Mobile Health Diagnostics
Your OSHA Compliance Partner

ENVIRONMENTAL NOISE LEVEL SURVEY

Prepared for:

4AM Development

6539 Burkhalter Road,
Statesboro, GA 30458

August 12, 2026

This document has been prepared by Mobile Health Diagnostics. The material and data in this report were prepared under the supervision and direction of the undersigned.

Troy Bouman, PhD
Acoustical Engineer

Table of Contents

Acronyms

dB	Decibel reference 20uPa
dBZ	Unweighted decibel
dBA	A-weight decibel. A-weighting reflects how humans perceive sound.
dBC	C-weight decibel. C-weighting reflects how humans perceive sound at high output levels (90dB+).
SLM	Sound level meter
SPL	Sound pressure level

1. Introduction

Mobile Health Diagnostics was contracted to perform environmental noise level testing at a potential future data center location for 4AM Development. The site is located at 6539 Burkhalter Road, Statesboro, GA 30458. The goal of this testing was to understand the current ambient acoustic levels of the potential site. The Statesboro Georgia data center specific ordinance, adopted 6/2/2026, specifies specific noise requirements [1]:

Maximum Noise Limits: Developer must provide a detailed noise study by a qualified consultant which accounts for existing outdoor conditions as well as project growth and surrounding land uses. Sound generated by the Data Center and all accessory equipment (excluding verified emergencies) shall not exceed existing ambient conditions or 50 dBa/70 dBc at the property line of a Sensitive Receptor, whichever is greater.

The dBA metric is used to account for normal human perception of sound and the dBC metric is used to allow for a simple metric that better accounts for any low frequency energy concerns. The testing for this study was conducted on May 21, 2026

2. Methodology

A sound level meter (SLM) was placed on a tripod and roamed around the property lines. The measurement locations are shown in Table 1 & Figure 1.

Table 1: Description of test point locations

Plot Point	Start Time	End Time	Notes
1	10:25 AM	11:25 PM	West side of site. The SLM was mounted to top of fence that divides the site from the apartments. The area to the west of the fence consists of a roadway and 2-story townhouse style apartments approximately 100-feet away. The area to the east of the fence is densely wooded. Temp: 81 degrees, Humidity: 66%; Pressure: 30.07
2	11:39 AM	12:39 PM	West side of site. The SLM was mounted to top of fence that divides the site from the apartments. The area to the west of the fence consists of a roadway and 2-story townhouse style apartments approximately 100-feet away. The area to the east of the fence is densely wooded. Temp: 87 degrees, Humidity: 50%; Pressure: 30.05
3	12:55 PM	1:55 PM	North side of site. The SLM was mounted to the tripod near the property lined that divides the site from an apartment complex. The area to the north of the property line consists of 2-story townhouse style apartments approximately 75-feet away. The area to the south is densely wooded. Temp: 88, Humidity: 47%, Pressure: 30.05
4	2:05 PM	3:05 PM	South Side of site. This side of the site is bordered by Burkhalter Road which is a 2-way, 2-lane roadway with light to moderate traffic throughout the day. The SLM was mounted to the tripod on the property line approximately 20-feet from the roadway. A single-family home neighborhood is being built on the south side of the road. The site to the north is mostly open fields. Temp: 90, Humidity: 44, Pressure: 30.02
5	3:09 PM	4:09 PM	East side of the site. The SLM was mounted to the tripod on the property line. A solar panel farm sits approximately 30 feet to the east. The site to the west is mostly open fields. Temp: 90, Humidity: 43%, Pressure: 30.0
6	4:13 PM	5:13 PM	South Side of site. This side of the site is bordered by Burkhalter Road which is a 2-way, 2-lane roadway with light to moderate traffic throughout the day. The SLM was mounted to the tripod on the property line approximately 20-feet from the roadway. A single-family home neighborhood is being built on the south side of the road. The site to the north is mostly open fields. Temp: 91, Humidity: 43, Pressure: 29.99

