

Wilmette WSNRP Community Park Project  
Wilmette, Illinois

# **VIBRATION MONITORING REPORT-5**

Woodward D. Schultz  
Berger  
1205 Garland Rd  
Wauconda, IL 60084

July 6, 2020

Cti



4262 Old Grand Ave  
Suite 102  
Chicago, IL 60031

July 6, 2020

Woodward D. Schultz  
Berger  
1205 Garland Rd  
Wauconda, IL 60084

RE: **Report 5** - *Ground Vibration Monitoring for the Wilmette WSNP Community Park Project located in Wilmette, Illinois.*

Mr. Schultz,

Construction Testing and Instrumentation, Inc. (CTI) have prepared this vibration monitoring report to evaluate vibrations during all construction activities. This report summarizes the results of ground vibration monitoring for nine seismographs, all located around the surrounding project site (see attached location diagram). This summary report covers the monitoring period from **June 22, 2020 through July 5, 2020.**

The vibration equipment at the site are Geosonic WR3000LC seismographs that have the capacity to record peak particle velocity (PPV) and frequency (Hertz). The maximum allowable peak particle velocity is 0.50 inches per second (IPS), which is based upon the specifications established by the U.S Bureau of Mines (USBM) and a typical threshold for construction vibration monitoring. The seismographs are set to trigger whenever vibration levels exceed 0.003 in/s lowest (PPV) and continuously monitor vibrations during all construction activities.

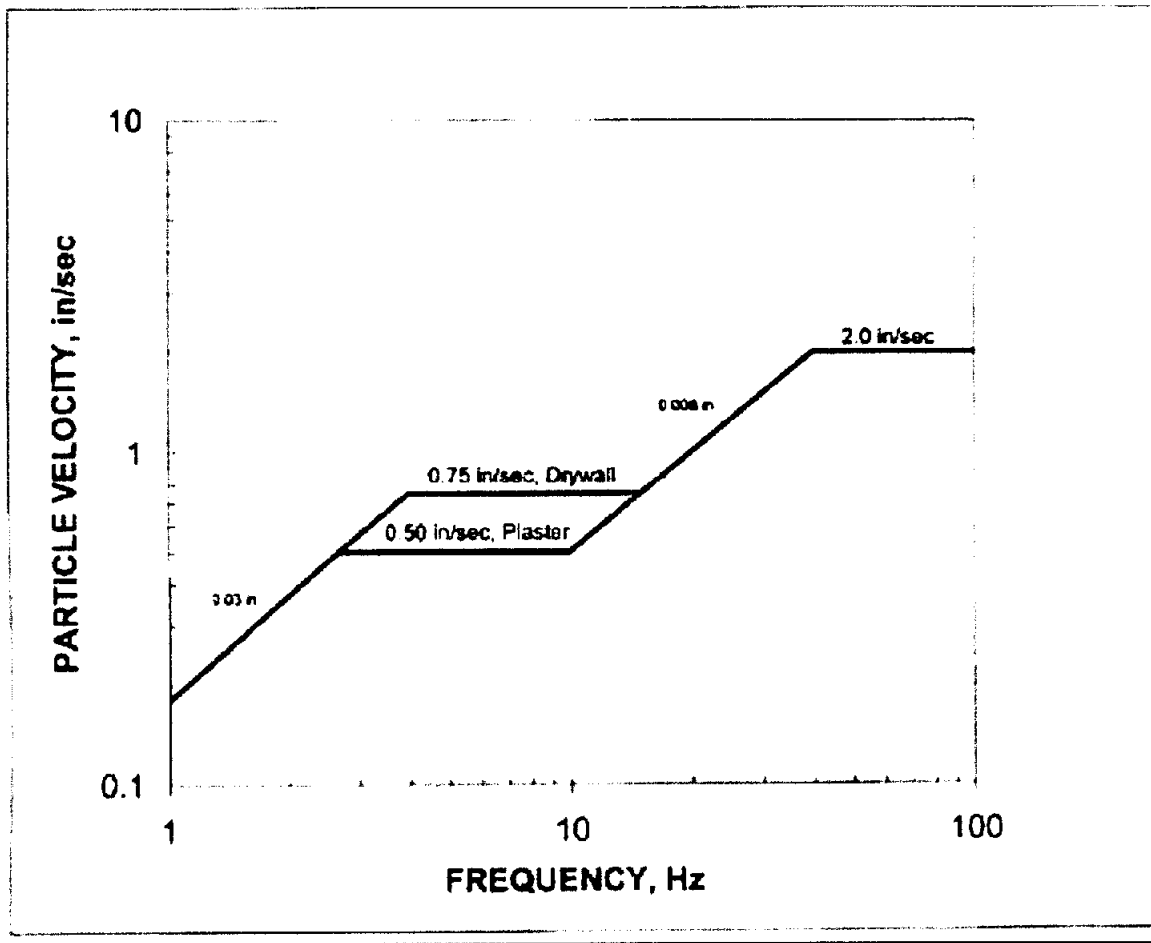
All vibration recordings during this report period have been below the 0.50-inch per second threshold limit. The maximum PPV for the monitoring period are below.

July 1, 2020	<b>Location #1</b>	Unit #8289	V	0.045 (in/s)
June 22, 2020	<b>Location #2</b>	Unit #3559	T	0.108 (in/s)
June 29, 2020	<b>Location #3</b>	Unit #3804	L	0.298 (in/s)
July 1, 2020	<b>Location #4</b>	Unit #5033	T	0.170 (in/s)
June 22, 2020	<b>Location #5</b>	Unit #3802	L	0.043 (in/s)
July 2, 2020	<b>Location #6</b>	Unit #3775	T	0.030 (in/s)
June 23, 2020	<b>Location #7</b>	Unit #3733	L	0.160 (in/s)
June 23, 2020	<b>Location #8</b>	Unit #8336	L	0.085 (in/s)
July 2, 2020	<b>Location #9</b>	Unit #5259	T	0.055 (in/s)

V- Vertical Vibration  
T- Transversal Vibration  
L- Longitudinal Vibration

Sincerely,

Daniel W. McCarthy  
Senior Instrumentation Engineer



### INDUSTRY STANDARD ACCEPTABLE PPV LEVELS

The most influential research on the effects of ground-borne vibrations was conducted by Siskind et al. (1980) of the U.S. Bureau of Mines.<sup>1</sup> Based on the results of an extensive experimental study, the authors recommended acceptable vibration levels for residential structures at which there is a sufficiently low probability of damage initiation. They suggested a minimum peak particle velocity at frequencies below 40 Hz of 0.75 in/sec for homes with gypsum wallboard construction and 0.5 in/sec for homes with plaster and lath construction. An acceptable peak particle velocity of 2.0 in/sec was recommended for all homes at frequencies greater than 40 Hz. These values were based on a 5% probability of occurrence of threshold (cosmetic) damage. The authors also developed a more detailed functional relationship between acceptable PPV levels and vibration frequency. A similar functional relationship was adopted by the Office of Surface Mining Reclamation and Enforcement.<sup>2</sup> The USBM and OSMRE curves are shown in Figure 2. These recommended acceptable PPV levels have been successfully applied to other activities that induce ground-borne vibrations and they have been widely used by the construction industry.

<sup>1</sup> Siskind, D. E., Stagg, M. S., Kopp, J. W., and Dowding, C. H. (1980). "Structure Response and Damage Produced by Ground Vibration from Surface Blasting." *Report of Investigations 8507*, U.S. Bureau of Mines. <sup>2</sup> Rosenthal, M. F. and Morlock, G. I. (1987). *Blasting Guidance Manual*, U.S. Department of the Interior, Office of Surface Mining Reclamation and Enforcement.



**SN:** 8289 v3.66  
**Date:** 06/22/2020 **Time:** 09:12:00  
**Event:** 2  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording**  
**Summary Data**

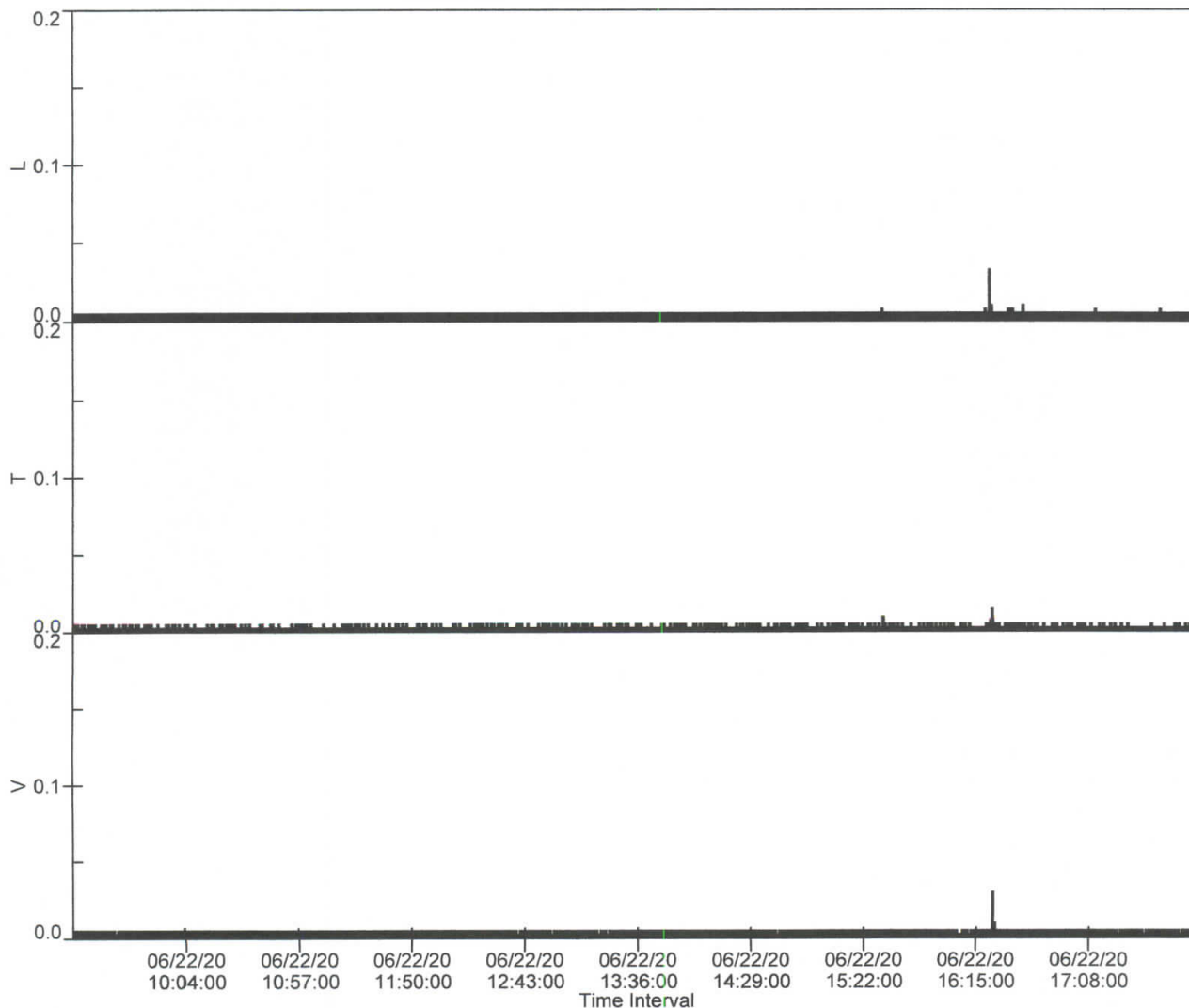
	L	T	V
<b>PPV (in/s)</b>	0.033	0.015	0.030
<b>FREQ (Hz)</b>	2.8	50.0	500.0
<b>Peak Air Pressure:</b>	90 db		
<b>Recording Time:</b>	527 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 2

Record Max PPV: 0.033 in/s Record Max DB: 90 db



**SN:** 8289 v3.66  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 3  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.020	0.028	0.020
<b>FREQ (Hz)</b>	12.5	10.4	13.5
<b>Peak Air Pressure:</b>	100 db		

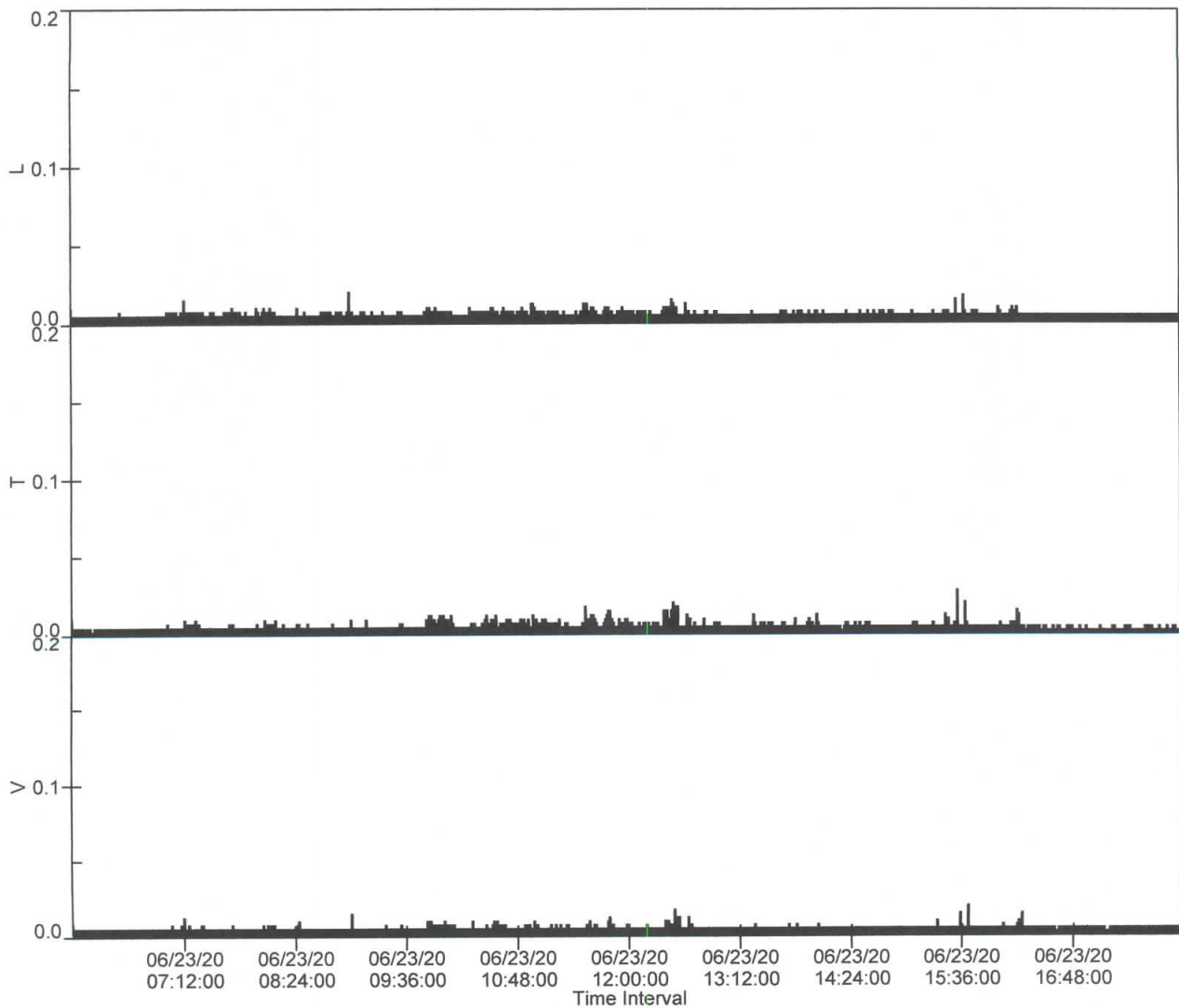
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 3

Record Max PPV: 0.028 in/s Record Max DB: 100 db



**SN:** 8289 v3.66  
**Date:** 06/24/2020 **Time:** 06:01:00  
**Event:** 4  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording  
Summary Data**

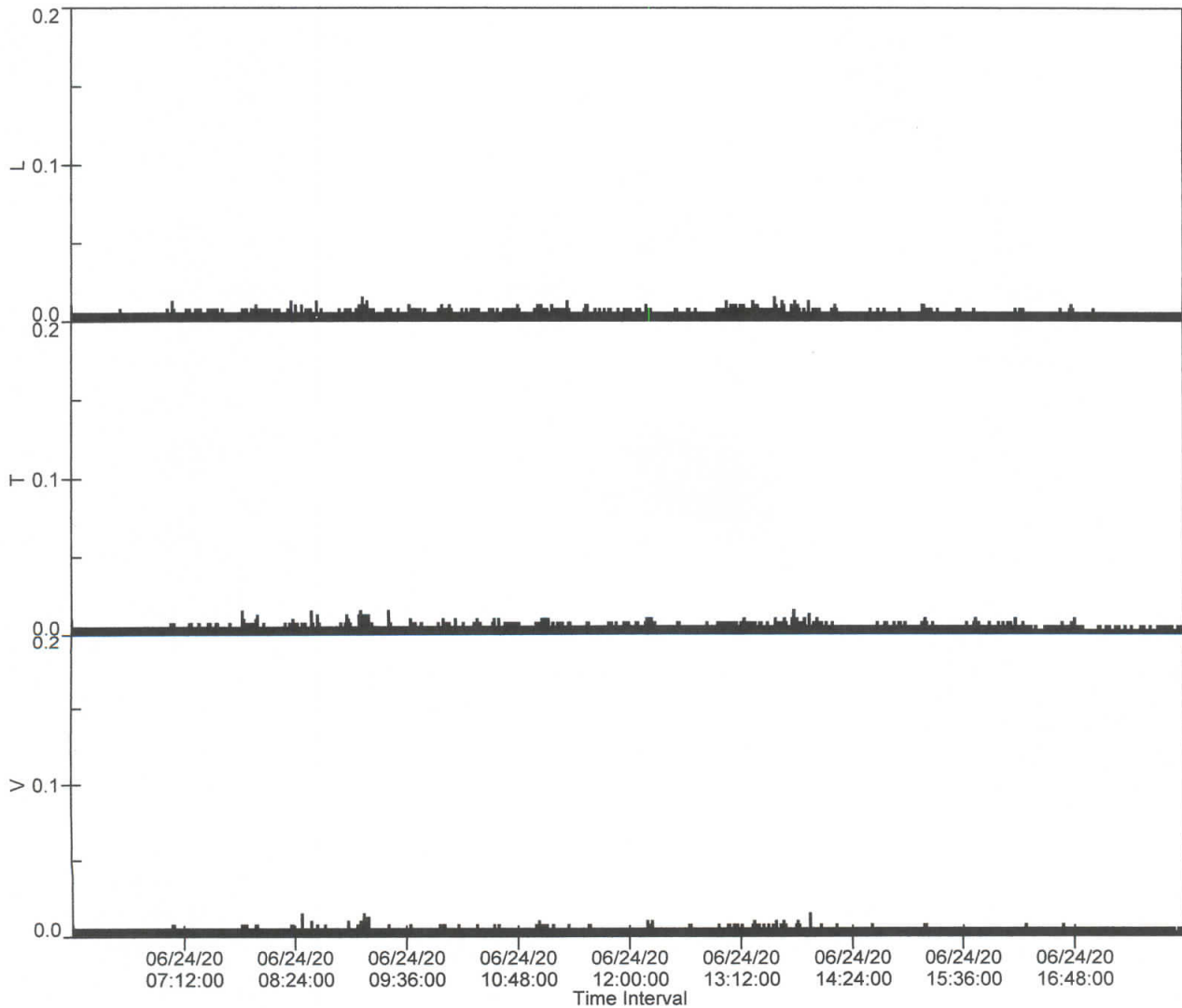
	L	T	V
<b>PPV (in/s)</b>	0.015	0.015	0.015
<b>FREQ (Hz)</b>	166.7	8.3	12.5
<b>Peak Air Pressure:</b>	101 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 4

Record Max PPV: 0.015 in/s Record Max DB: 101 db



**SN:** 8289 v3.66  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 5  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.043	0.028	0.035
<b>FREQ (Hz)</b>	15.2	10.0	13.2
<b>Peak Air Pressure:</b>	101 db		

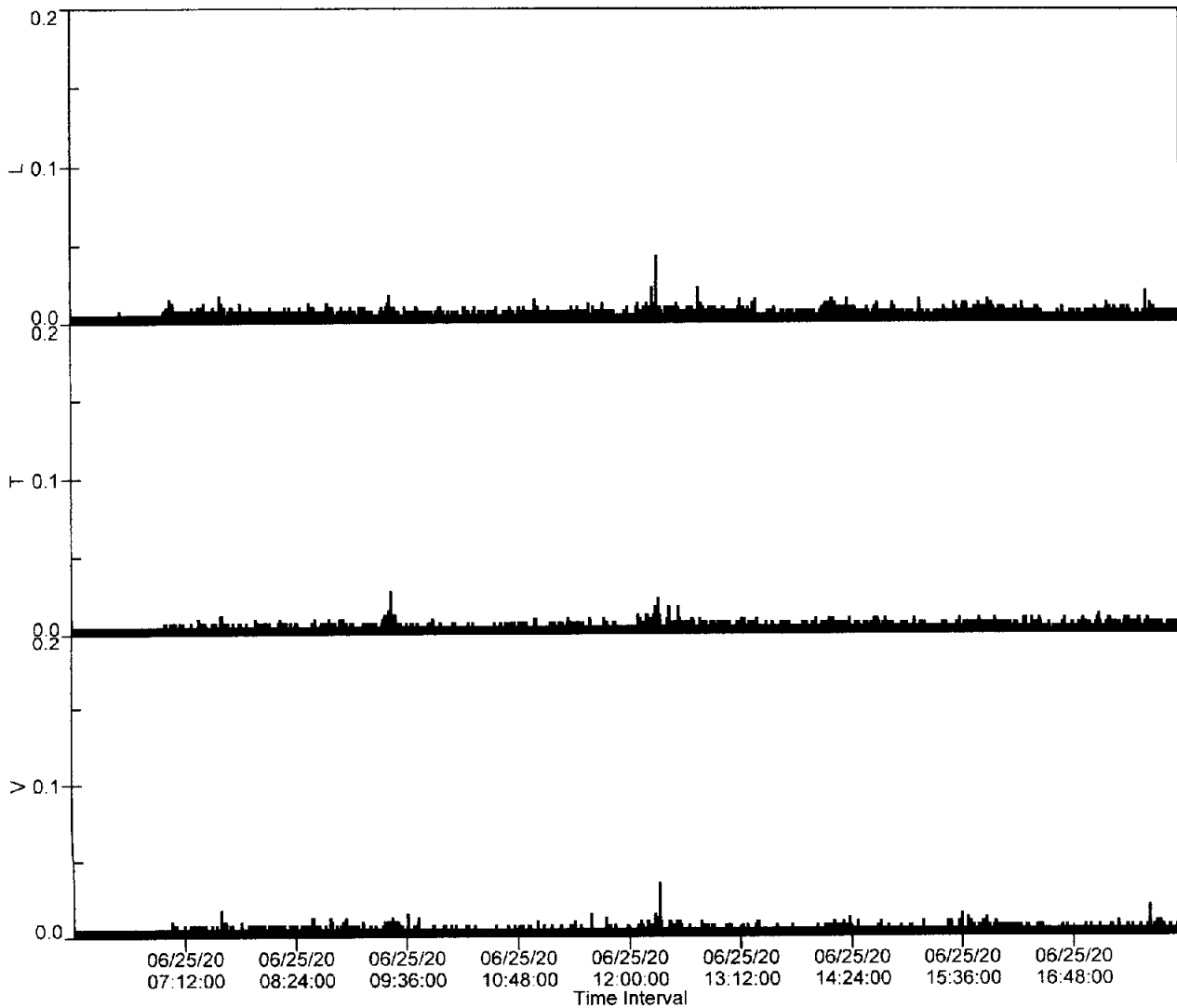
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 5

Record Max PPV: 0.043 in/s Record Max DB: 101 db





**SN:** 8289 v3.66  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 6  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.030	0.030	0.028
FREQ (Hz)	11.4	8.9	10.0
Peak Air Pressure:	97 db		

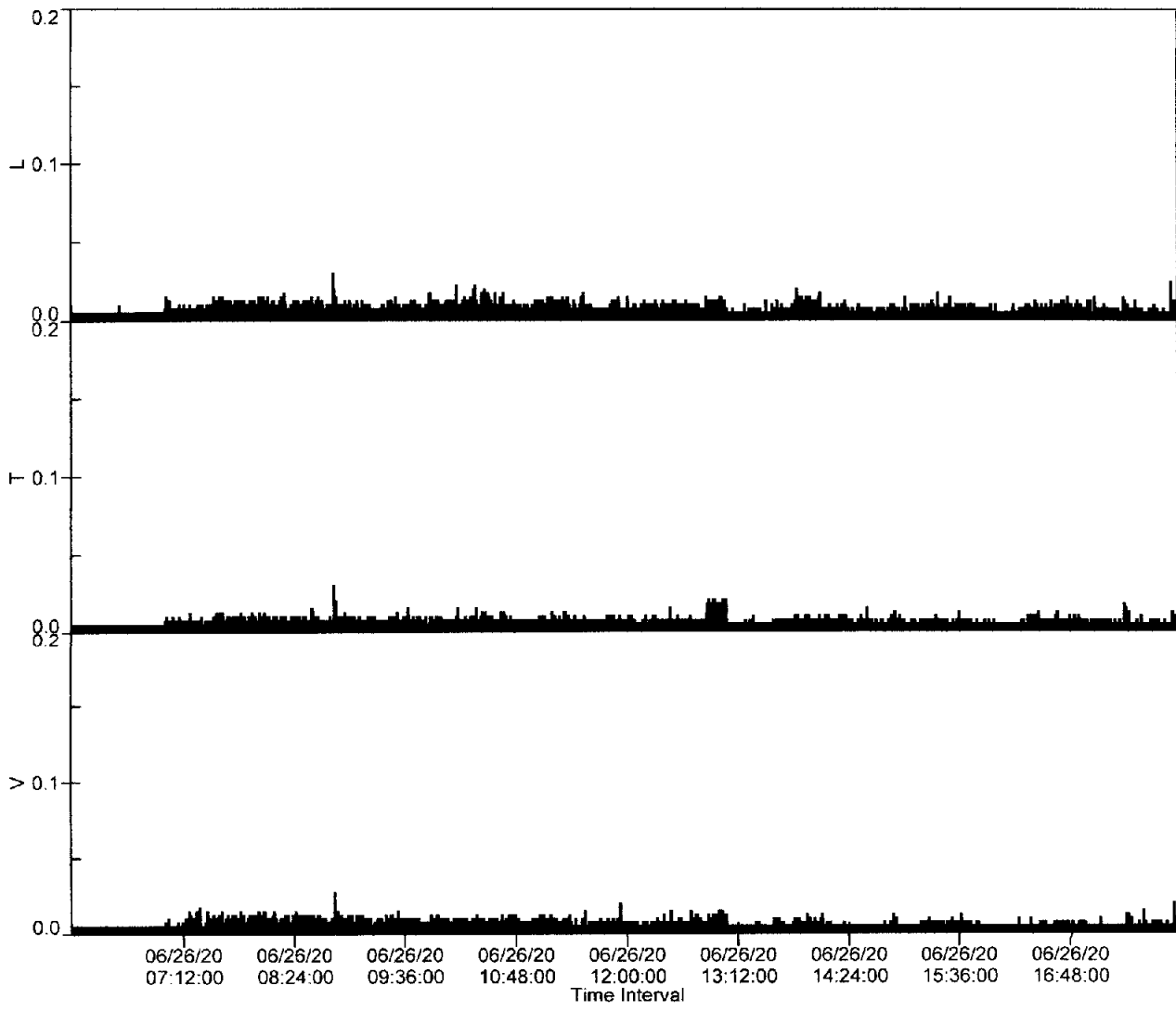
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 6

Record Max PPV: 0.030 in/s Record Max DB: 97 db



**SN:** 8289 v3.66  
**Date:** 06/27/2020 **Time:** 06:01:00  
**Event:** 7  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.015	0.013
<b>FREQ (Hz)</b>	20.8	41.7	250.0
<b>Peak Air Pressure:</b>	100 db		

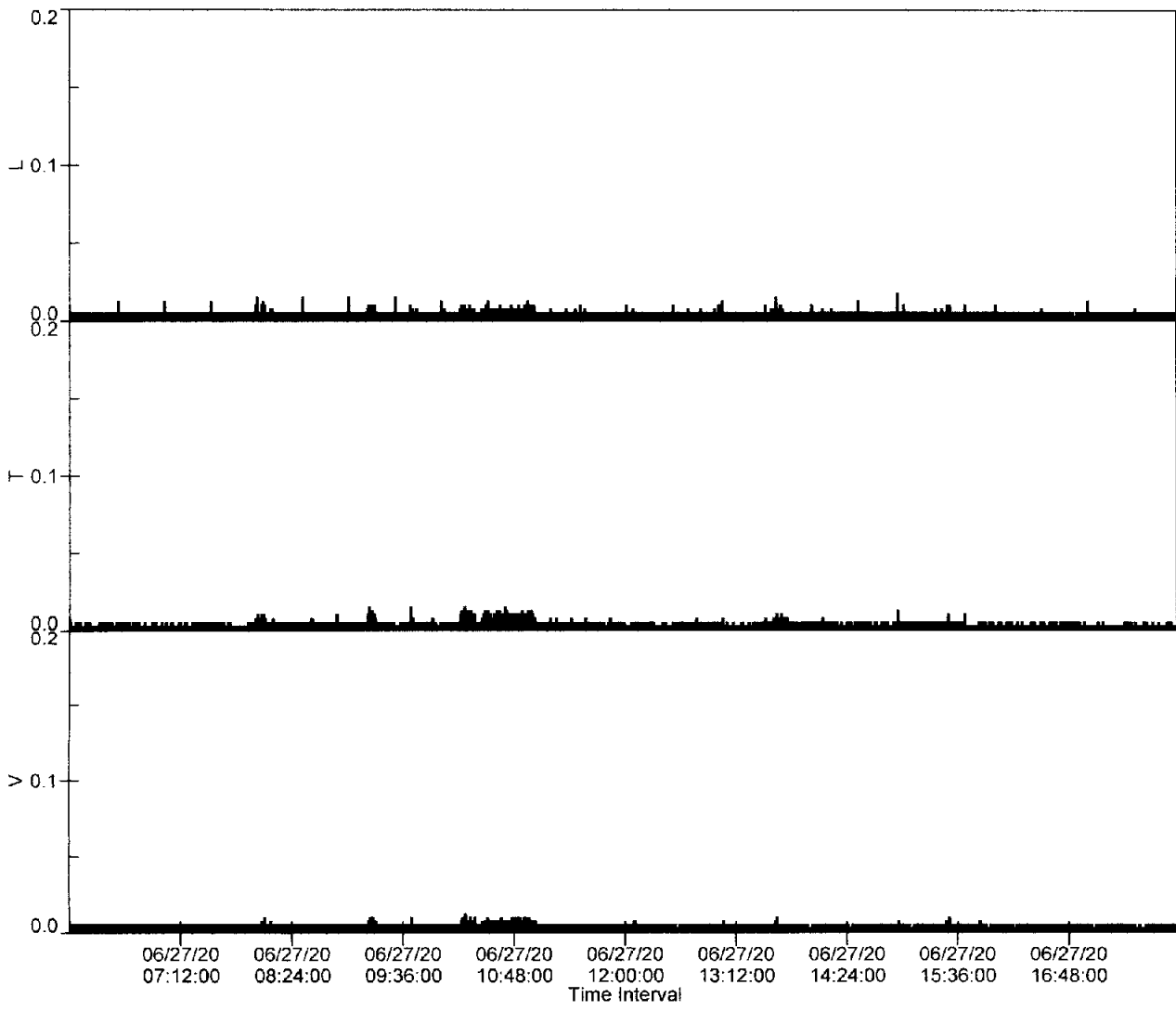
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 7

Record Max PPV: 0.018 in/s Record Max DB: 100 db



**SN:** 8289 v3.66  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 10  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.025	0.025	0.033
FREQ (Hz)	12.2	27.8	12.2
Peak Air Pressure:	97 db		

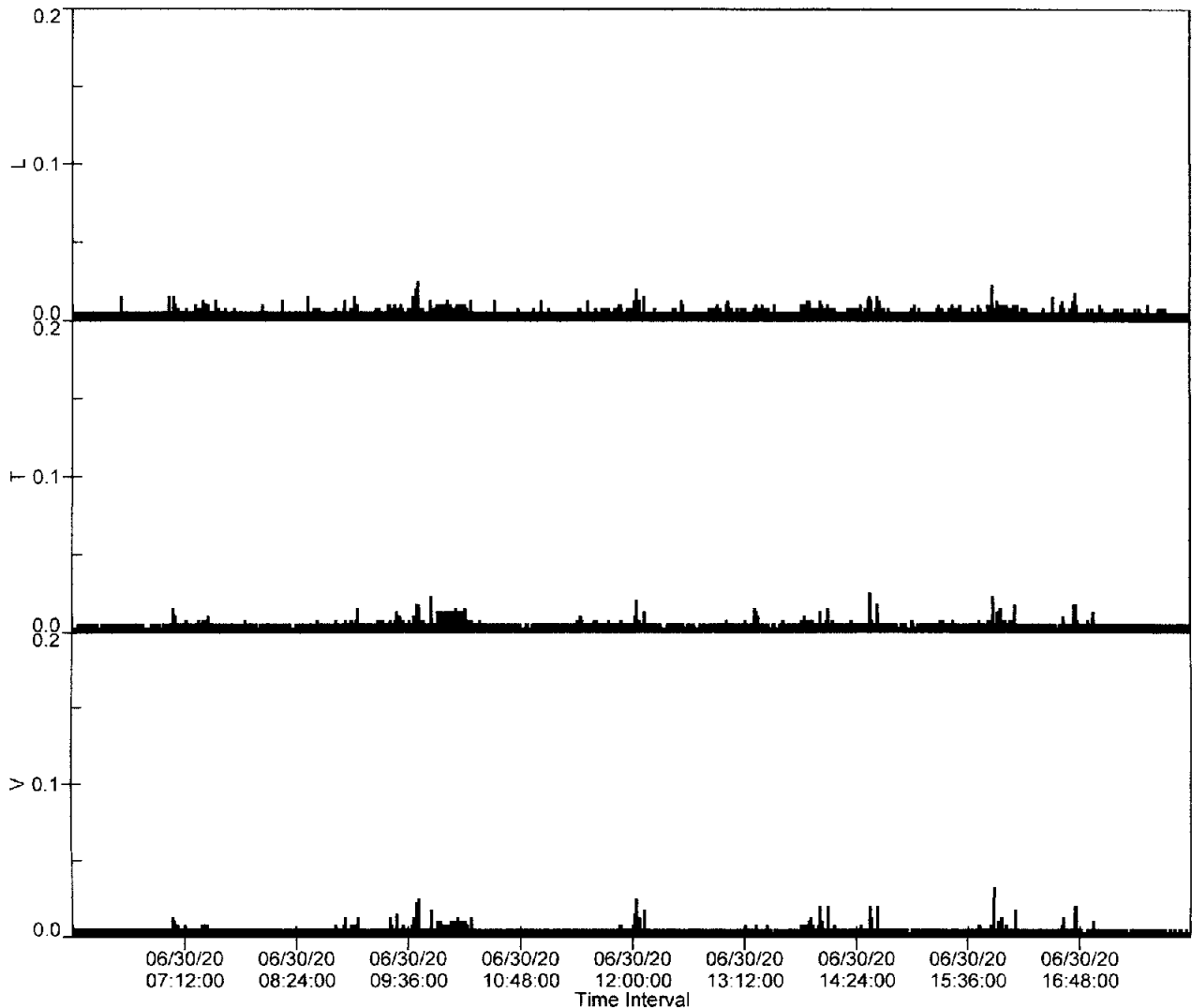
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 10

