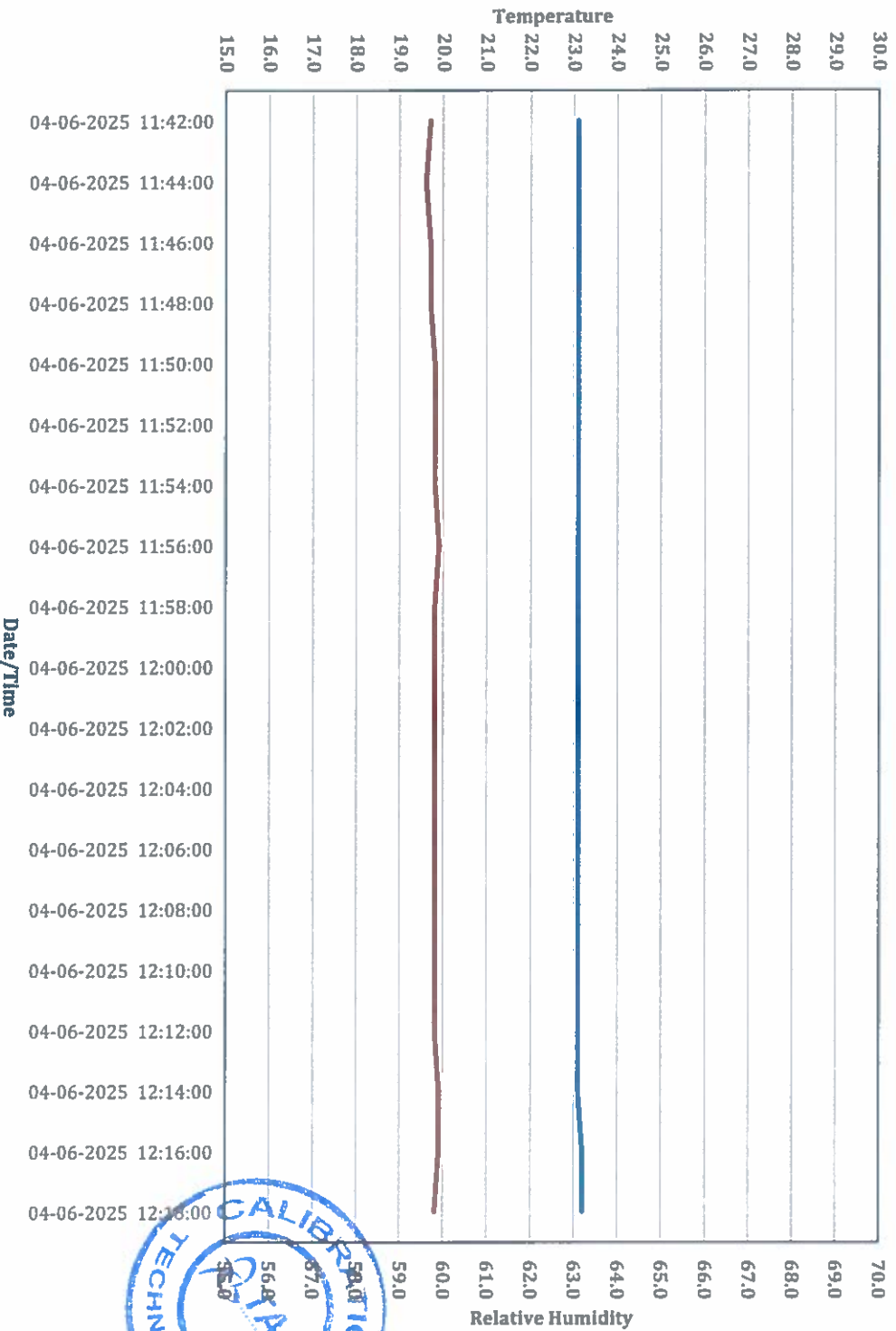
Stop Date/Time 04-06-2025 12:15:00



T (°C)

23. TZ0323114407

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

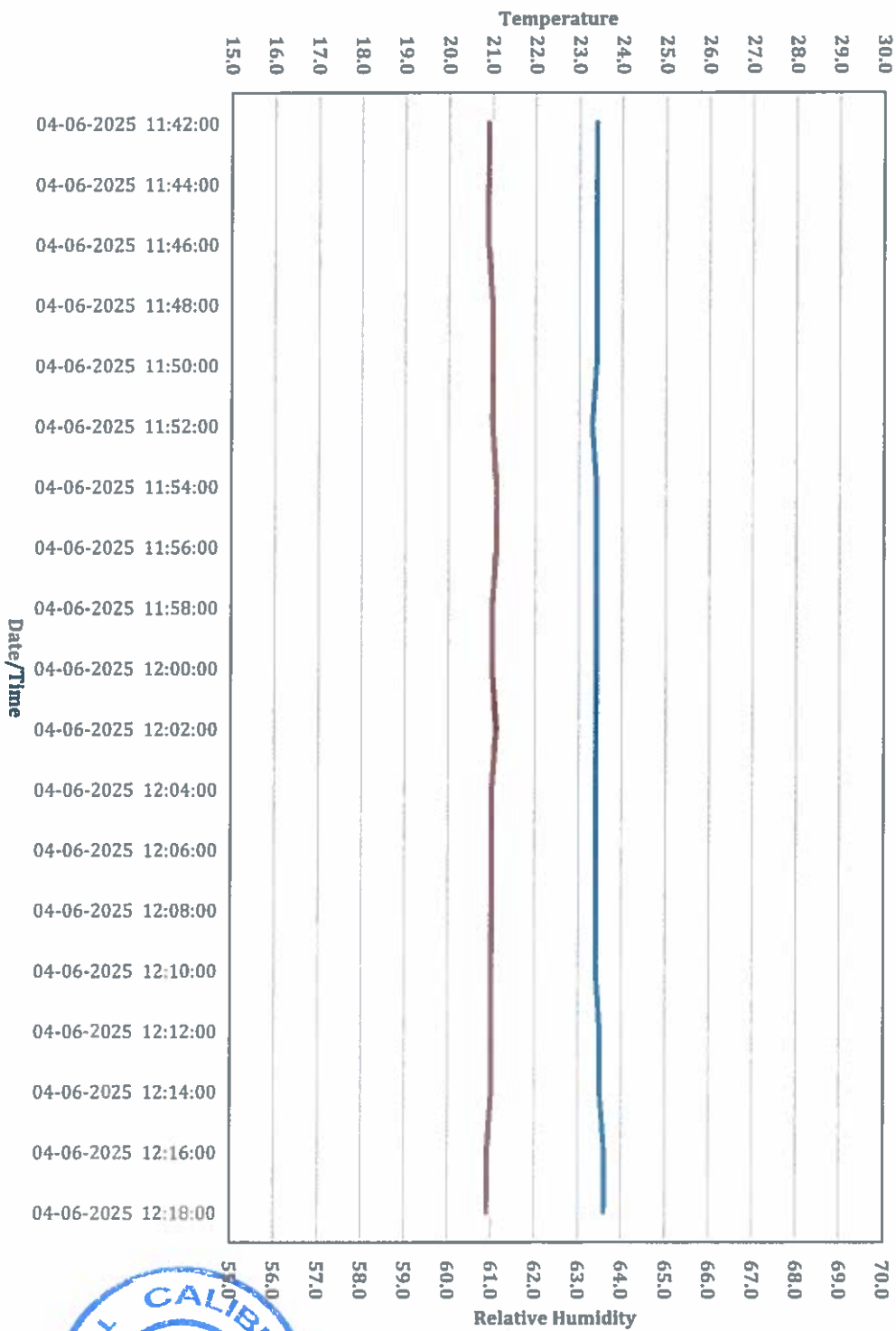
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

24. TZ0322040102

RH (%)



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

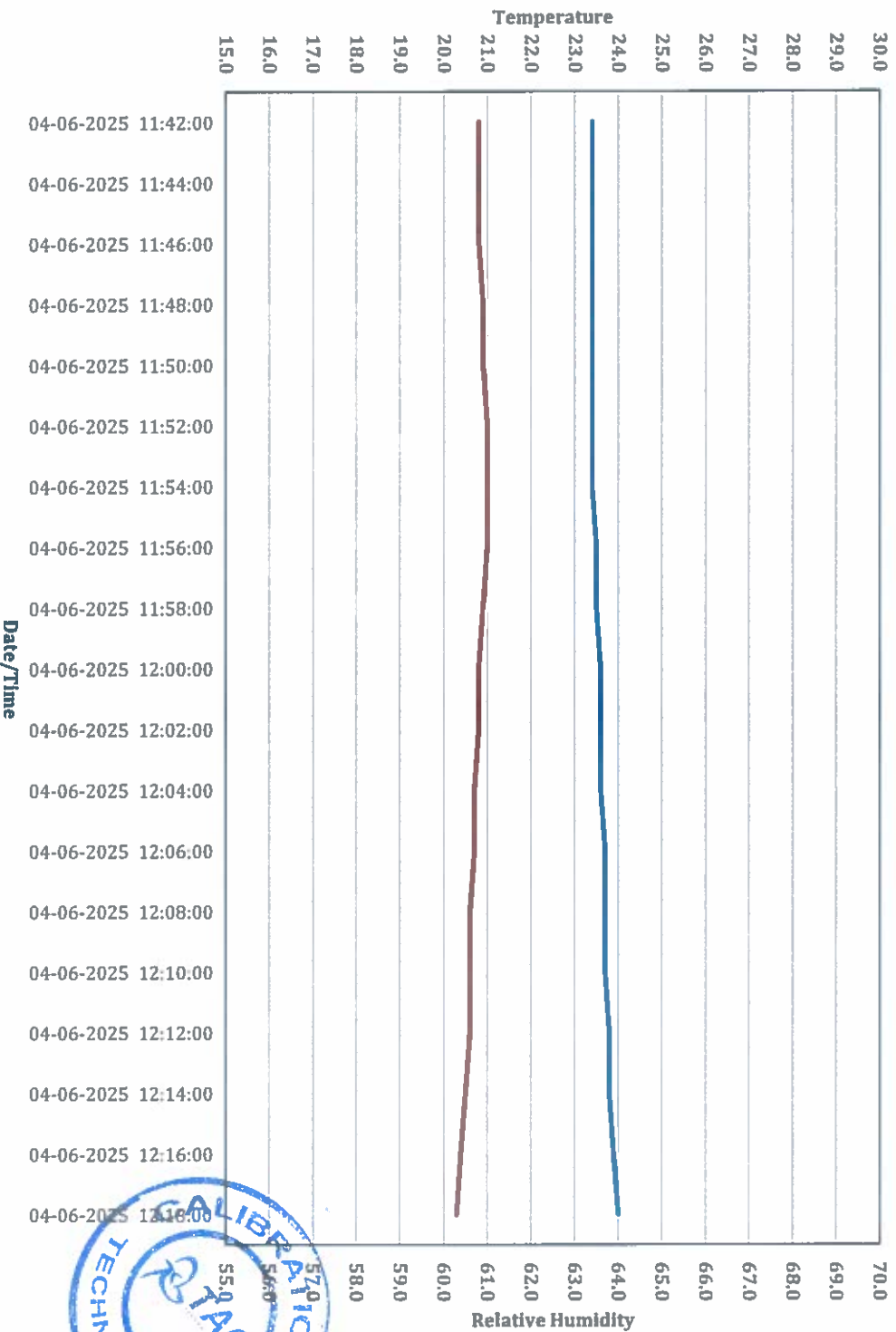
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

25. TZ0322040199

RH (%)





Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

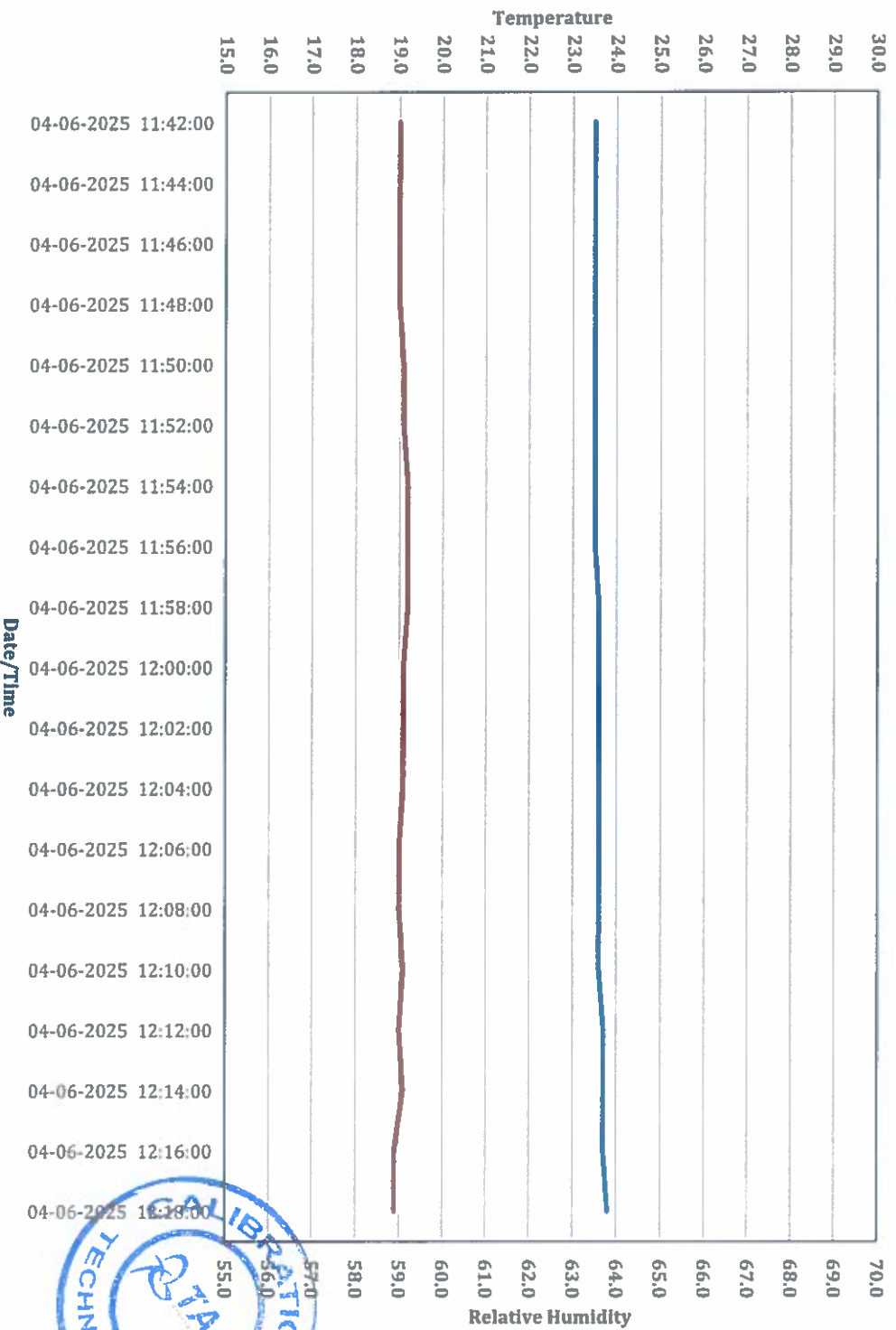
Stop Date/Time 04-06-2025 12:15:00



T (°C)

26. TZ0323114503

RH (%)





Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

Start Date/Time 04-06-2025 11:45:00

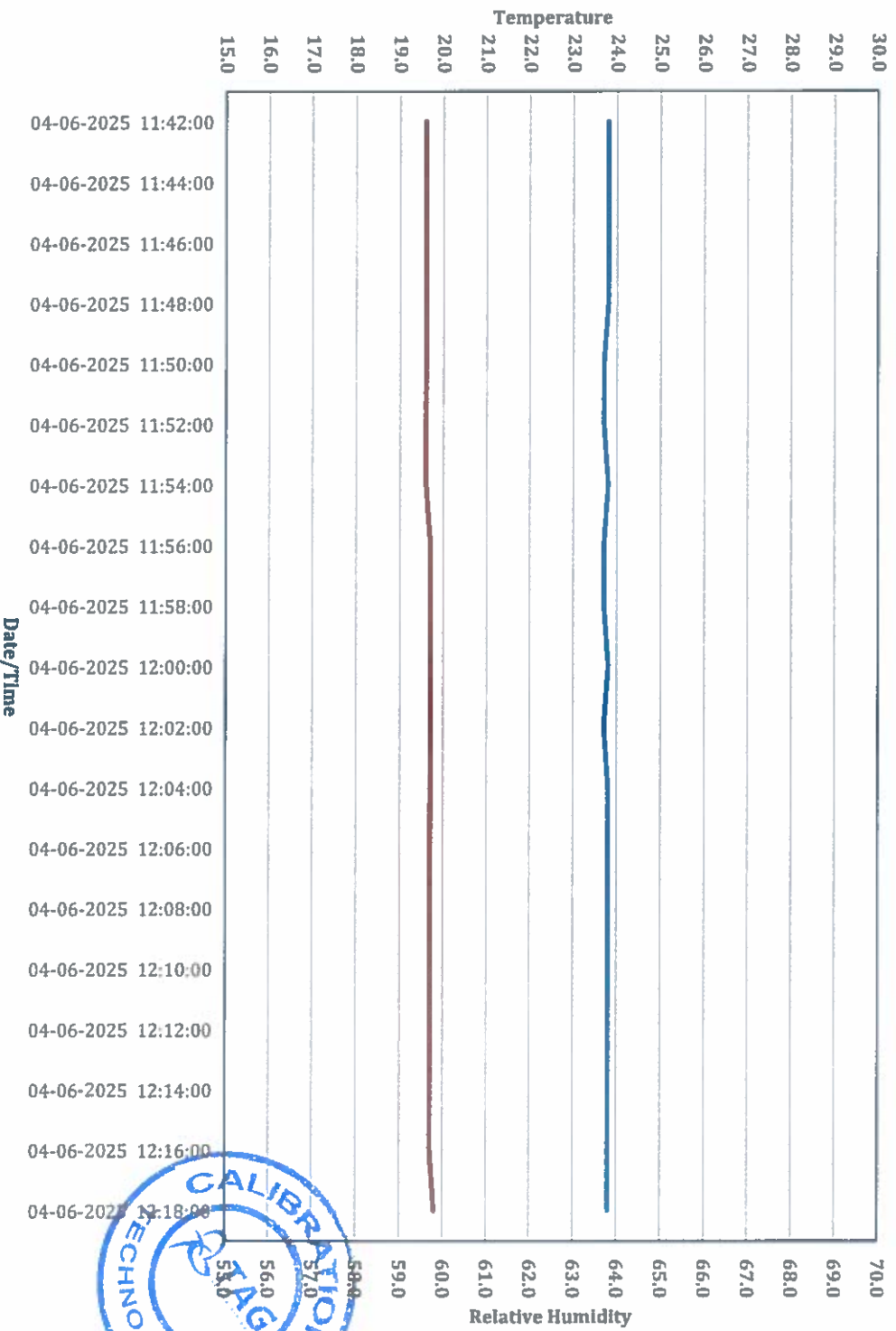
Stop Date/Time 04-06-2025 12:15:00



T (°C)