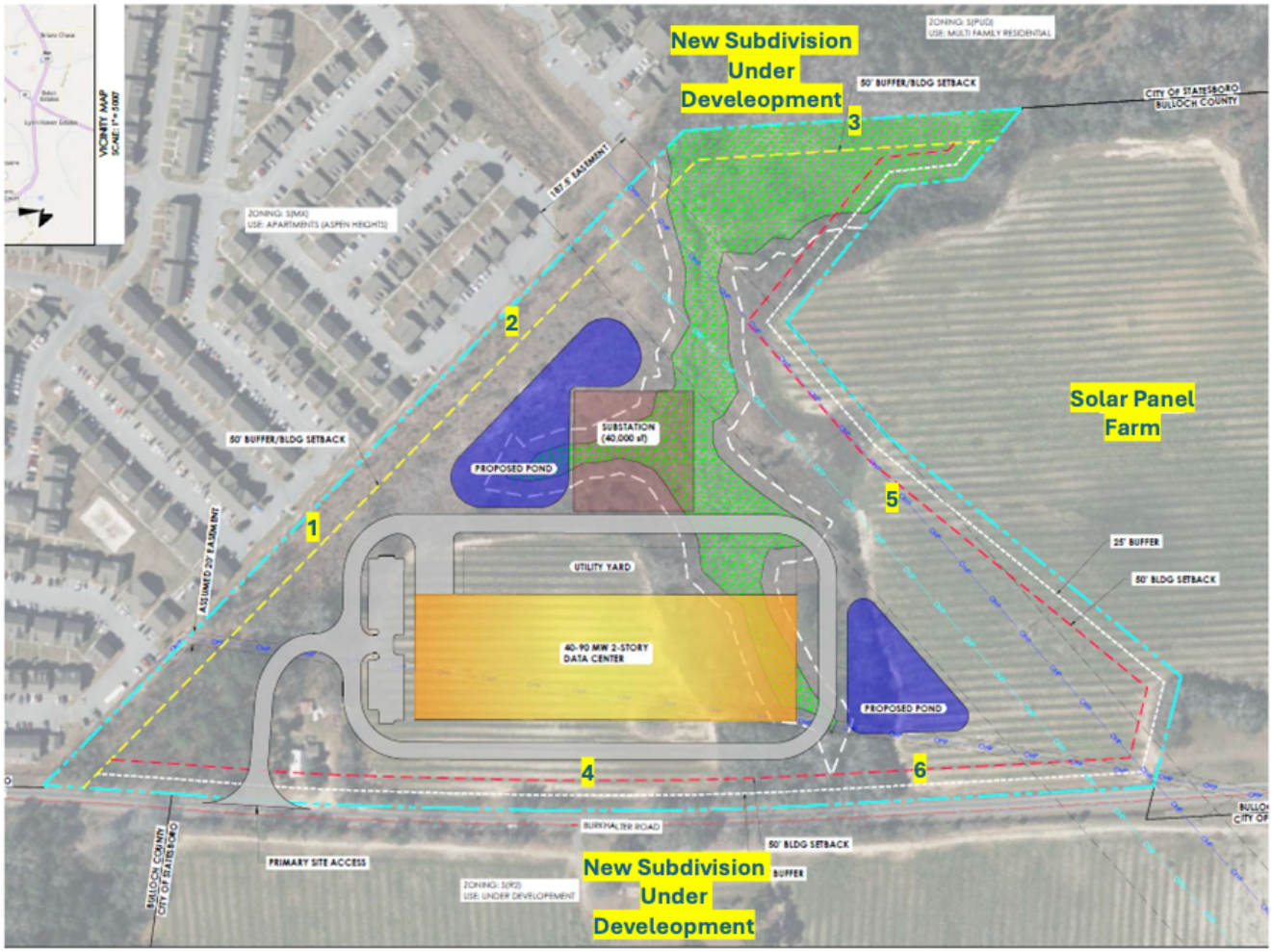


Figure 1: Map showing data collection points

Sound was recorded in 1-hour periods from 10am to 5pm. From that data, Unweighted, A-weighted average levels and C-weighted were computed (i.e. LZeq, LAeq, & LCeq). Additionally, the A-weighted 1/3 octave band levels were recorded. The measurements were made using a Quest Sound Pro sound level meter, SN BIZ 040003 set to slow response. The sound level meter was calibrated before and after each testing day using a 3M AC300 calibrator, SN AC300002640, and were within 0.5dB between each calibration. The calibration certificates for the equipment can be found in Appendix A. The weather on testing day was 88F, 47% humidity, and 30.05 inHg pressure.