Record Max PPV: 0.033 in/s Record Max DB: 97 db



**SN:** 8289 v3.66  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 11  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.038	0.040	0.045
<b>FREQ (Hz)</b>	11.4	15.6	12.2
<b>Peak Air Pressure:</b>	92 db		

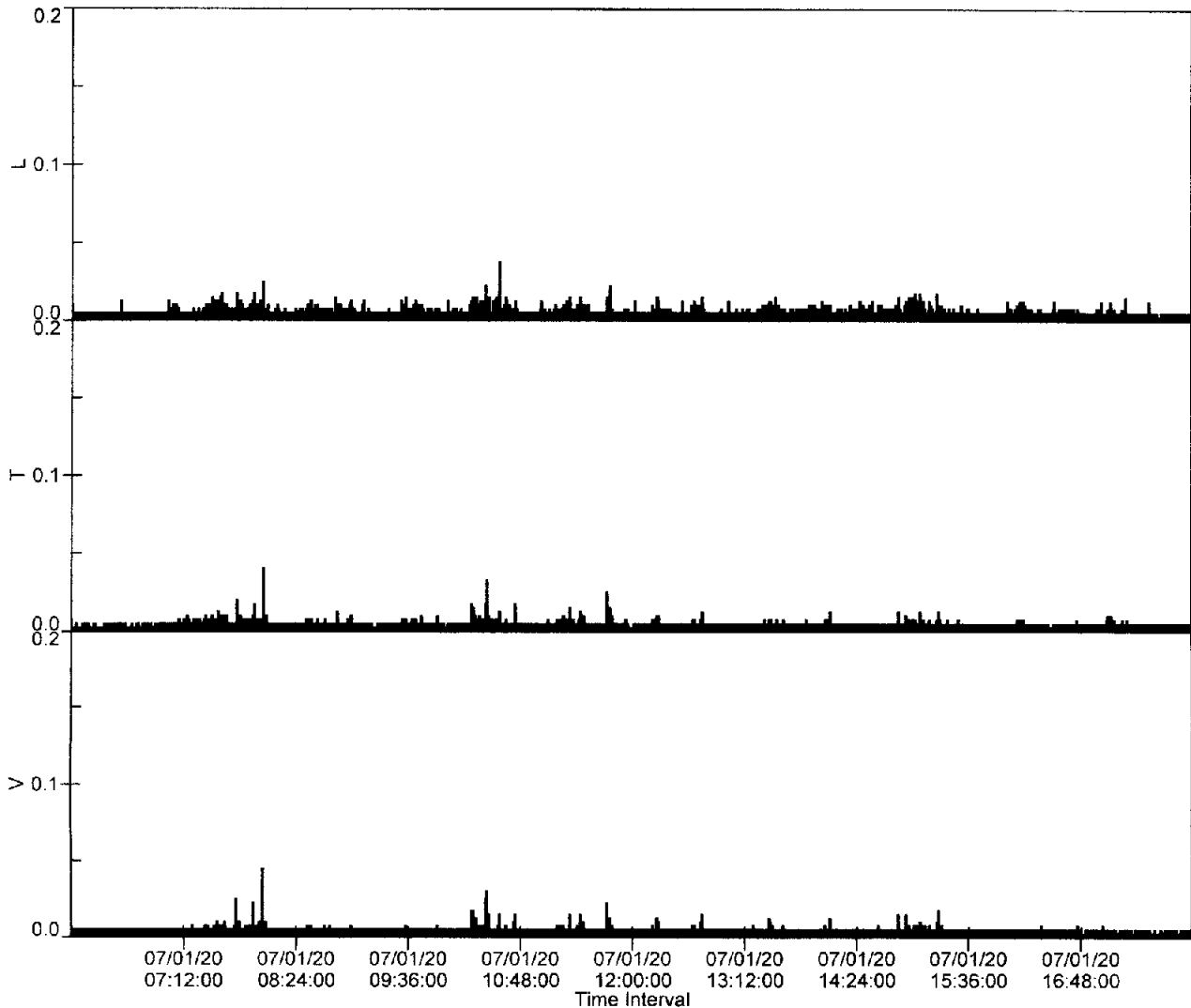
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 11

Record Max PPV: 0.045 in/s Record Max DB: 92 db



**SN:** 8289 v3.66  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 12  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTH INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.023	0.023	0.025
FREQ (Hz)	10.9	13.2	11.6
Peak Air Pressure:	86 db		

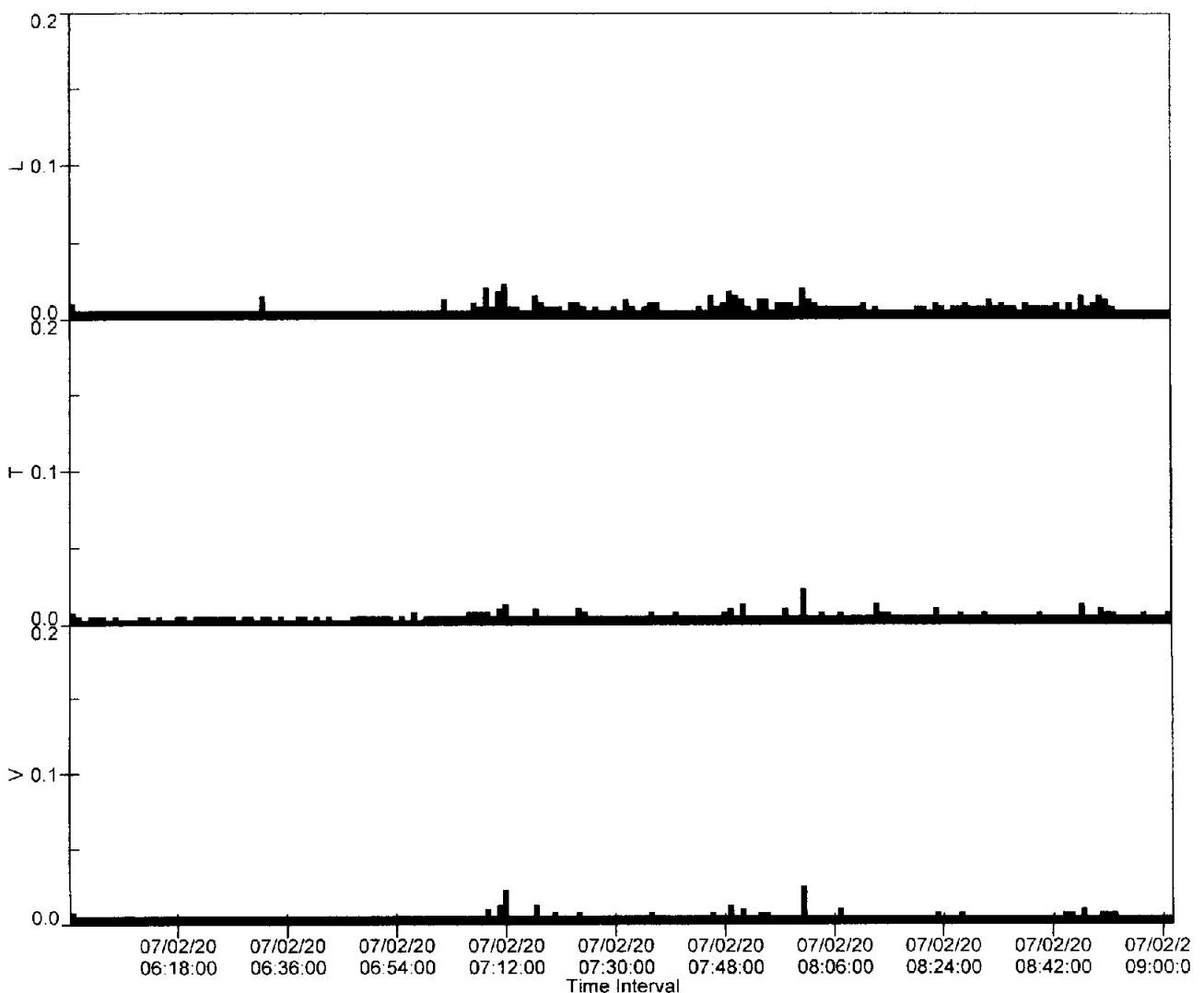
**Recording Time:** 181 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 12

Record Max PPV: 0.025 in/s Record Max DB: 86 db



**SN:** 8289 v3.66  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 13  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.018	0.015	0.010
FREQ (Hz)	8.6	10.2	14.3
Peak Air Pressure:	100 db		

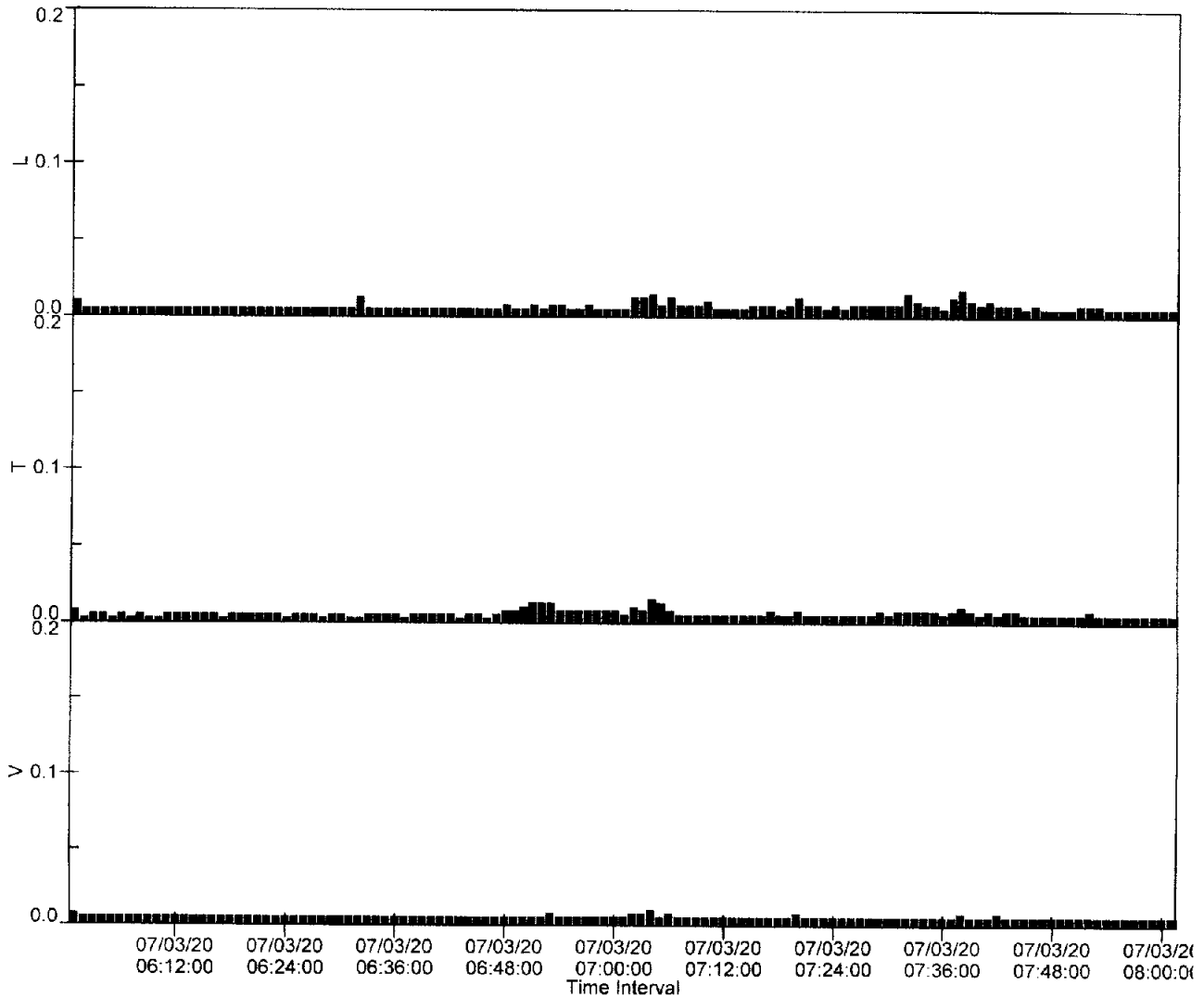
**Recording Time:** 121 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 13

Record Max PPV: 0.018 in/s Record Max DB: 100 db



**SN:** 8289 v3.66  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 15  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #1 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.013	0.008	0.008
FREQ (Hz)	100.0	2.0	.3
Peak Air Pressure:	86 db		

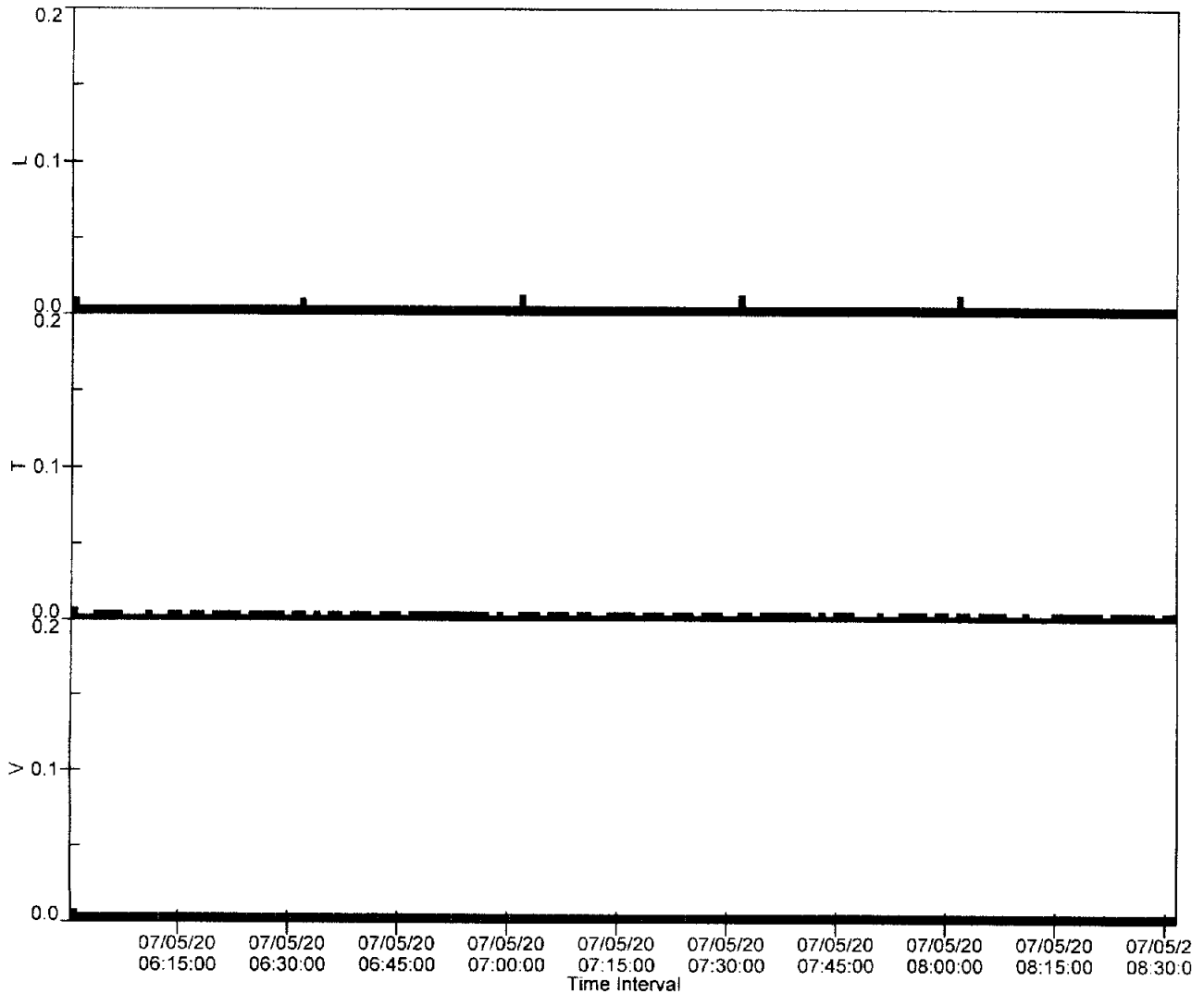
**Recording Time:** 151 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 15

Record Max PPV: 0.013 in/s Record Max DB: 86 db







**SN:** 3559 v2.75  
**Date:** 06/22/2020 **Time:** 06:12:00  
**Event:** 50  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.093	0.108	0.078
FREQ (Hz)	19.2	14.7	15.2
Peak Air Pressure:	76 db		

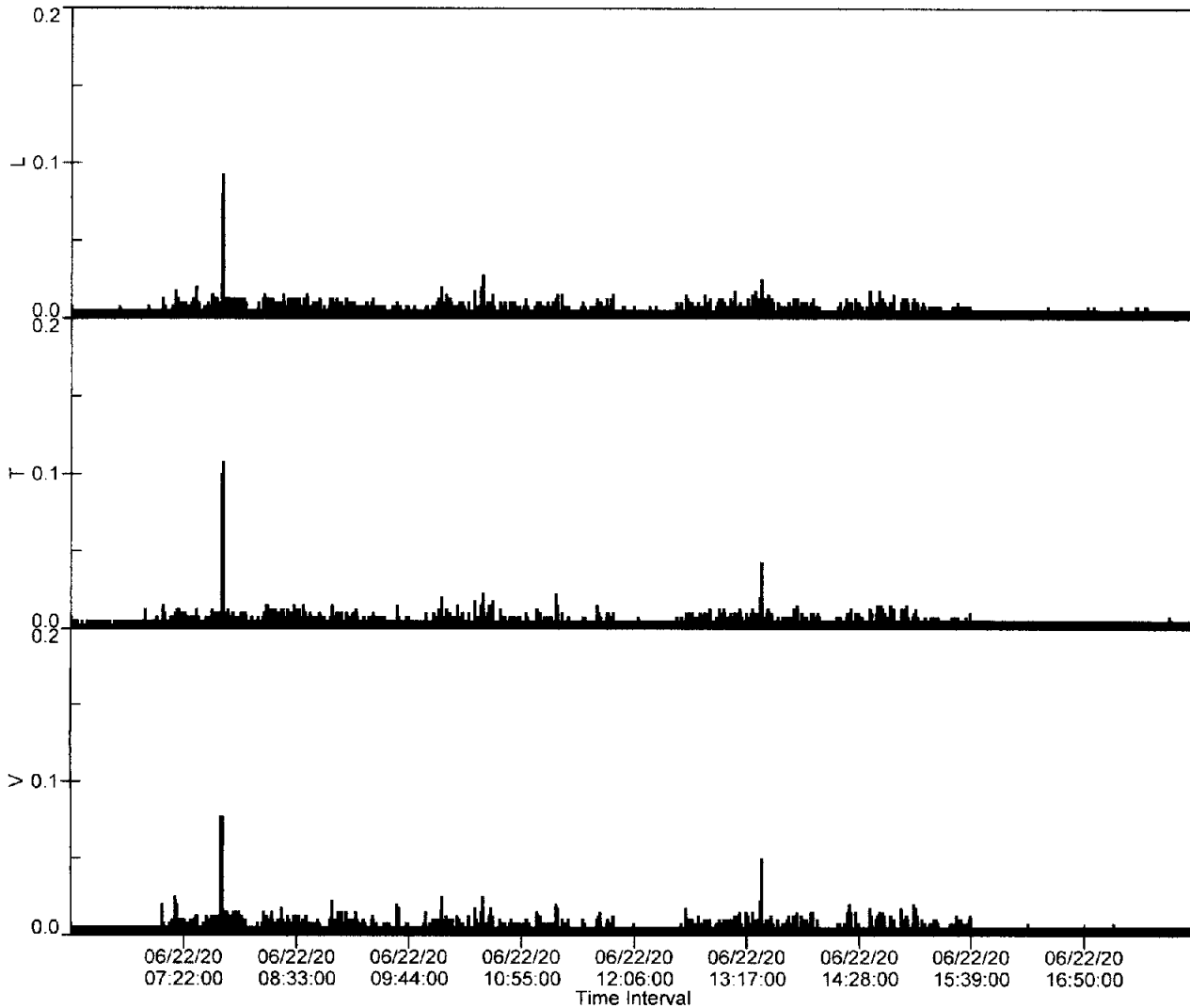
**Recording Time:** 707 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 50

Record Max PPV: 0.108 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 51  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording  
Summary Data**

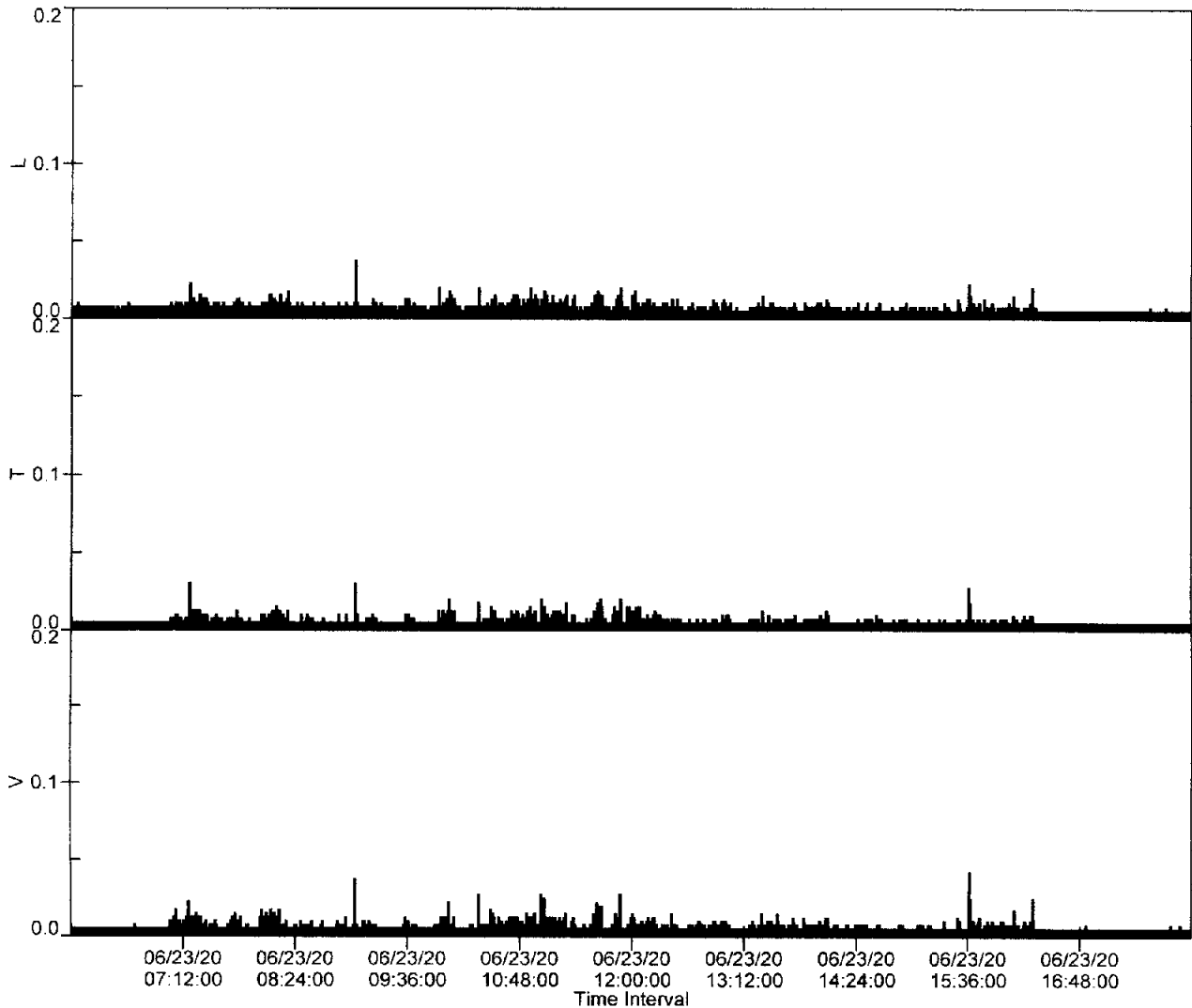
	L	T	V
PPV (in/s)	0.038	0.030	0.043
FREQ (Hz)	13.5	10.9	10.6
Peak Air Pressure: 78 db			
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 51

Record Max PPV: 0.043 in/s Record Max DB: 78 db



**SN:** 3559 v2.75  
**Date:** 06/24/2020 **Time:** 06:01:00  
**Event:** 52  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.020	0.023	0.030
<b>FREQ (Hz)</b>	15.6	41.7	14.3
<b>Peak Air Pressure:</b>	76 db		

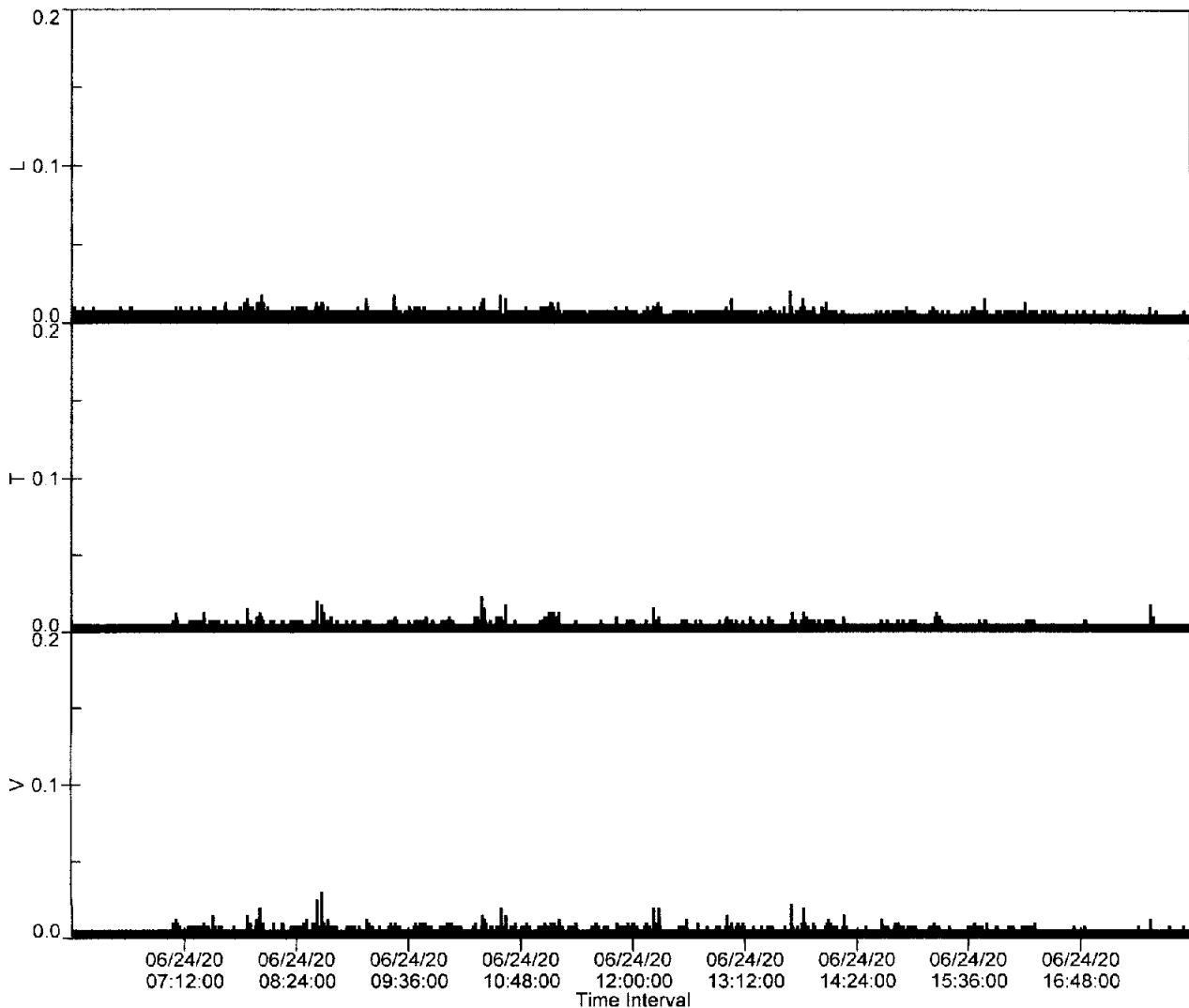
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 52

Record Max PPV: 0.030 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 53  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNSP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.020	0.020	0.035
<b>FREQ (Hz)</b>	12.5	11.1	10.6
<b>Peak Air Pressure:</b>	76 db		

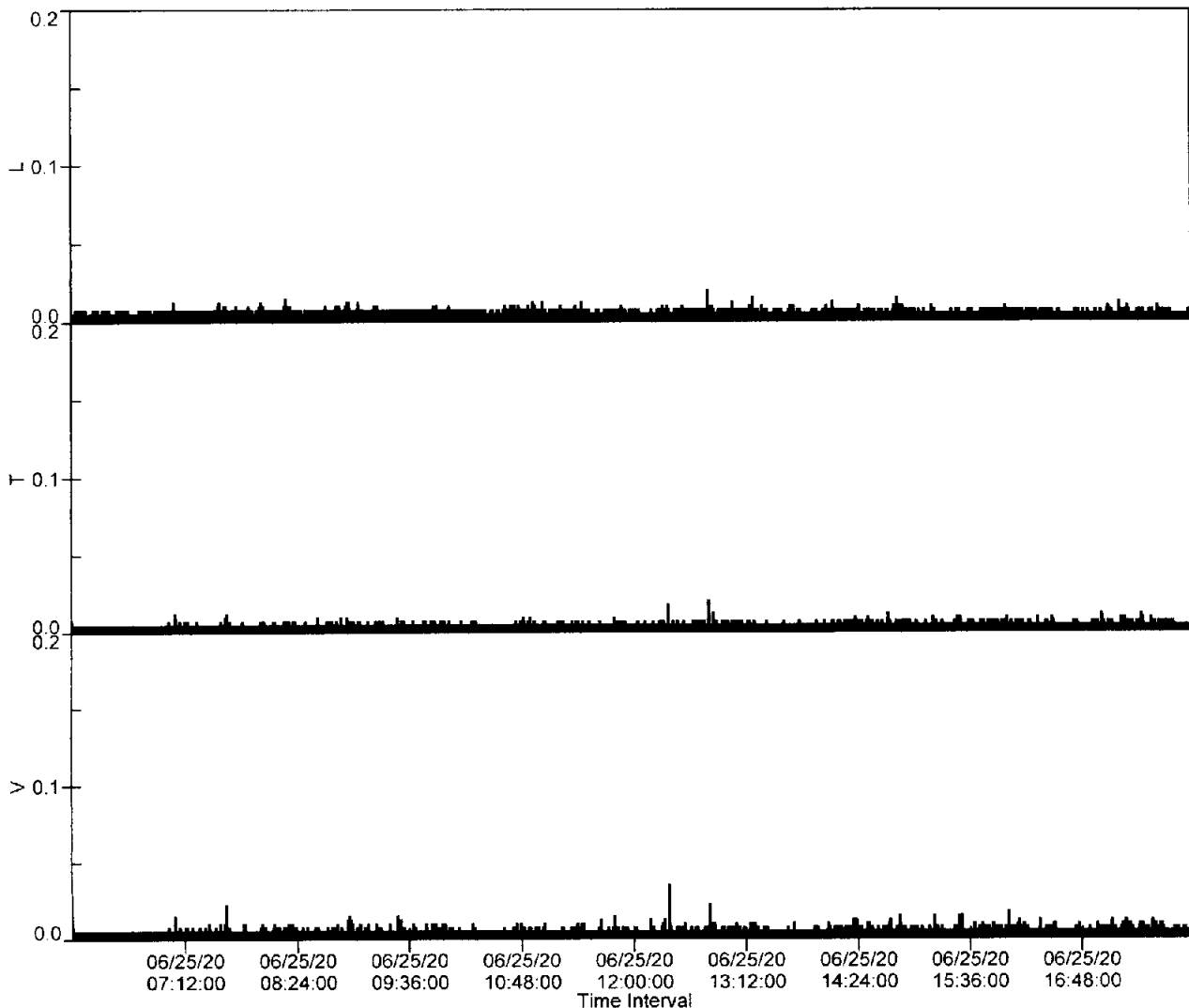
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 53

Record Max PPV: 0.035 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 54  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.028	0.023	0.035
<b>FREQ (Hz)</b>	7.5	12.5	10.4
<b>Peak Air Pressure:</b>	76 db		