RH (%)

27. TZ0322040111



Performance Qualification
for

Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 30 min (Power Failure)

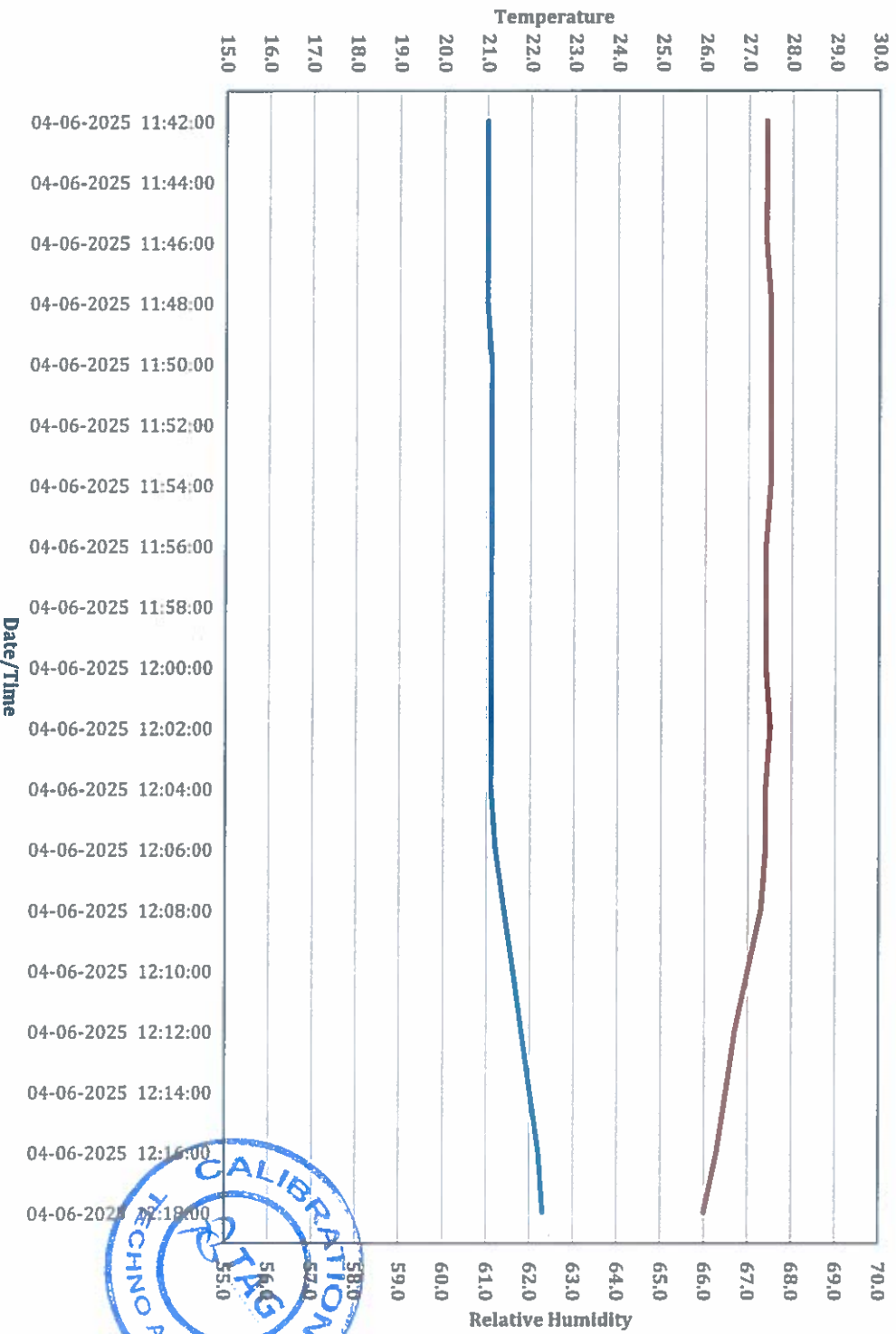
Start Date/Time 04-06-2025 11:45:00

Stop Date/Time 04-06-2025 12:15:00

T (°C)

28. TZ0322040878 (Ambient)

RH (%)



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

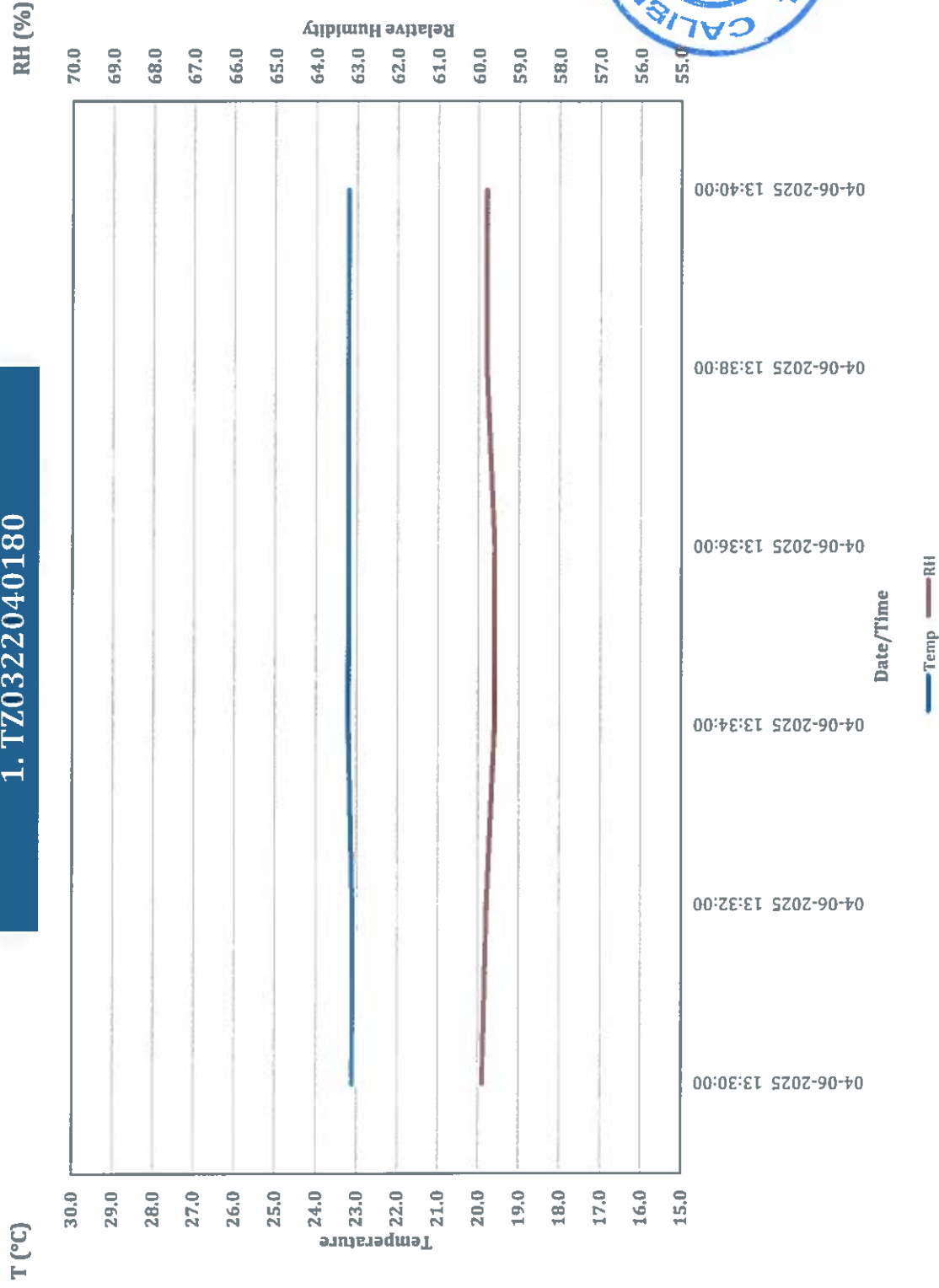
ATTACHMENTS 01.02.01.03

Door Opening Printouts



RETAINED SAMPLE ROOM PERFORMANCE QUALIFICATION

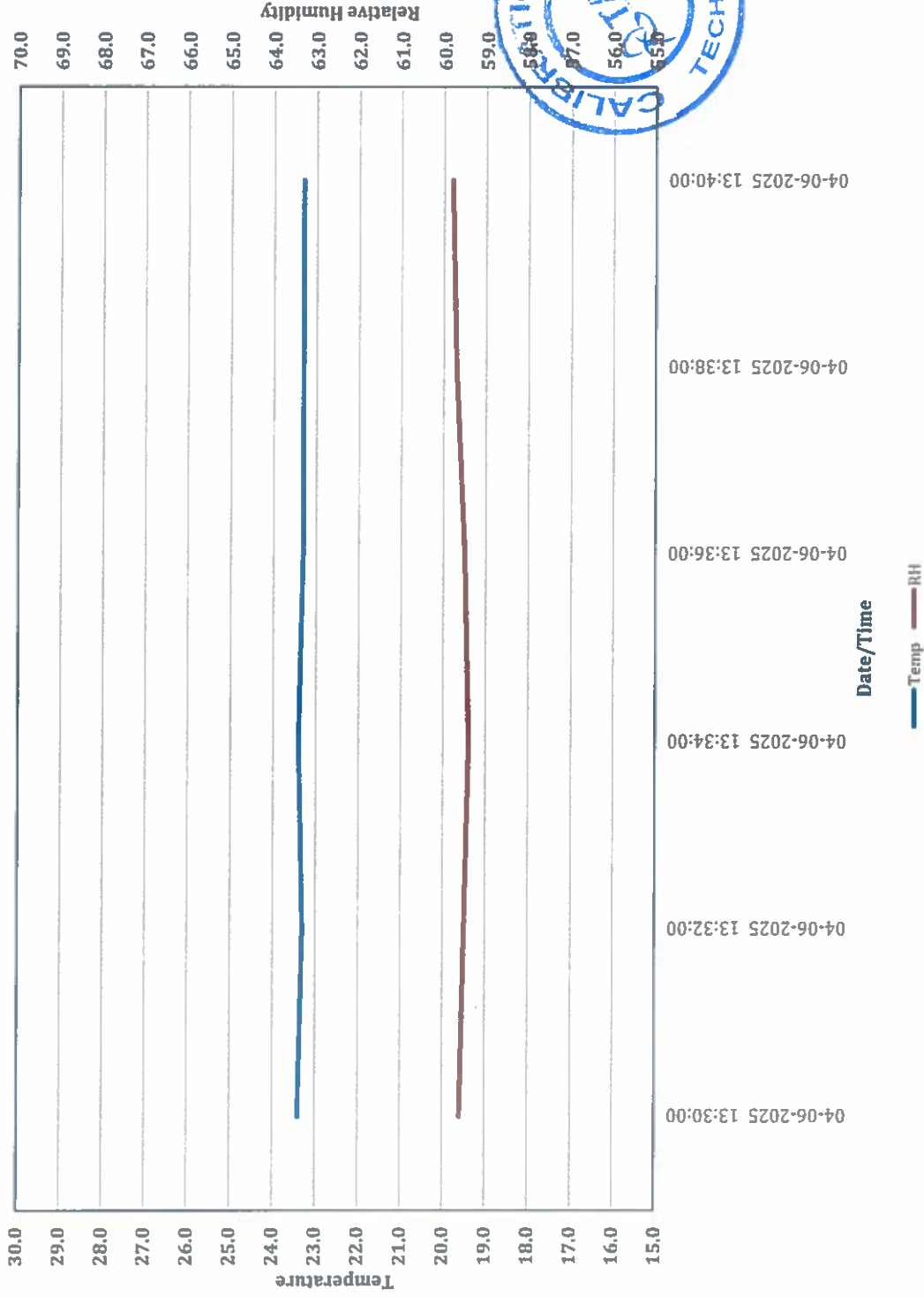
1. TZ0322040180



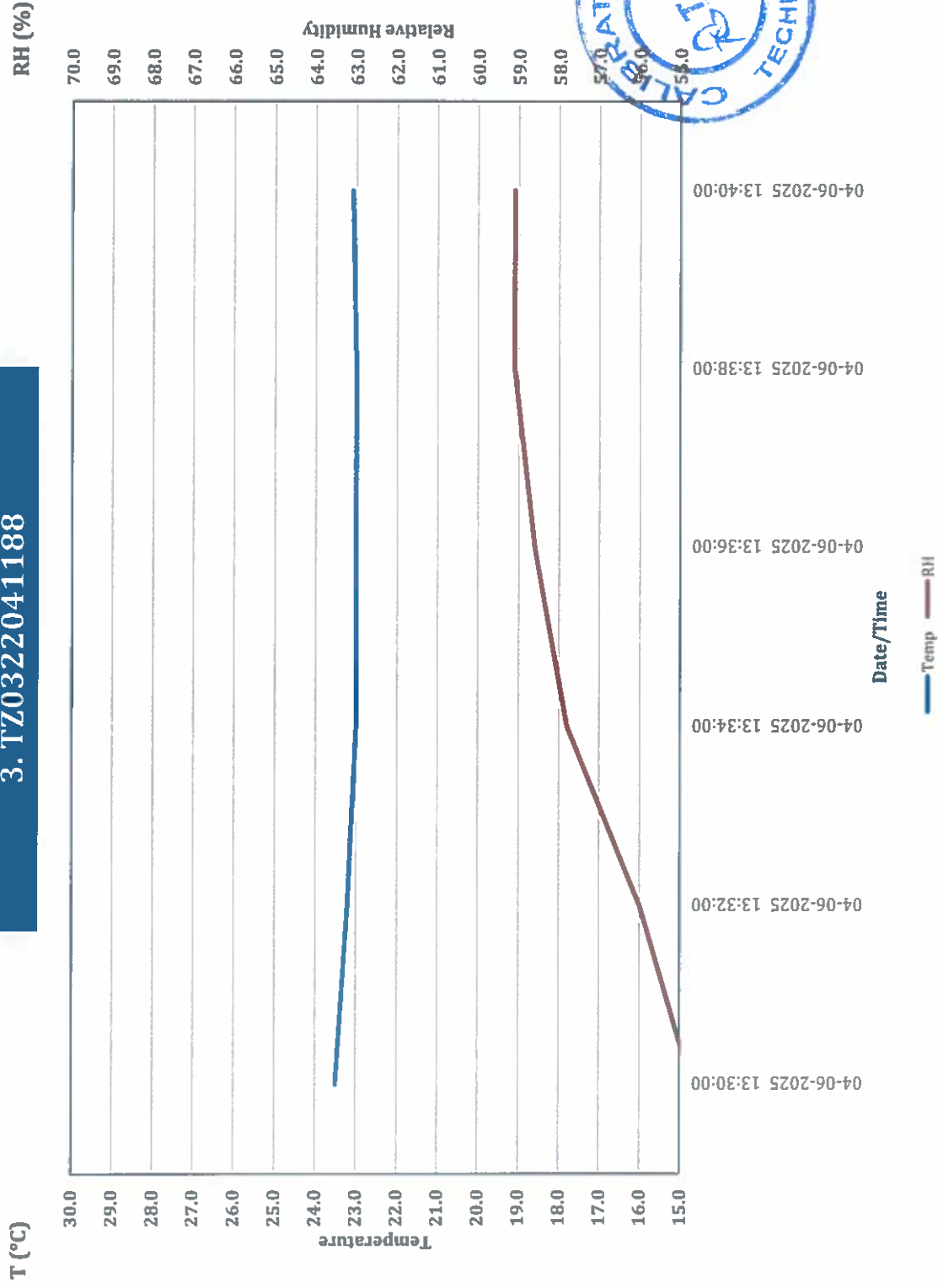
T (°C)

2. TZ0322041196

RH (%)



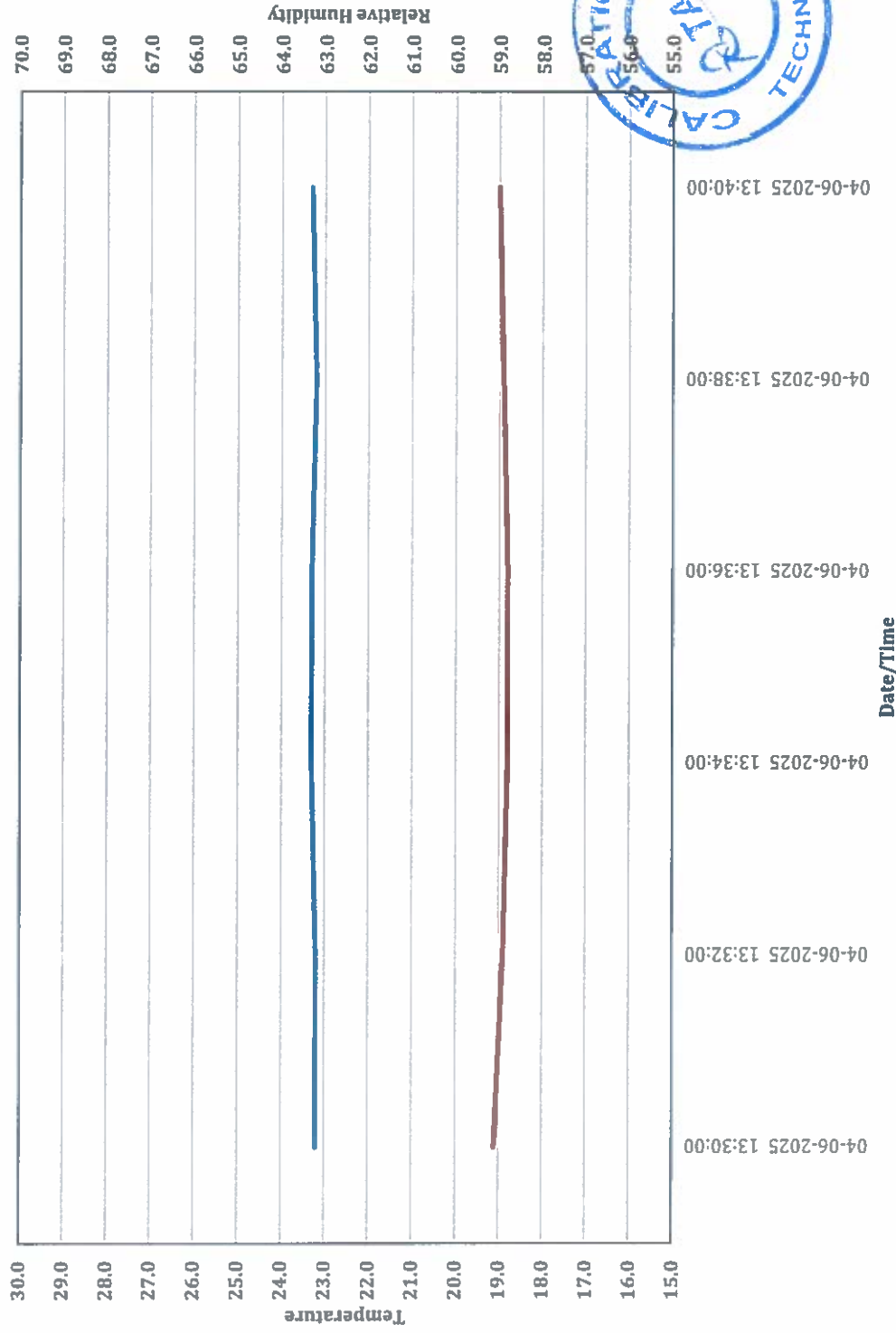
3. TZ0322041188



4. TZ0322040169

T (°C)