3. Results

The results from the testing are shown in Table 2. The overall human perceived levels (i.e. LAeq) were loudest at locations 4 & 6 at ~ 64dBA. This was expected as those locations are along Burkhalter Road. The remaining locations are all ~56dBA, which is above the 50 dBA ordinance requirements. Additionally, all of the measurement locations were above the 70dBC limit, with location 1 much higher at 95 dBC. Therefore, the ambient levels recorded were already above the ordinance limits and therefore supersede the specified ordinance requirement values, per the ordinance wording. The 1/3 octave band levels for each location are given in Appendix B for future reference.

Table 2: Results from testing at each waypoint.

Point	LAeq (dBA)	LCeq (dBC)	LZeq (dBZ)
1	55.7	94.9	105.7
2	55.3	80.0	89.9
3	56.0	80.0	89.9
4	62.6	84.2	94.6
5	57.1	83.1	93.4
6	66.2	81.5	90.6

Figure 2 shows examples of dBA levels for reference.

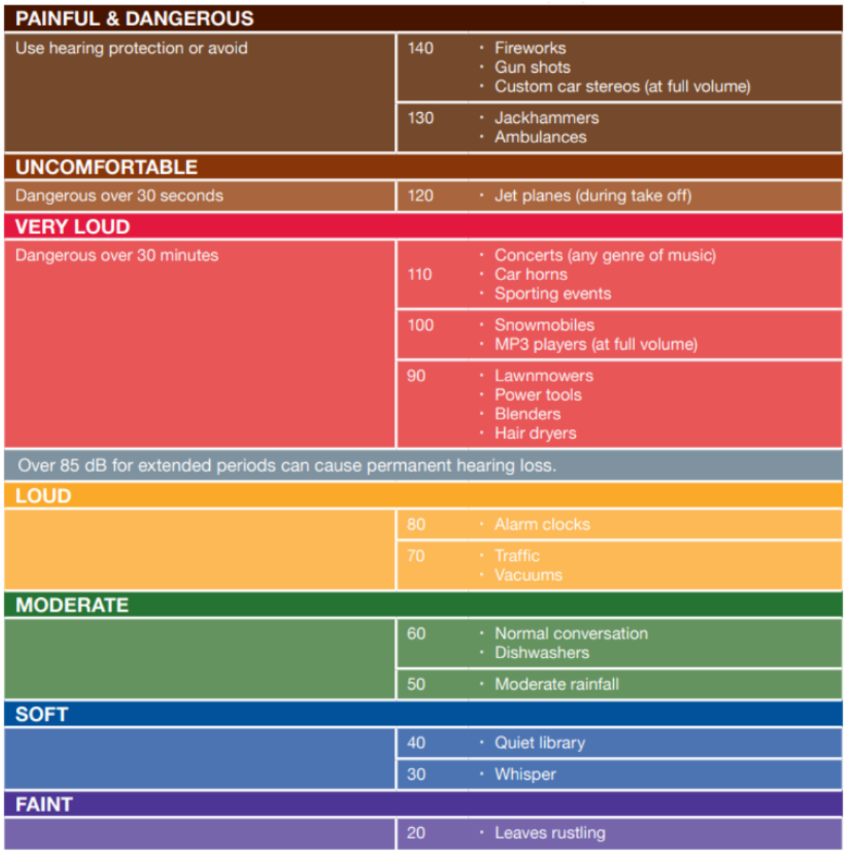


Figure 2: Reference dBA examples [2]

4. Conclusions

Acoustic data were acquired at a potential future data center location for 4AM Development. The site is located at 6539 Burkhalter Road, Statesboro, GA 30458. The results showed the acoustic background level was ~56 dBA for all locations except by Burkhalter Road where the levels increased to ~64 dBA. This means the ambient level at this facility is already above the proposed 50 dBA requirement. Additionally, all locations exceeded the 70dBC limit with most at 80-84 dBC while location 1 was at 94dBC. Therefore, based on the ordinance wording, the development should be designed to achieve the measured ambient levels as opposed to the 50dBA and 70 dBC requirements listed in the ordinance. Given that the this facility is grid powered and does not have its own power generation, it's my professional opinion that there are no vibration concerns for this facility because there are not going to be any sources on the site that could general significant vibration energy.