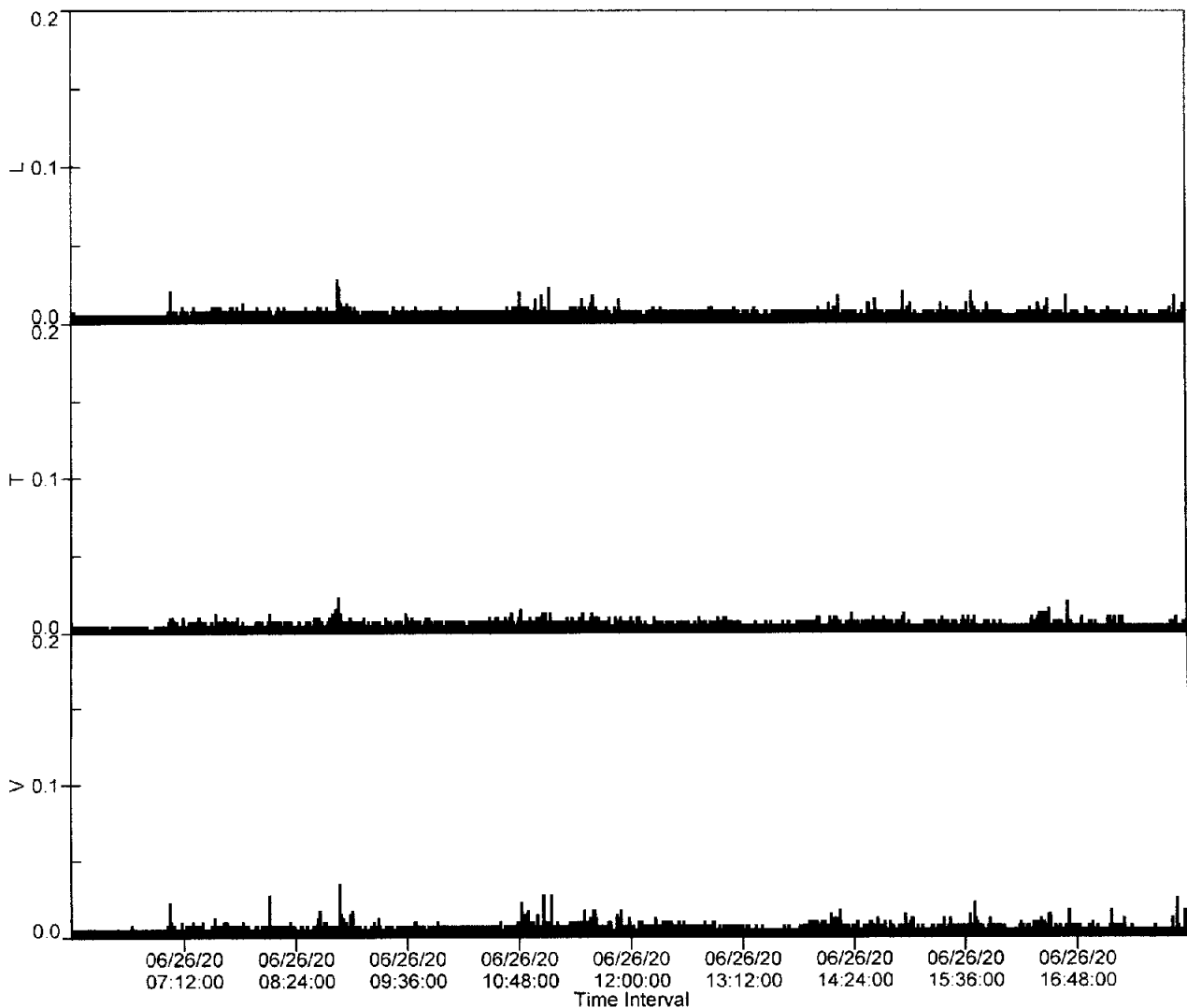
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 54

Record Max PPV: 0.035 in/s Record Max DB: 76 db



SN: 3559 v2.75  
Date: 06/27/2020 Time: 06:01:00  
Event: 55  
Client: BERGER CONST  
Operation: EXCAVATION  
Location: #2 WSNSP  
Distance: 50.  
Operator: CTI INC  
Comment: NORTH MIDDLE UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.023	0.015	0.020
FREQ (Hz)	10.9	10.2	16.7
Peak Air Pressure:	78 db		

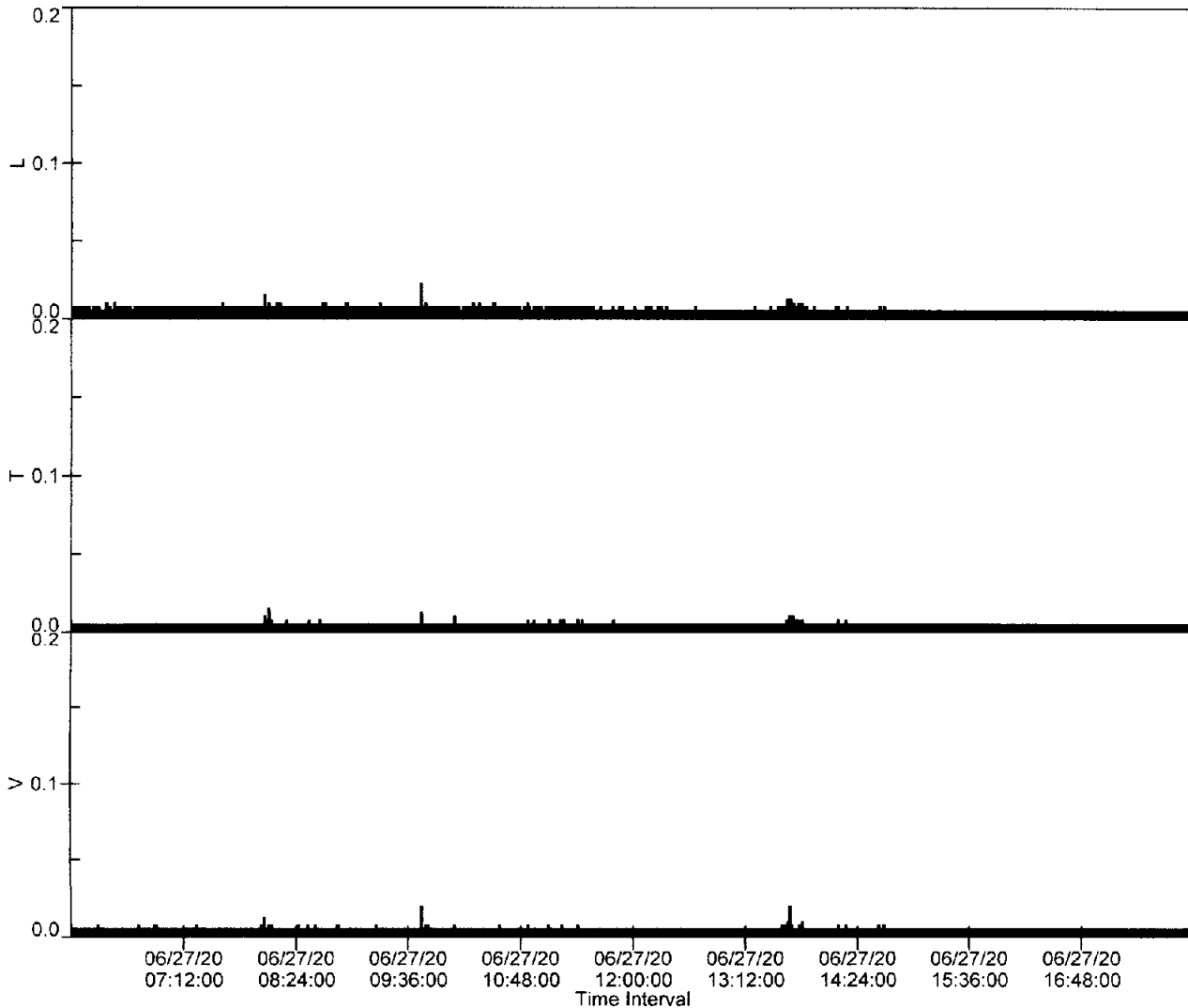
Recording Time: 718 minutes  
Sample Size: 1440  
Interval Size: 60 seconds

**Additional Info:**

Shaketable Calibrated: 03/27/2020  
By: GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 55

Record Max PPV: 0.023 in/s Record Max DB: 78 db



**SN:** 3559 v2.75  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 57  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording  
Summary Data**

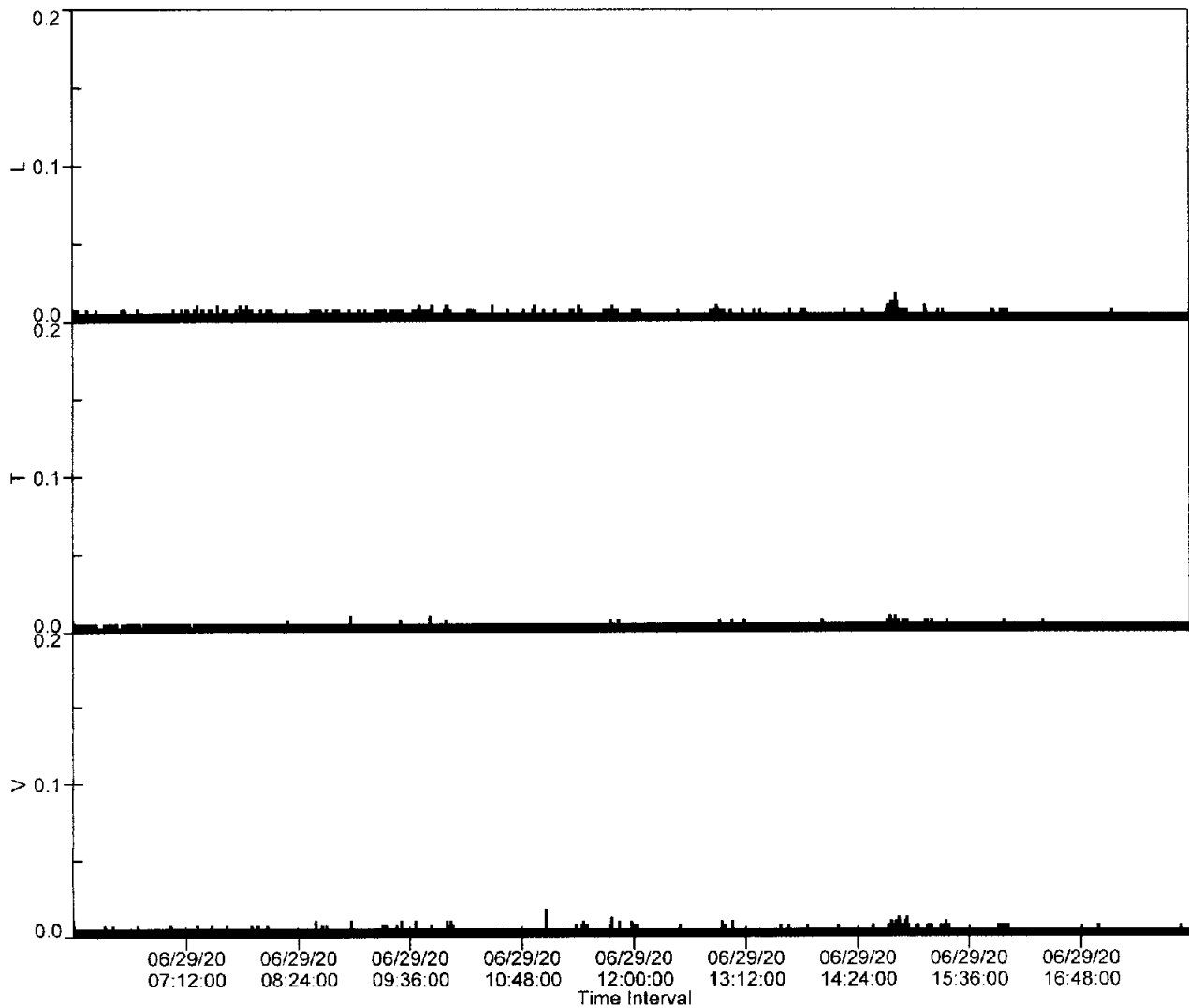
	L	T	V
<b>PPV (in/s)</b>	0.018	0.010	0.018
<b>FREQ (Hz)</b>	8.5	13.2	9.1
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 57

Record Max PPV: 0.018 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 58  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.015	0.010	0.018
<b>FREQ (Hz)</b>	10.4	10.6	2.4
<b>Peak Air Pressure: 81 db</b>			

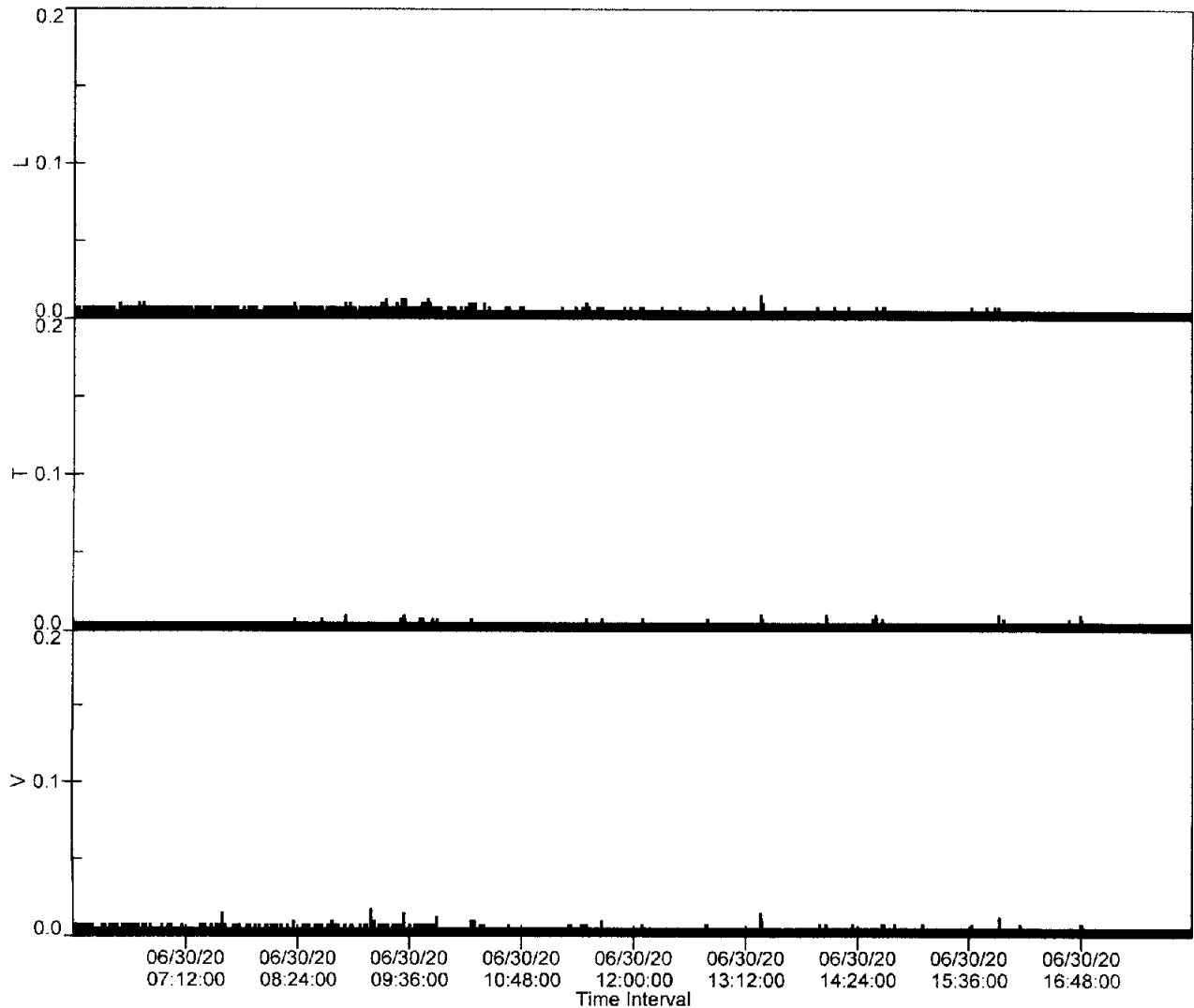
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 58

Record Max PPV: 0.018 m/s Record Max DB: 81 db





**SN:** 3559 v2.75  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 59  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording  
Summary Data**

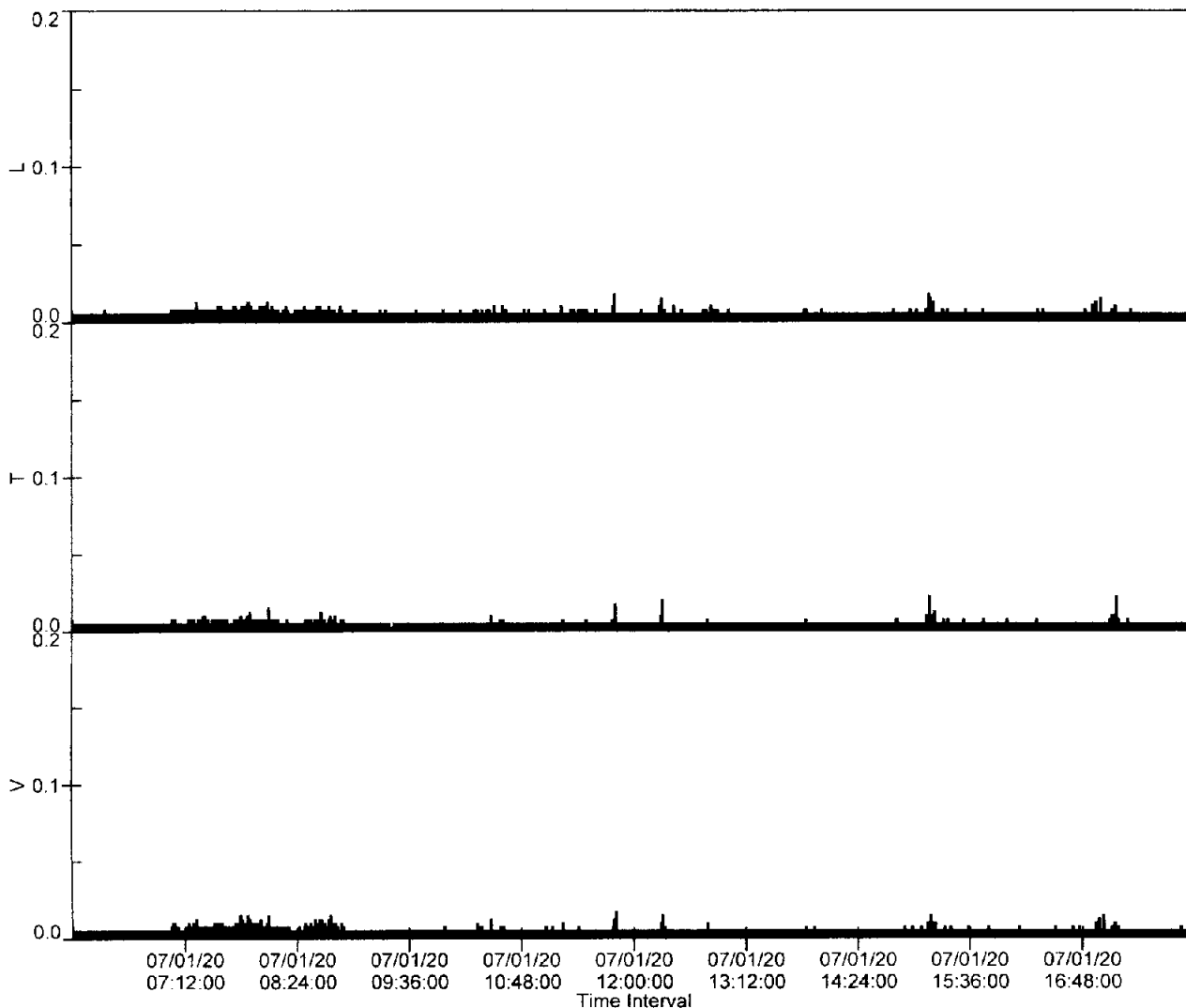
	L	T	V
<b>PPV (in/s)</b>	0.018	0.023	0.018
<b>FREQ (Hz)</b>	9.3	41.7	12.8
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 59

Record Max PPV: 0.023 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 60  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.023	0.023	0.028
<b>FREQ (Hz)</b>	20.0	14.7	17.9
<b>Peak Air Pressure:</b>	78 db		

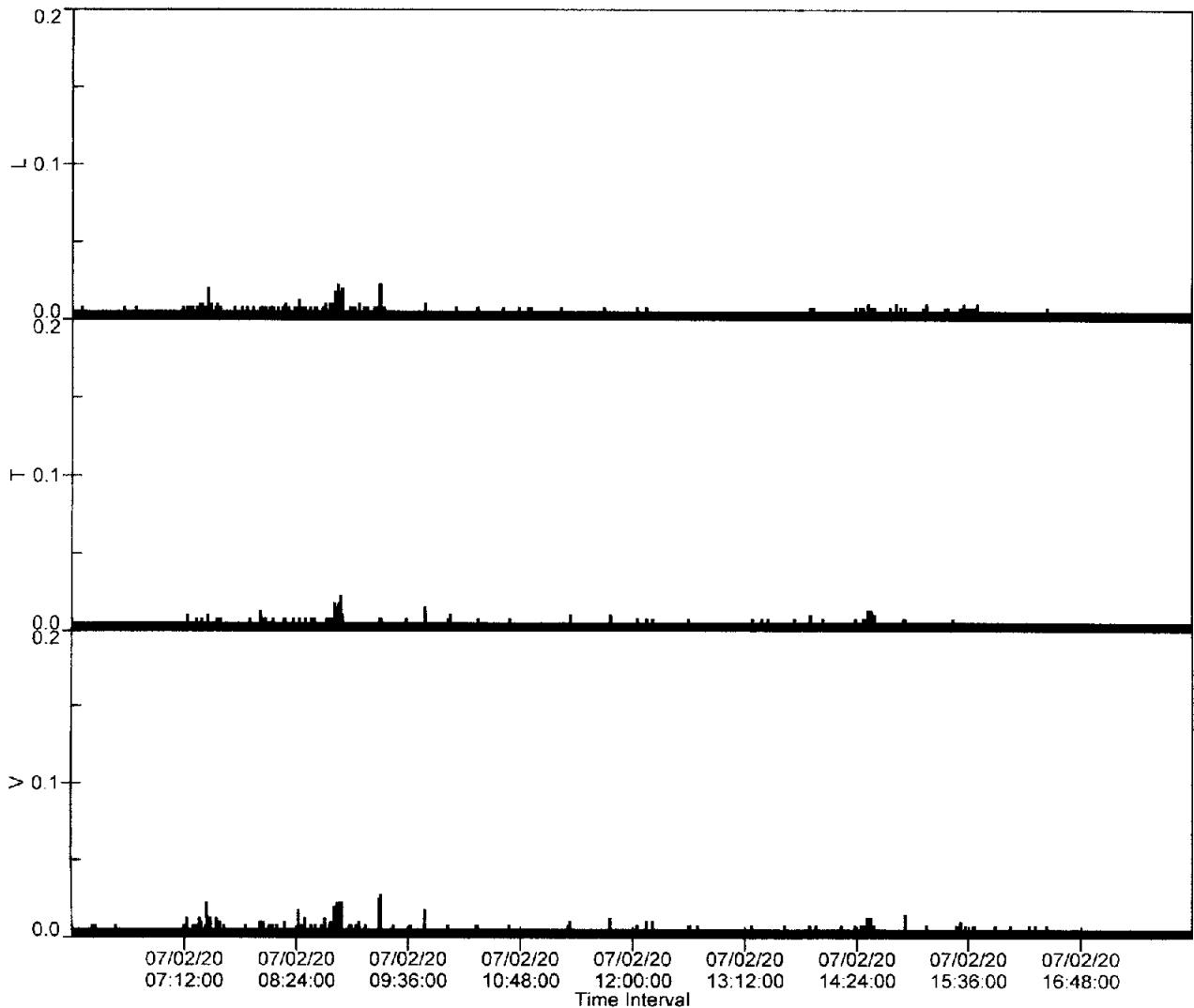
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 60

Record Max PPV: 0.028 in/s Record Max DB: 78 db



**SN:** 3559 v2.75  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 61  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.020	0.020	0.025
<b>FREQ (Hz)</b>	13.5	15.2	12.8
<b>Peak Air Pressure:</b>	76 db		

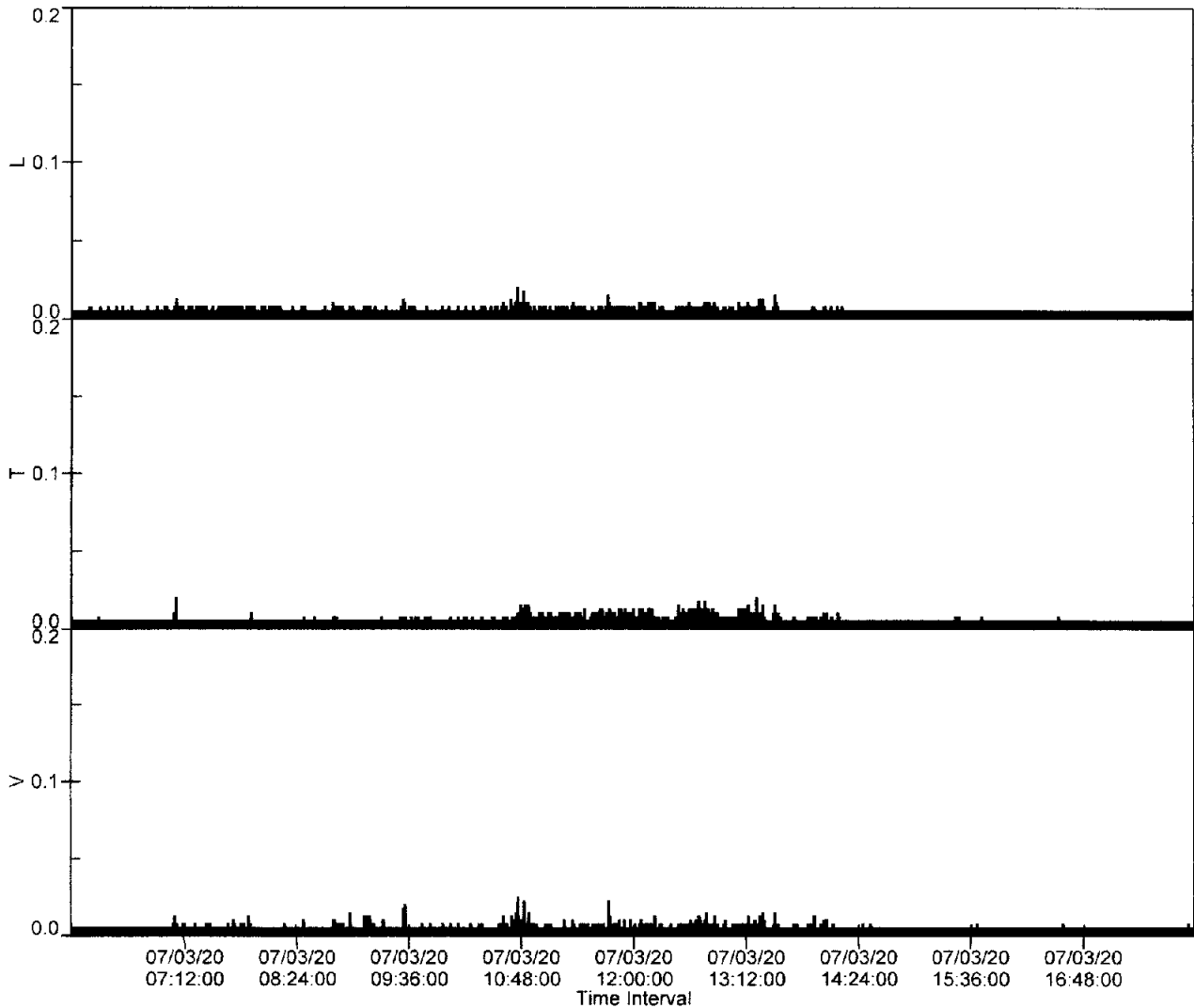
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 61

Record Max PPV: 0.025 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 62  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording  
Summary Data**

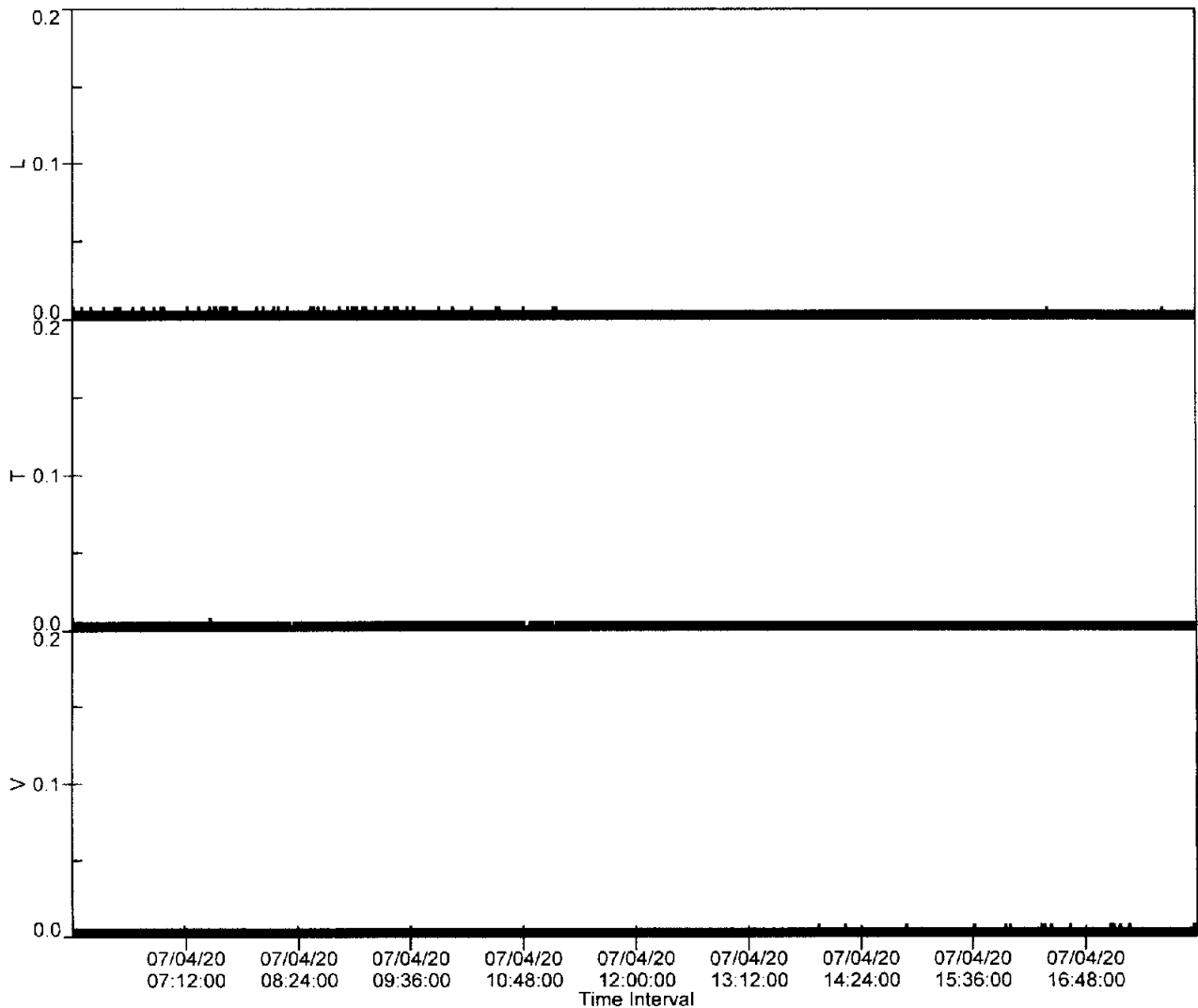
	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	45.5	45.5	.4
<b>Peak Air Pressure:</b>	81 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 62

Record Max PPV: 0.008 in/s Record Max DB: 81 db



**SN:** 3559 v2.75  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 63  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #2 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** NORTH MIDDLE UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	22.7	6.5	.4
<b>Peak Air Pressure:</b>	76 db		

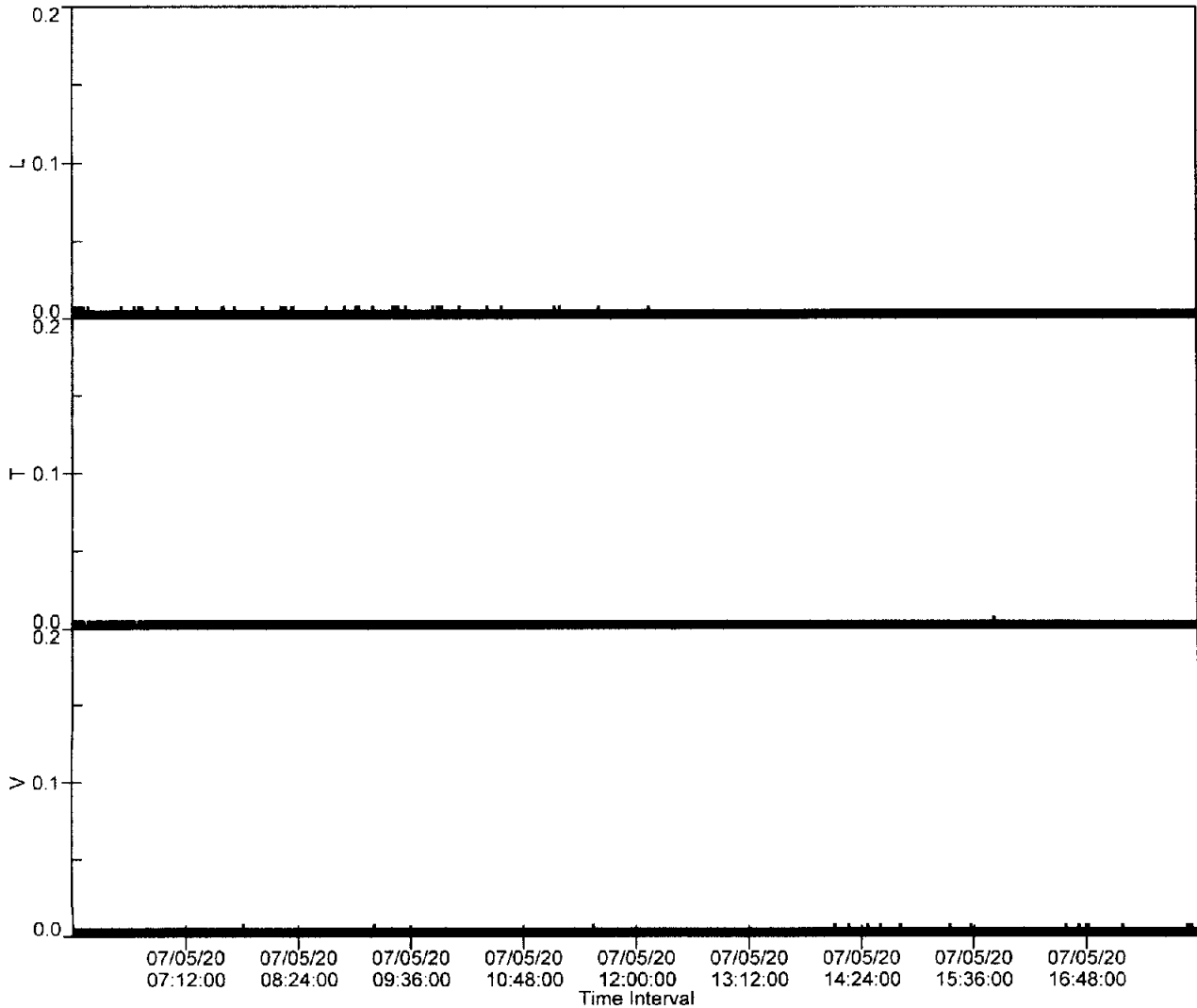
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 63