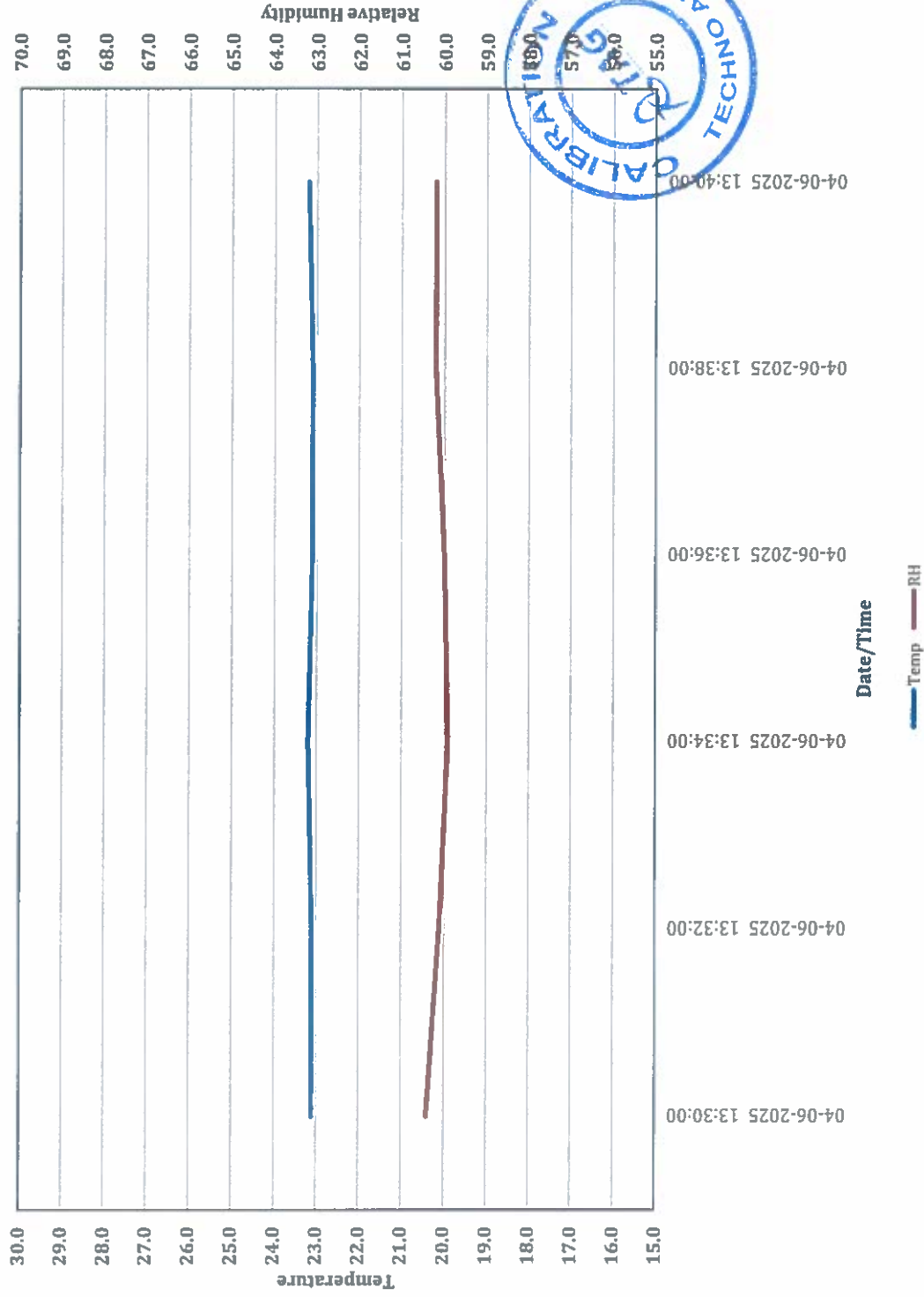
RH (%)



T (°C)

5. TZ0322041001

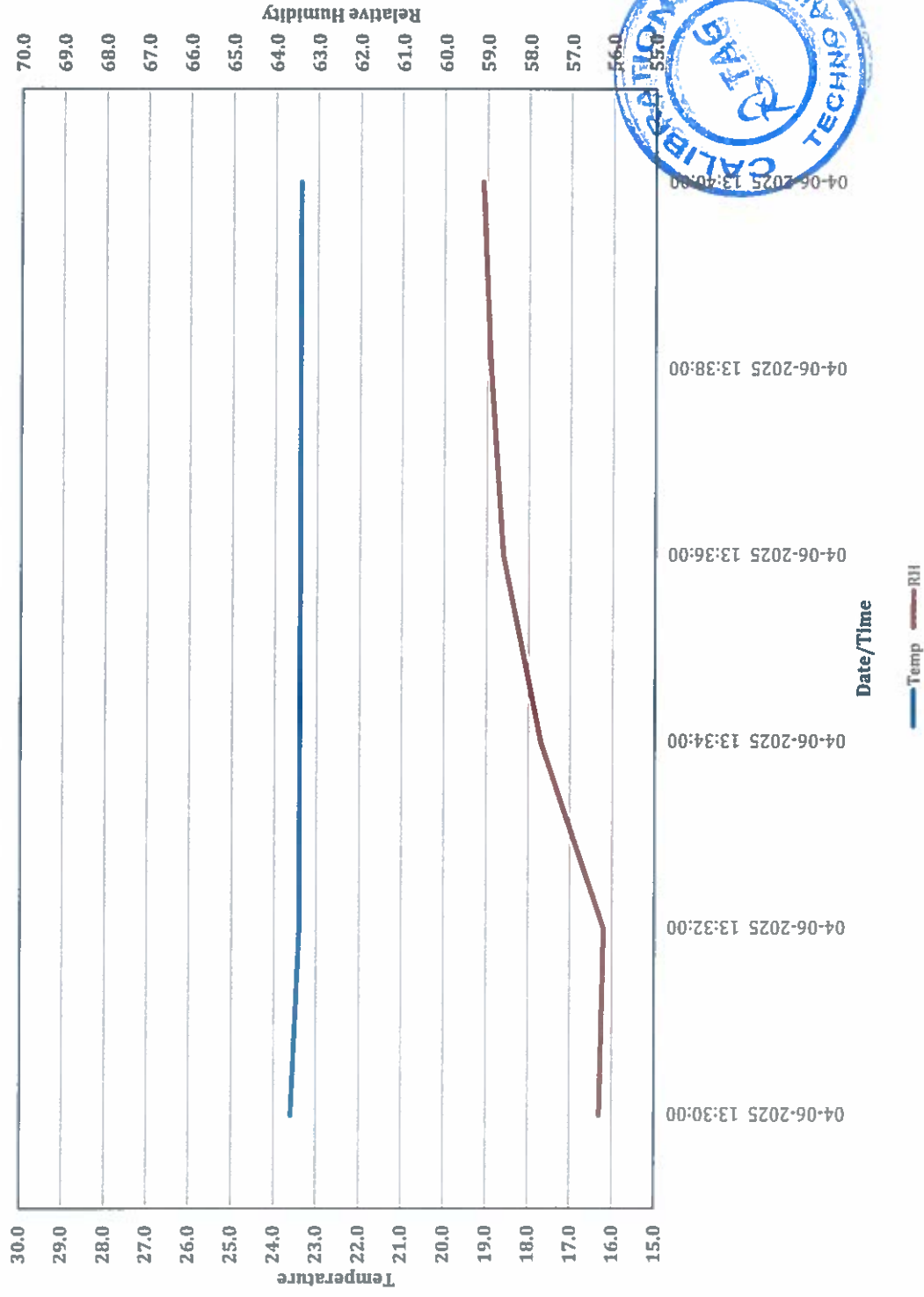
RH (%)



T (°C)

6. TZ0322040129

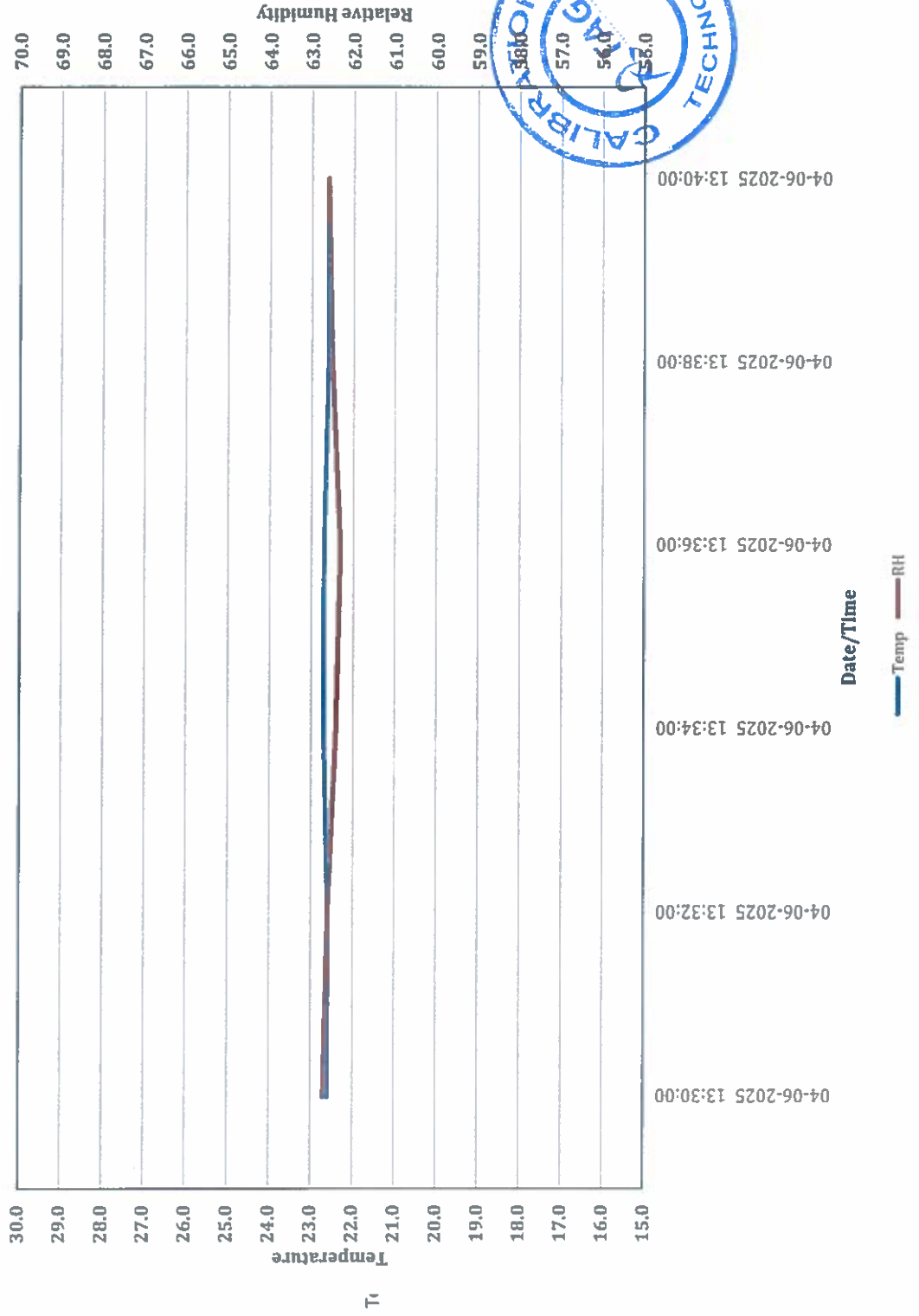
RH (%)



T (°C)

7. TZ0322041071

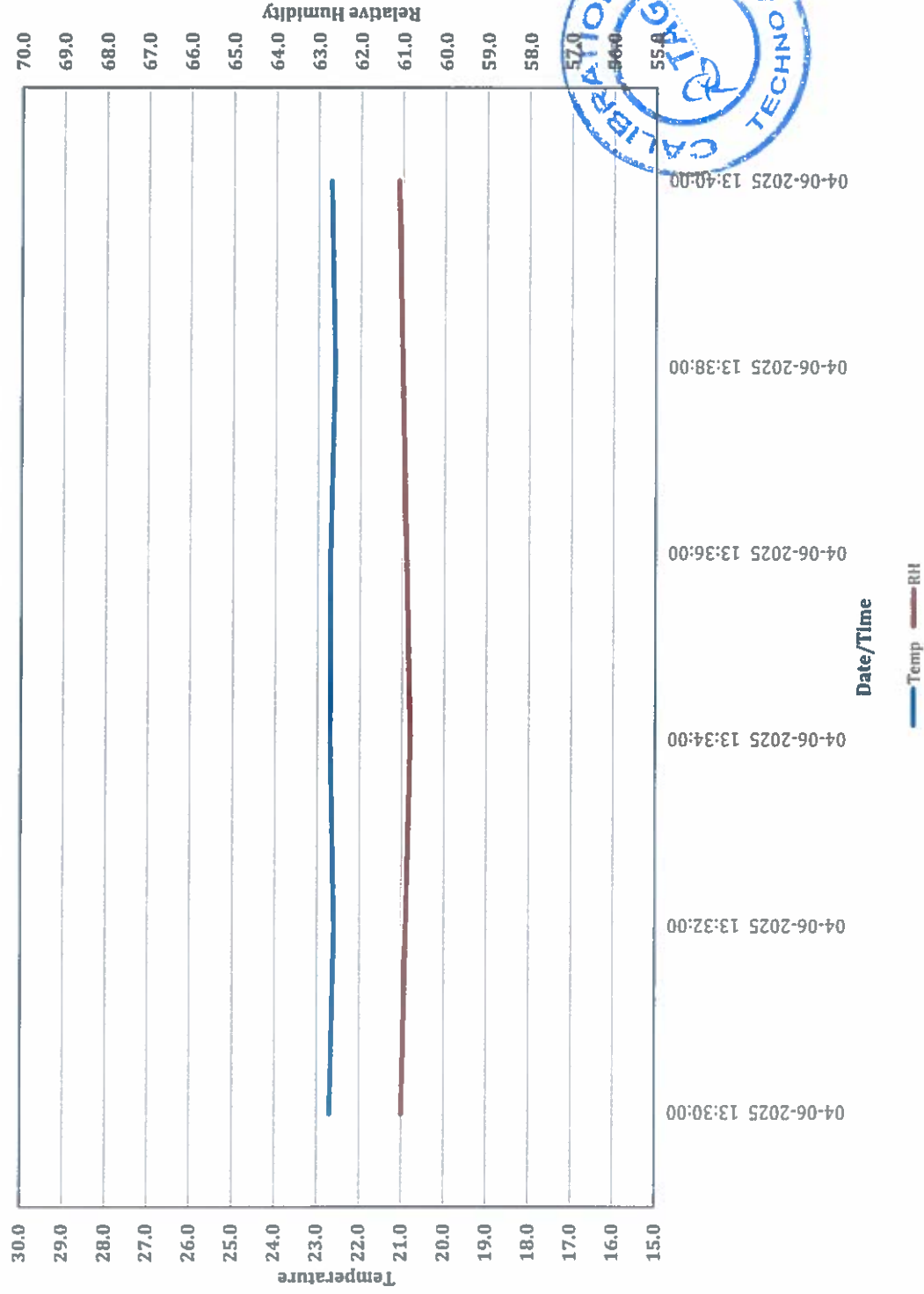
RH (%)



8. TZ0322040149

T (°C)

RH (%)



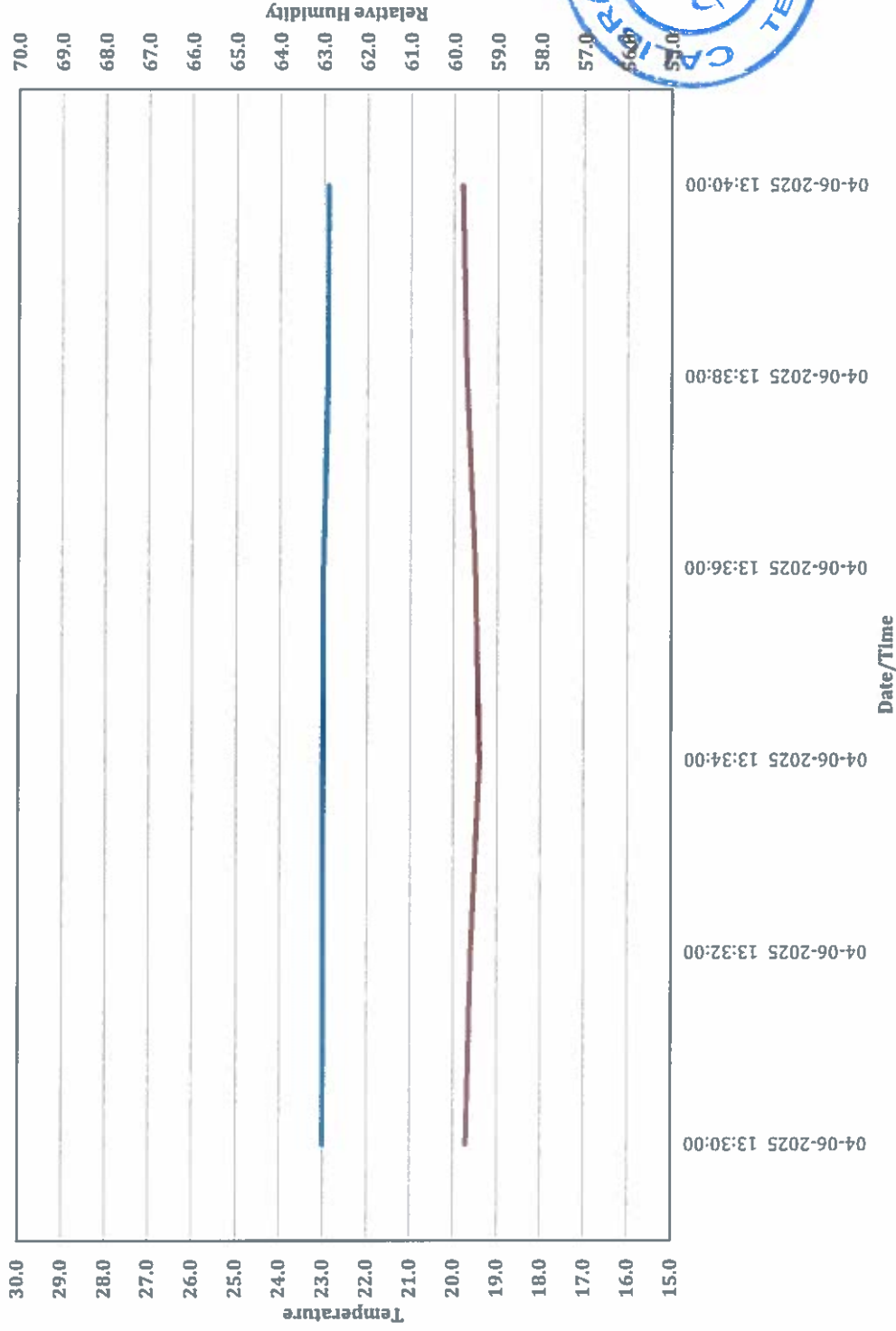
Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period	5 min (Door Opening)
Start Date/Time	04-06-2025 13:33:00
Stop Date/Time	04-06-2025 13:38:00