5. References

[1] Statesboro, GA Noise Ordinance
https://www.statesboroga.gov/Documents/Government/City%20Council/Agendas%20and%20Minutes/2026/06-02-2026/06-02-2026%20Council%20Packet.pdf
[2] dBA Examples Chart
https://decibelpro.app/blog/decibel-chart-of-common-sound-sources/#2

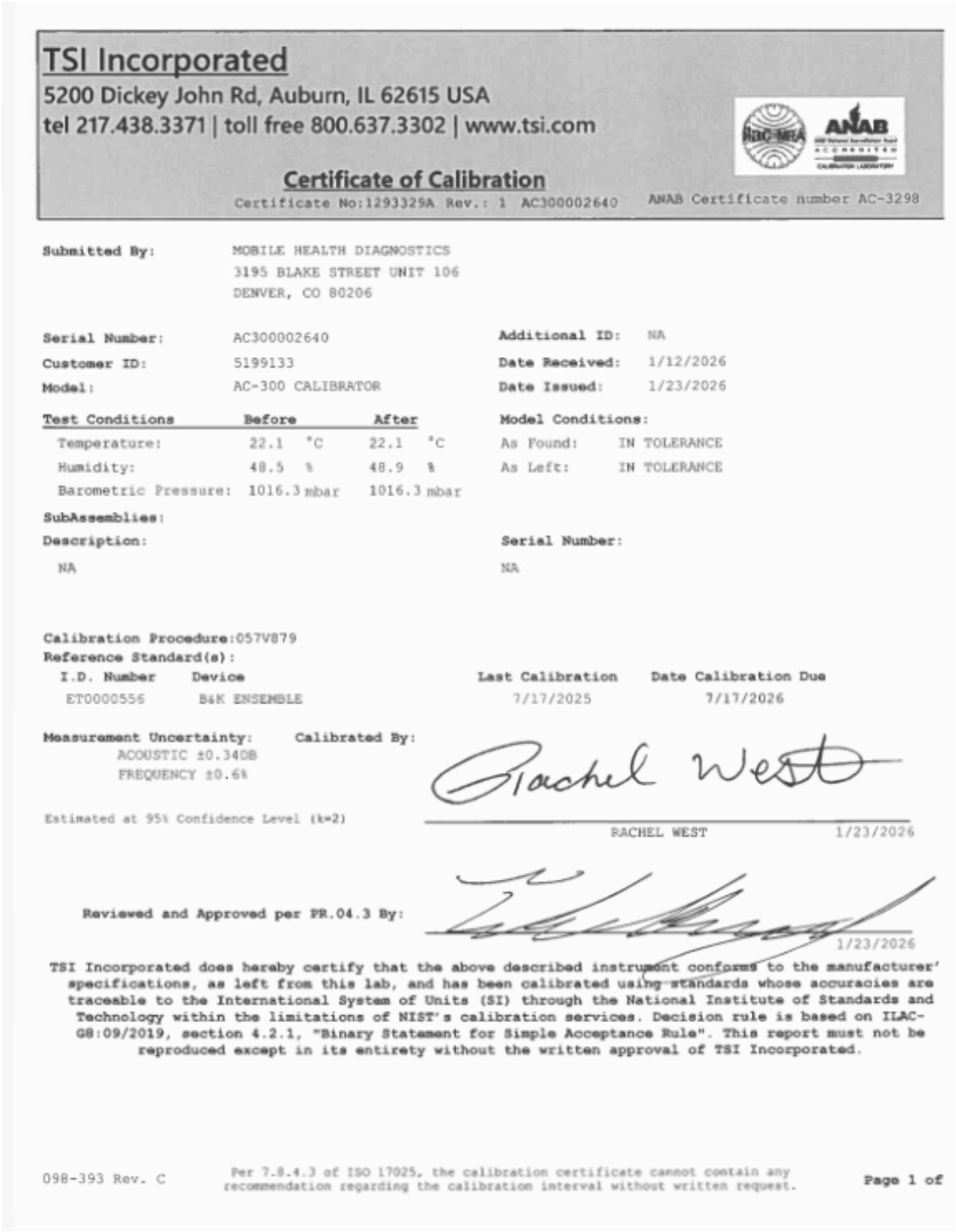
6. LIMITATIONS

The services described in this work product were performed in accordance with generally accepted professional consulting principles and practices. No other representations or warranties, expressed or implied, are made. These services were performed consistent with our agreement with our client. This work product is intended solely for the use and information of our client unless otherwise noted. Any reliance on this work product by a third party is at such party's sole risk.

Opinions and recommendations contained in this work product are based on conditions that existed at the time the services were performed and are intended only for the client, purposes, positions, time frames, and project parameters indicated. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this work product.