Record Max PPV: 0.008 in/s Record Max DB: 76 db





**SN:** 3804 v3.22  
**Date:** 06/22/2020 **Time:** 06:19:00  
**Event:** 50  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

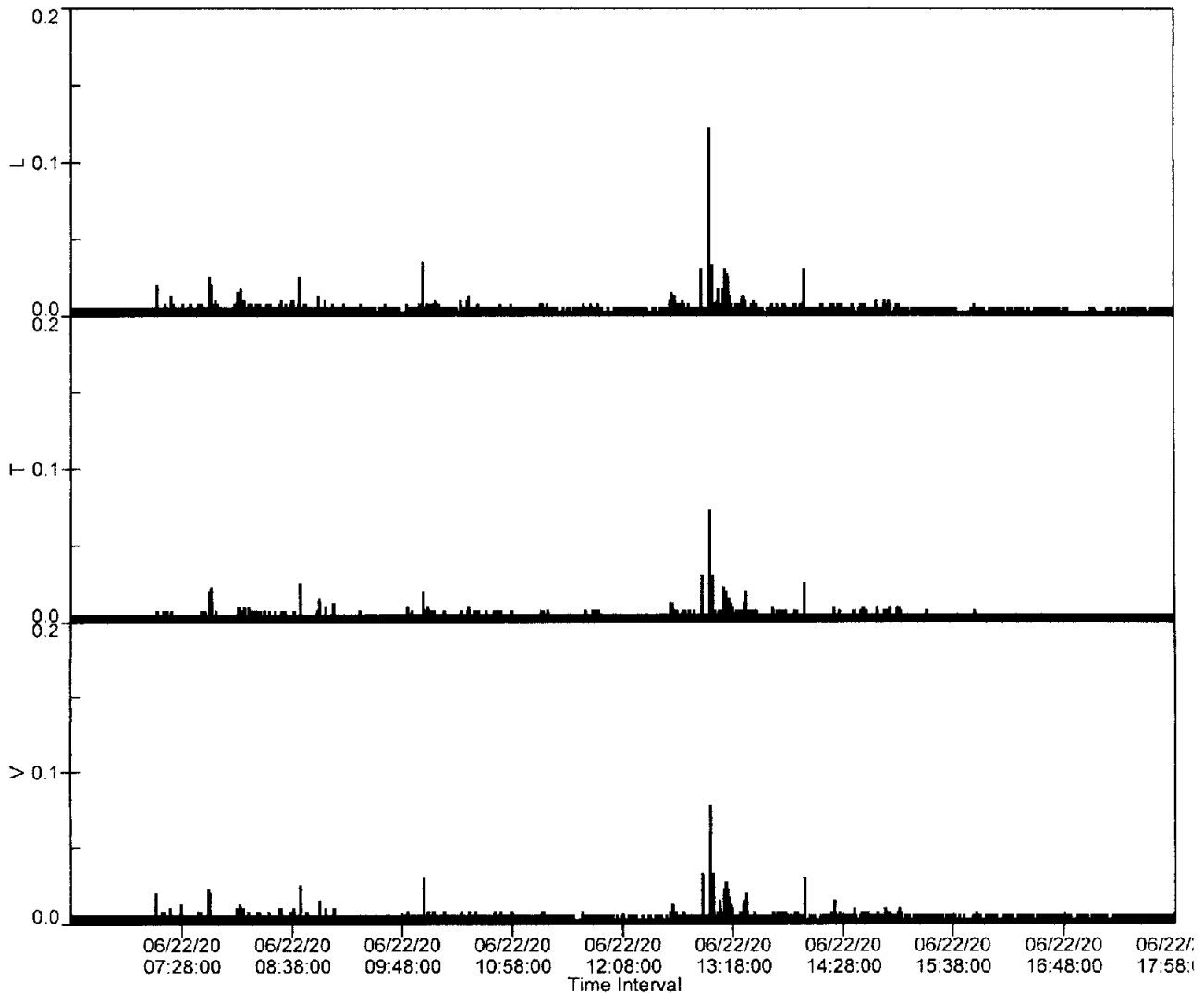
	L	T	V
<b>PPV (in/s)</b>	0.123	0.073	0.078
<b>FREQ (Hz)</b>	21.7	25.0	23.8
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	700 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 50

Record Max PPV: 0.123 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 51  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

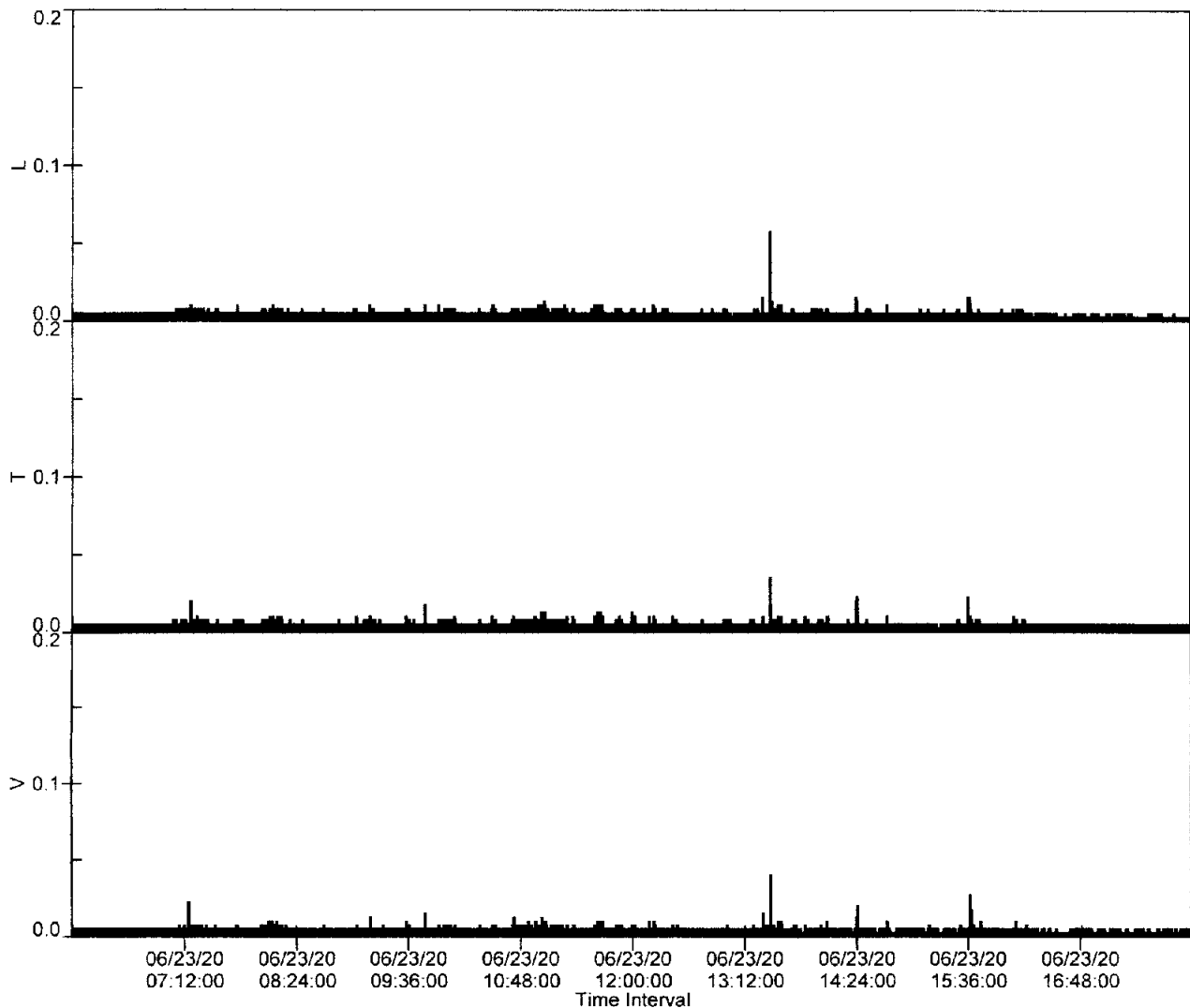
	L	T	V
<b>PPV (in/s)</b>	0.058	0.035	0.040
<b>FREQ (Hz)</b>	17.9	19.2	23.8
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 51

Record Max PPV: 0.058 in/s Record Max DB: 76 db





**SN:** 3804 v3.22  
**Date:** 06/24/2020 **Time:** 06:01:00  
**Event:** 52  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.028	0.025	0.023
<b>FREQ (Hz)</b>	13.2	15.2	15.6
<b>Peak Air Pressure:</b>	76 db		

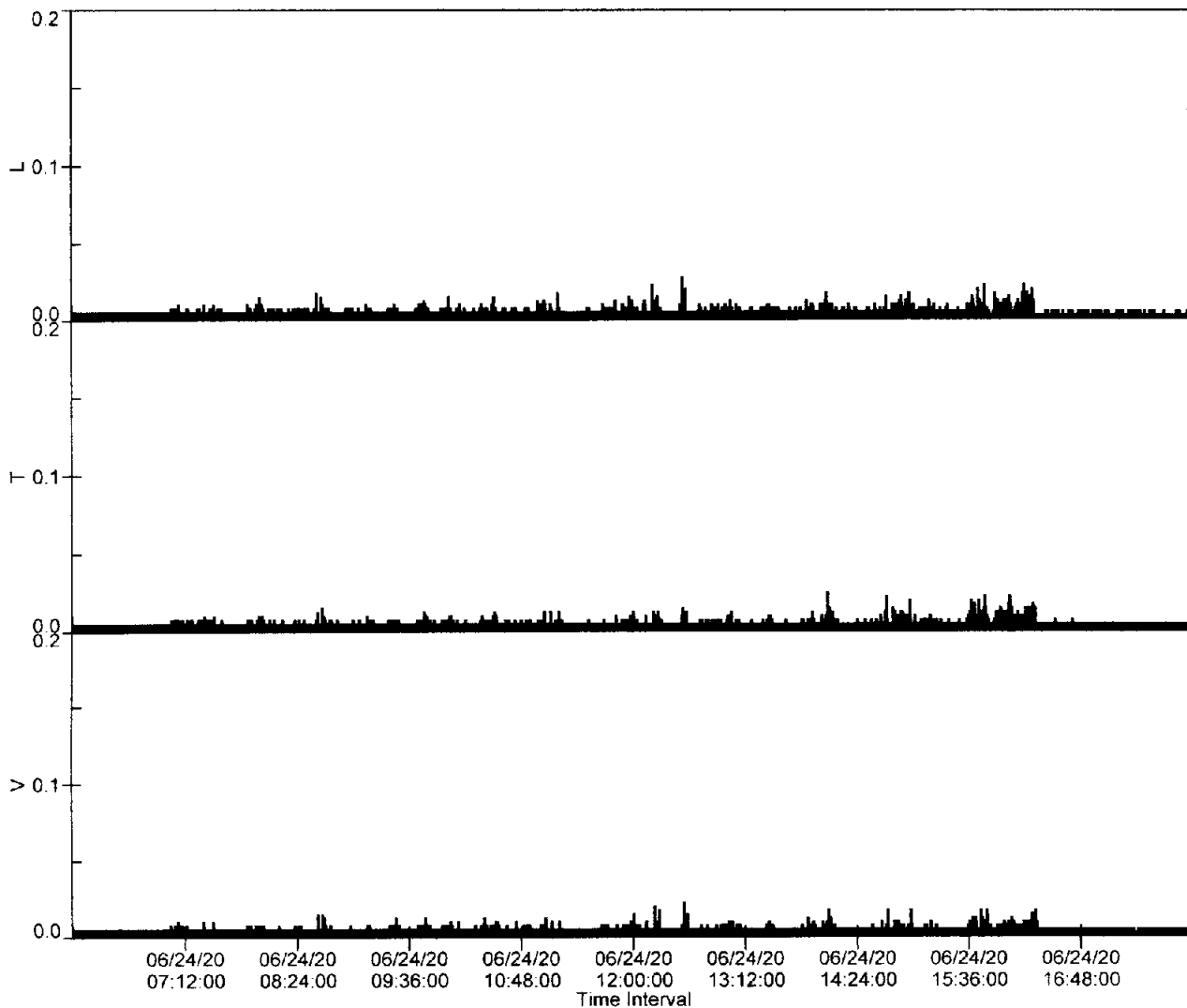
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 52

Record Max PPV: 0.028 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 53  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.065	0.063	0.068
FREQ (Hz)	12.2	13.2	11.6
Peak Air Pressure:	76 db		

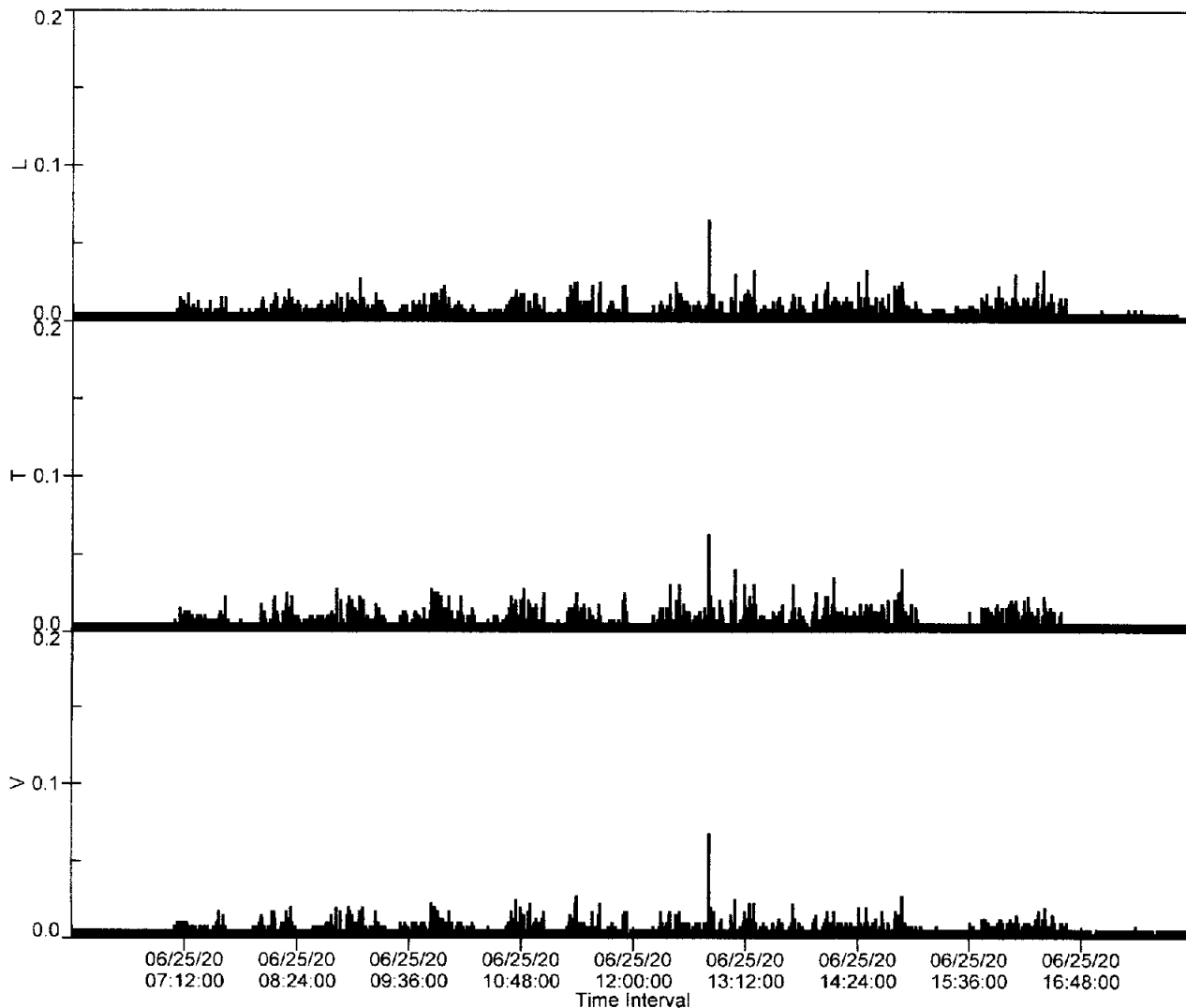
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 53

Record Max PPV: 0.068 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 54  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording**

**Summary Data**

	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.048	0.045	0.035
<b>FREQ (Hz)</b>	20.8	26.3	10.6
<b>Peak Air Pressure: 76 db</b>			

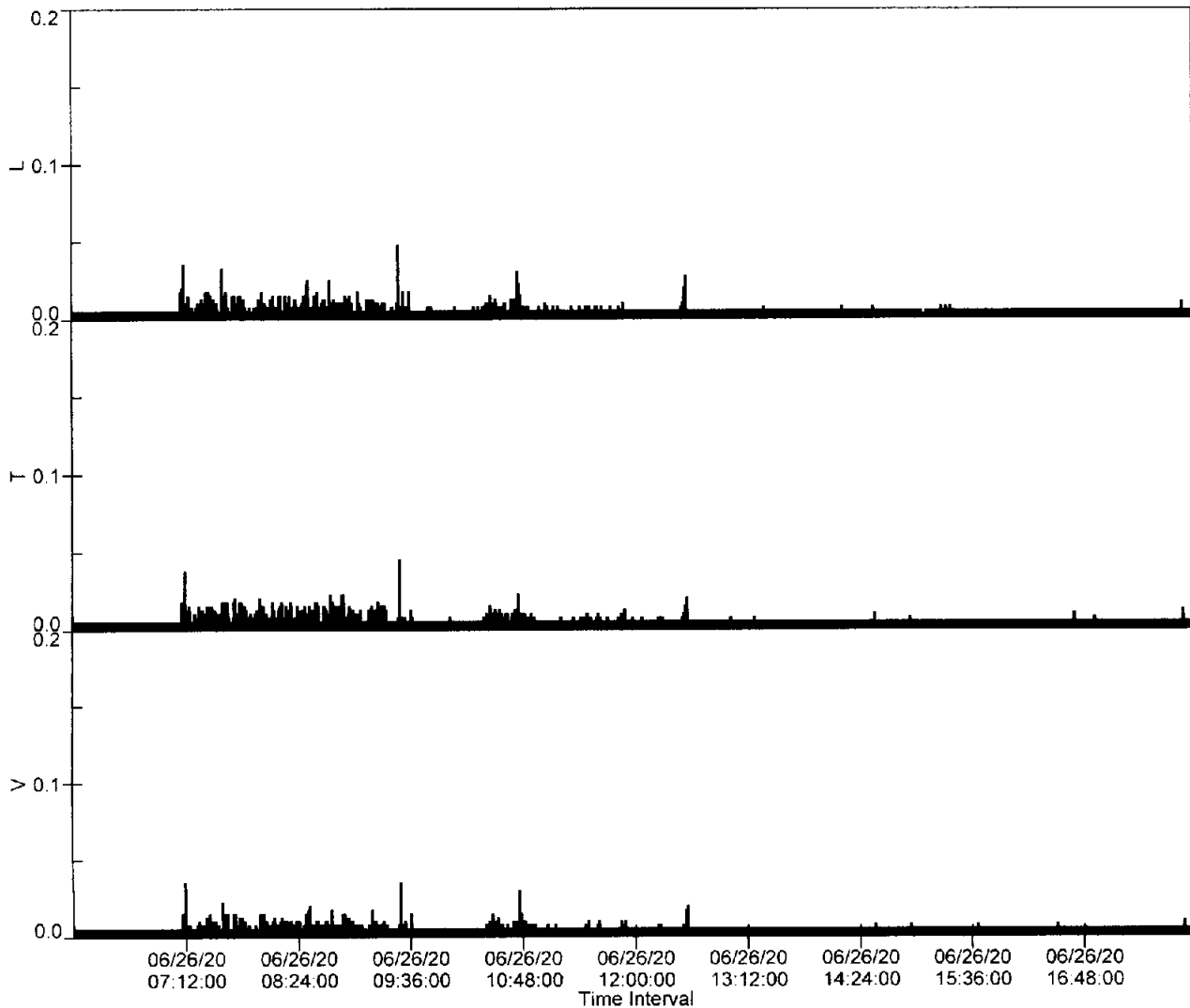
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 54

Record Max PPV: 0.048 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 06/27/2020 **Time:** 06:01:00  
**Event:** 55  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.163	0.190	0.140
<b>FREQ (Hz)</b>	22.7	23.8	29.4
<b>Peak Air Pressure:</b>	76 db		

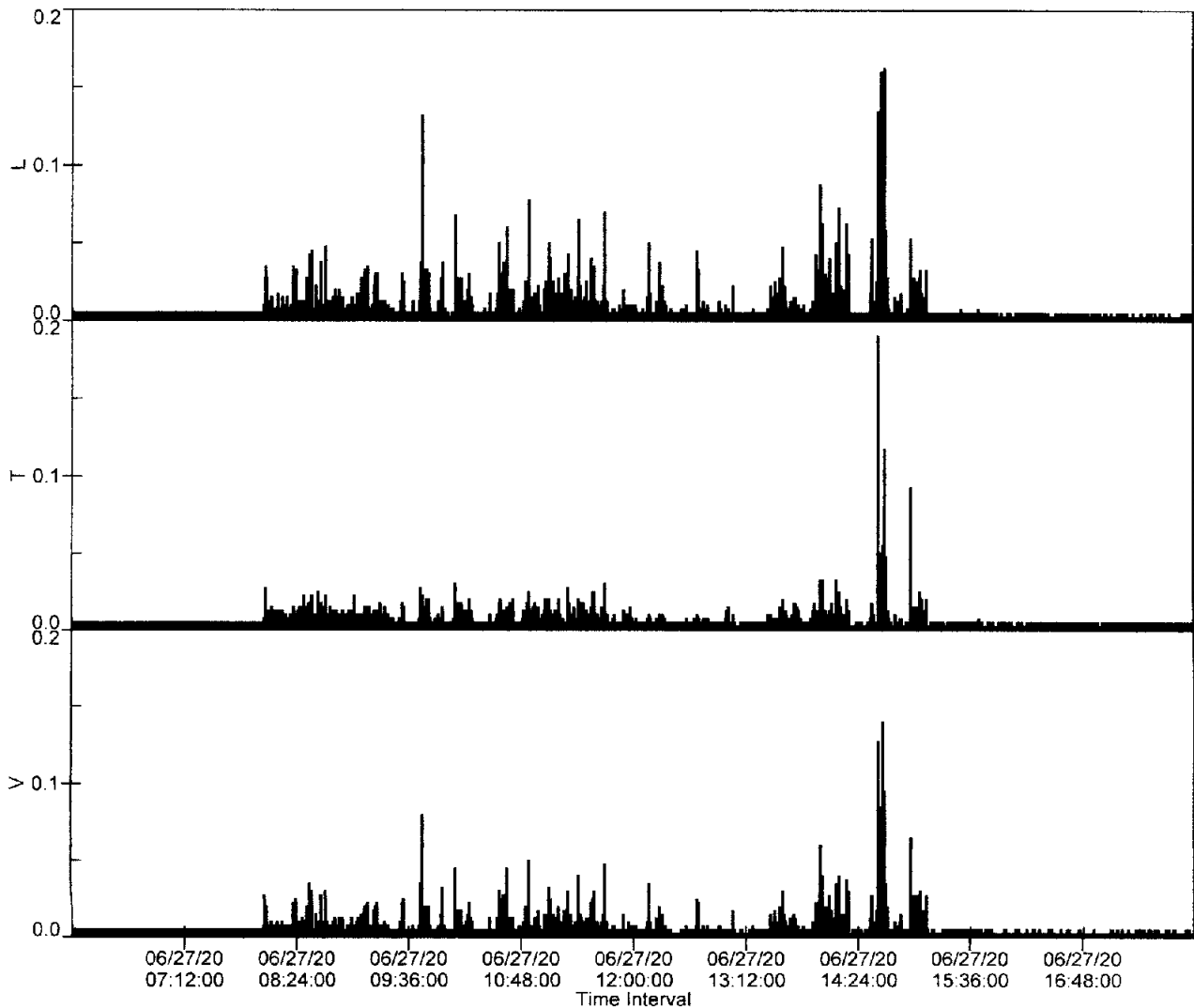
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 55

Record Max PPV: 0.190 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 06/28/2020 **Time:** 06:01:00  
**Event:** 56  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

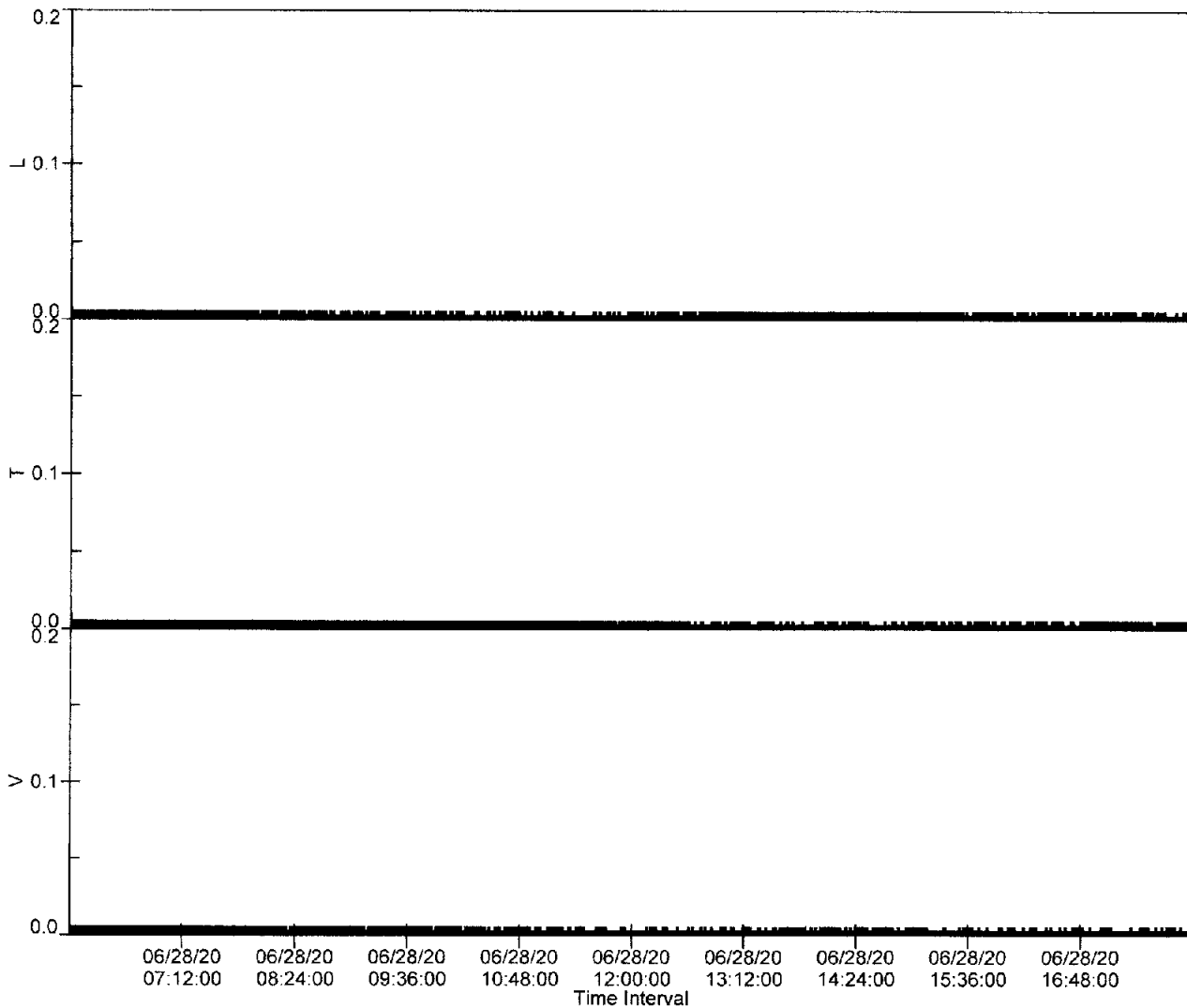
	L	T	V
<b>PPV (in/s)</b>	0.008	0.010	0.008
<b>FREQ (Hz)</b>	.3	2.0	.3
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 56

Record Max PPV: 0.010 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 58  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTH INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.183	0.188	0.155
<b>FREQ (Hz)</b>	25.0	19.2	26.3
<b>Peak Air Pressure:</b>	78 db		

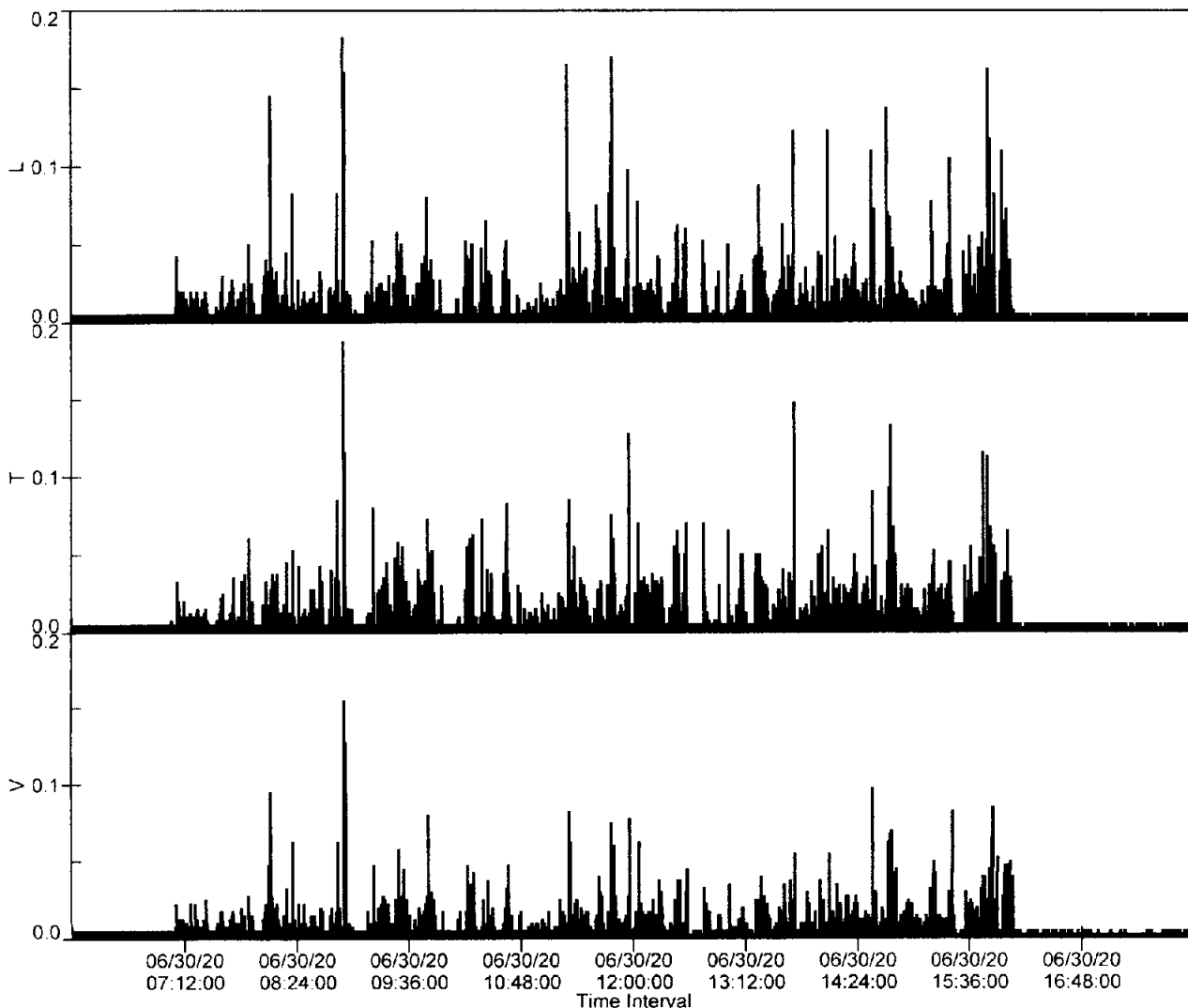
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 58

Record Max PPV: 0.188 in/s Record Max DB: 78 db



**SN:** 3804 v3.22  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 59  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording**

**Summary Data**

	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.215	0.175	0.125
<b>FREQ (Hz)</b>	19.2	26.3	18.5
<b>Peak Air Pressure:</b>	76 db		