9. TZ0323114418

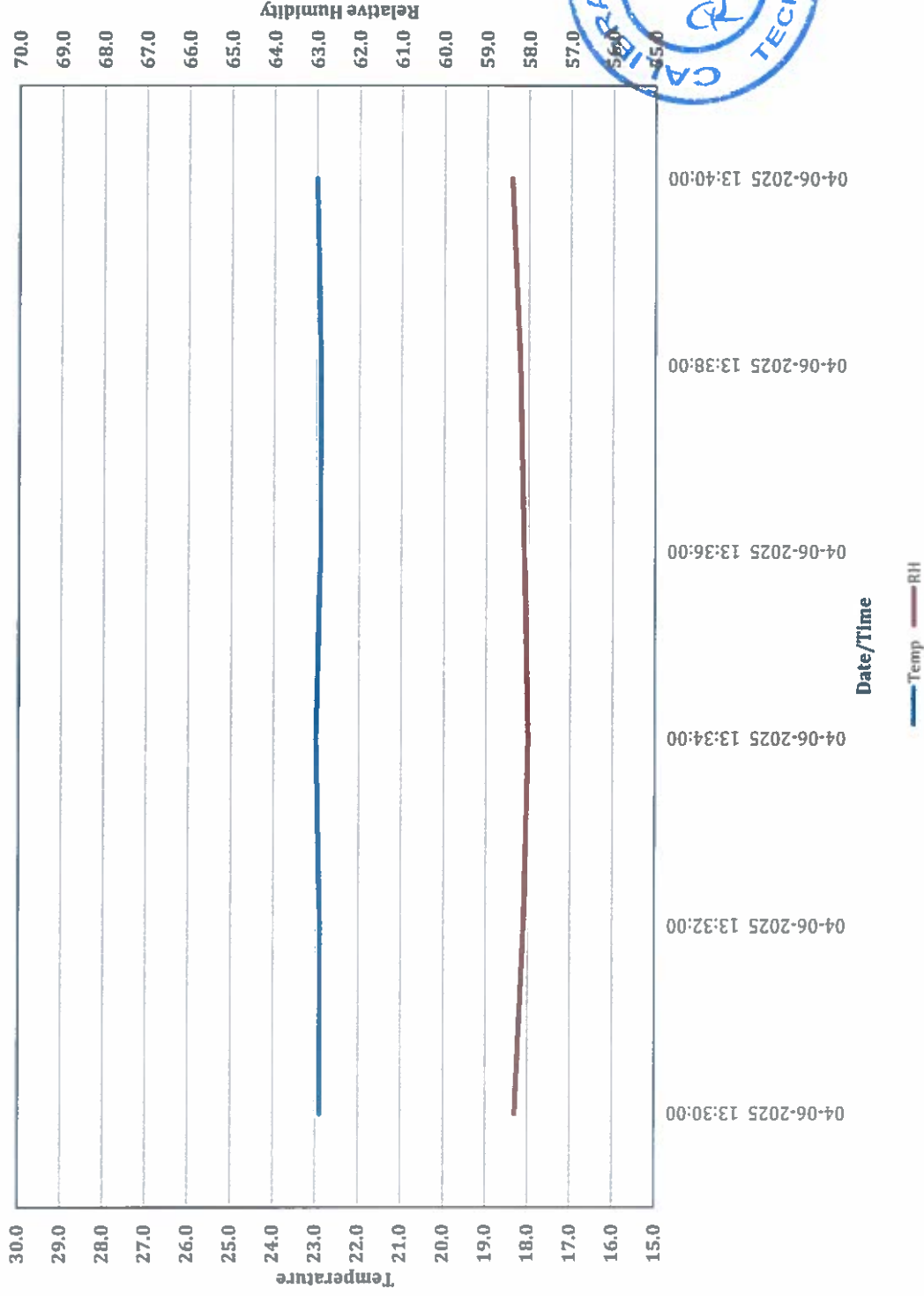
RH (%)



10. TZ0323114544

T (°C)

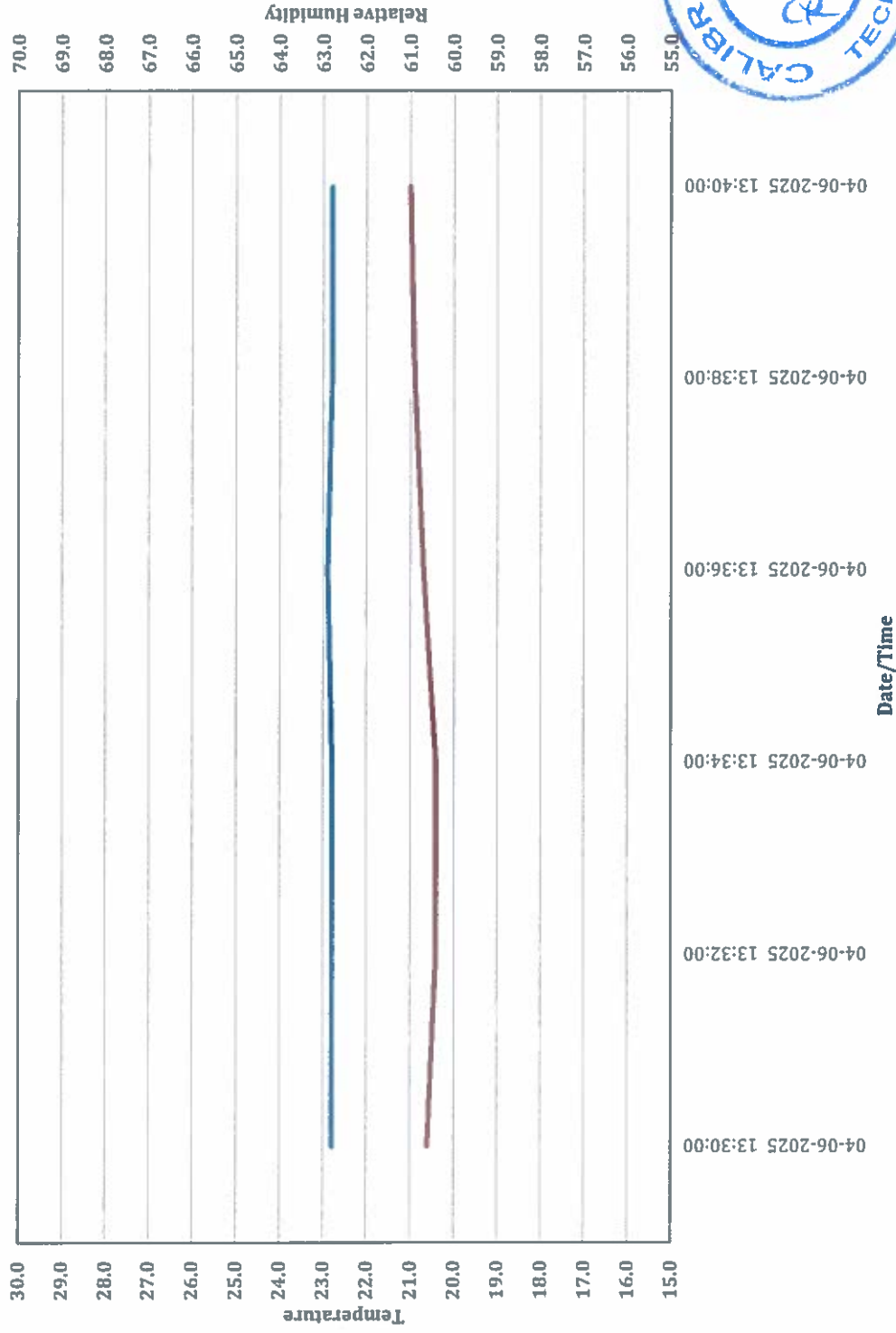
RH (%)



11. TZ0322040121

T (°C)

RH (%)



Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 5 min (Door Opening)

Start Date/Time 04-06-2025 13:33:00

Stop Date/Time 04-06-2025 13:38:00

12. TZ0323114578

T (°C)

30.0

29.0

28.0

27.0

26.0

25.0

24.0

23.0

22.0

21.0

20.0

19.0

18.0

17.0

16.0

15.0

Temperature

RH (%)

70.0

69.0

68.0

67.0

66.0

65.0

64.0

63.0

62.0

61.0

60.0

59.0

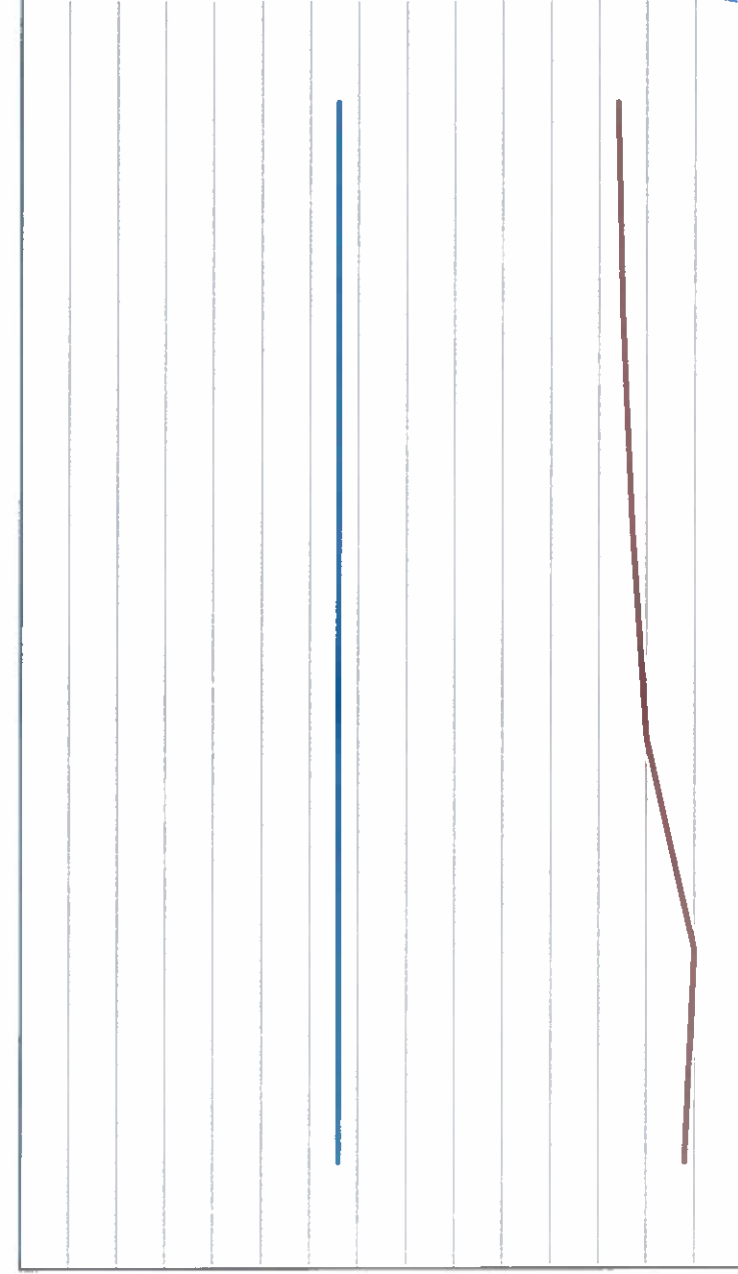
58.0

57.0

56.0

55.0

Relative Humidity



Date/Time

Temp RH



Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period

5 min (Door Opening)

Start Date/Time

04-06-2025 13:33:00

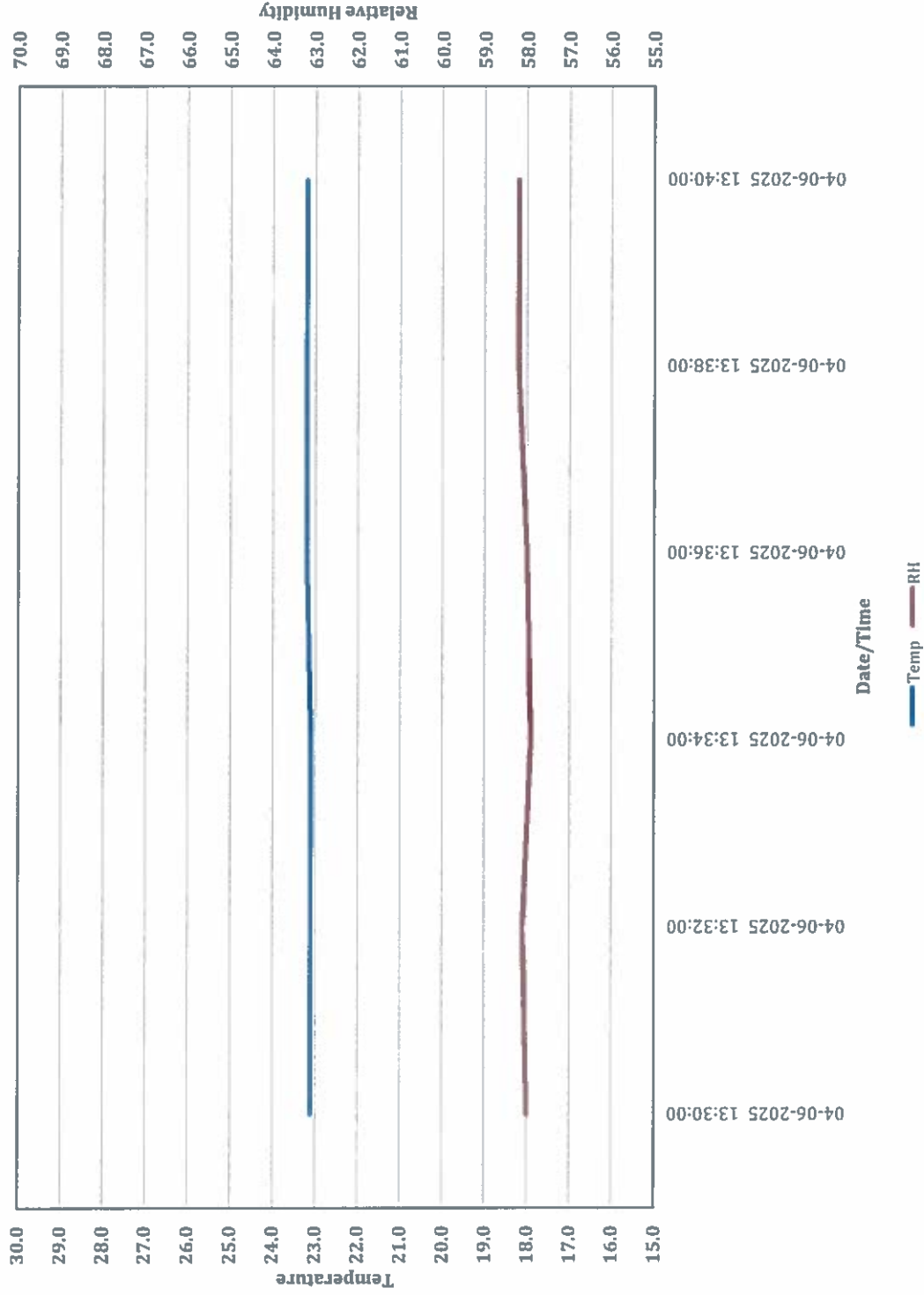
Stop Date/Time

04-06-2025 13:38:00

13. TZ0323114516

T (°C)

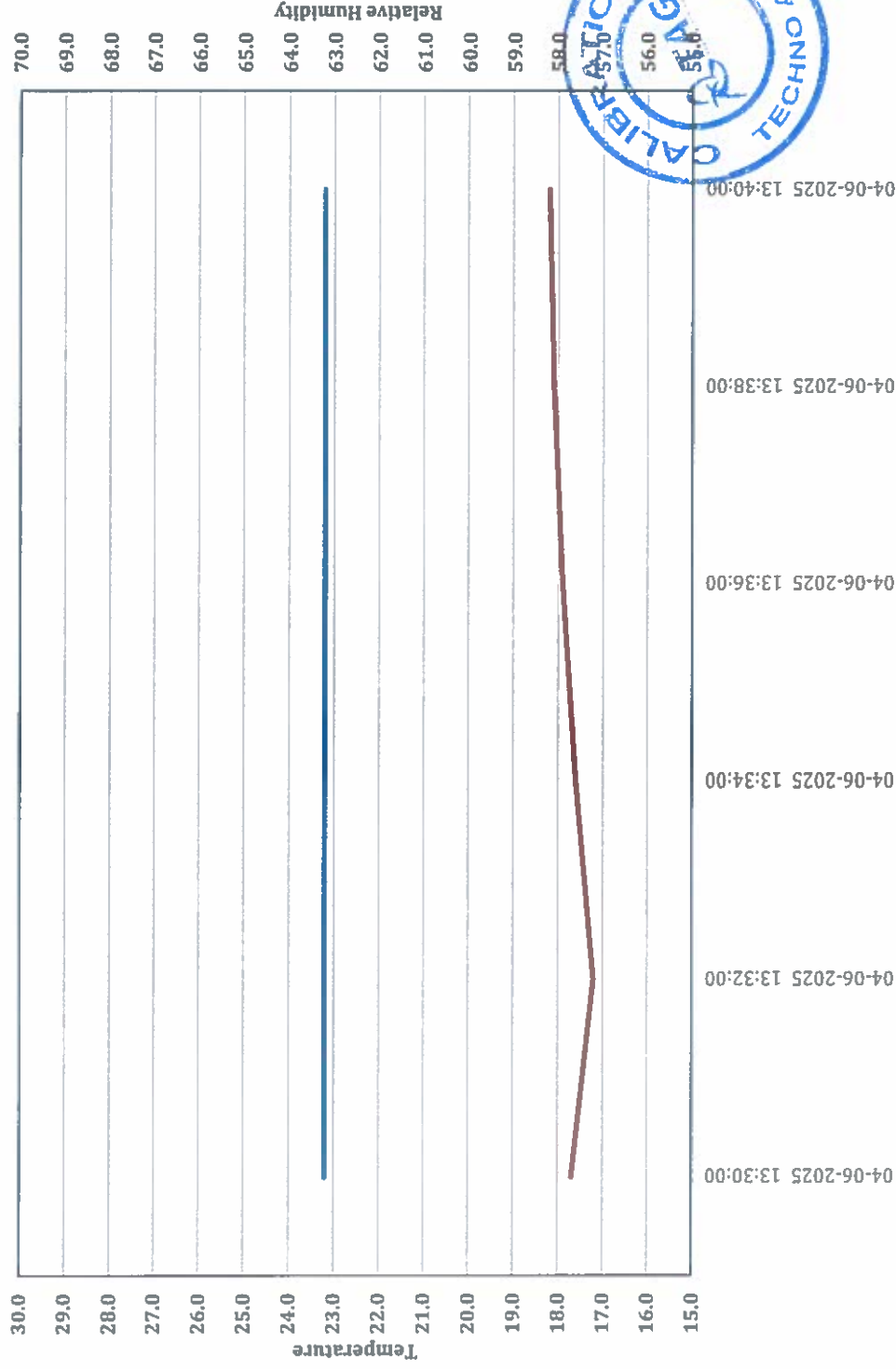
RH (%)