This work product presents professional opinions and findings of a scientific and technical nature. The work product shall not be construed to offer legal opinion or representations as to the requirements of, nor the compliance with, environmental laws rules, regulations, or federal, state or local regulations.

Appendix A – Calibration Certificates



TSI Incorporated
5200 Dickey John Rd, Auburn, IL 62615 USA
tel 217.438.3371 | toll free 800.637.3302 | www.tsi.com

Certificate of Calibration
Certificate No:1293329A Rev.: 1 AC300002640 ANAB Certificate number AC-3298

Submitted By: MOBILE HEALTH DIAGNOSTICS
3195 BLAKE STREET UNIT 106
DENVER, CO 80206

Serial Number: AC300002640
Customer ID: 5199133
Model: AC-300 CALIBRATOR
Additional ID: NA
Date Received: 1/12/2026
Date Issued: 1/23/2026

Test Conditions	Before	After
Temperature:	22.1 °C	22.1 °C
Humidity:	48.5 %	48.9 %
Barometric Pressure:	1016.3 mbar	1016.3 mbar

Model Conditions:
As Found: IN TOLERANCE
As Left: IN TOLERANCE

SubAssemblies:

Description:	Serial Number:
NA	NA

Calibration Procedure:057V879
Reference Standard(s):

I.D. Number	Device	Last Calibration	Date Calibration Due
ET0000556	B&K ENSEMBLE	7/17/2025	7/17/2026

Measurement Uncertainty:
ACOUSTIC ±0.34DB
FREQUENCY ±0.6%
Estimated at 95% Confidence Level (k=2)