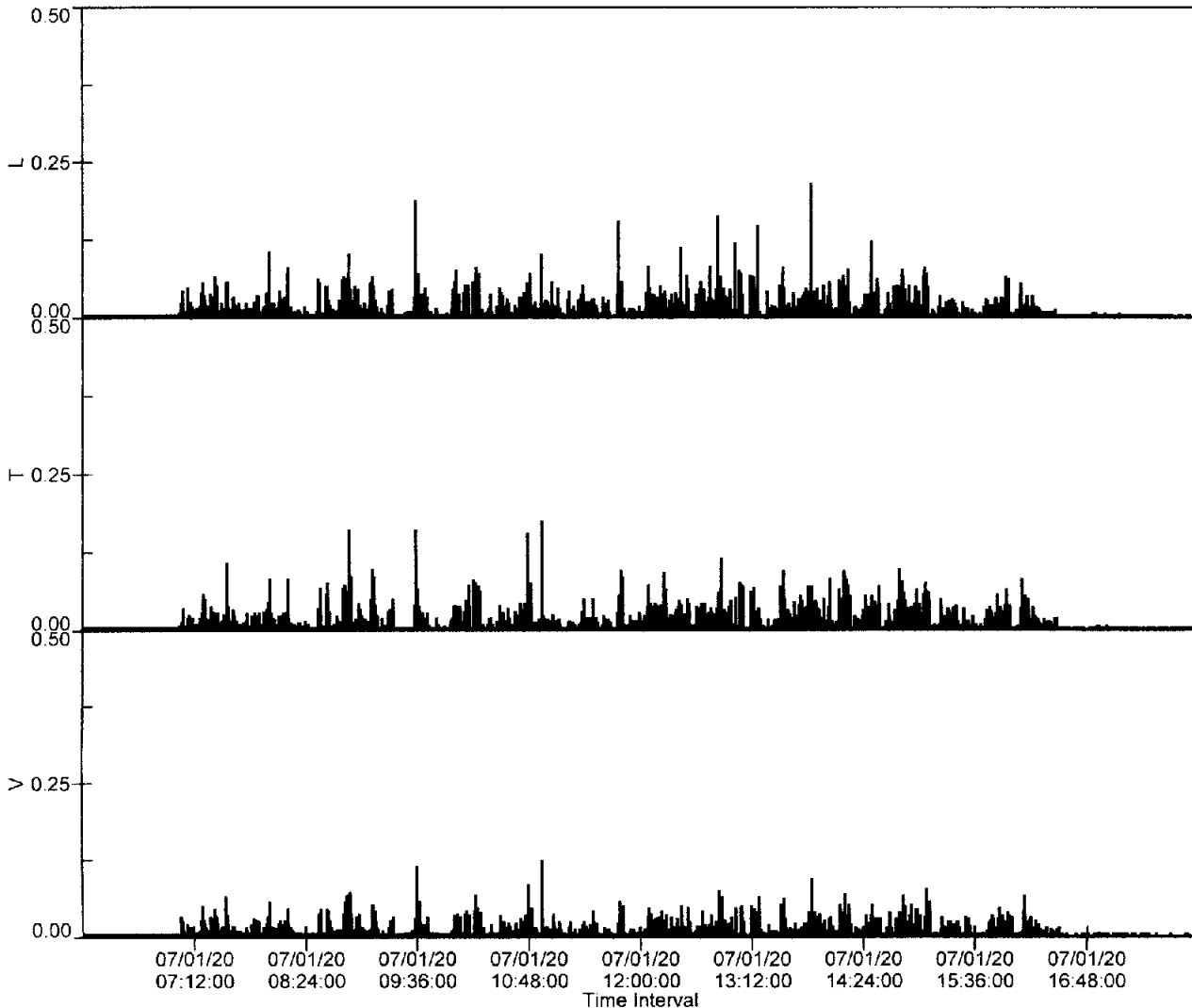
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 59

Record Max PPV: 0.215 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 60  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNSP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

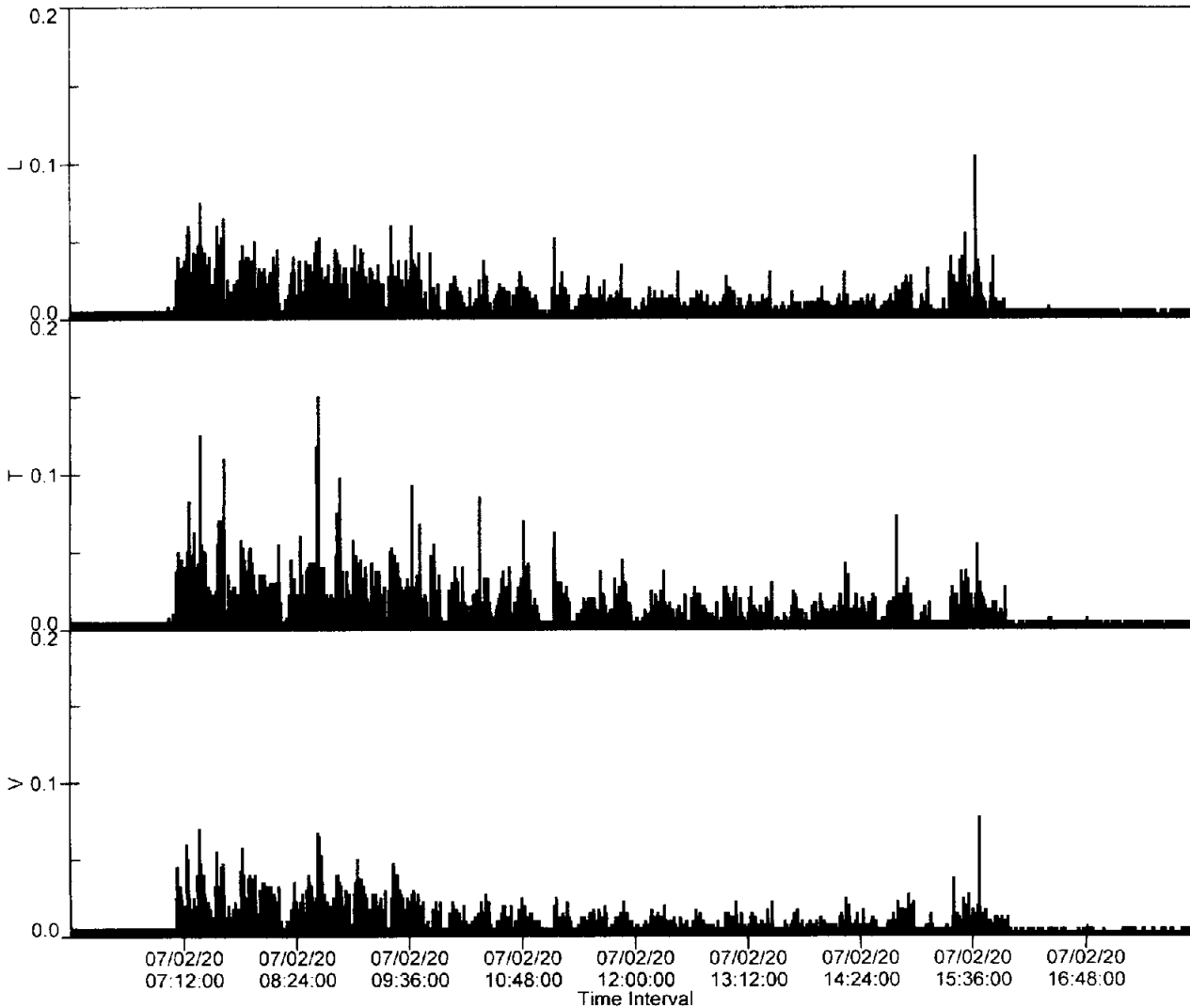
	L	T	V
<b>PPV (in/s)</b>	0.105	0.150	0.078
<b>FREQ (Hz)</b>	17.9	23.8	9.4
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 60

Record Max PPV: 0.150 in/s Record Max DB: 76 db





**SN:** 3804 v3.22  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 61  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.013	0.010	0.010
<b>FREQ (Hz)</b>	12.5	3.3	12.8
<b>Peak Air Pressure:</b>	76 db		

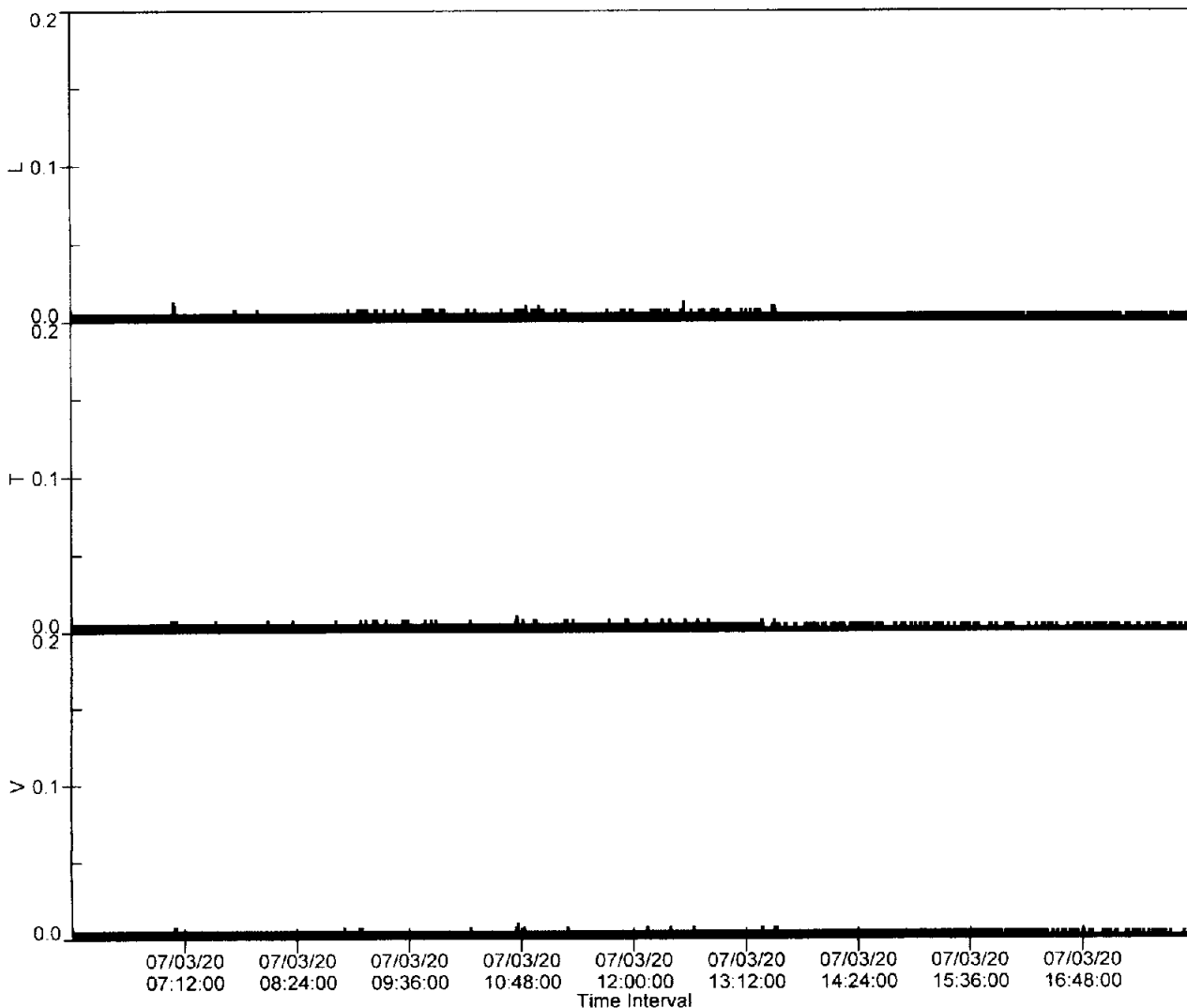
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 61

Record Max PPV: 0.013 in/s Record Max DB: 76 db



**SN:** 3804 v3.22  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 62  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

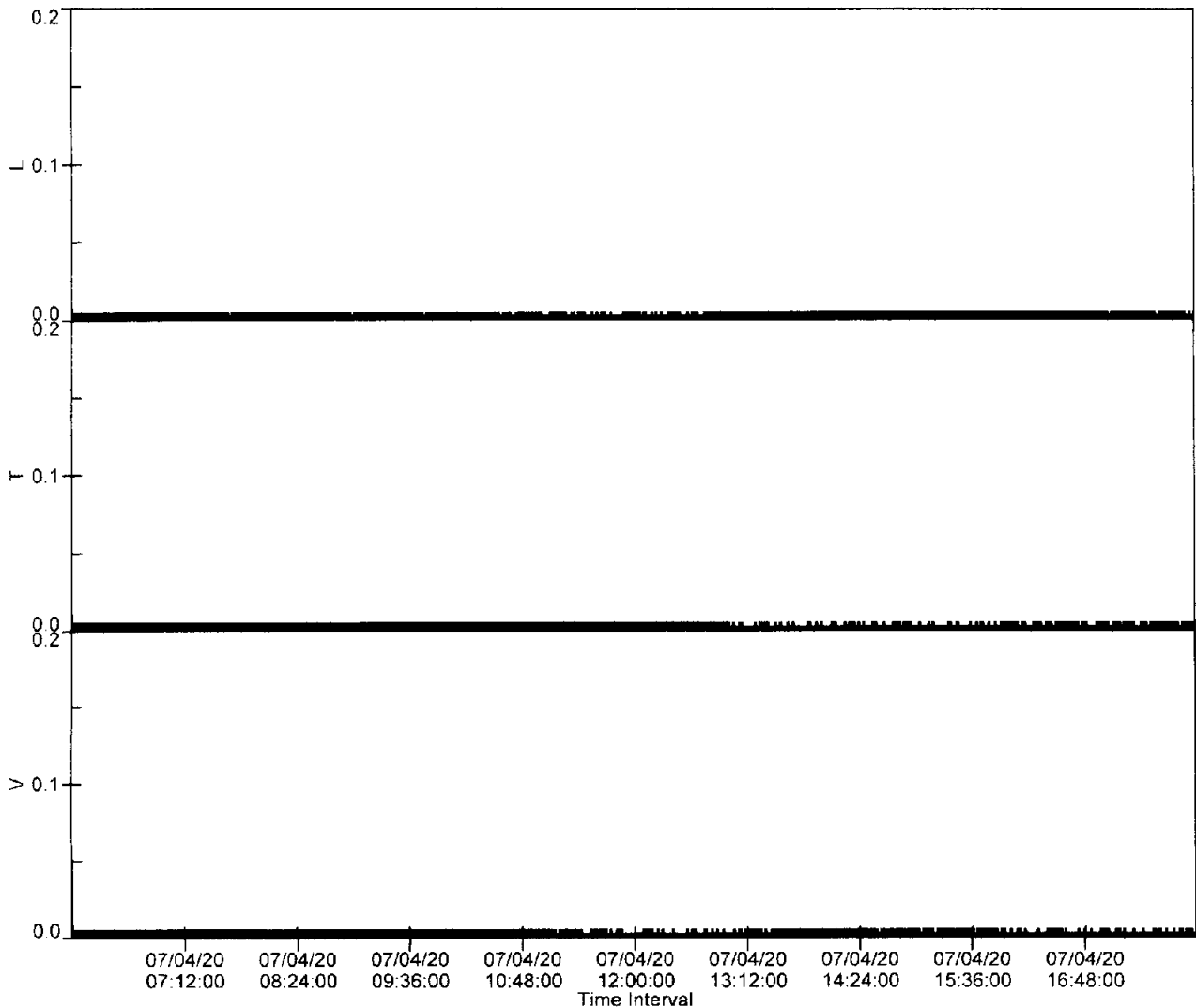
	L	T	V
<b>PPV (in/s)</b>	0.008	0.010	0.008
<b>FREQ (Hz)</b>	.3	33.3	.3
<b>Peak Air Pressure:</b>	82 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 62

Record Max PPV: 0.010 in/s Record Max DB: 82 db



**SN:** 3804 v3.22  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 63  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #3 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** NE CORNER OF SITE

**Continuous Monitor Recording  
Summary Data**

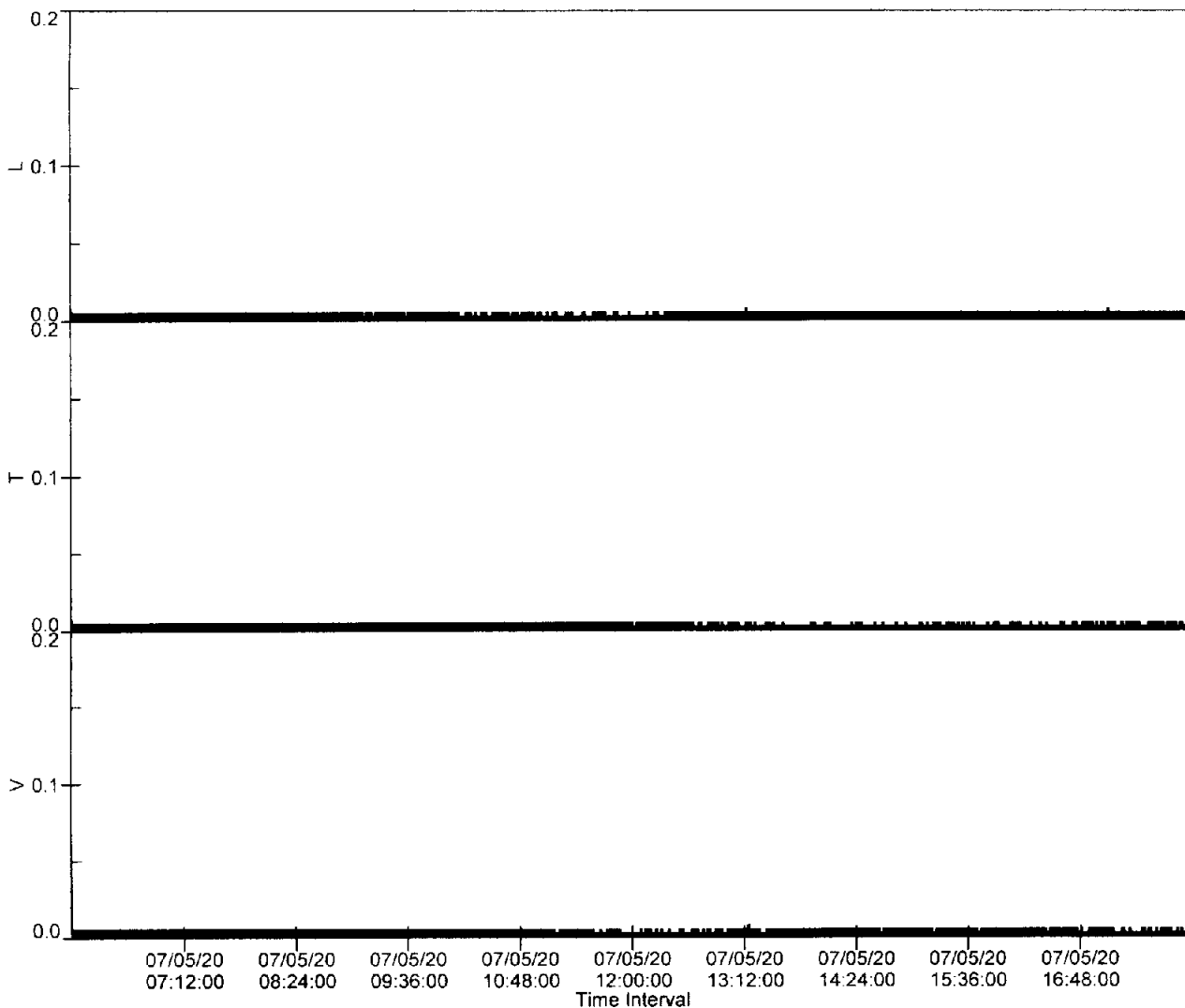
	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	.4	26.3	.3
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/26/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 63

Record Max PPV: 0.008 in/s Record Max DB: 76 db





**SN:** 5033 v3.66  
**Date:** 06/22/2020 **Time:** 06:28:00  
**Event:** 67  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording  
Summary Data**

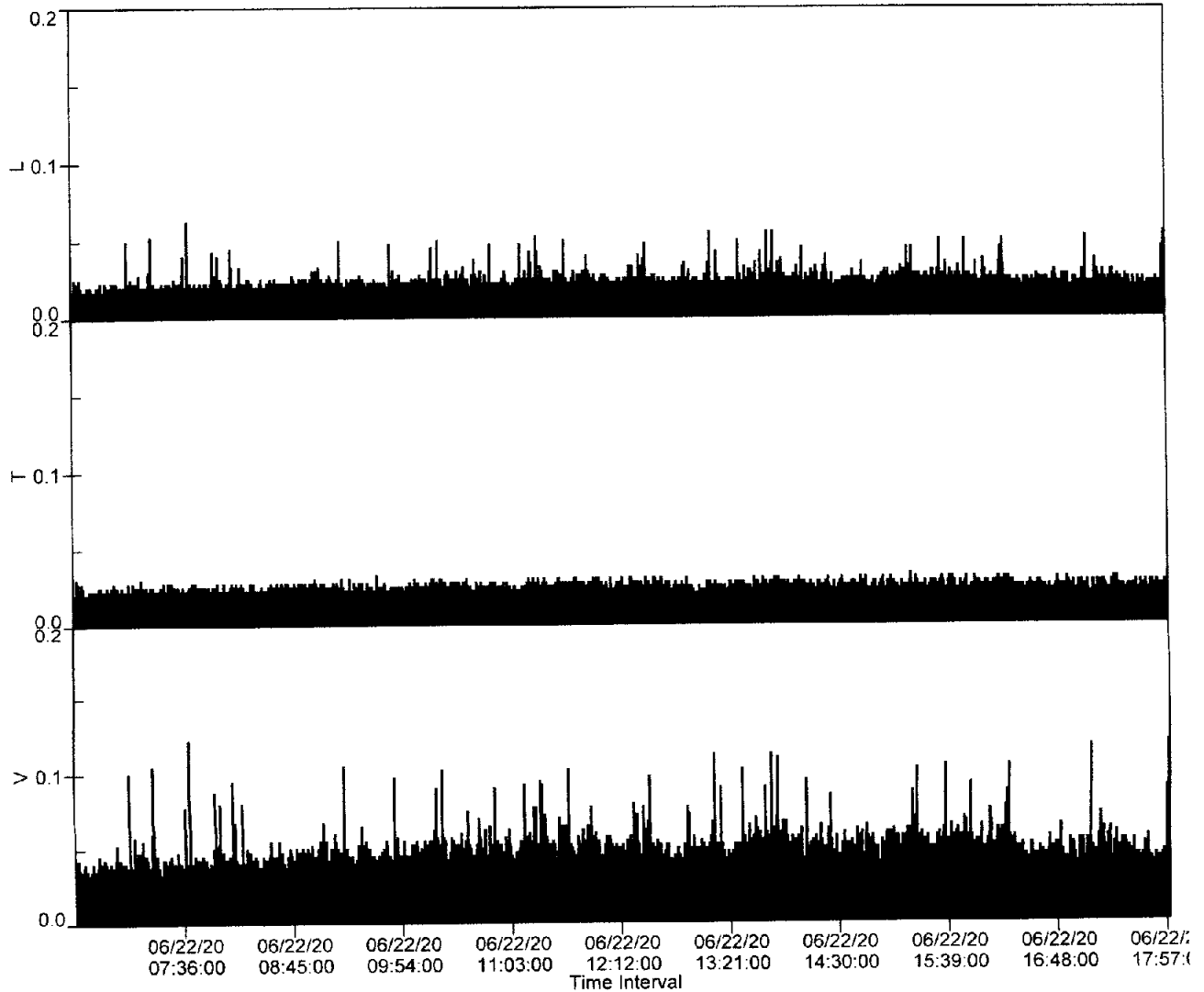
	L	T	V
<b>PPV (in/s)</b>	0.063	0.033	0.123
<b>FREQ (Hz)</b>	1.6	500.0	1.0
<b>Peak Air Pressure:</b>	109 db		
<b>Recording Time:</b>	691 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 67

Record Max PPV: 0.123 in/s Record Max DB: 109 db



**SN:** 5033 v3.66  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 68  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording  
Summary Data**

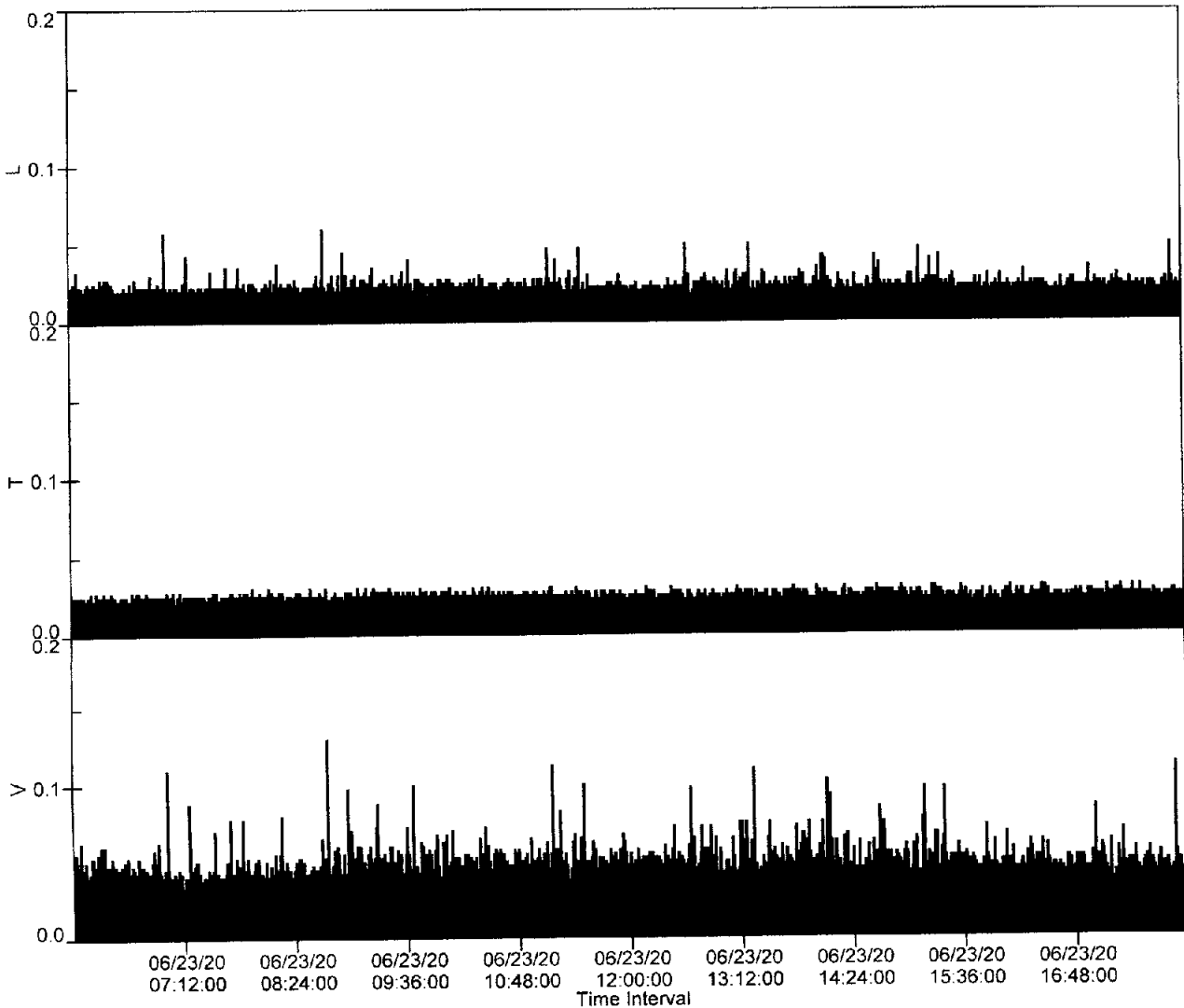
	L	T	V
<b>PPV (in/s)</b>	0.060	0.030	0.130
<b>FREQ (Hz)</b>	1.9	500.0	1.4
<b>Peak Air Pressure:</b>	108 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 68

Record Max PPV: 0.130 in/s Record Max DB: 108 db



**SN:** 5033 v3.66  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 71  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording  
Summary Data**

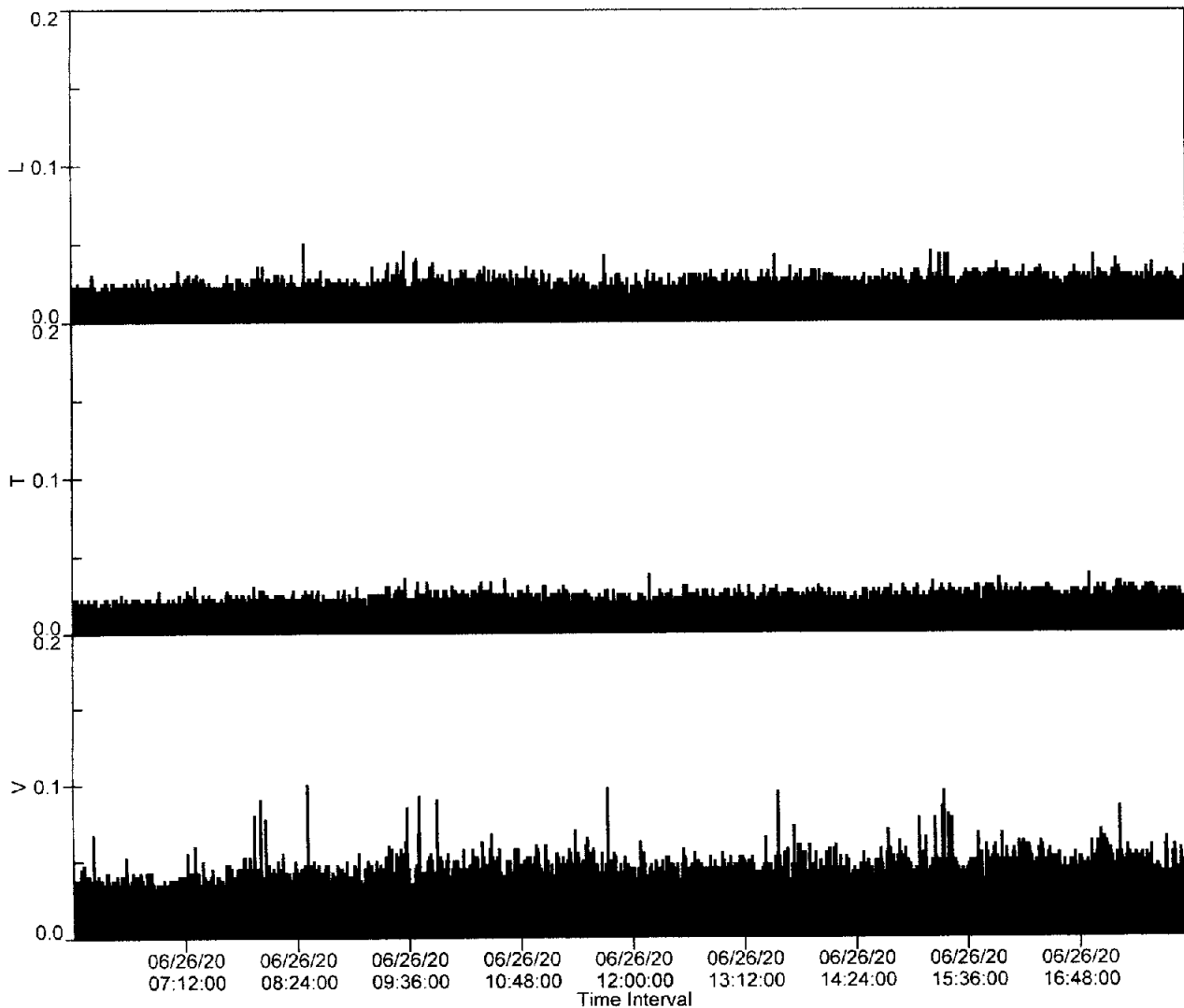
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.050	0.038	0.100
<b>FREQ (Hz)</b>	2.3	500.0	1.5
<b>Peak Air Pressure:</b>	108 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 71

Record Max PPV: 0.100 in/s Record Max DB: 108 db



**SN:** 5033 v3.66  
**Date:** 06/28/2020 **Time:** 06:01:00  
**Event:** 73  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording  
Summary Data**

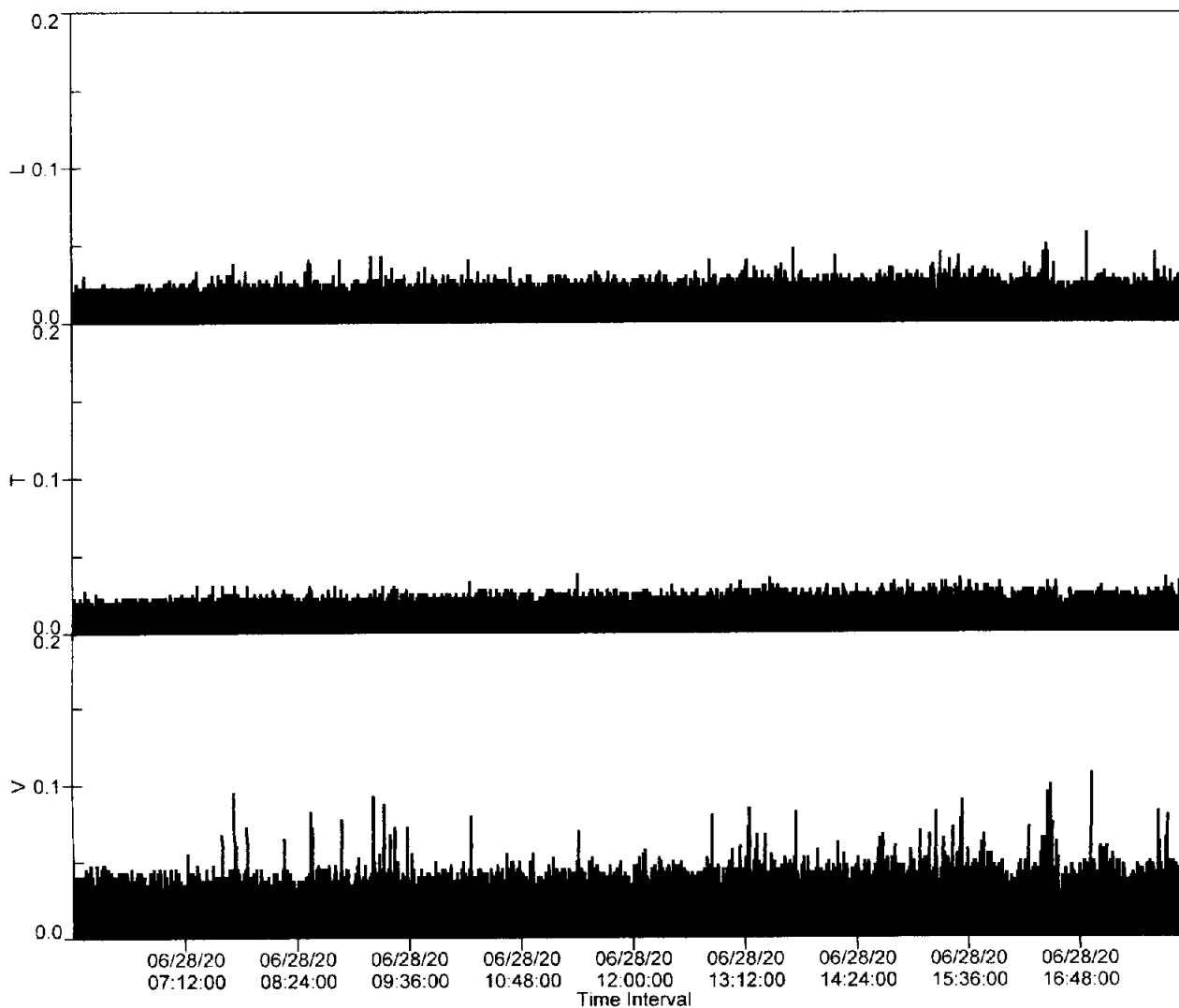
	L	T	V
<b>PPV (in/s)</b>	0.058	0.038	0.108
<b>FREQ (Hz)</b>	1.9	500.0	1.4
<b>Peak Air Pressure:</b>	107 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 73

Record Max PPV: 0.108 in/s Record Max DB: 107 db





**SN:** 5033 v3.66  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 74  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL.