14. TZ0323114412

RH (%)

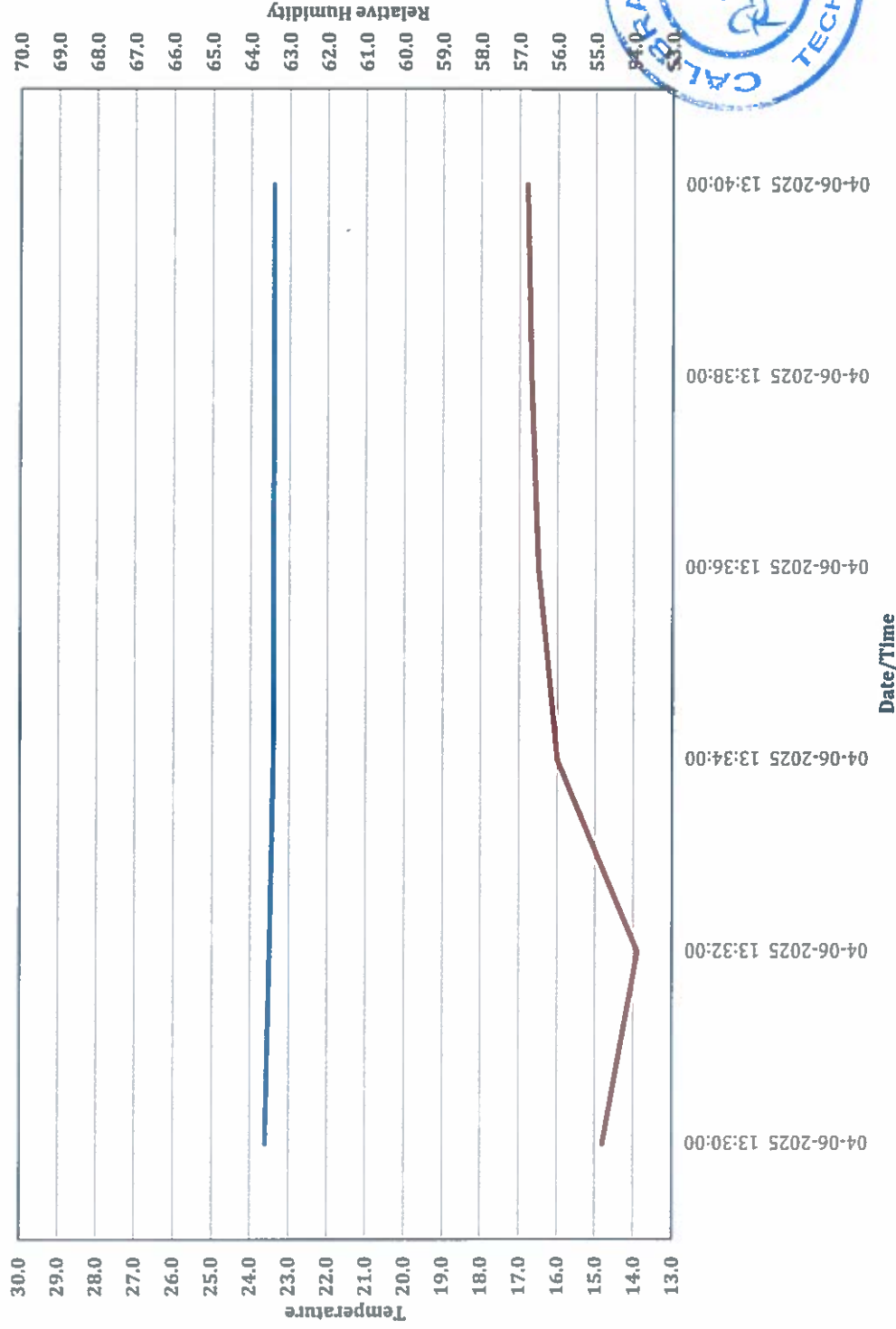
T (°C)



15. TZ0323114431

T (°C)

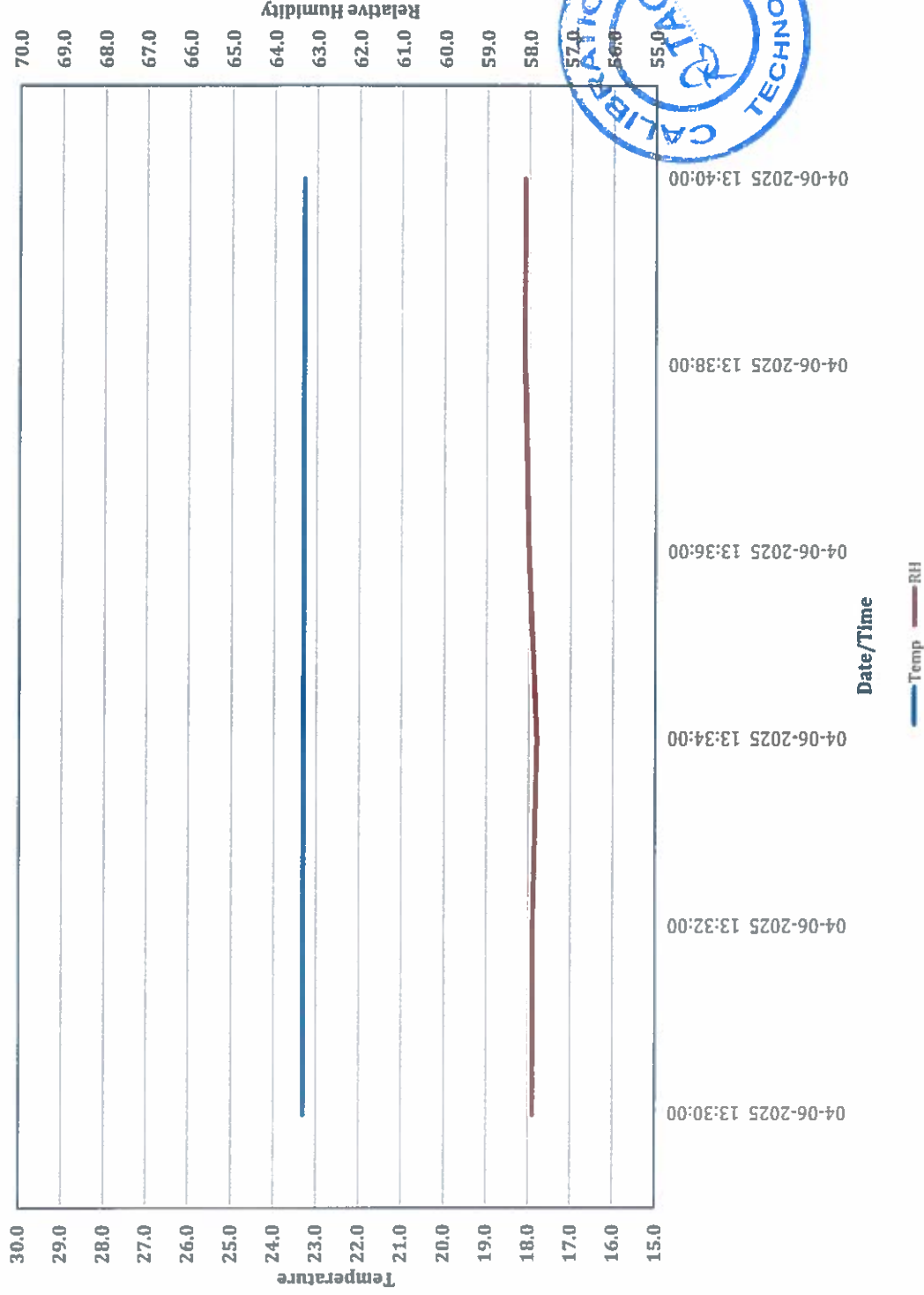
RH (%)



16. TZ0323114577

T (°C)

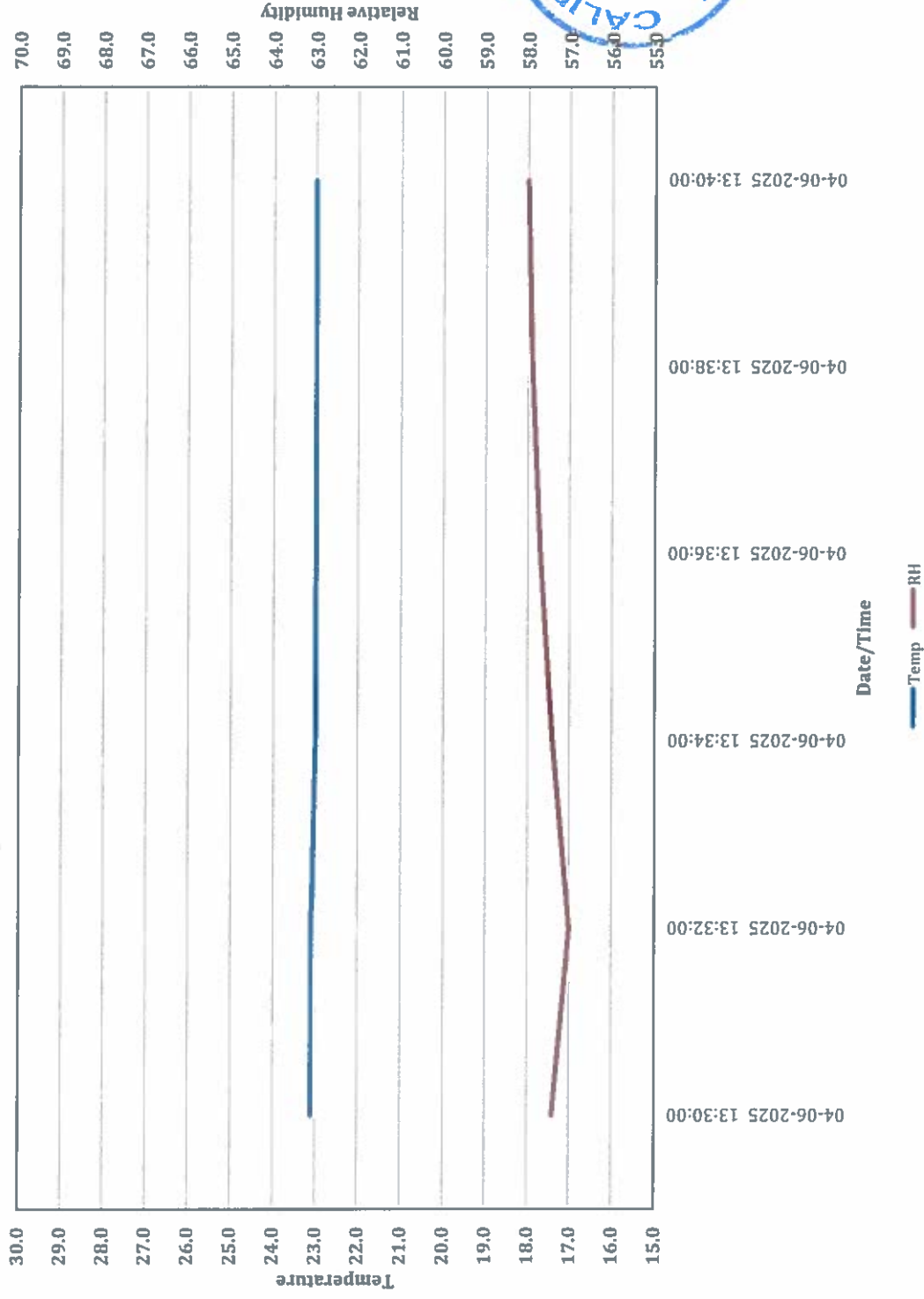
RH (%)



T (°C)

17. TZ0323114565

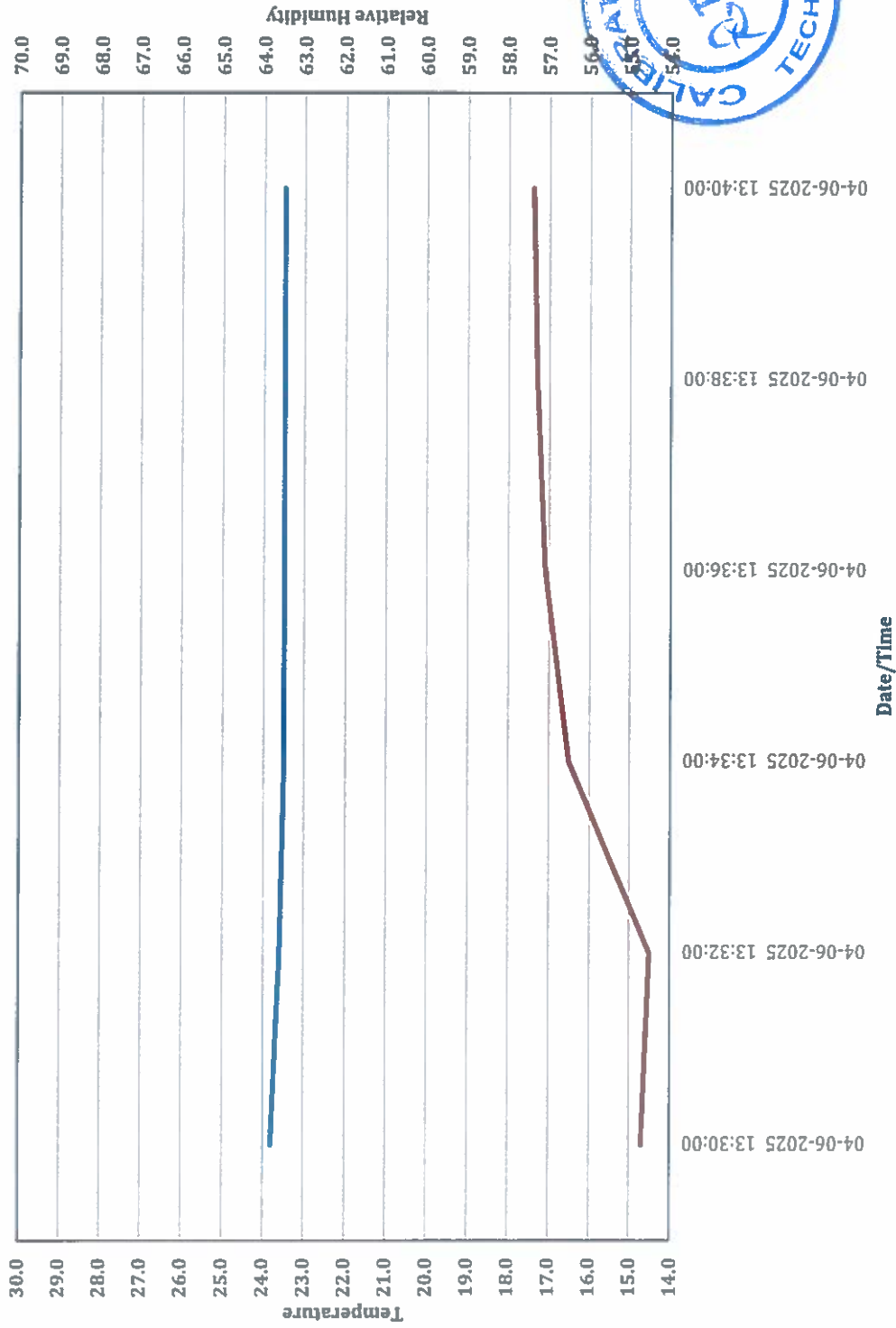
RH (%)



T (°C)

18. TZ0323114540

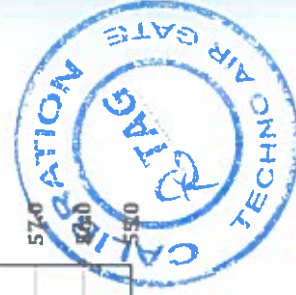
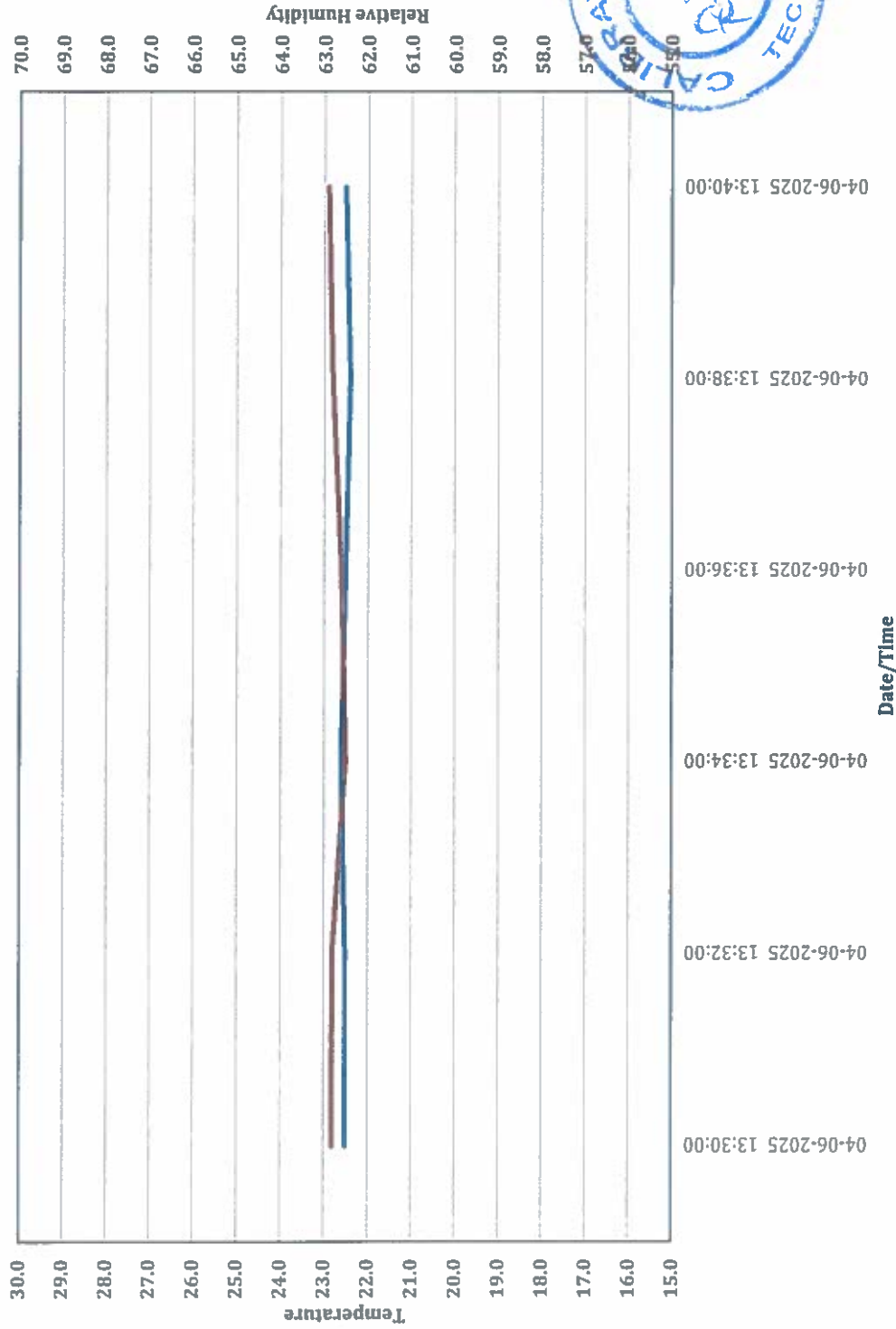
RH (%)