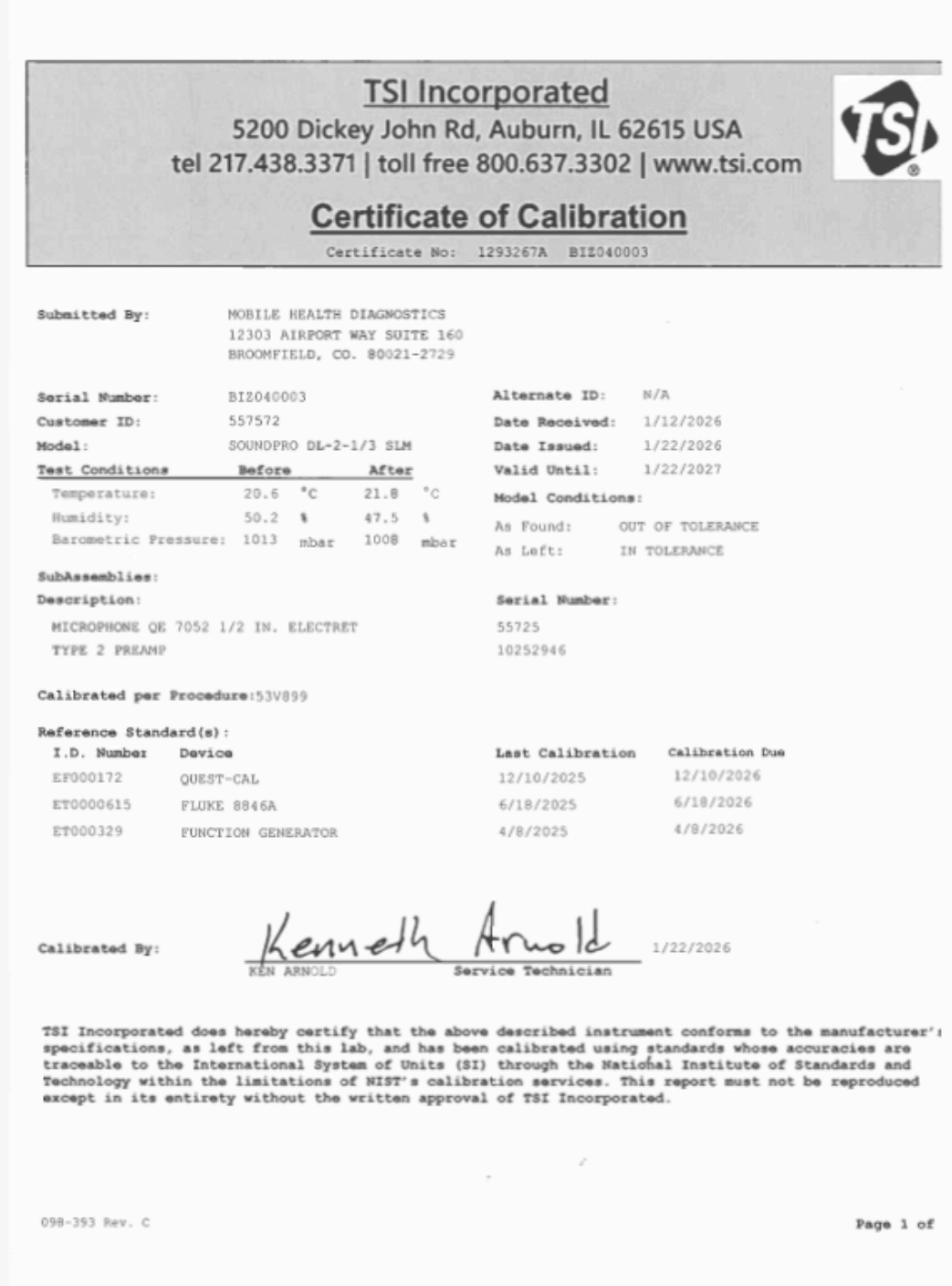
Calibrated By: RACHEL WEST 1/23/2026

Reviewed and Approved per PR.04.3 By: 1/23/2026

TSI Incorporated does hereby certify that the above described instrument conforms to the manufacturer' specifications, as left from this lab, and has been calibrated using standards whose accuracies are traceable to the International System of Units (SI) through the National Institute of Standards and Technology within the limitations of NIST's calibration services. Decision rule is based on ILAC-G8:09/2019, section 4.2.1, "Binary Statement for Simple Acceptance Rule". This report must not be reproduced except in its entirety without the written approval of TSI Incorporated.

098-393 Rev. C Per 7.8.4.3 of ISO 17025, the calibration certificate cannot contain any recommendation regarding the calibration interval without written request. Page 1 of

A1-1: Calibration certification for the calibrator



TSI Incorporated

5200 Dickey John Rd, Auburn, IL 62615 USA
tel 217.438.3371 | toll free 800.637.3302 | www.tsi.com

Certificate of Calibration

Certificate No: 1293267A BIZ040003

Submitted By: MOBILE HEALTH DIAGNOSTICS
12303 AIRPORT WAY SUITE 160
BROOMFIELD, CO. 80021-2729

Serial Number: BIZ040003
Customer ID: 557572
Model: SOUNDPRO DL-2-1/3 SLM

Test Conditions	Before		After	
Temperature:	20.6	°C	21.8	°C
Humidity:	50.2	%	47.5	%
Barometric Pressure:	1013	mbar	1008	mbar