**Continuous Monitor Recording  
Summary Data**

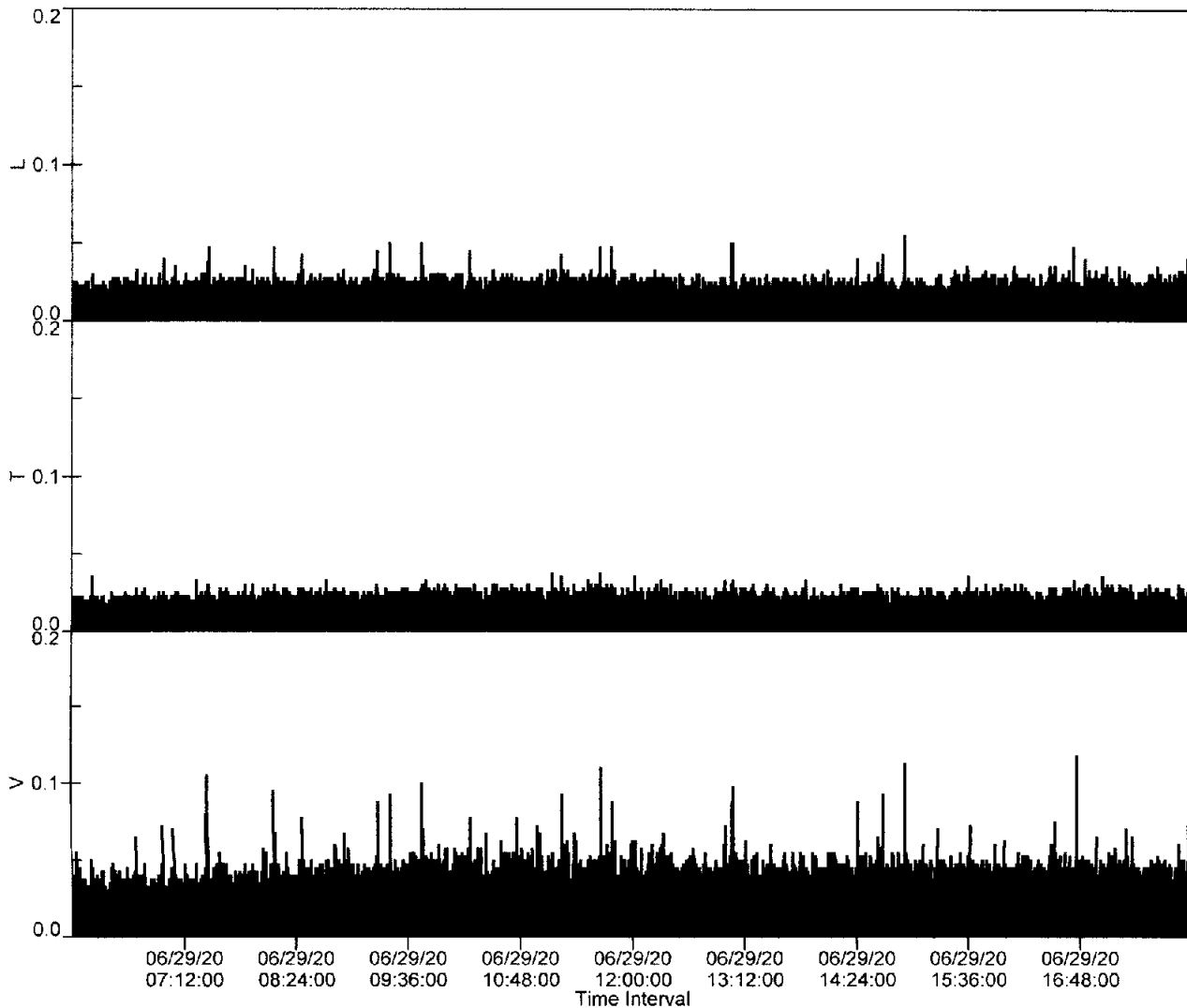
	L	T	V
<b>PPV (in/s)</b>	0.055	0.038	0.118
<b>FREQ (Hz)</b>	2.5	500.0	1.8
<b>Peak Air Pressure:</b>	108 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 74

Record Max PPV: 0.118 in/s Record Max DB: 108 db



**SN:** 5033 v3.66  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 75  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording**

**Summary Data**

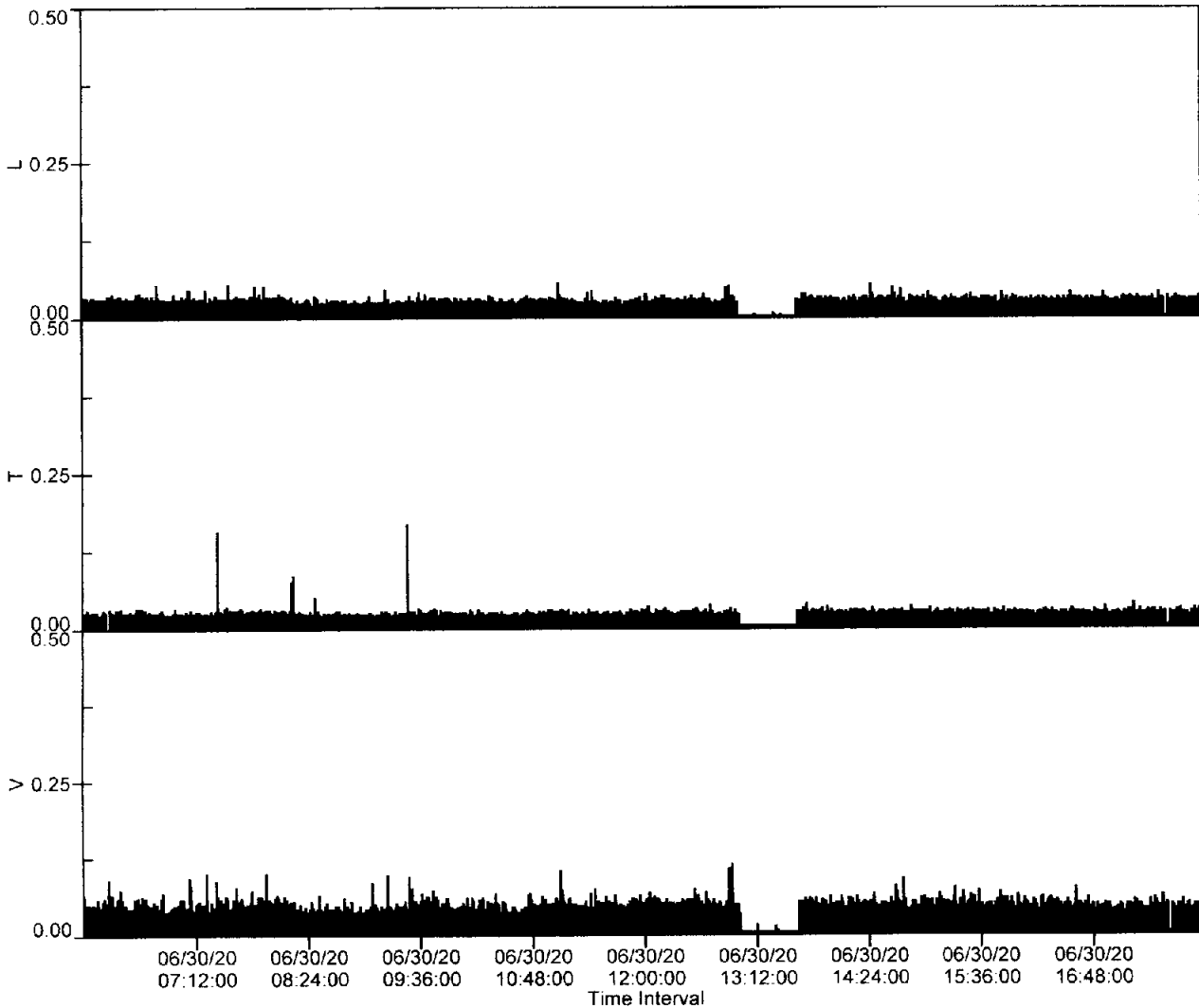
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.055	0.168	0.115
<b>FREQ (Hz)</b>	31.3	16.7	20.0
<b>Peak Air Pressure:</b>	107 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 75

Record Max PPV: 0.168 in/s Record Max DB: 107 db



**SN:** 5033 v3.66  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 76  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording**

**Summary Data**

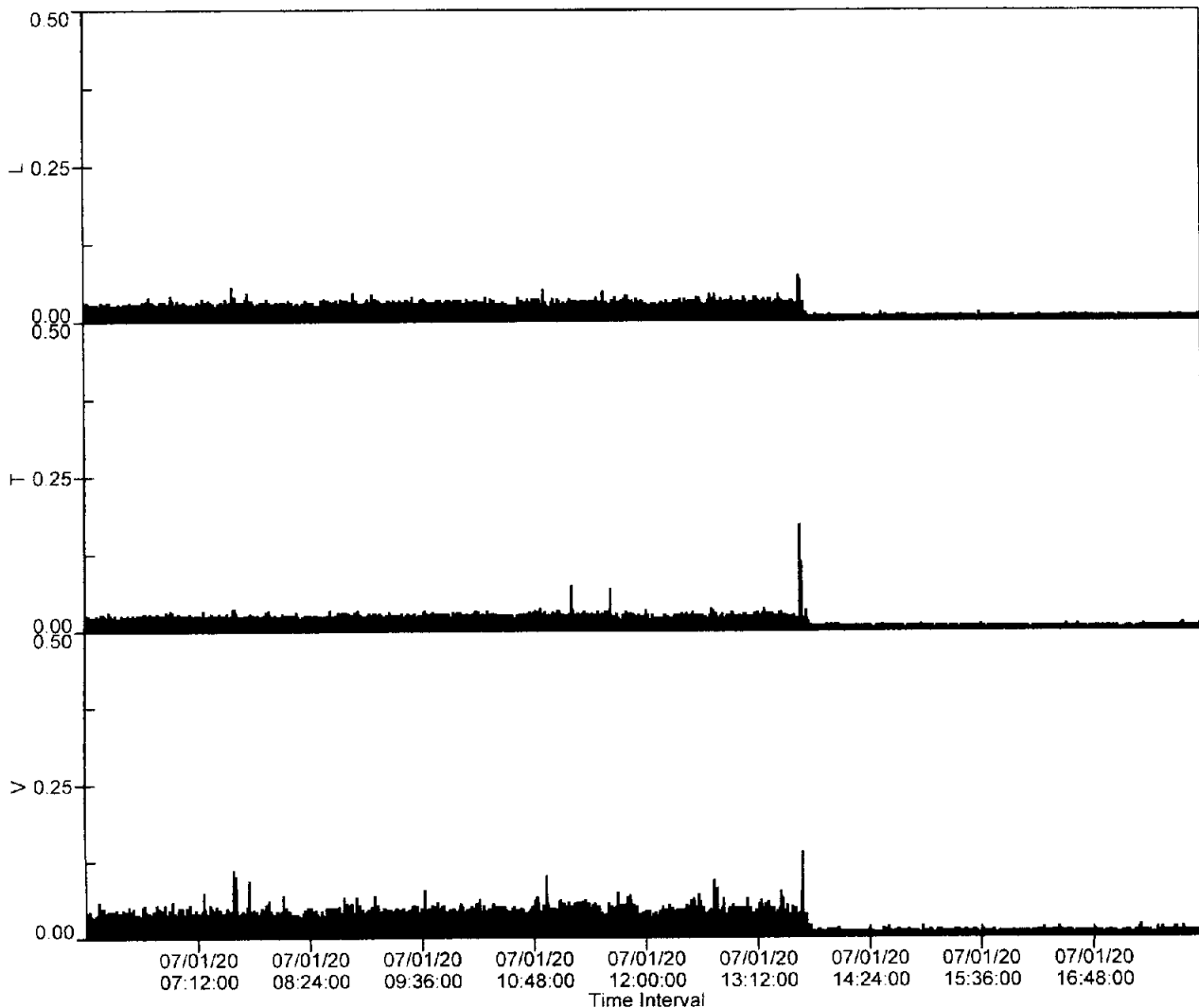
	L	T	V
<b>PPV (in/s)</b>	0.073	0.170	0.140
<b>FREQ (Hz)</b>	71.4	50.0	62.5
<b>Peak Air Pressure:</b>	108 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 76

Record Max PPV: 0.170 in/s Record Max DB: 108 db



**SN:** 5033 v3.66  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 77  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.015	0.015	0.023
<b>FREQ (Hz)</b>	2.7	500.0	1.9
<b>Peak Air Pressure:</b>	87 db		

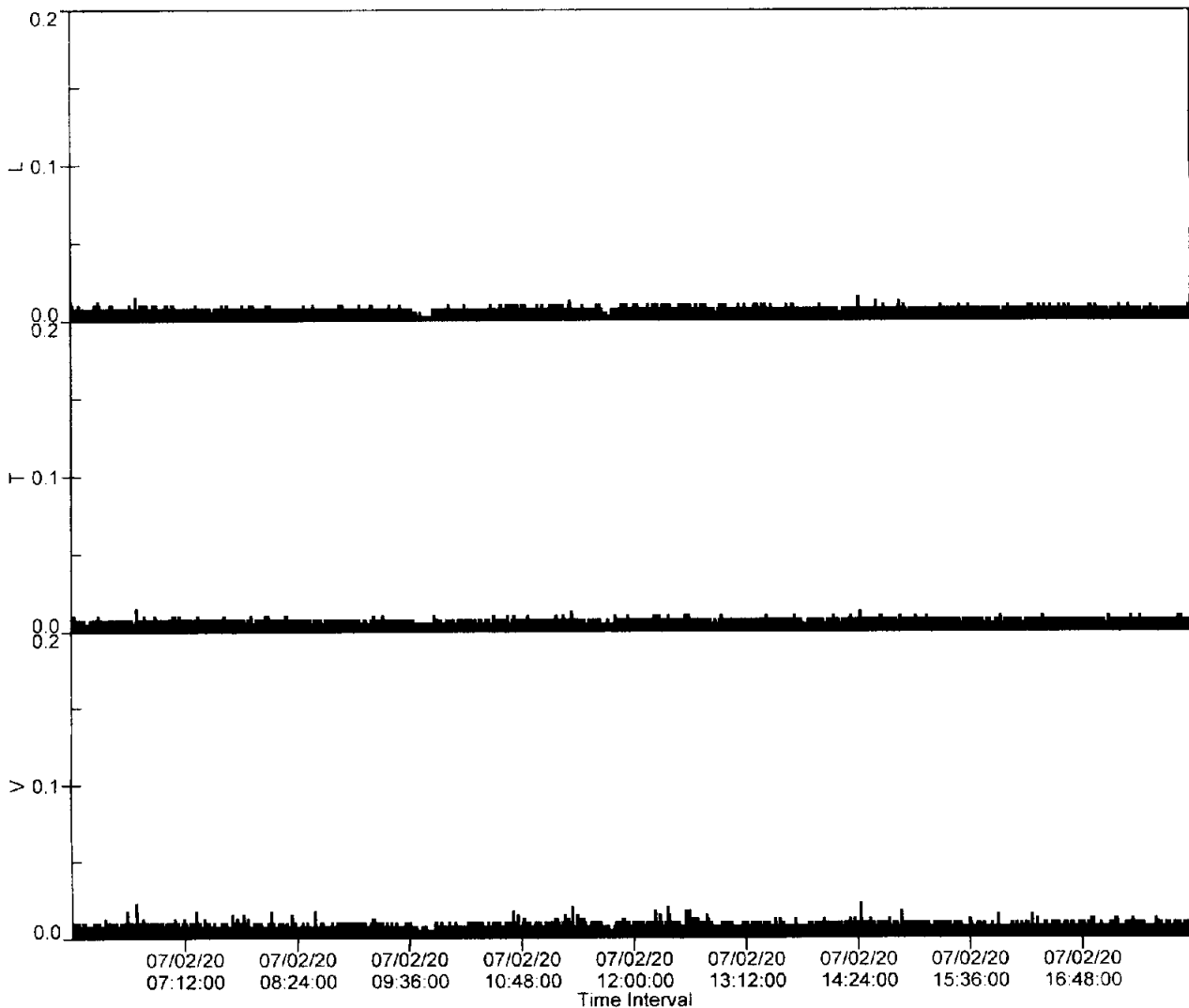
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 77

Record Max PPV: 0.023 in/s Record Max DB: 87 db



**SN:** 5033 v3.66  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 78  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL.

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.013	0.013	0.020
<b>FREQ (Hz)</b>	166.7	250.0	2.0
<b>Peak Air Pressure:</b>	87 db		

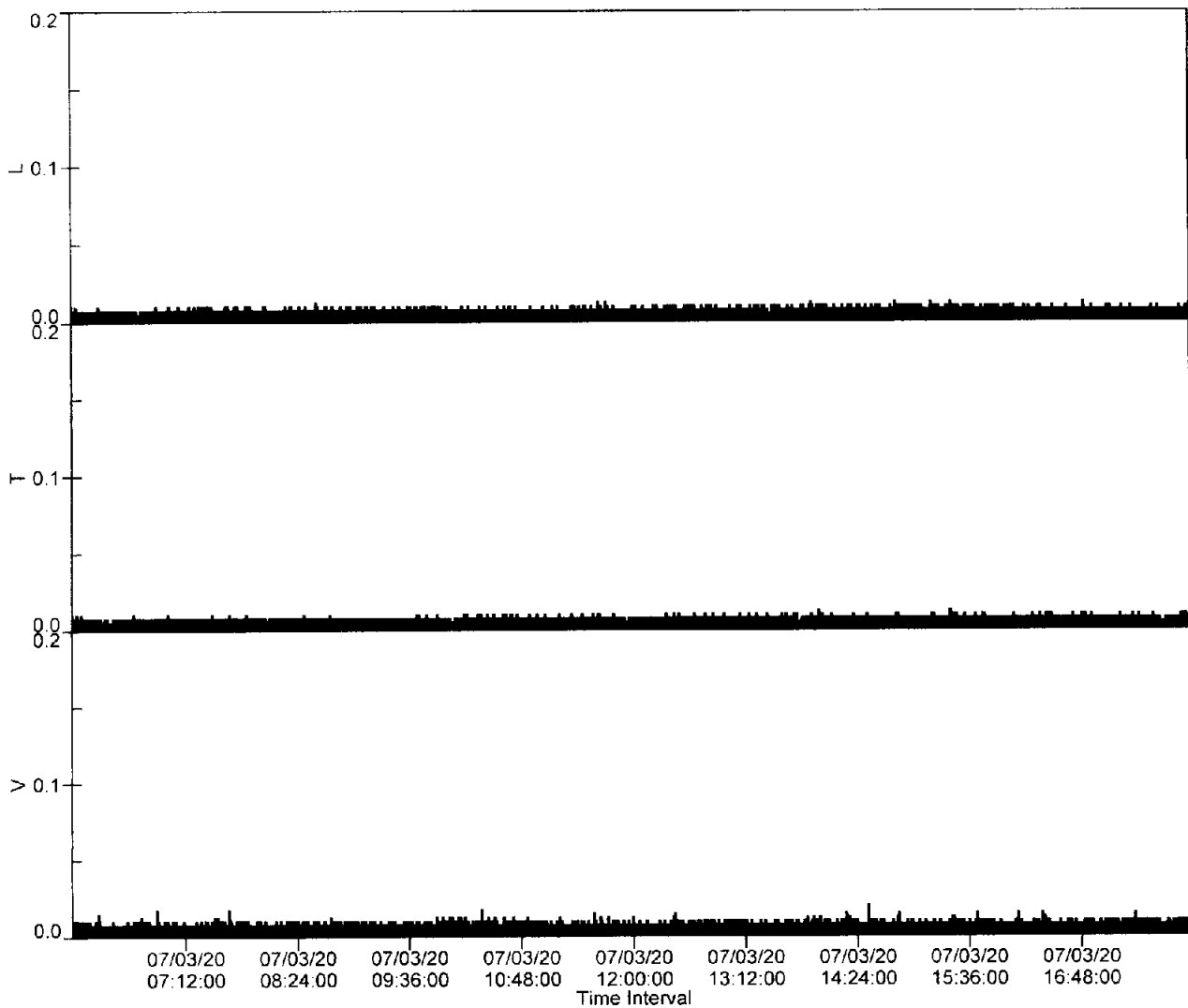
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL.: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 78

Record Max PPV: 0.020 in/s Record Max DI: 87 db



**SN:** 5033 v3.66  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 79  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNSP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.015	0.013	0.020
<b>FREQ (Hz)</b>	2.8	166.7	1.6
<b>Peak Air Pressure:</b>	94 db		

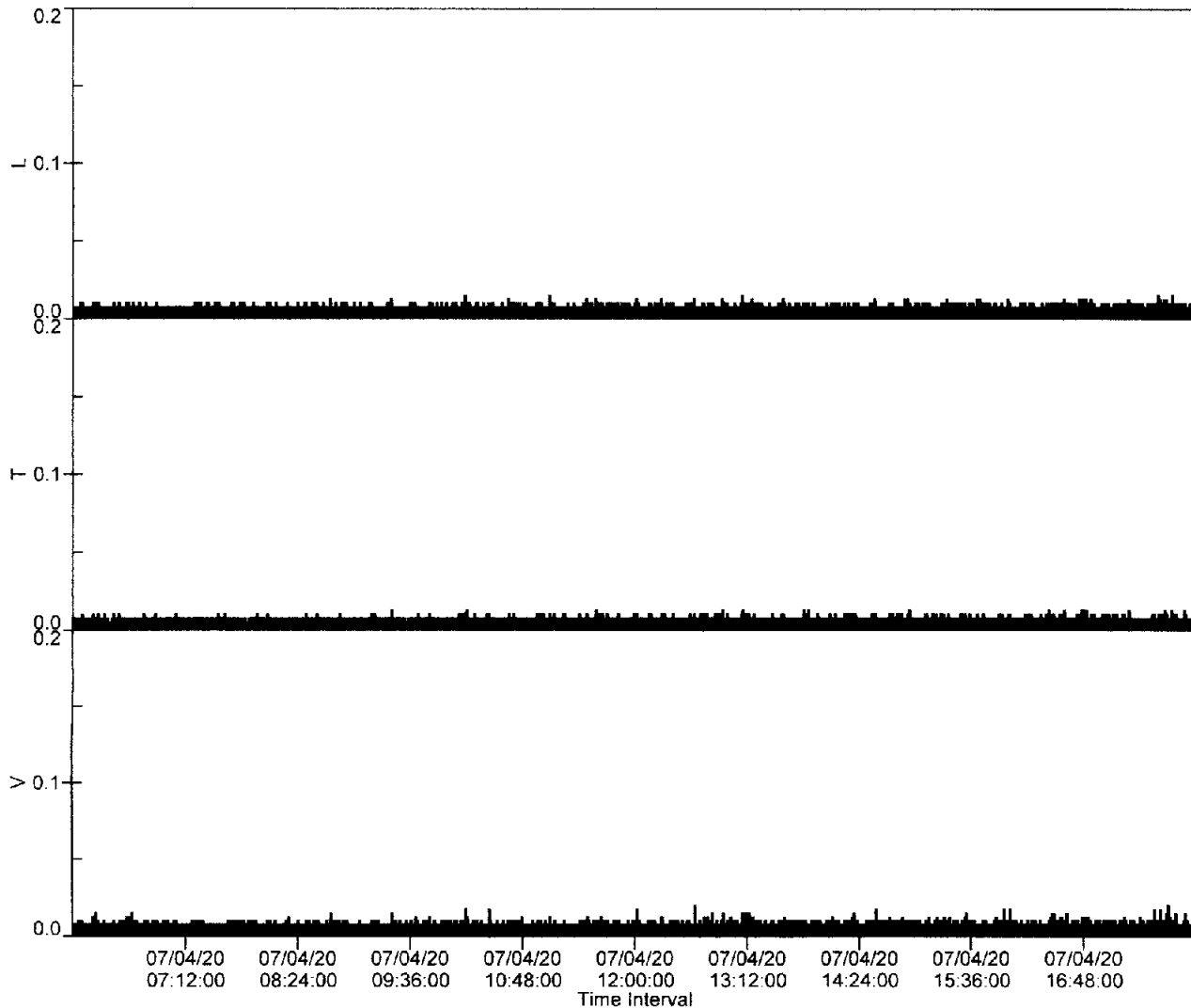
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 79

Record Max PPV: 0.020 in/s Record Max DB: 94 db



**SN:** 5033 v3.66  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 80  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #4 WSNP  
**Distance:** 50.  
**Operator:** CTI INC  
**Comment:** HIGHCREST SCHOOL

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.015	0.018
<b>FREQ (Hz)</b>	100.0	166.7	1.4
<b>Peak Air Pressure:</b>	89 db		

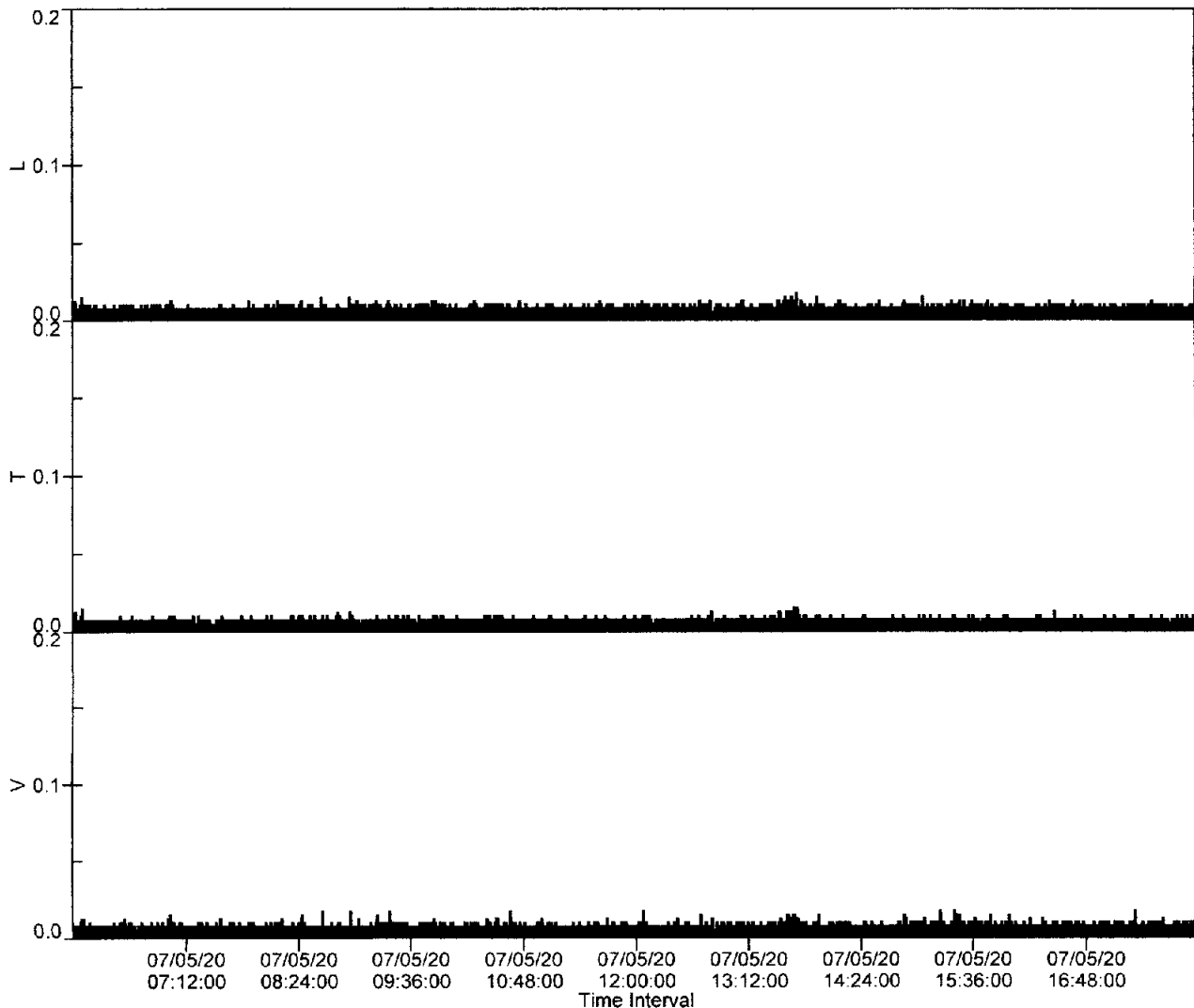
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/06/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 80

Record Max PPV: 0.018 in/s Record Max DB: 89 db







**SN:** 3802 v3.22  
**Date:** 06/22/2020 **Time:** 08:15:00  
**Event:** 1  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNSP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording  
Summary Data**

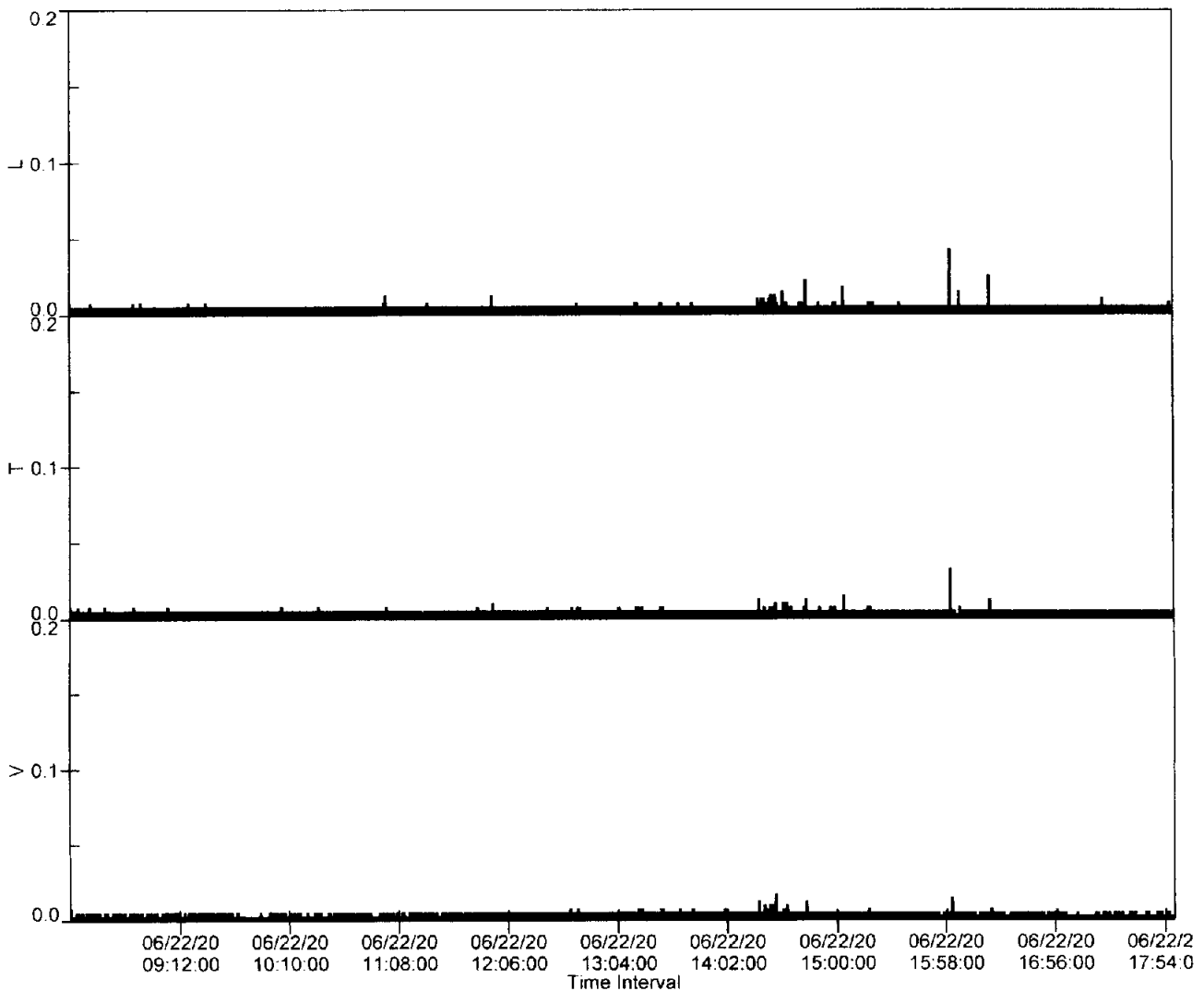
	L	T	V
<b>PPV (in/s)</b>	0.043	0.033	0.018
<b>FREQ (Hz)</b>	100.0	125.0	12.8
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	584 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 1