19. TZ0322041093

T (°C)

RH (%)



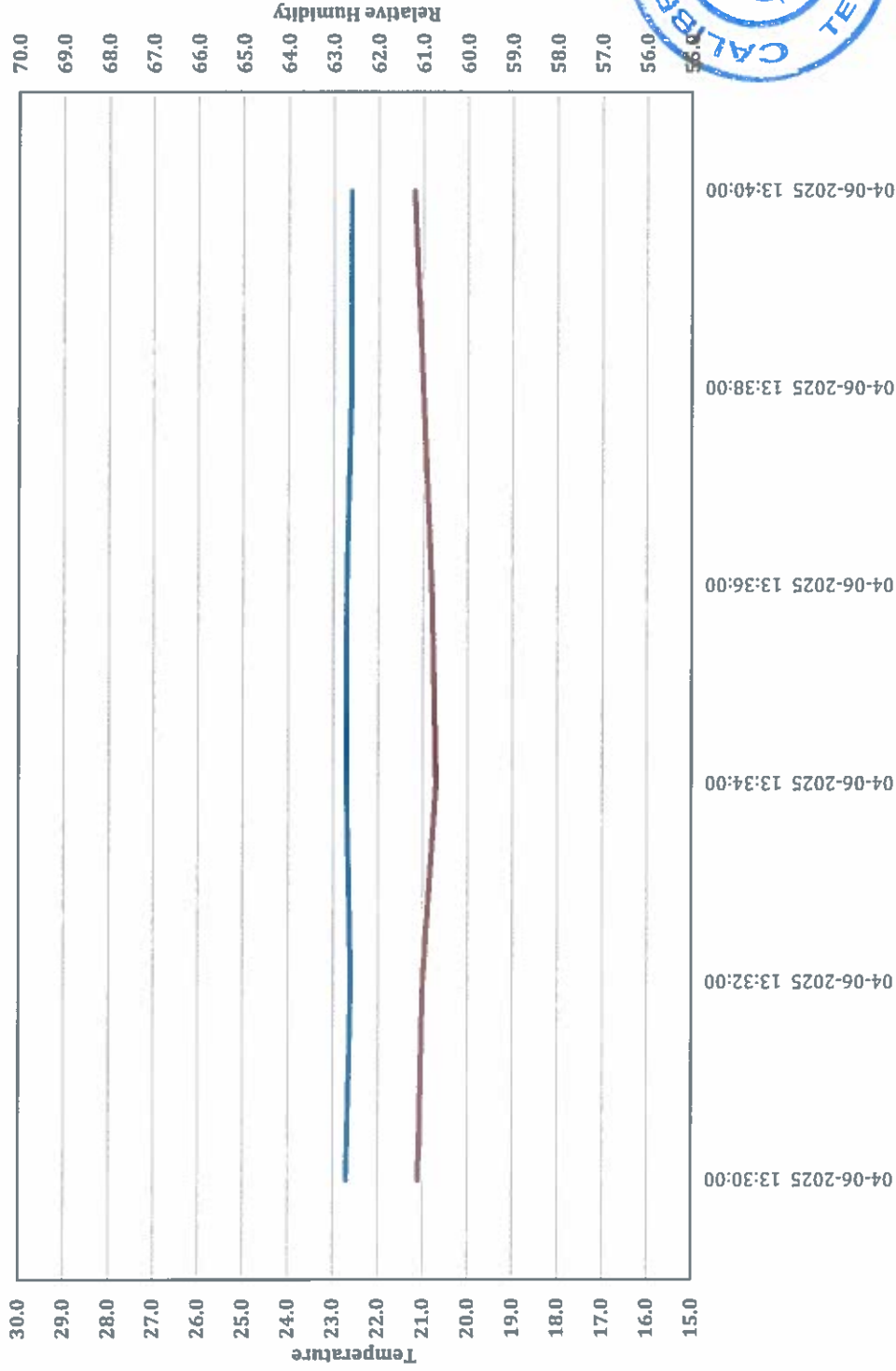
Temp RH

Date/Time

T (°C)

20. TZ0323114535

RH (%)

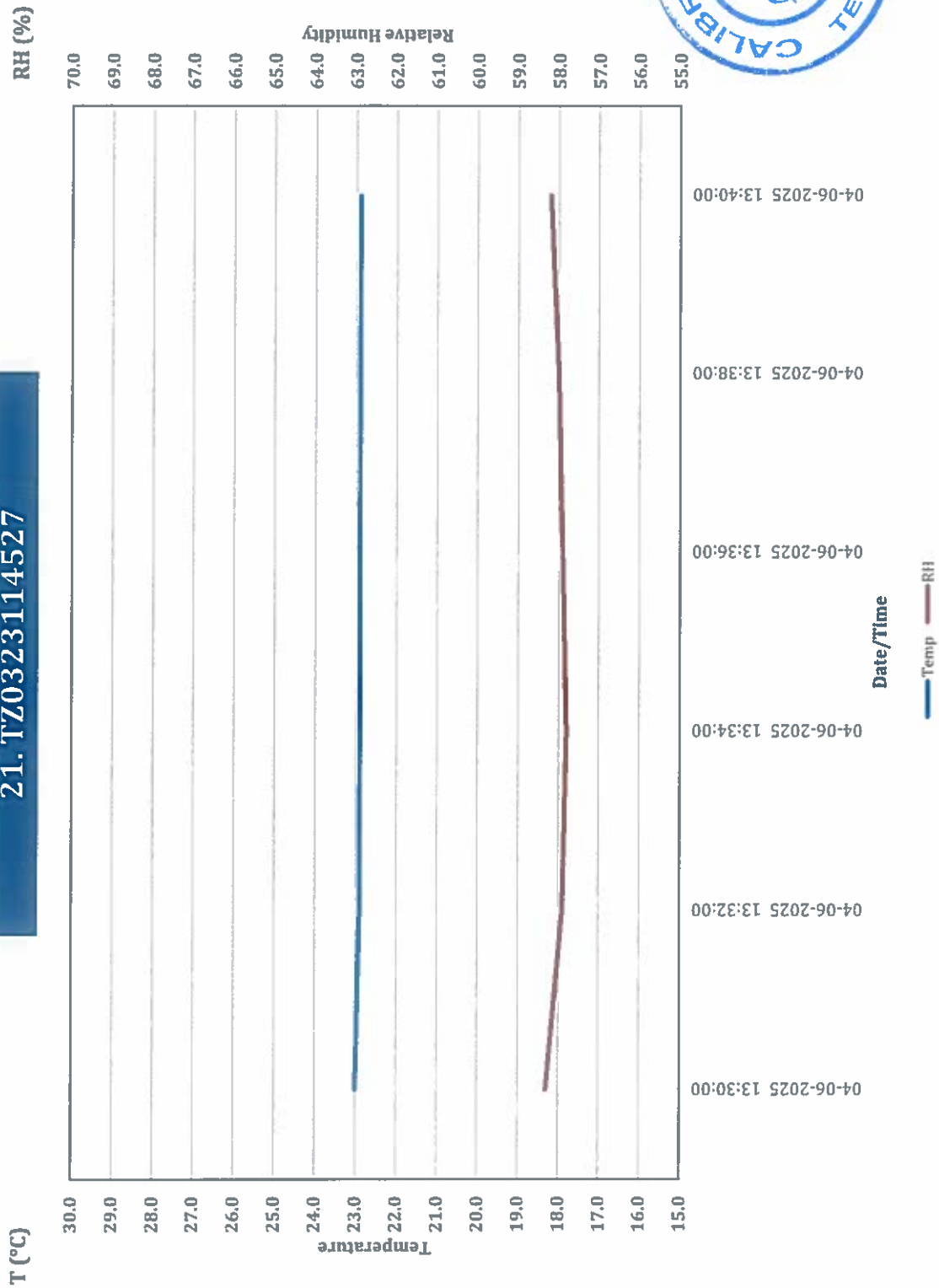


Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period	5 min (Door Opening)
Start Date/Time	04-06-2025 13:33:00
Stop Date/Time	04-06-2025 13:38:00

21. TZ0323114527



Retained Sample Room for Raw Material (LB-025)

Doc. No.: PQR-M-00625

Sampling Period 5 min (Door Opening)

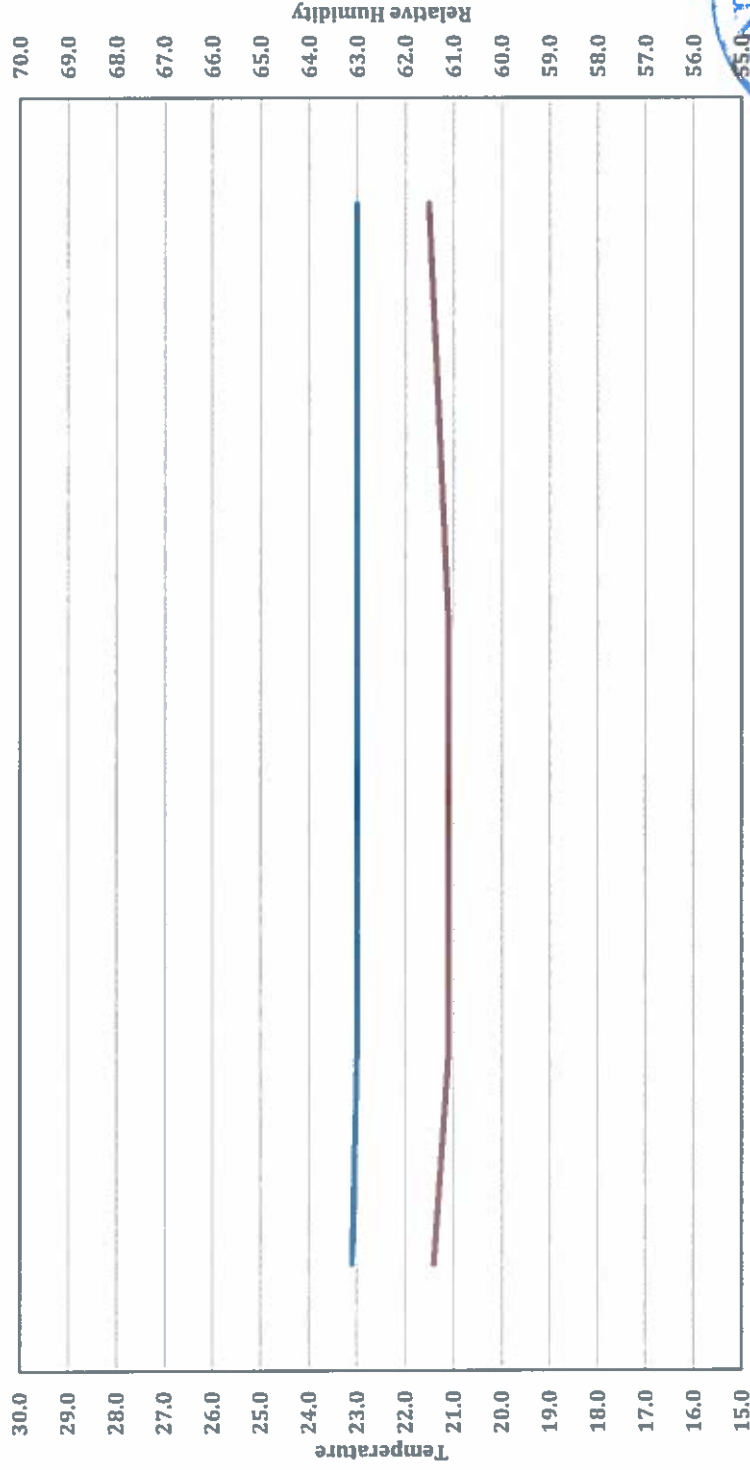
Start Date/Time 04-06-2025 13:33:00

Stop Date/Time 04-06-2025 13:38:00

T (°C)

22. TZ0322040131

RH (%)



04-06-2025 13:30:00 04-06-2025 13:32:00 04-06-2025 13:34:00 04-06-2025 13:36:00 04-06-2025 13:38:00 04-06-2025 13:40:00

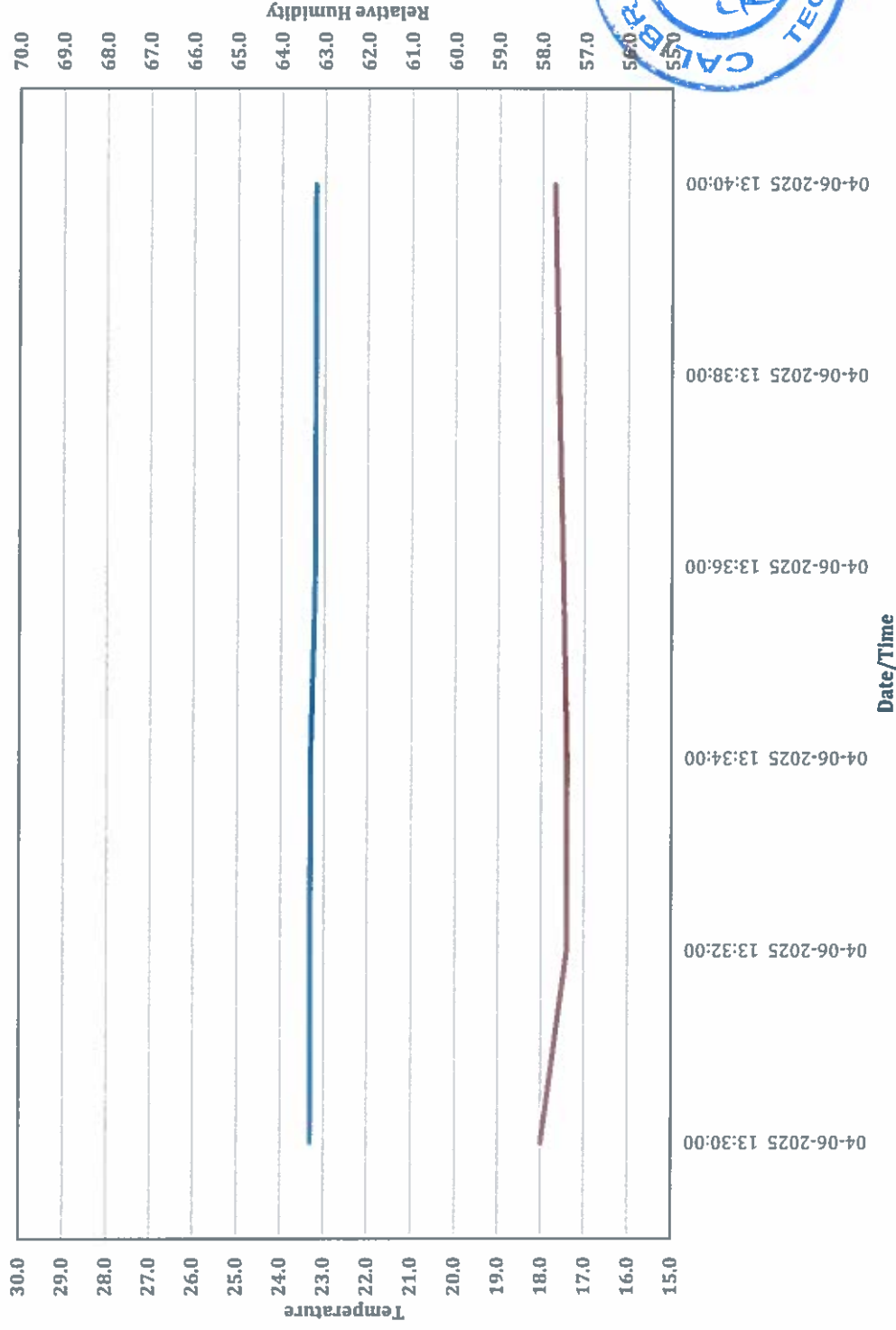
Date/Time

— Temp — RH

T (°C)

23. TZ0323114407

RH (%)