Alternate ID: N/A
Date Received: 1/12/2026
Date Issued: 1/22/2026
Valid Until: 1/22/2027

Model Conditions:
As Found: OUT OF TOLERANCE
As Left: IN TOLERANCE

SubAssemblies:

Description:	Serial Number:
MICROPHONE QE 7052 1/2 IN. ELECTRET	55725
TYPE 2 PREAMP	10252946

Calibrated per Procedure: 53V899

Reference Standard(s):

I.D. Number	Device	Last Calibration	Calibration Due
EF000172	QUEST-CAL	12/10/2025	12/10/2026
ET0000615	FLUKE 8846A	6/18/2025	6/18/2026
ET000329	FUNCTION GENERATOR	4/8/2025	4/8/2026

Calibrated By: Kenneth Arnold 1/22/2026
KEN ARNOLD Service Technician

TSI Incorporated does hereby certify that the above described instrument conforms to the manufacturer's specifications, as left from this lab, and has been calibrated using standards whose accuracies are traceable to the International System of Units (SI) through the National Institute of Standards and Technology within the limitations of NIST's calibration services. This report must not be reproduced except in its entirety without the written approval of TSI Incorporated.

098-393 Rev. C

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A1-2: Calibration certificate for the sound level meter

Appendix B – 1/3 Octave A weighted data

1/1 LAeq	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6
12.5 Hz	41.6	25.2	25.2	30.3	29.0	25.9
16 Hz	39.2	25.2	25.2	28.8	28.1	25.7
20 Hz	35.1	25.3	25.3	26.9	27.5	25.6
25 Hz	37.4	28.2	28.2	29.6	28.7	28.3
31.5 Hz	35.2	28.4	28.2	29.1	28.6	32.0
40 Hz	31.3	28.2	28.2	29.0	28.5	29.3
50 Hz	31.6	31.2	31.2	32.2	31.5	35.8
63 Hz	33.3	31.2	31.4	34.8	31.8	37.2
80 Hz	33.2	31.3	31.2	39.5	32.2	41.3
100 Hz	39.0	34.2	34.2	43.1	35.1	49.9
125 Hz	41.9	34.2	34.3	44.2	35.0	50.2
160 Hz	39.6	34.3	34.8	44.3	35.0	51.6
200 Hz	39.3	37.2	38.0	46.3	37.3	49.1
250 Hz	38.2	37.2	38.2	45.4	37.3	50.1
315 Hz	38.2	37.2	39.2	45.3	37.8	50.6
400 Hz	40.6	40.4	41.9	45.1	40.6	49.6
500 Hz	40.6	40.7	41.8	47.1	40.8	51.8
630 Hz	40.6	40.6	42.8	50.3	40.8	55.4
800 Hz	43.4	43.3	44.8	53.8	43.6	57.1
1.00 kHz	43.4	43.3	44.6	54.8	43.7	58.0
1.25 kHz	43.4	43.3	44.4	54.7	43.6	57.7
1.60 kHz	46.3	46.3	46.7	53.7	46.3	56.4
2.00 kHz	46.3	46.3	46.8	51.6	46.3	54.2
2.50 kHz	46.3	46.3	46.6	49.6	46.3	51.8
3.15 kHz	49.3	49.2	49.3	49.7	49.2	51.3
4.00 kHz	49.2	49.2	49.3	49.5	49.2	50.8
5.00 kHz	49.2	49.2	49.3	49.3	49.2	50.2
6.30 kHz	52.2	44.0	52.3	52.3	52.2	52.4
8.00 kHz	50.9	45.9	52.3	52.3	52.2	52.3
10.00 kHz	50.6	43.7	52.3	52.2	52.2	52.0
12.50 kHz	45.5	37.5	55.2	49.4	50.3	53.4
16.00 kHz	39.0	33.6	50.7	41.8	46.7	46.1
20.00 kHz	30.1	32.2	43.3	32.3	43.7	39.4

B1-1: 1/3 octave A-weighted (i.e. LAeq) data for each way point.