Record Max PPV: 0.043 in/s Record Max DB: 79 db



**SN:** 3802 v3.22  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 2  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.025	0.018	0.015
<b>FREQ (Hz)</b>	71.4	50.0	83.3
<b>Peak Air Pressure:</b>	79 db		

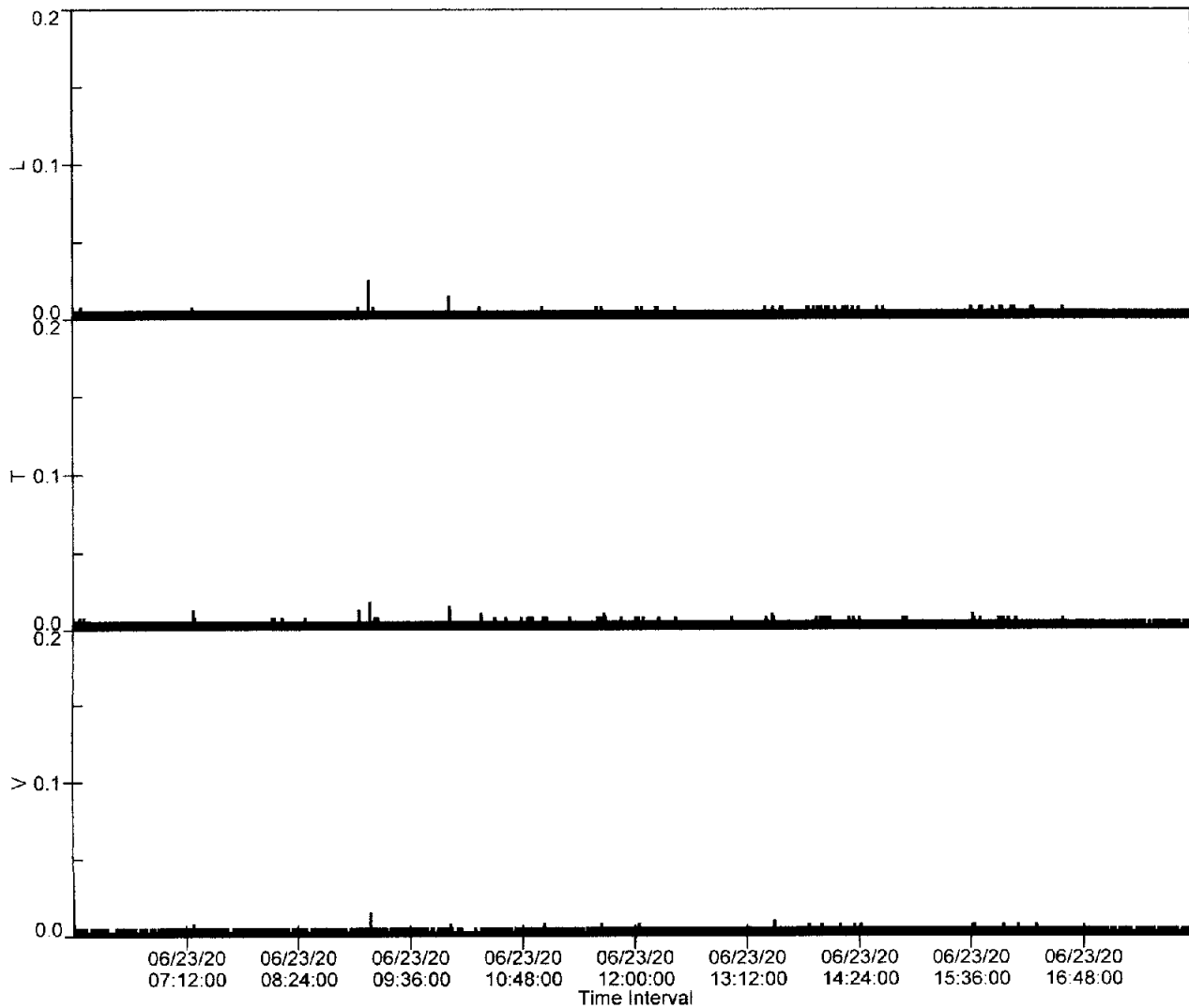
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 2

Record Max PPV: 0.025 in/s Record Max DB: 79 db



SN: 3802 v3.22  
Date: 06/24/2020 Time: 06:01:00  
Event: 3  
Client: BERGER CONST  
Operation: EXCAVATION  
Location: #5 WSNP  
Distance: 25.  
Operator: CTI INC  
Comment: SE CORNER UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.013	0.013	0.013
FREQ (Hz)	13.9	13.2	7.5
Peak Air Pressure: 78 db			

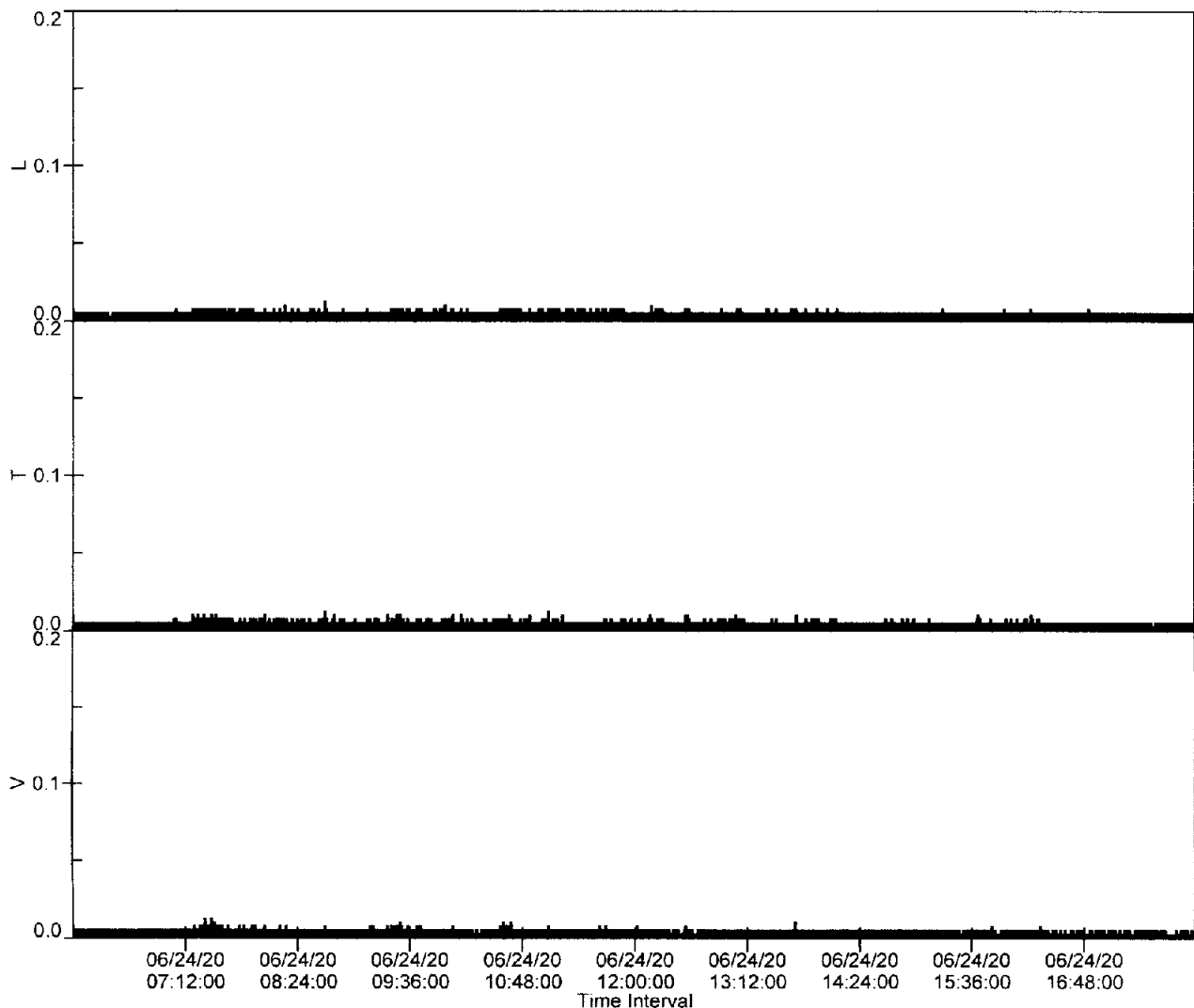
Recording Time: 718 minutes  
Sample Size: 1440  
Interval Size: 60 seconds

**Additional Info:**

Shaketable Calibrated: 04/07/2020  
By: GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 3

Record Max PPV: 0.013 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 4  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording  
Summary Data**

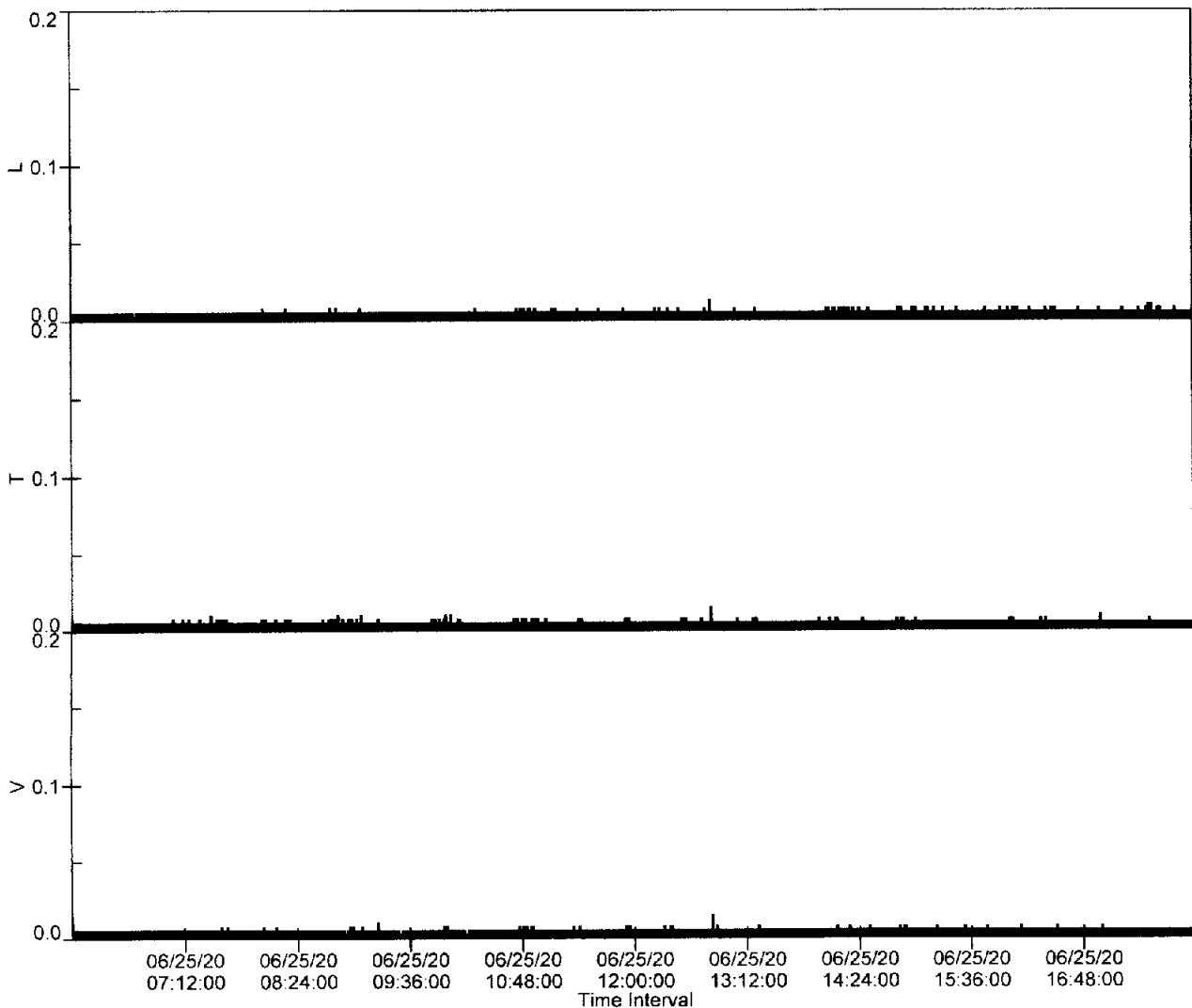
	L	T	V
<b>PPV (in/s)</b>	0.013	0.015	0.015
<b>FREQ (Hz)</b>	13.5	8.1	8.2
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 4

Record Max PPV: 0.015 in/s Record Max DB: 79 db



**SN:** 3802 v3.22  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 5  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.018	0.015
<b>FREQ (Hz)</b>	11.4	12.8	15.2
<b>Peak Air Pressure:</b>	78 db		

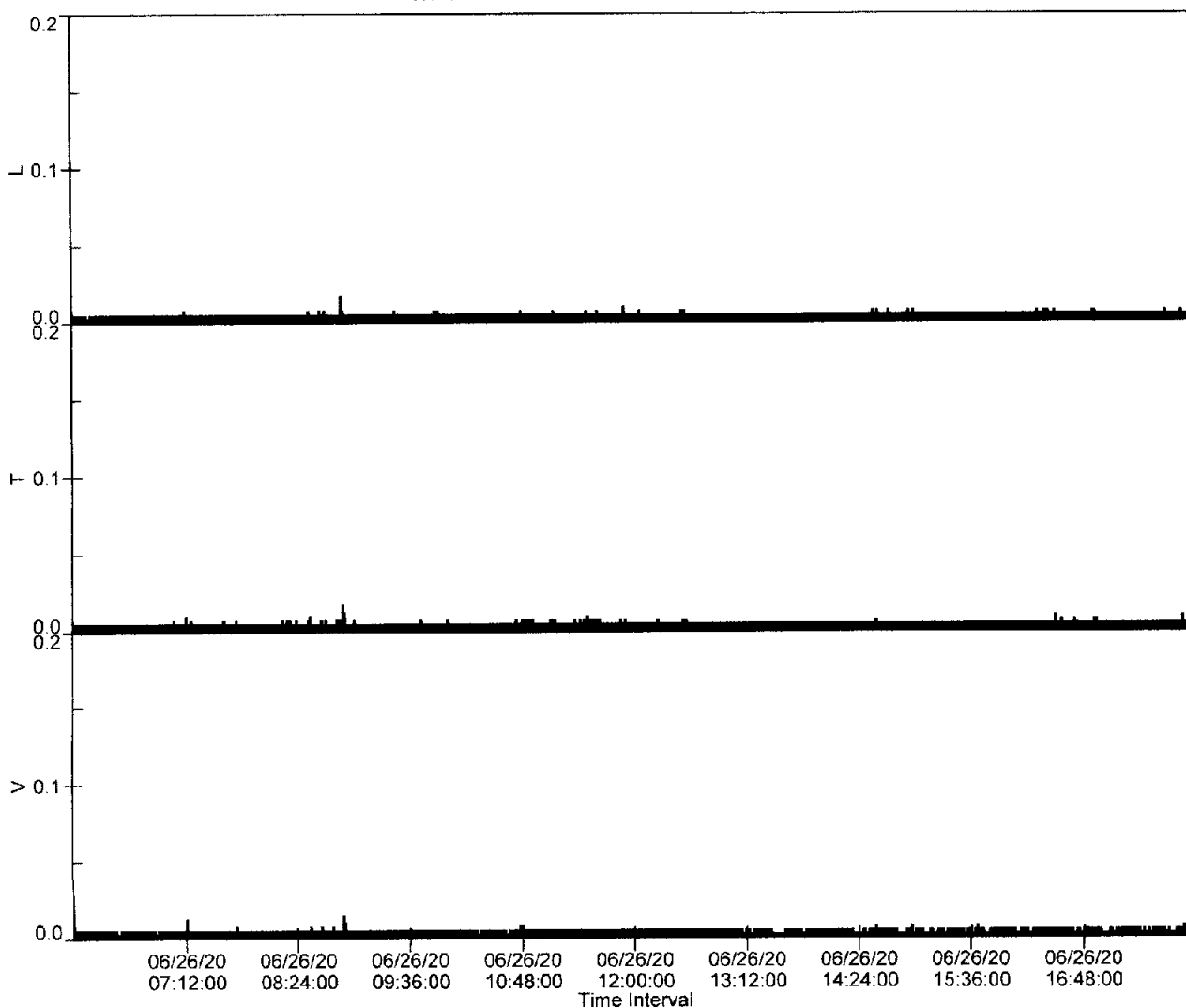
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 5

Record Max PPV: 0.018 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 06/27/2020 **Time:** 06:01:00  
**Event:** 6  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.020	0.020	0.013
<b>FREQ (Hz)</b>	14.7	13.2	10.6
<b>Peak Air Pressure:</b>	78 db		

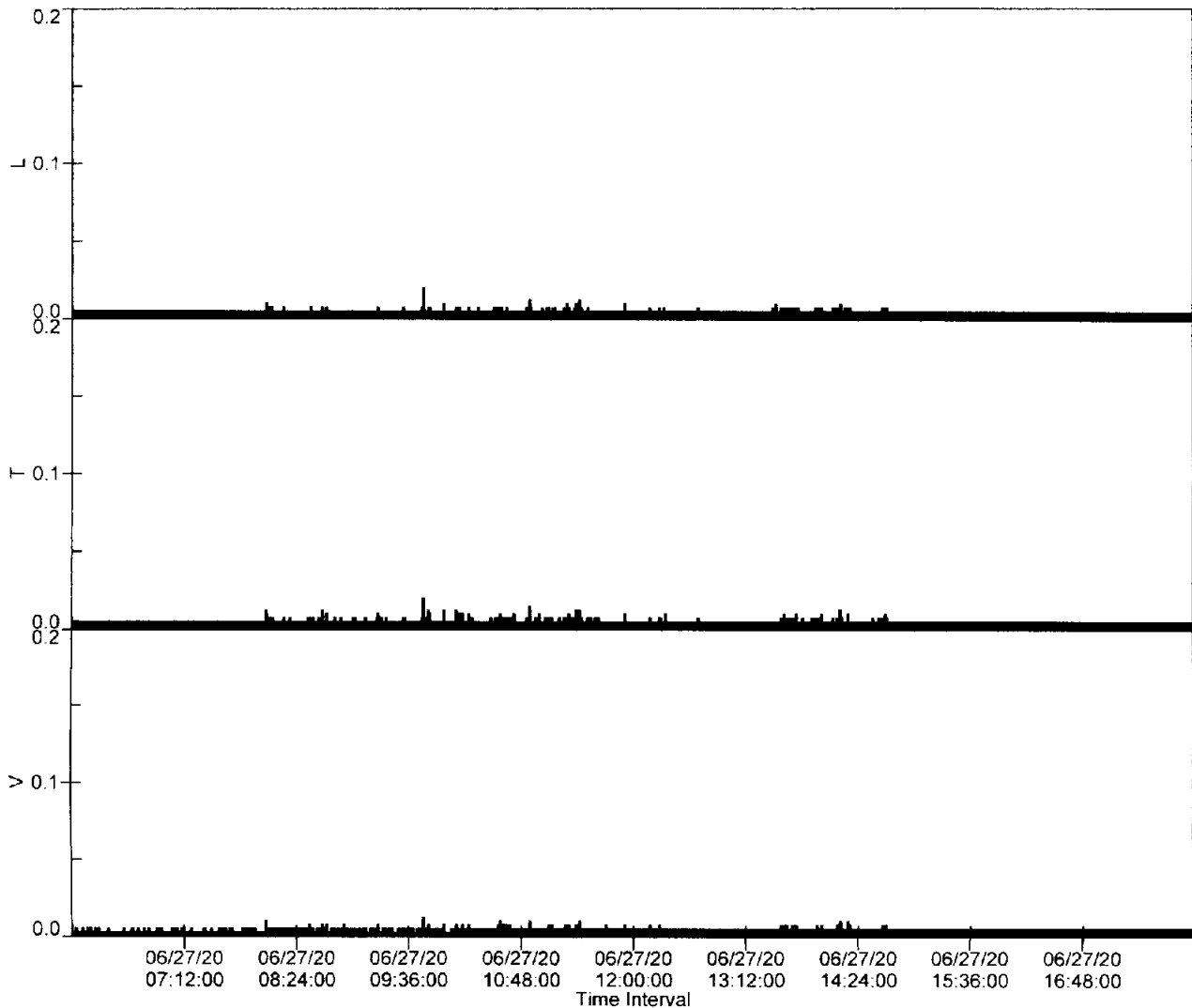
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 6

Record Max PPV: 0.020 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 06/28/2020 **Time:** 06:01:00  
**Event:** 7  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNSP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording  
Summary Data**

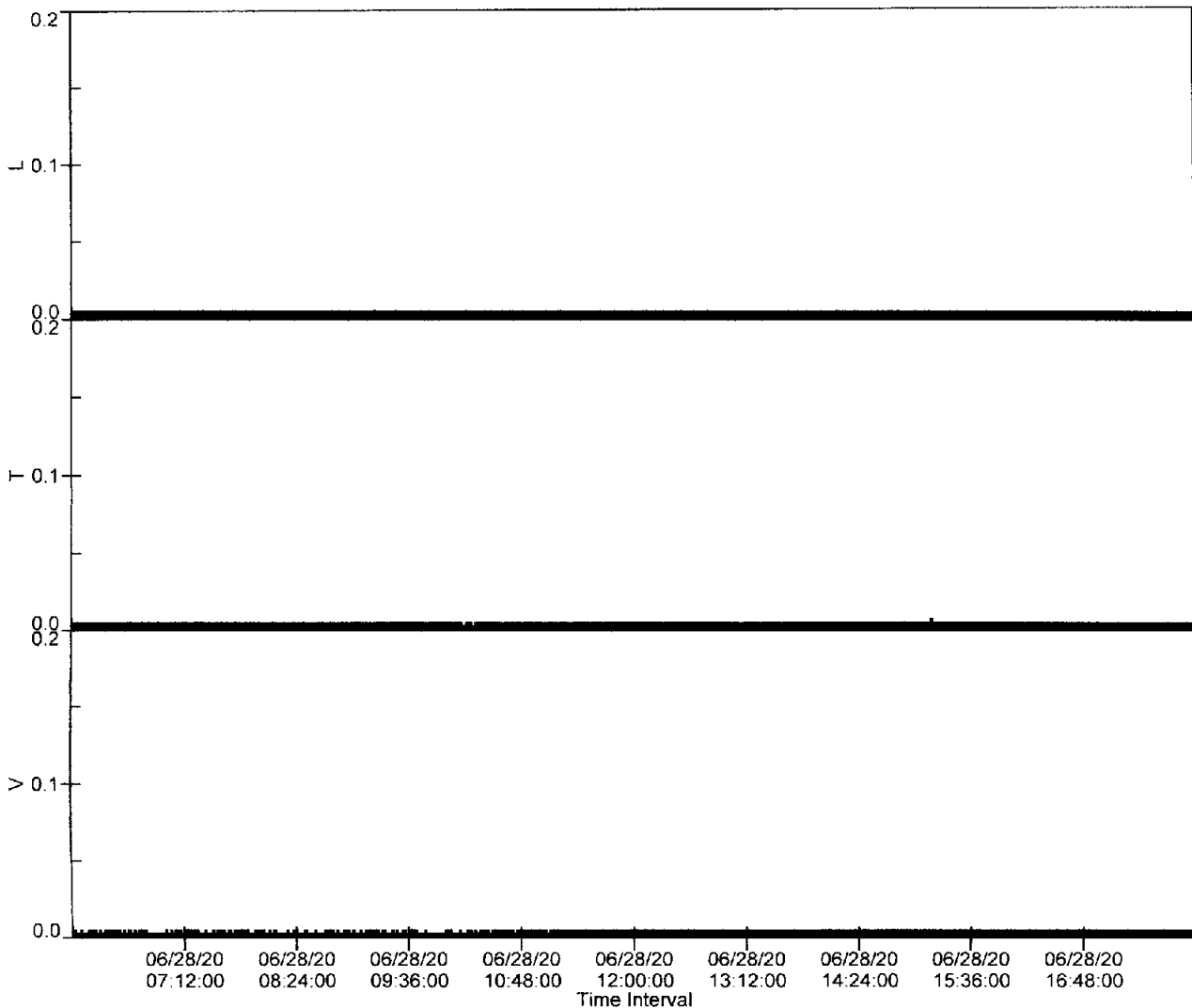
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	.5	5.0	.3
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 7

Record Max PPV: 0.008 in/s Record Max DB: 79 db



**SN:** 3802 v3.22  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 8  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.030	0.035	0.025
FREQ (Hz)	41.7	41.7	50.0
Peak Air Pressure:	78 db		

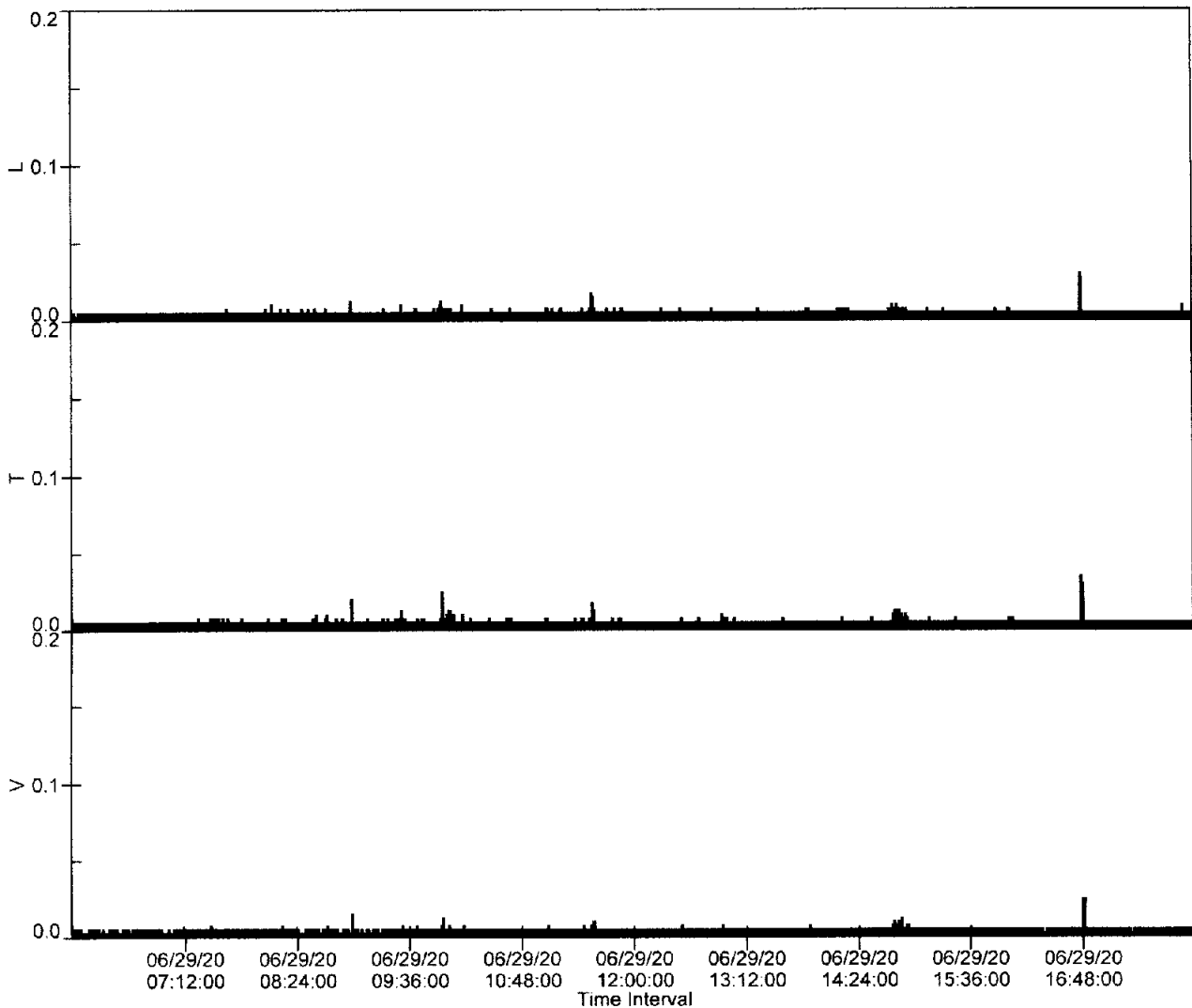
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 8

Record Max PPV: 0.035 in/s Record Max DB: 78 db





**SN:** 3802 v3.22  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 9  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording  
Summary Data**

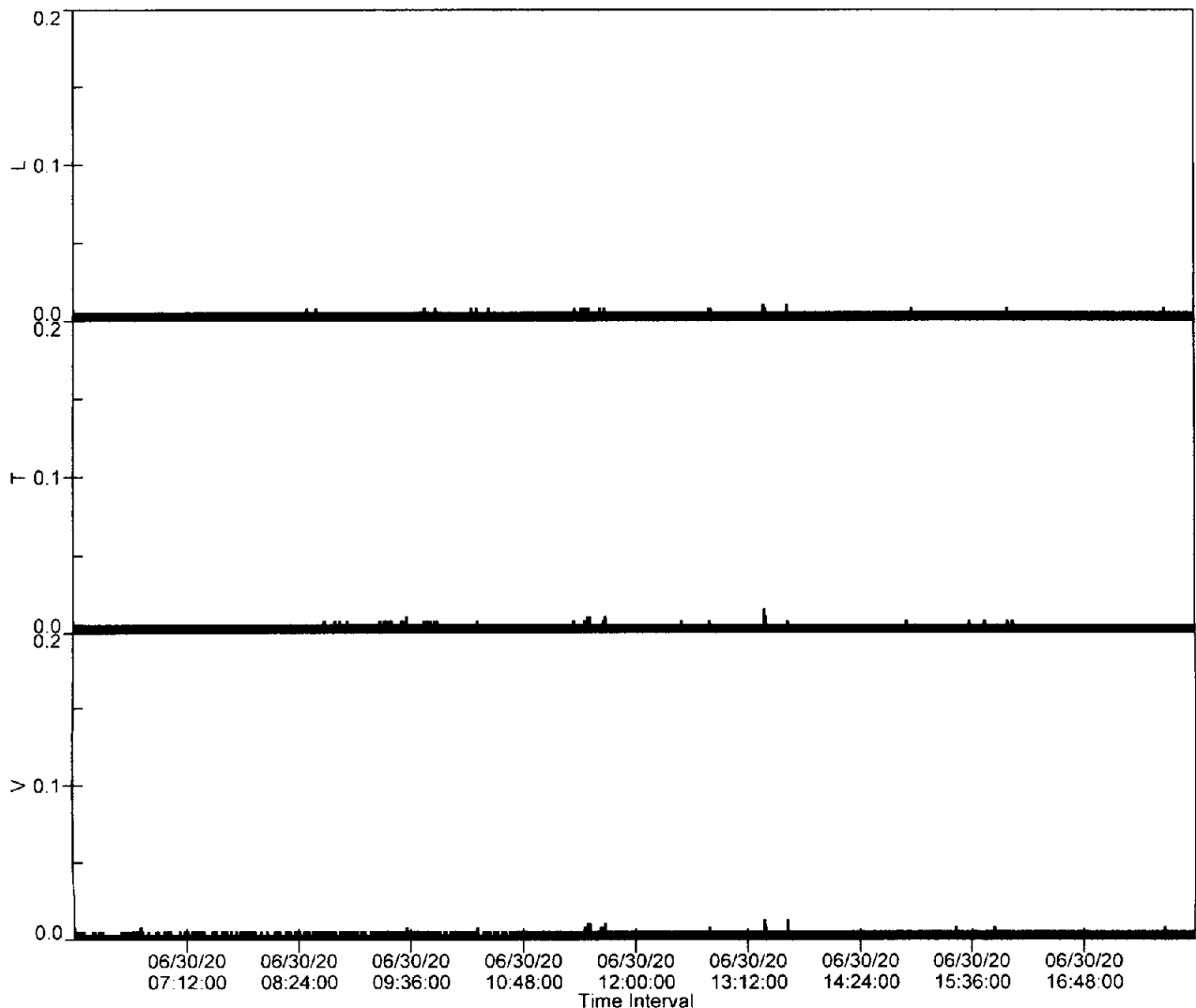
	L	T	V
PPV (in/s)	0.010	0.015	0.013
FREQ (Hz)	14.7	10.2	12.2
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 9

Record Max PPV: 0.015 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 10  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording  
Summary Data**