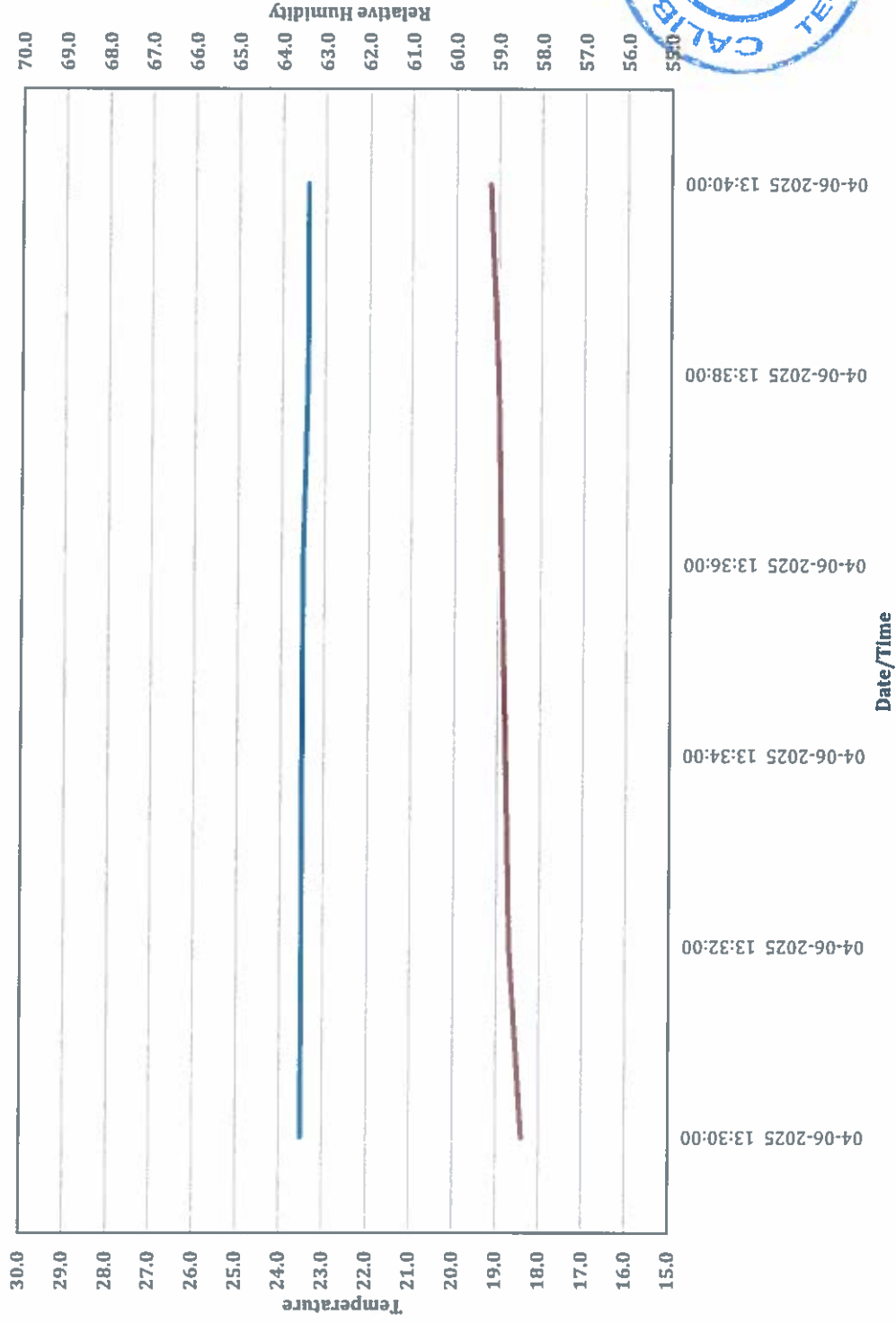


— Temp — RH

T (°C)

24. TZ0322040102

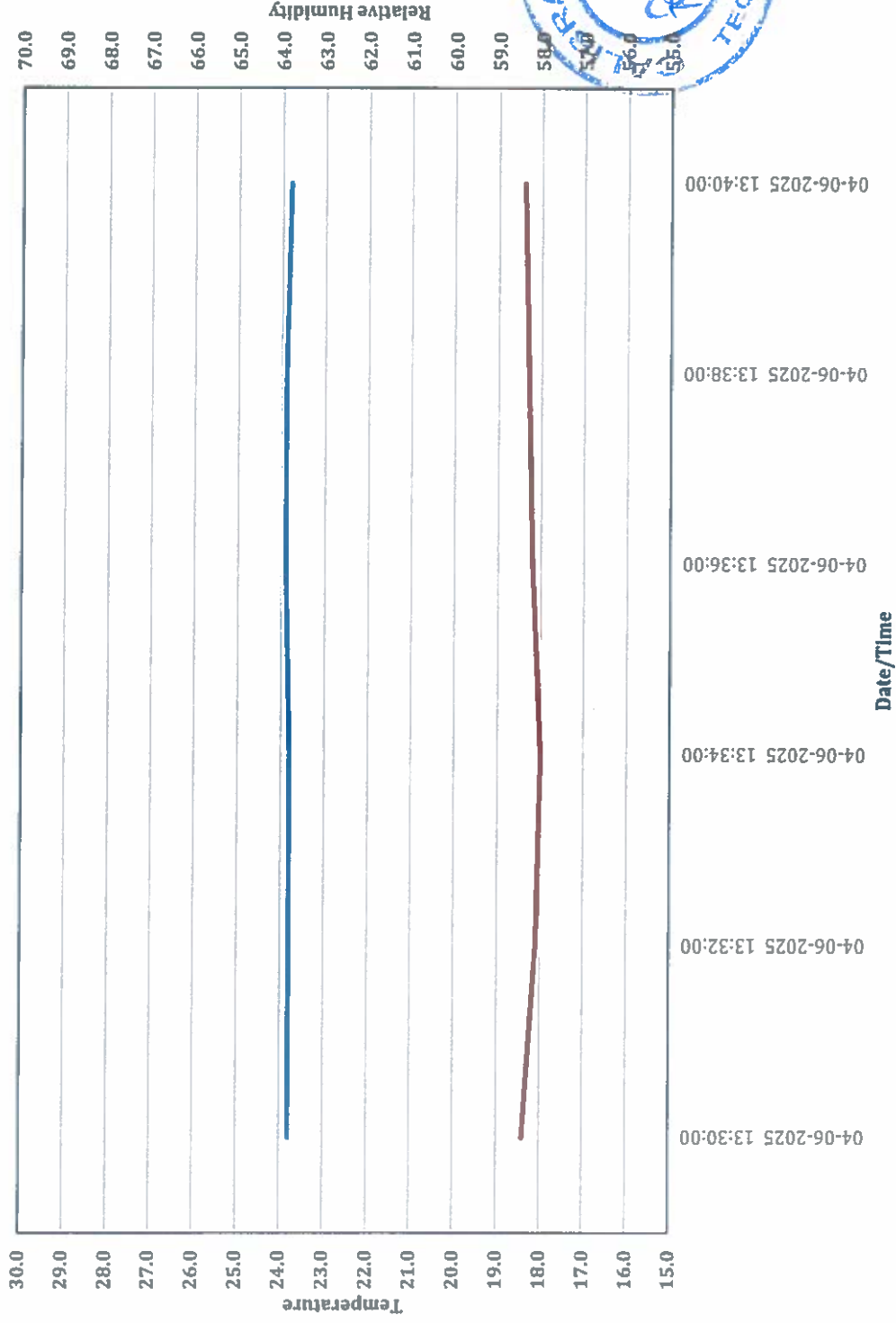
RH (%)



T (°C)

25. TZ0322040199

RH (%)

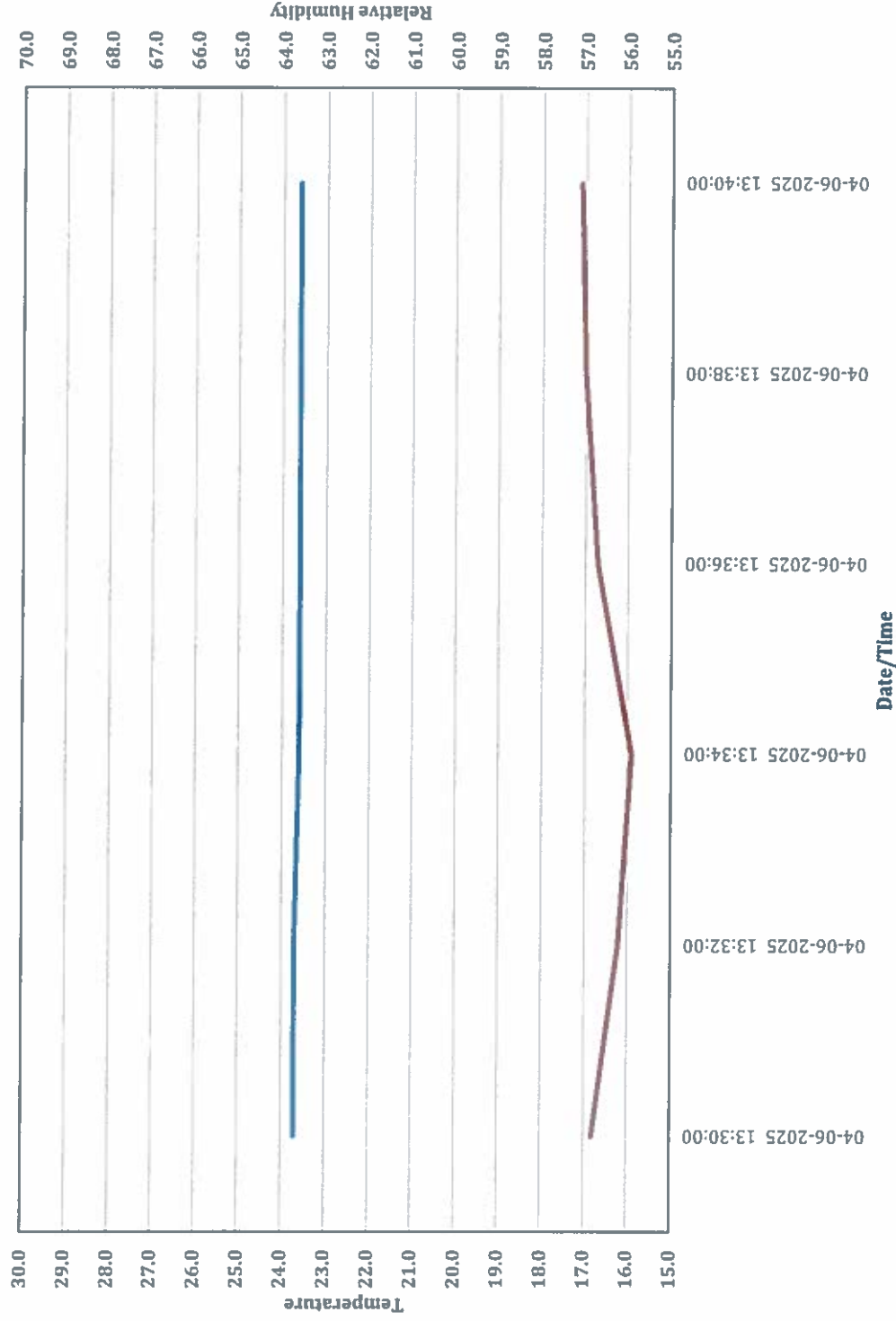


— Temp — RH

T (°C)

26. TZ0323114503

RH (%)

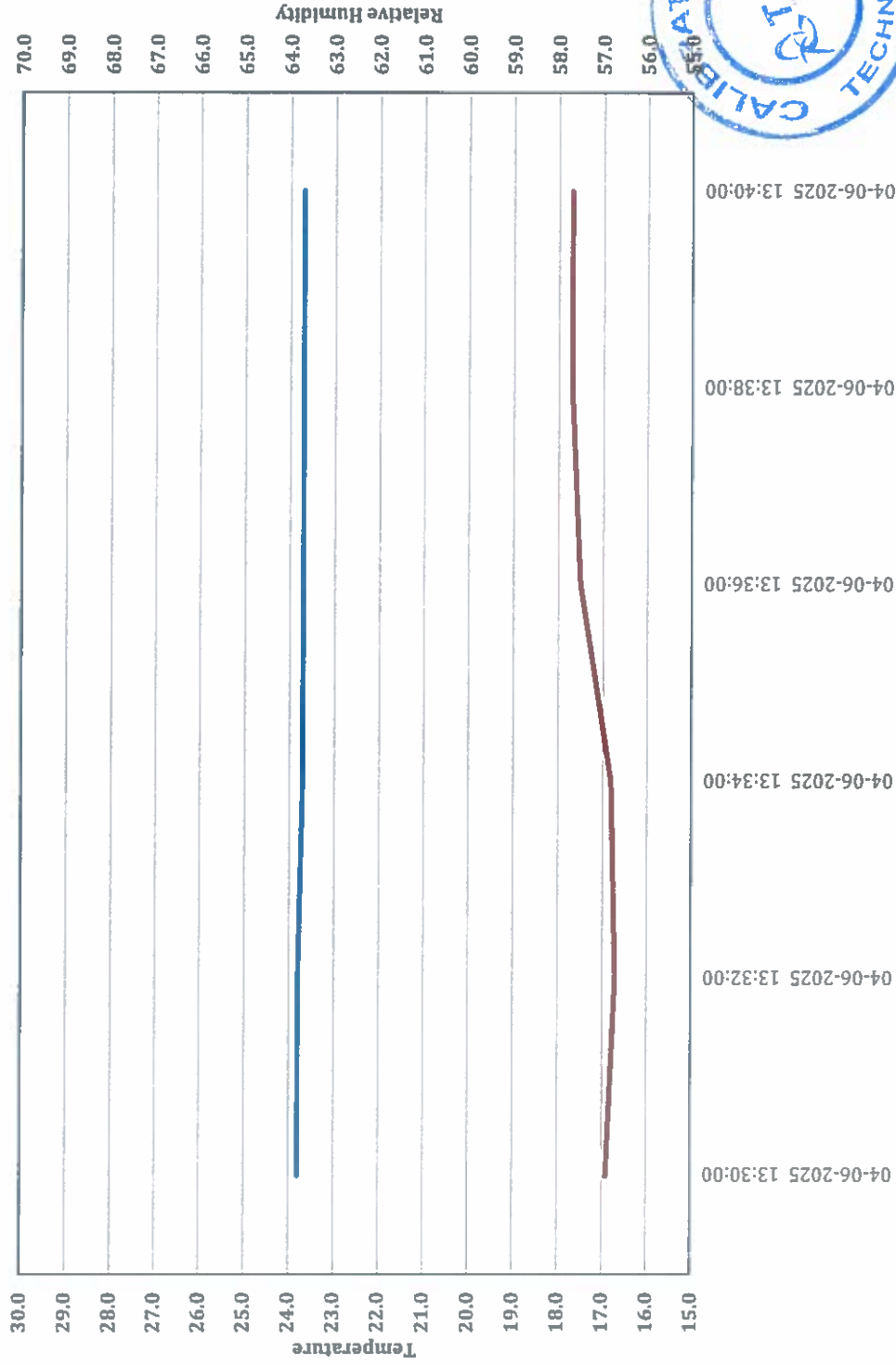


Temp RH

T (°C)

27. TZ03222040111

RH (%)

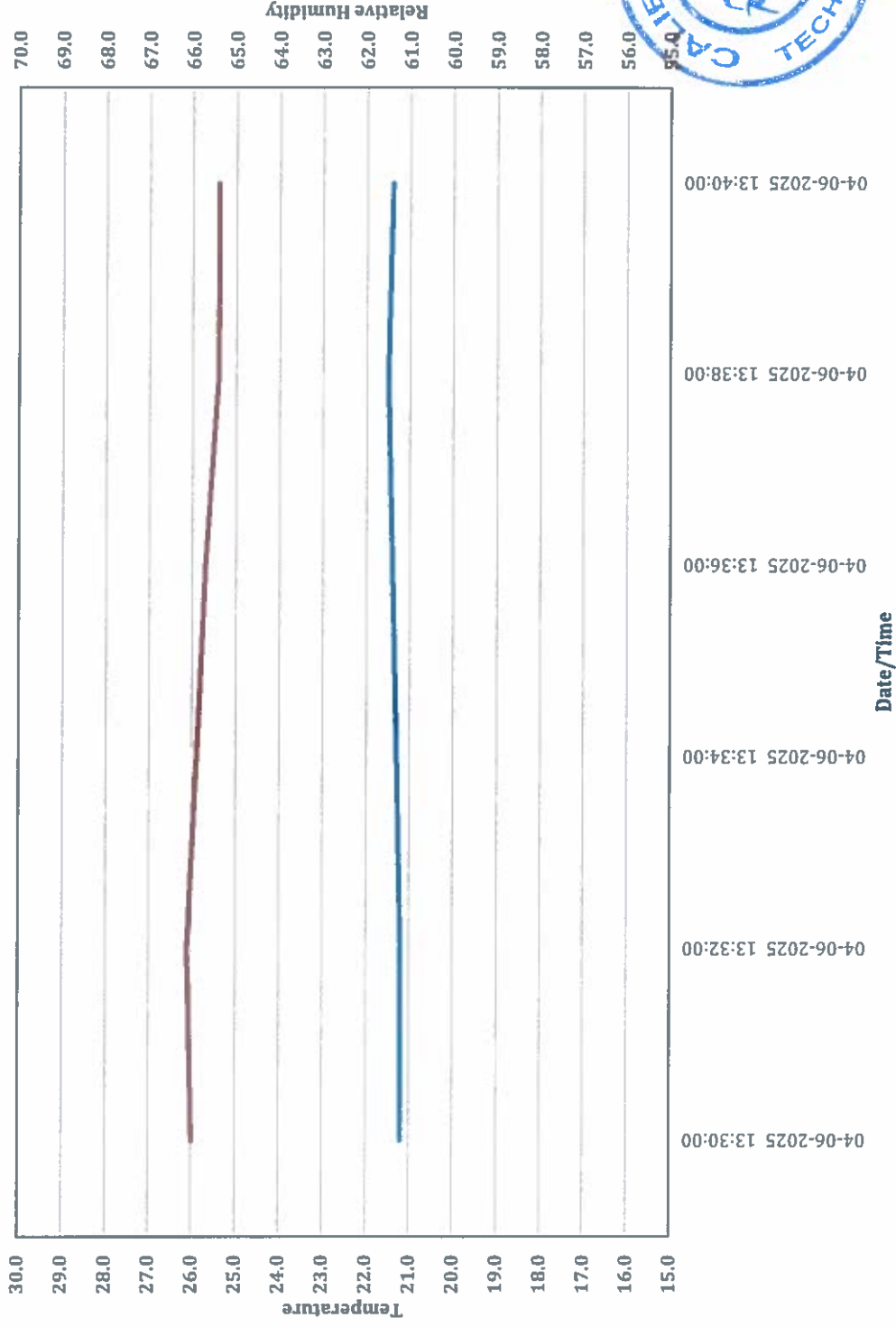


— Temp — RH

T (°C)

28. TZ0322040878 (Ambient)

RH (%)



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.04

Raw Data (on CD)



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

ATTACHMENTS 01.02.01.05

Inspection Label



Issue No.: 01.0
Issue Date: 01 Oct. 2024

Blue Inspection Label

Doc. No: F-7.2/02



Inspection	
	ID Retained Sample Room (LB-025)
	Date Jun., 2025
	Due Jun., 2026
Inspected by <i>A. Attie</i>	

VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

ATTACHMENTS 01.02.01.06

Reference Equipment Calibration Certificates



CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 118 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040102
Code:	TZ0322040102	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Disclaimer:

This Certificate is only related to the unit under Calibration during the Calibration period.

Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

F-7.8/09

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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+201023310802

+20233034440



Ver. No.: 01

Page 1 of 2

CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 118 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.0	0.0	0.19	Pass
25.00	25.2	-0.2	0.19	Pass
40.00	40.0	0.0	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	60.0	0.0	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	22.9	2.1	1.7	Pass
45.00	42.6	2.4	1.7	Pass
60.00	60.1	-0.1	1.7	Pass
75.00	73.7	1.3	1.7	Pass
85.00	82.0	3.0	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.2 °C
Acceptance Criteria:	$\pm$ 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	3.0 %RH
Acceptance Criteria:	$\pm$ 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 009 - 001 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040878
Code:	TZ0322040878	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Disclaimer:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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Ver. No.: 01

Page 1 of 2



CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 001 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.9	0.1	0.19	Pass
25.00	24.5	0.5	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	27.7	-2.7	1.7	Pass
45.00	45.6	-0.6	1.7	Pass
60.00	61.9	-1.9	1.7	Pass
75.00	76.4	-1.4	1.7	Pass
85.00	82.7	2.3	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	2.7 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem H. Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



F-7.8/09

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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 062 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040111
Code:	TZ0322040111	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Disclaimer:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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Ver. No.: 01

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 062 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.9	0.1	0.19	Pass
25.00	25.3	-0.3	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.6	-0.6	1.7	Pass
45.00	46.0	-1.0	1.7	Pass
60.00	59.6	0.4	1.7	Pass
75.00	74.6	0.4	1.7	Pass
85.00	84.7	0.3	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Calibration Results %RH	
Max. Reading Error:	1.0 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 066 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040121
Code:	TZ0322040121	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 066 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.9	0.1	0.19	Pass
25.00	25.2	-0.2	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	28.1	-3.1	1.7	Pass
45.00	46.6	-1.6	1.7	Pass
60.00	60.4	-0.4	1.7	Pass
75.00	75.5	-0.5	1.7	Pass
85.00	85.4	-0.4	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.2 °C
Acceptance Criteria:	$\pm$ 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	3.1 %RH
Acceptance Criteria:	$\pm$ 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Noha Essam
Senior Technical Office Specialist
Noha Essam
16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 126 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040129
Code:	TZ0322040129	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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Head Quarter: 16 Al Israa St., Lebanon Sq., Mohandseen, Giza, Egypt

October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

www.technoairgate.com

info@technoairgate.com

+201023310801

+201023310802

+20233034440

Ver. No.: 01

Page 1 of 2



CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 126 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.3	-0.3	0.19	Pass
25.00	24.5	0.5	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	59.8	0.2	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	27.7	-2.7	1.7	Pass
45.00	45.9	-0.9	1.7	Pass
60.00	61.9	-1.9	1.7	Pass
75.00	76.8	-1.8	1.7	Pass
85.00	83.1	1.9	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Calibration Results %RH	
Max. Reading Error:	2.7 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 071 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040131
Code:	TZ0322040131	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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+201023310801

+201023310802

+20233034440

Ver. No.: 01

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 071 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.9	0.1	0.19	Pass
25.00	24.7	0.3	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	59.7	0.3	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.4	-0.4	1.7	Pass
45.00	46.0	-1.0	1.7	Pass
60.00	60.8	-0.8	1.7	Pass
75.00	74.7	0.3	1.7	Pass
85.00	85.2	-0.2	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	1.0 %RH
Acceptance Criteria:	$\pm$ 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 079 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040149
Code:	TZ0322040149	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 079 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	25.4	-0.4	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	49.6	0.4	0.19	Pass
60.00	59.6	0.4	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	23.2	1.8	1.7	Pass
45.00	46.6	-1.6	1.7	Pass
60.00	59.3	0.7	1.7	Pass
75.00	76.2	-1.2	1.7	Pass
85.00	85.4	-0.4	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Calibration Results %RH	
Max. Reading Error:	1.8 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Acceptance Criteria is According to Customer Requirement.

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 085 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040169
Code:	TZ0322040169	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 085 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.0	0.0	0.19	Pass
35.00	24.6	0.4	0.19	Pass
40.00	39.9	0.1	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.8	-0.8	1.7	Pass
45.00	46.0	-1.0	1.7	Pass
60.00	60.7	-0.7	1.7	Pass
75.00	74.9	0.1	1.7	Pass
85.00	86.2	-1.2	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Calibration Results %RH	
Max. Reading Error:	1.2 %RH
Acceptance Criteria:	$\pm$ 5 %RH
Uncertainty:	$\pm$ 1.7 %RH
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 087 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040180
Code:	TZ0322040180	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 087 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction Δt=ts-tm °C	Uncertainty (±°C)	Pass/Fail
10.00	10.2	-0.2	0.19	Pass
25.00	24.5	0.5	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction ΔRH=RHs-RHm %	Uncertainty (± %RH)	Pass/Fail
25.00	27.5	-2.5	1.7	Pass
45.00	45.5	-0.5	1.7	Pass
60.00	61.9	-1.9	1.7	Pass
75.00	76.7	-1.7	1.7	Pass
85.00	82.4	2.6	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	2.6 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 146 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322040199
Code:	TZ0322040199	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 146 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	25.0	0.0	0.19	Pass
40.00	39.6	0.4	0.19	Pass
50.00	49.8	0.2	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	23.5	1.5	1.7	Pass
45.00	43.7	1.3	1.7	Pass
60.00	57.9	2.1	1.7	Pass
75.00	72.0	3.0	1.7	Pass
85.00	82.7	2.3	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

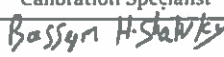
Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Calibration Results %RH	
Max. Reading Error:	3.0 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Acceptance Criteria is According to Customer Requirement.

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: 
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: 
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 027 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322041001
Code:	TZ0322041001	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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Ver. No.: 01

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 027 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	25.3	-0.3	0.19	Pass
40.00	39.7	0.3	0.19	Pass
50.00	49.6	0.4	0.19	Pass
60.00	59.6	0.4	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	28.8	-3.8	1.7	Pass
45.00	46.1	-1.1	1.7	Pass
60.00	58.6	1.4	1.7	Pass
75.00	76.0	-1.0	1.7	Pass
85.00	86.0	-1.0	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	3.8 %RH
Acceptance Criteria:	$\pm$ 5 %RH
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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Head Quarter: 26 Al Israa St., Lebanon Sq., Mohandseen, Giza, Egypt
 October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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Ver. No.: 01

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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 047 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322041071
Code:	TZ0322041071	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 047 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	24.6	0.4	0.19	Pass
40.00	39.7	0.3	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	60.3	-0.3	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	26.8	-1.8	1.7	Pass
45.00	45.4	-0.4	1.7	Pass
60.00	62.8	-2.8	1.7	Pass
75.00	79.1	-4.1	1.7	Pass
85.00	82.7	2.3	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	4.1 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 032 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322041188
Code:	TZ0322041188	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 032 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.2	-0.2	0.19	Pass
25.00	25.3	-0.3	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
50.00	50.3	-0.3	0.19	Pass
60.00	60.3	-0.3	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	22.5	2.5	1.7	Pass
45.00	42.1	2.9	1.7	Pass
60.00	59.4	0.6	1.7	Pass
75.00	74.1	0.9	1.7	Pass
85.00	82.4	2.6	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Calibration Results %RH	
Max. Reading Error:	2.9 %RH
Acceptance Criteria:	$\pm$ 5 %RH
Uncertainty:	$\pm$ 1.7 %RH

Acceptance Criteria is According to Customer Requirement.

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 037 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322041093
Code:	TZ0322041093	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 037 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	25.2	-0.2	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	60.1	-0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.0	0.0	1.7	Pass
45.00	47.2	-2.2	1.7	Pass
60.00	56.4	3.6	1.7	Pass
75.00	71.9	3.1	1.7	Pass
85.00	83.0	2.0	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.2 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Calibration Results %RH	
Max. Reading Error:	3.6 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 056 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0322041196
Code:	TZ0322041196	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 056 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	25.5	-0.5	0.19	Pass
40.00	39.9	0.1	0.19	Pass
50.00	49.8	0.2	0.19	Pass
60.00	59.7	0.3	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	23.7	1.3	1.7	Pass
45.00	46.6	-1.6	1.7	Pass
60.00	58.7	1.3	1.7	Pass
75.00	75.1	-0.1	1.7	Pass
85.00	83.4	1.6	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	1.6 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 245 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114407
Code:	TZ0323114407	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 245 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.1	-0.1	0.19	Pass
25.00	24.6	0.4	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	27.3	-2.3	1.7	Pass
45.00	45.6	-0.6	1.7	Pass
60.00	62.2	-2.2	1.7	Pass
75.00	76.8	-1.8	1.7	Pass
85.00	82.6	2.4	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C		
Max. Reading Error:	0.4 °C	Acceptance Criteria is According to Customer Requirement.
Acceptance Criteria:	$\pm$ 0.5 °C	
Uncertainty:	$\pm$ 0.19 °C	

Calibration Results %RH		
Max. Reading Error:	2.4 %RH	Acceptance Criteria is According to Customer Requirement.
Acceptance Criteria:	$\pm$ 5 %RH	
Uncertainty:	$\pm$ 1.7 %RH	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 009 - 239 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114412
Code:	TZ0323114412	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Disclaimer:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 239 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.7	0.3	0.19	Pass
25.00	25.2	-0.2	0.19	Pass
40.00	40.4	-0.4	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	60.3	-0.3	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	23.3	1.7	1.7	Pass
45.00	42.9	2.1	1.7	Pass
60.00	59.5	0.5	1.7	Pass
75.00	75.4	-0.4	1.7	Pass
85.00	81.8	3.2	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	3.2 %RH
Acceptance Criteria:	$\pm$ 5 %RH
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: 
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: 
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 240 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114418
Code:	TZ0323114418	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 240 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.0	0.0	0.19	Pass
25.00	25.5	-0.5	0.19	Pass
40.00	40.4	-0.4	0.19	Pass
50.00	49.9	0.1	0.19	Pass
60.00	60.2	-0.2	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	23.3	1.7	1.7	Pass
45.00	42.5	2.5	1.7	Pass
60.00	59.3	0.7	1.7	Pass
75.00	75.0	0.0	1.7	Pass
85.00	81.8	3.2	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	3.2 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 009 - 201 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114431
Code:	TZ0323114431	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 201 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.0	0.0	0.19	Pass
25.00	24.9	0.1	0.19	Pass
40.00	40.4	-0.4	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	60.2	-0.2	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.9	-0.9	1.7	Pass
45.00	43.9	1.1	1.7	Pass
60.00	58.9	1.1	1.7	Pass
75.00	74.7	0.3	1.7	Pass
85.00	84.0	1.0	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	1.1 %RH
Acceptance Criteria:	$\pm$ 5 %RH
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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Head Quarter: 26 Al Israa St., Lebanon Sq., Mohandseen, Giza, Egypt
 October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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 +201023310802
 +20233034440

Ver. No.: 01

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CALIBRATION CERTIFICATE



TAG
CALIBRATION

TAG LAB ☒

On Site ☐

Certificate No.: 001 - 009 - 251 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114503
Code:	TZ0323114503	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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Calibration
CAB #041602



Certificate No.: 001 - 009 - 251 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.8	0.2	0.19	Pass
25.00	24.5	0.5	0.19	Pass
40.00	39.6	0.4	0.19	Pass
50.00	49.9	0.1	0.19	Pass
60.00	60.2	-0.2	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	27.7	-2.7	1.7	Pass
45.00	46.0	-1.0	1.7	Pass
60.00	63.7	-3.7	1.7	Pass
75.00	79.1	-4.1	1.7	Pass
85.00	80.6	4.4	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	4.4 %RH
Acceptance Criteria:	± 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By	Prepared by	Reviewed & Approved By
Name: Bassem Hesham	Noha Essam	
Title: Calibration Specialist	Senior Technical Office Specialist	
Signature: <i>Bassem H. Hesham</i>	<i>Noha Essam</i>	
Date: 15 Apr 2025	16 Apr 2025	



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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 009 - 242 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114527
Code:	TZ0323114527	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 242 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.6	0.4	0.19	Pass
25.00	25.1	-0.1	0.19	Pass
40.00	40.3	-0.3	0.19	Pass
50.00	50.2	-0.2	0.19	Pass
60.00	60.4	-0.4	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	22.7	2.3	1.7	Pass
45.00	42.4	2.6	1.7	Pass
60.00	59.1	0.9	1.7	Pass
75.00	75.7	-0.7	1.7	Pass
85.00	82.9	2.1	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Calibration Results %RH	
Max. Reading Error:	2.6 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025
Calibrated By		Prepared by	Reviewed & Approved By
Name: Bassem Hesham		Noha Essam	
Title: Calibration Specialist		Senior Technical Office Specialist	
Signature: <i>Bassem H. Hesham</i>		<i>Noha Essam</i>	
Date: 15 Apr 2025		16 Apr 2025	



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 009 - 165 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114516
Code:	TZ0323114516	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 165 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.2	-0.2	0.19	Pass
25.00	25.5	-0.5	0.19	Pass
40.00	39.8	0.2	0.19	Pass
50.00	49.7	0.3	0.19	Pass
60.00	59.6	0.4	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.4	-0.4	1.7	Pass
45.00	44.0	1.0	1.7	Pass
60.00	57.2	2.8	1.7	Pass
75.00	74.9	0.1	1.7	Pass
85.00	84.8	0.2	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	2.8 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 235 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114535
Code:	TZ0323114535	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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+201023310802

+20233034440

Ver. No.: 01

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 235 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.2	-0.2	0.19	Pass
25.00	24.8	0.2	0.19	Pass
40.00	39.9	0.1	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	60.1	-0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	24.6	0.4	1.7	Pass
45.00	45.9	-0.9	1.7	Pass
60.00	55.2	4.8	1.7	Pass
75.00	72.1	2.9	1.7	Pass
85.00	80.4	4.6	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C		
Max. Reading Error:	0.2 °C	Acceptance Criteria is According to Customer Requirement.
Acceptance Criteria:	$\pm$ 0.5 °C	
Uncertainty:	$\pm$ 0.19 °C	

Calibration Results %RH		
Max. Reading Error:	4.8 %RH	Acceptance Criteria is According to Customer Requirement.
Acceptance Criteria:	$\pm$ 5 %RH	
Uncertainty:	$\pm$ 1.7 %RH	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: 
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: 
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 205 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114540
Code:	TZ0323114540	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 205 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.8	0.2	0.19	Pass
25.00	24.8	0.2	0.19	Pass
40.00	40.3	-0.3	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	60.1	-0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	26.1	-1.1	1.7	Pass
45.00	44.5	0.5	1.7	Pass
60.00	61.9	-1.9	1.7	Pass
75.00	77.5	-2.5	1.7	Pass
85.00	82.1	2.9	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	± 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	2.9 %RH
Acceptance Criteria:	± 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem H. Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 223 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114544
Code:	TZ0323114544	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Disclaimer:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 223 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.9	0.1	0.19	Pass
25.00	24.9	0.1	0.19	Pass
40.00	39.9	0.1	0.19	Pass
50.00	49.9	0.1	0.19	Pass
60.00	59.9	0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	25.2	-0.2	1.7	Pass
45.00	43.3	1.7	1.7	Pass
60.00	55.4	4.6	1.7	Pass
75.00	72.9	2.1	1.7	Pass
85.00	81.0	4.0	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.1 °C
Acceptance Criteria:	$\pm$ 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	4.6 %RH
Acceptance Criteria:	$\pm$ 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem H. Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE

TAG LAB ☒On Site ☐

Certificate No.: 001 - 009 - 181 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114565
Code:	TZ0323114565	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information ° C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

Notes:

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Disclaimer:

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Ver. No.: 01

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 181 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	9.8	0.2	0.19	Pass
25.00	24.6	0.4	0.19	Pass
40.00	39.7	0.3	0.19	Pass
50.00	50.0	0.0	0.19	Pass
60.00	59.8	0.2	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	24.3	0.7	1.7	Pass
45.00	42.5	2.5	1.7	Pass
60.00	58.6	1.4	1.7	Pass
75.00	75.3	-0.3	1.7	Pass
85.00	83.4	1.6	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Calibration Results %RH	
Max. Reading Error:	2.5 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem Hesham*
Date: 15 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 009 - 233 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114577
Code:	TZ0323114577	Range:	((-30) - 60) °C ,(0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 009 - 233 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.2	-0.2	0.19	Pass
25.00	25.1	-0.1	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
50.00	50.1	-0.1	0.19	Pass
60.00	60.1	-0.1	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	24.3	0.7	1.7	Pass
45.00	45.2	-0.2	1.7	Pass
60.00	59.8	0.2	1.7	Pass
75.00	73.1	1.9	1.7	Pass
85.00	83.9	1.1	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.2 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Calibration Results %RH	
Max. Reading Error:	1.9 %RH
Acceptance Criteria:	± 5 %RH
Uncertainty:	± 1.7 %RH
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem Hesham*
 Date: 15 Apr 2025

Prepared by
 Name: Noha Essam
 Title: Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 16 Apr 2025

Reviewed & Approved By



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 009 - 254 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data logger	Resolution:	0.1 °C , 0.1 %RH
Manufacture:	TZONE	Accuracy:	NA
Model:	TEMPU03	Serial Number:	TZ0323114578
Code:	TZ0323114578	Range:	((-30) - 60) °C , (0 - 100) %RH
Location:	TAG LAB		

Reference Instrument Information °C

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Reference Instrument Information %RH

Instrument Name:	Digital Thermo-hygrometer	Resolution:	0.01 %RH
Manufacture:	Rotronic	Serial Number:	61778245/20104112
Model:	HL-NT2-D/HC2-S		

Remarks

Calibration Method: Comparison method based on calibration Method for Temperature/Humidity indicators & dataloggers CM-T&RH-001 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificates No.(1459/32C002/161/1774/2024) and (1459/32C012/400/1771/2024).

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Ver. No.: 01

Page 1 of 2

CALIBRATION CERTIFICATE

Certificate No.: 001 - 009 - 254 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
10.00	10.4	-0.4	0.19	Pass
25.00	25.4	-0.4	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
50.00	50.4	-0.4	0.19	Pass
60.00	60.3	-0.3	0.19	Pass

Reading Information %RH				
Reference Reading RHs %	Reading RHm %	Correction $\Delta RH = RH_s - RH_m$ %	Uncertainty ($\pm$ %RH)	Pass/Fail
25.00	28.0	-3.0	1.7	Pass
45.00	47.2	-2.2	1.7	Pass
60.00	61.8	-1.8	1.7	Pass
75.00	76.8	-1.8	1.7	Pass
85.00	81.7	3.3	1.7	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 0.19 °C

Calibration Results %RH	
Max. Reading Error:	3.3 %RH
Acceptance Criteria:	$\pm$ 5 %RH Acceptance Criteria is According to Customer Requirement.
Uncertainty:	$\pm$ 1.7 %RH

Received Date	Issue Date	Calibration Date	Calibration Due
15 Apr 2025	16 Apr 2025	15 Apr 2025	14 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem H. Hesham*
 Date: 15 Apr 2025

Prepared by
 Noha Essam
 Senior Technical Office Specialist
Noha Essam
 16 Apr 2025

Reviewed & Approved By



F-7.8/09

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VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.07

Inspection Certificate



Certificate No.: PQ-006-2025

**Certificate
of
Performance Qualification Execution
for Retained Sample Room for Raw Material
(LB-025)**

at UTOPIA PHARMACEUTICALS

Executed By

Techno Air Gate Company (TAG)

Egypt

The inspection test was performed in compliance with the requirements of ISO/IEC 17020/2012, and this certificate confirms that Retained Sample Room for Raw Material fulfills the required acceptance criteria.

Inspection Date:
02/06/2025

Certificate Issue Date:
11/06/2025

This certificate relates to report no.:
PQR-M-00625

Prepared By

M. HASS



Head of Department

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F-7.4/02
Issue No.: 01.0
Ver. No.: 01

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Issue Date: 01 Oct, 2024

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