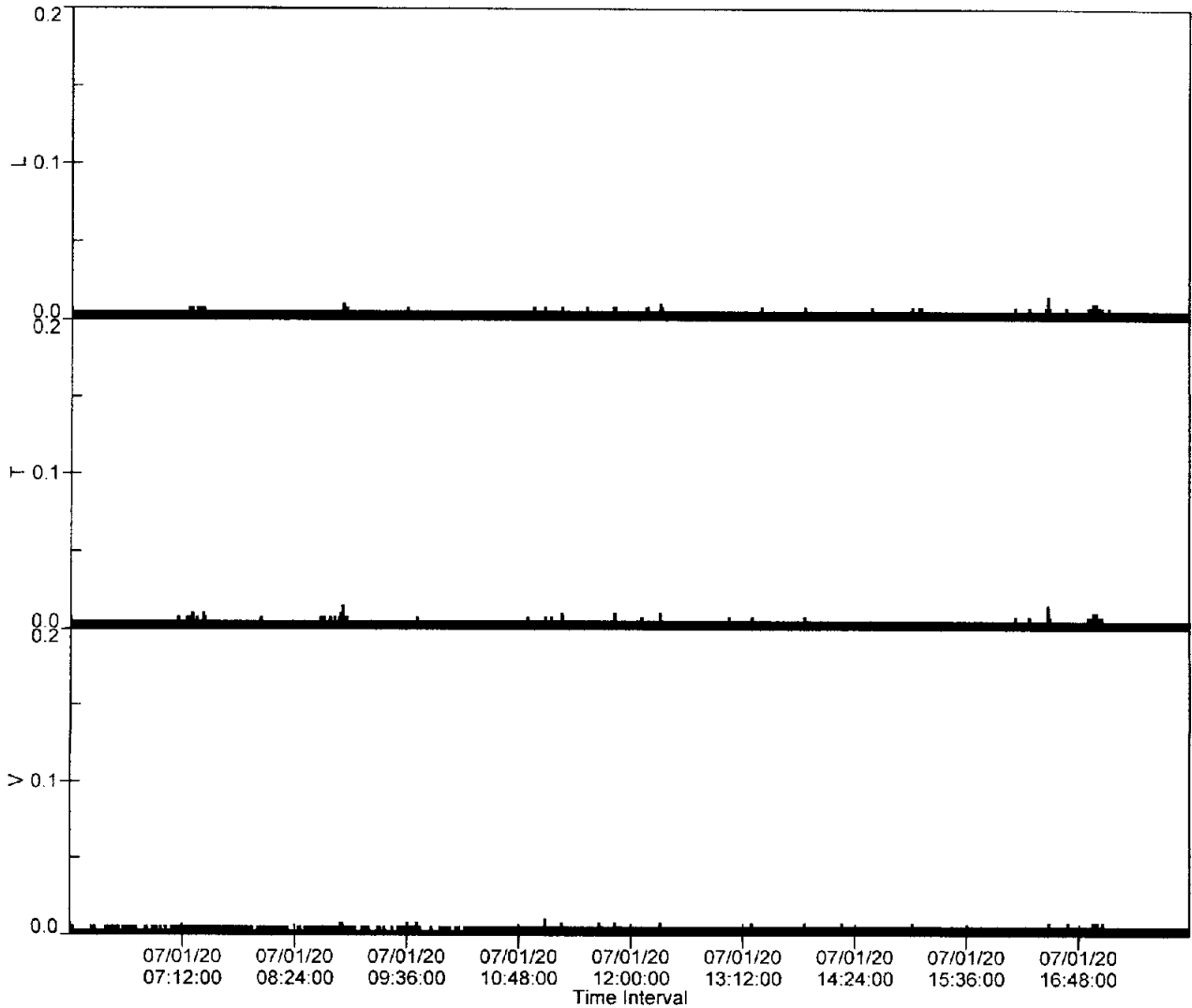
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.015	0.015	0.010
<b>FREQ (Hz)</b>	14.7	17.2	8.6
<b>Peak Air Pressure: 78 db</b>			
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 10

Record Max PPV: 0.015 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 11  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.018	0.010
<b>FREQ (Hz)</b>	16.7	17.9	15.2
<b>Peak Air Pressure:</b>	78 db		

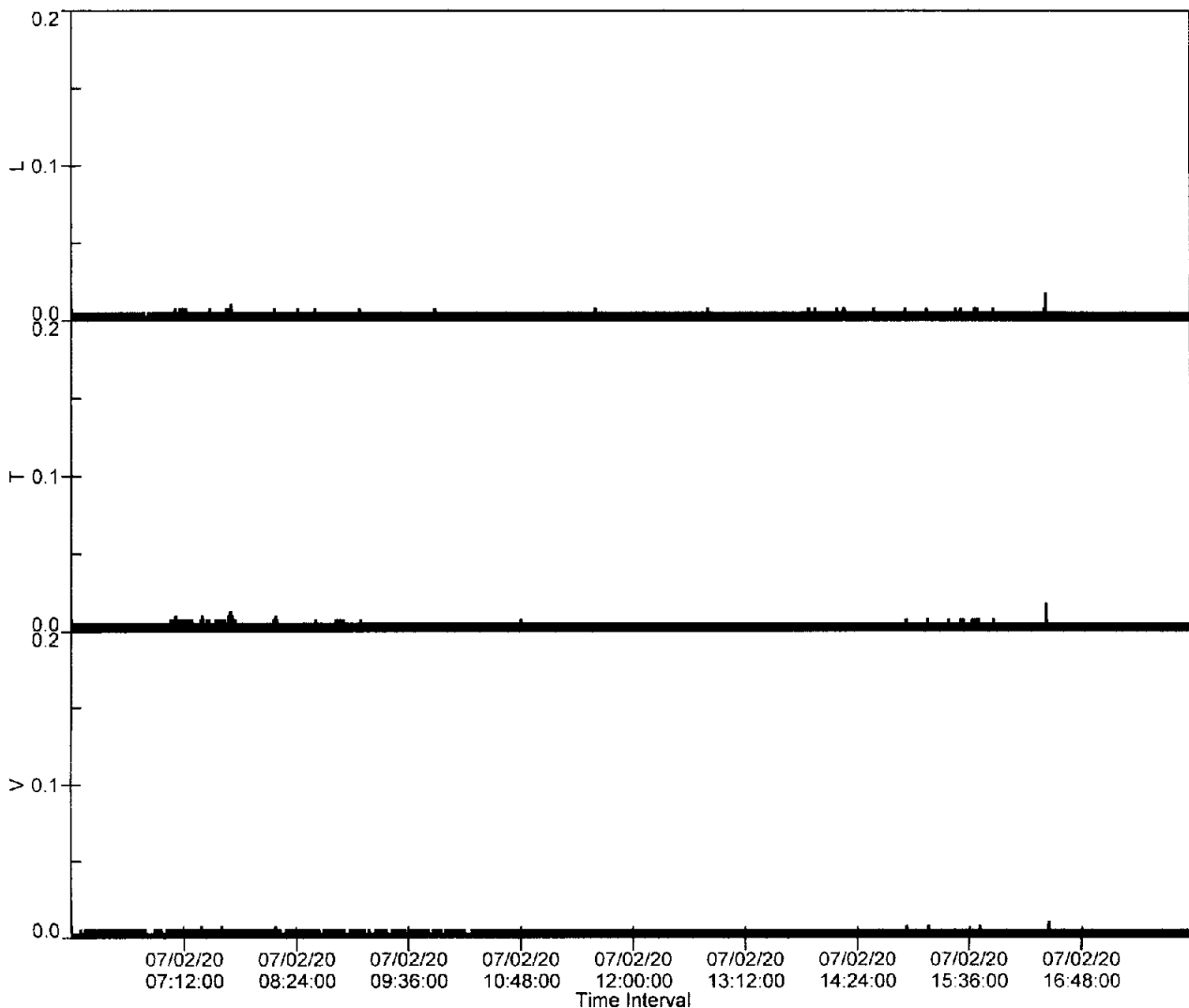
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 11

Record Max PPV: 0.018 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 12  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	10.0	8.5	12.2
Peak Air Pressure:	78 db		

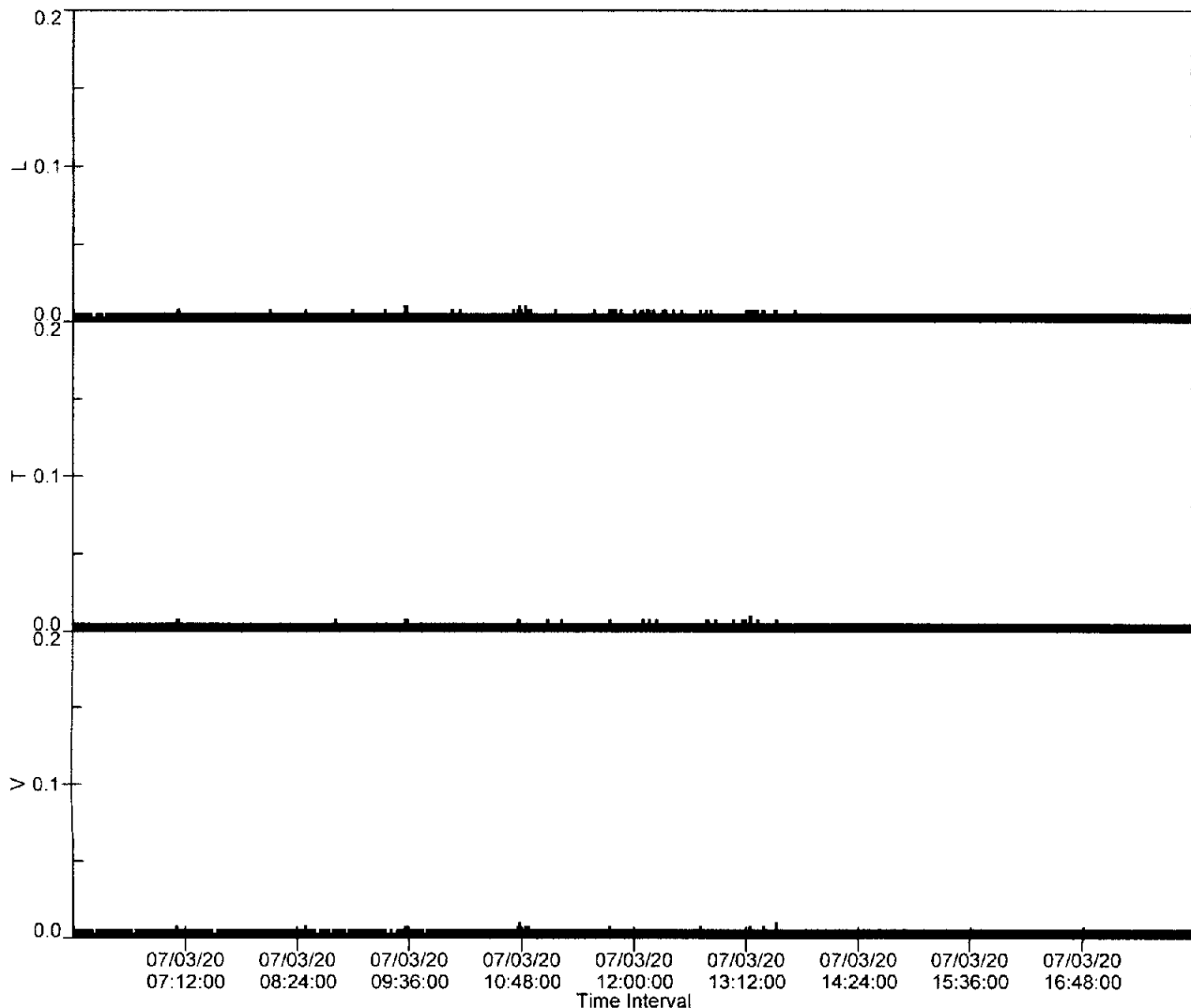
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 12

Record Max PPV: 0.010 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 13  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.5	2.2	.3
Peak Air Pressure:	78 db		

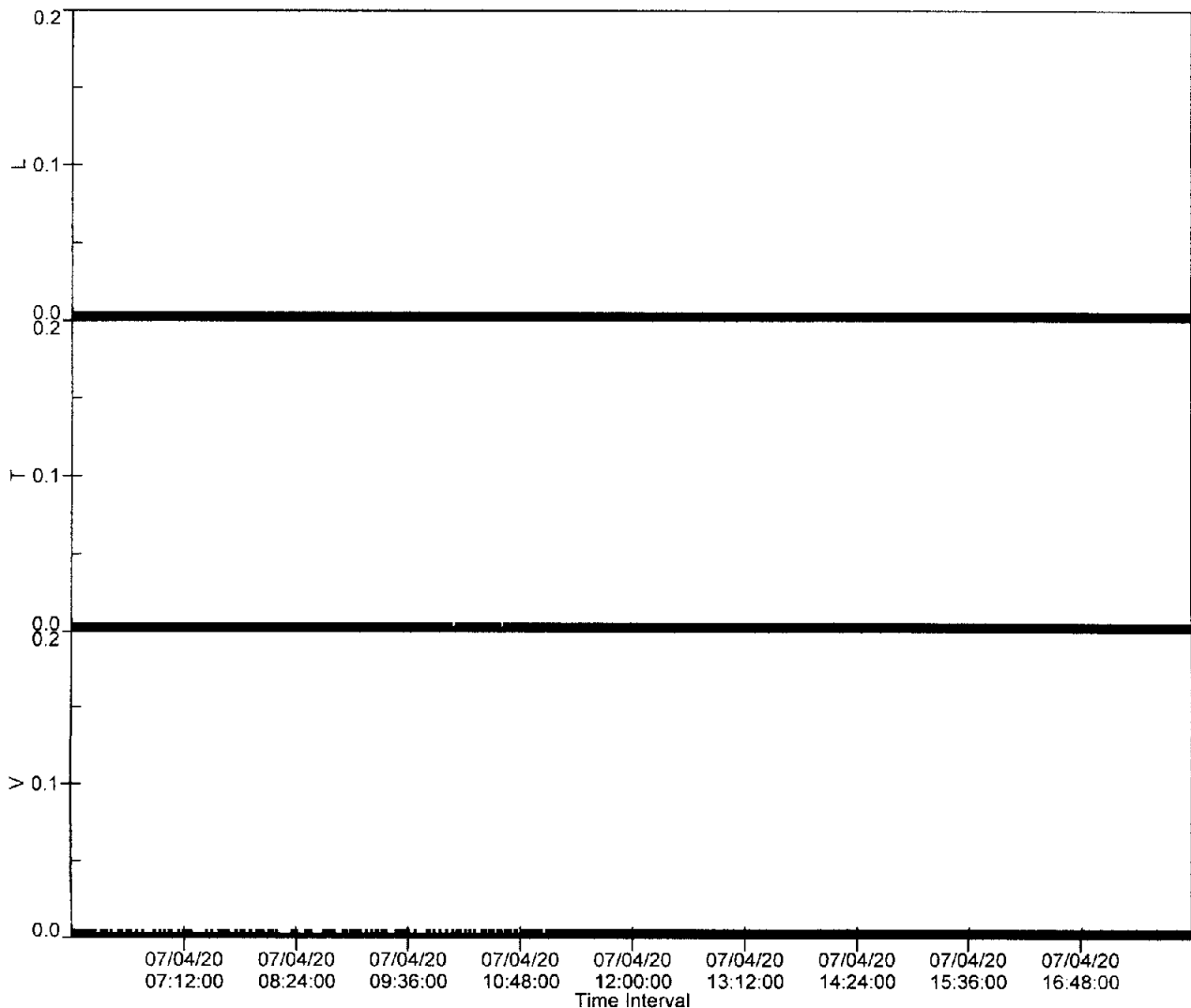
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 13

Record Max PPV: 0.008 in/s Record Max DB: 78 db



**SN:** 3802 v3.22  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 14  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #5 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** SE CORNER UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.010
<b>FREQ (Hz)</b>	.6	17.9	.3
<b>Peak Air Pressure:</b>	78 db		

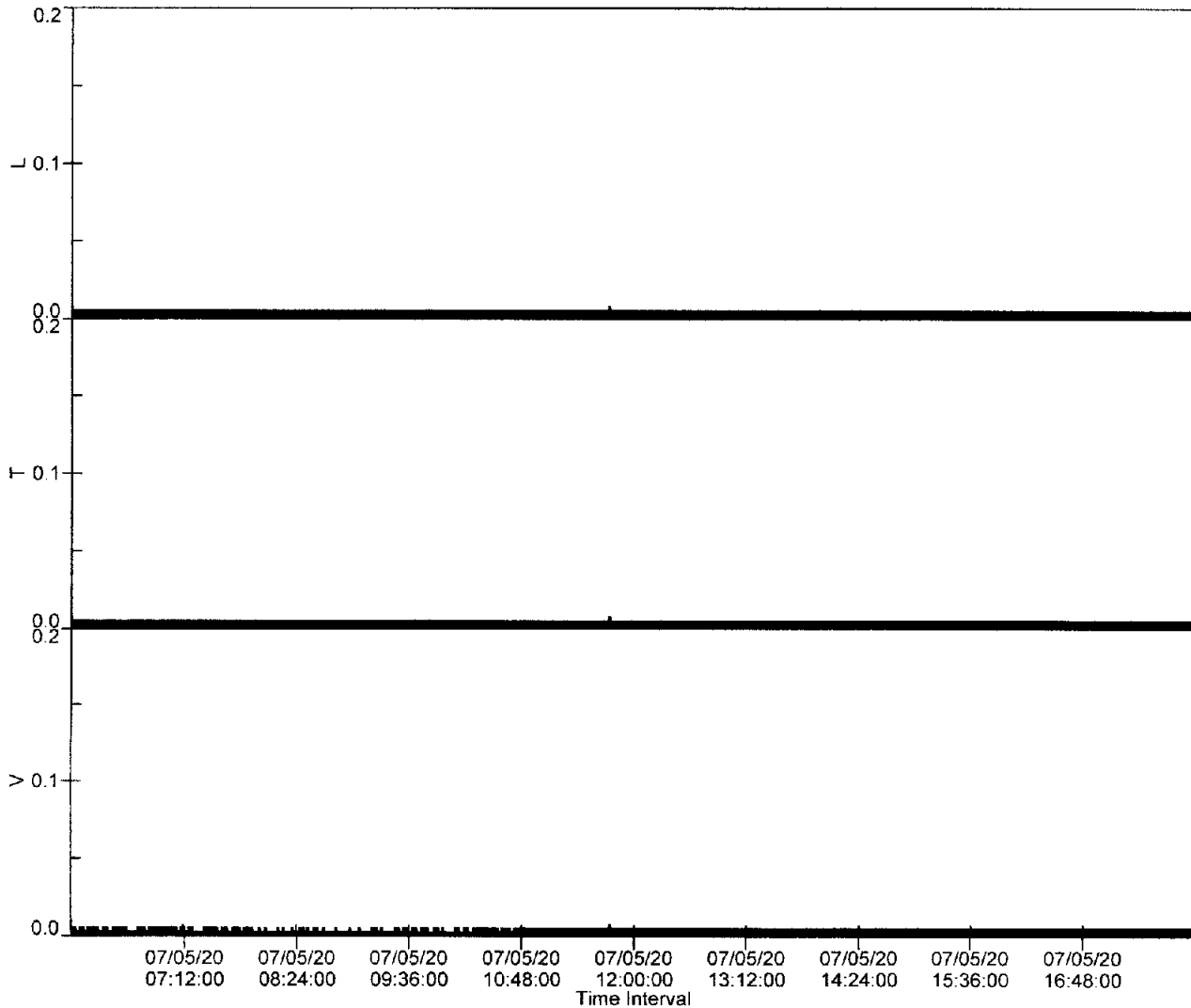
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 14

Record Max PPV: 0.010 in/s Record Max DB: 78 db





**SN:** 3775 v3.22  
**Date:** 06/22/2020 **Time:** 06:33:00  
**Event:** 50  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.020	0.023	0.028
<b>FREQ (Hz)</b>	16.7	14.7	12.5
<b>Peak Air Pressure:</b>	78 db		

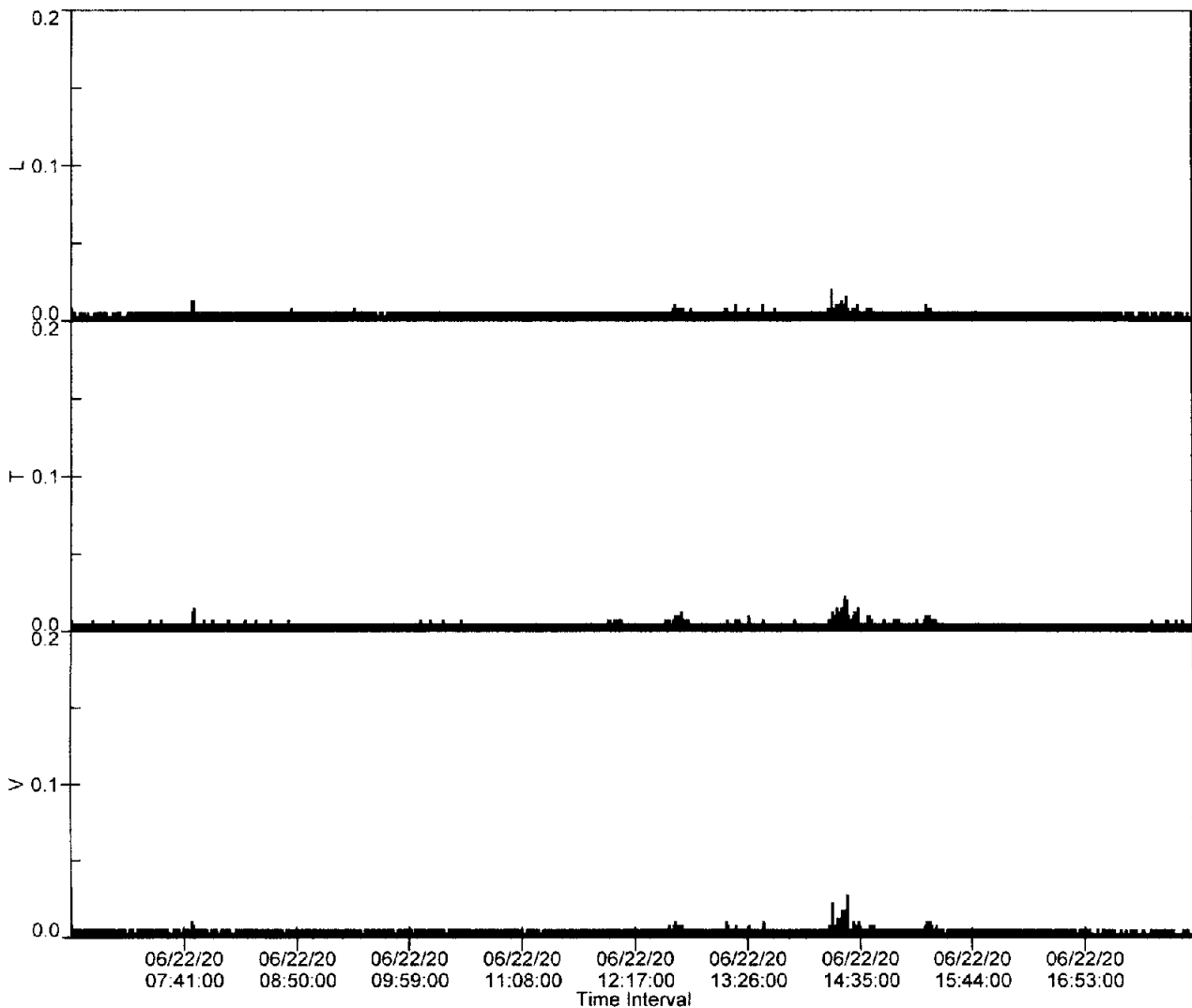
**Recording Time:** 686 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 50

Record Max PPV: 0.028 in/s Record Max DB: 78 db





**SN:** 3775 v3.22  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 51  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.010	0.023	0.013
<b>FREQ (Hz)</b>	13.9	13.2	13.5
<b>Peak Air Pressure:</b>	78 db		

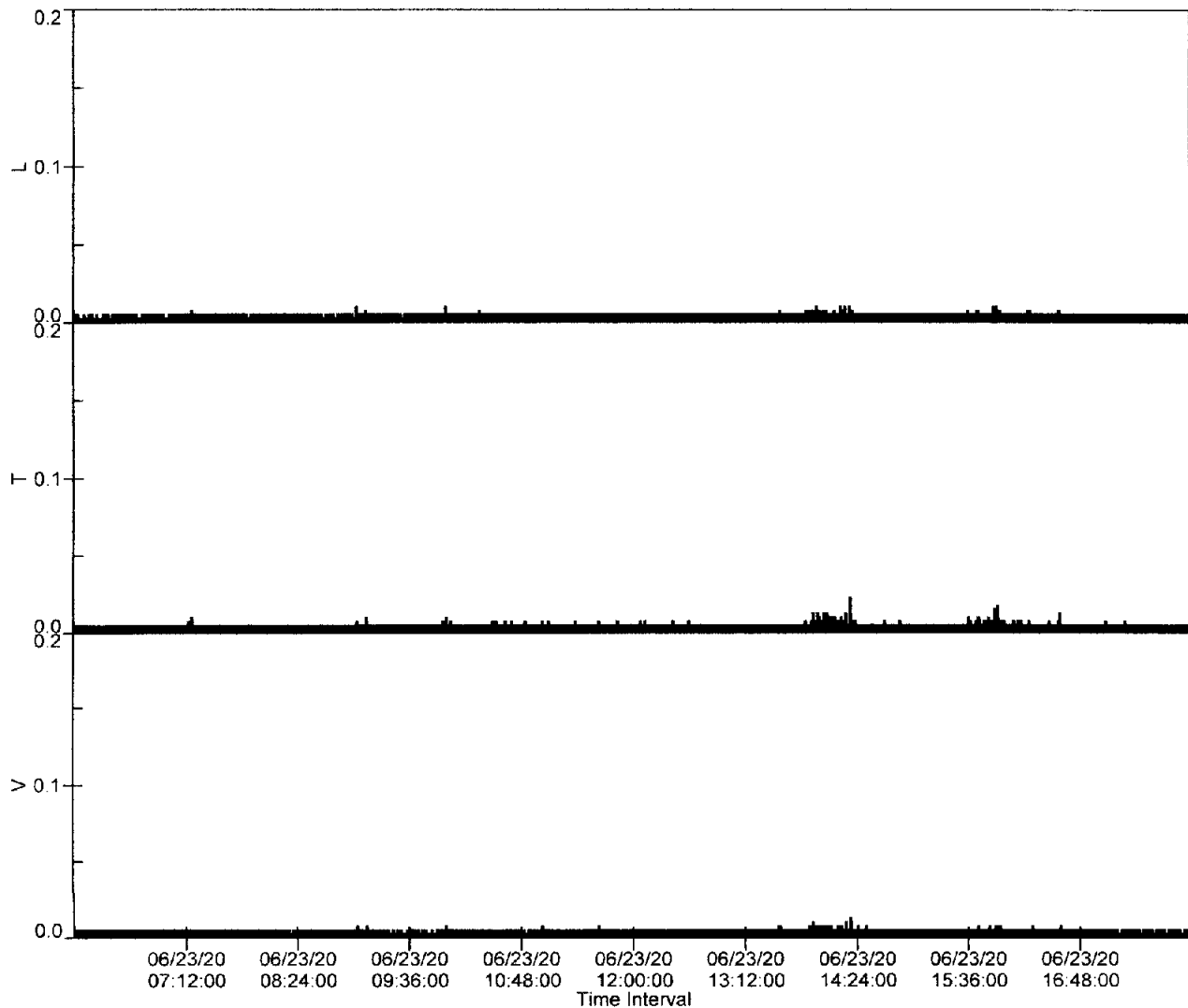
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 51

Record Max PPV: 0.023 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 06/24/2020 **Time:** 06:01:00  
**Event:** 52  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording  
Summary Data**

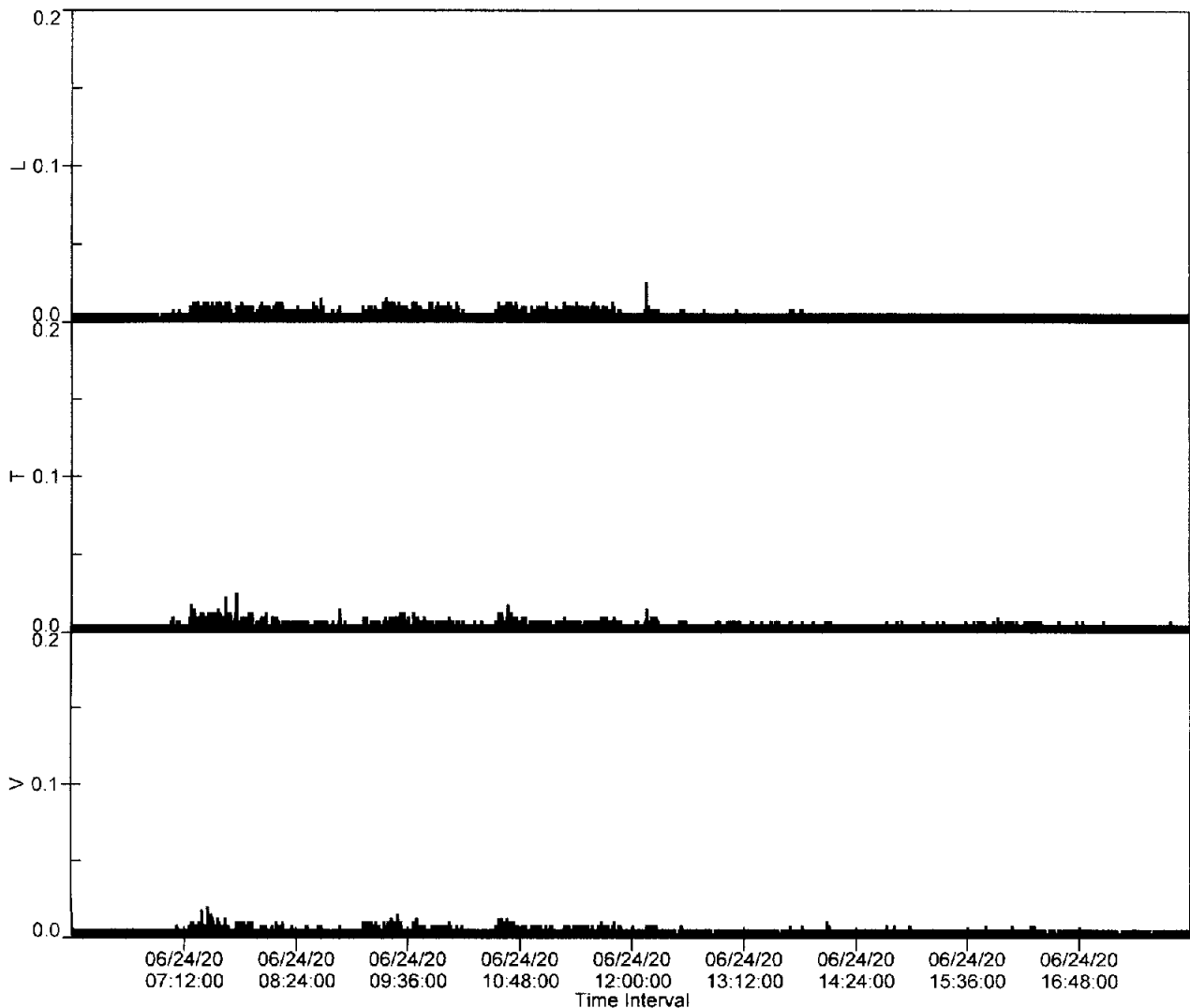
	L	T	V
<b>PPV (in/s)</b>	0.025	0.025	0.020
<b>FREQ (Hz)</b>	10.9	13.2	7.6
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 52

Record Max PPV: 0.025 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 53  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.015	0.020	0.020
<b>FREQ (Hz)</b>	13.5	9.1	12.5
<b>Peak Air Pressure:</b>	78 db		

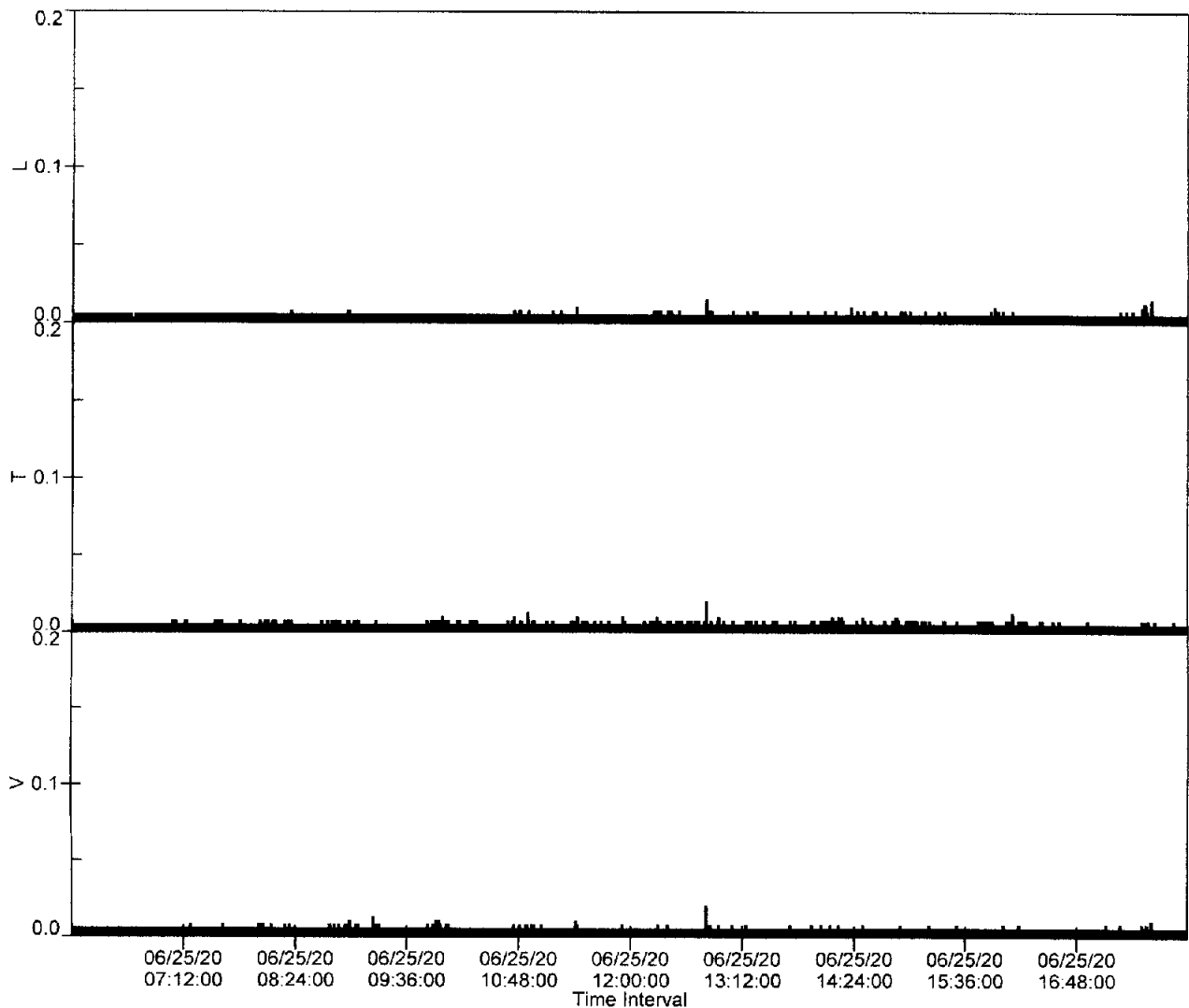
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 53

Record Max PPV: 0.020 in/s Record Max DB: 78 db



SN: 3775 v3.22  
Date: 06/26/2020 Time: 06:01:00  
Event: 54  
Client: BERGER CONST  
Operation: EXCAVATION  
Location: #6 WSNSP  
Distance: 25.  
Operator: CTI INC  
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording  
Summary Data

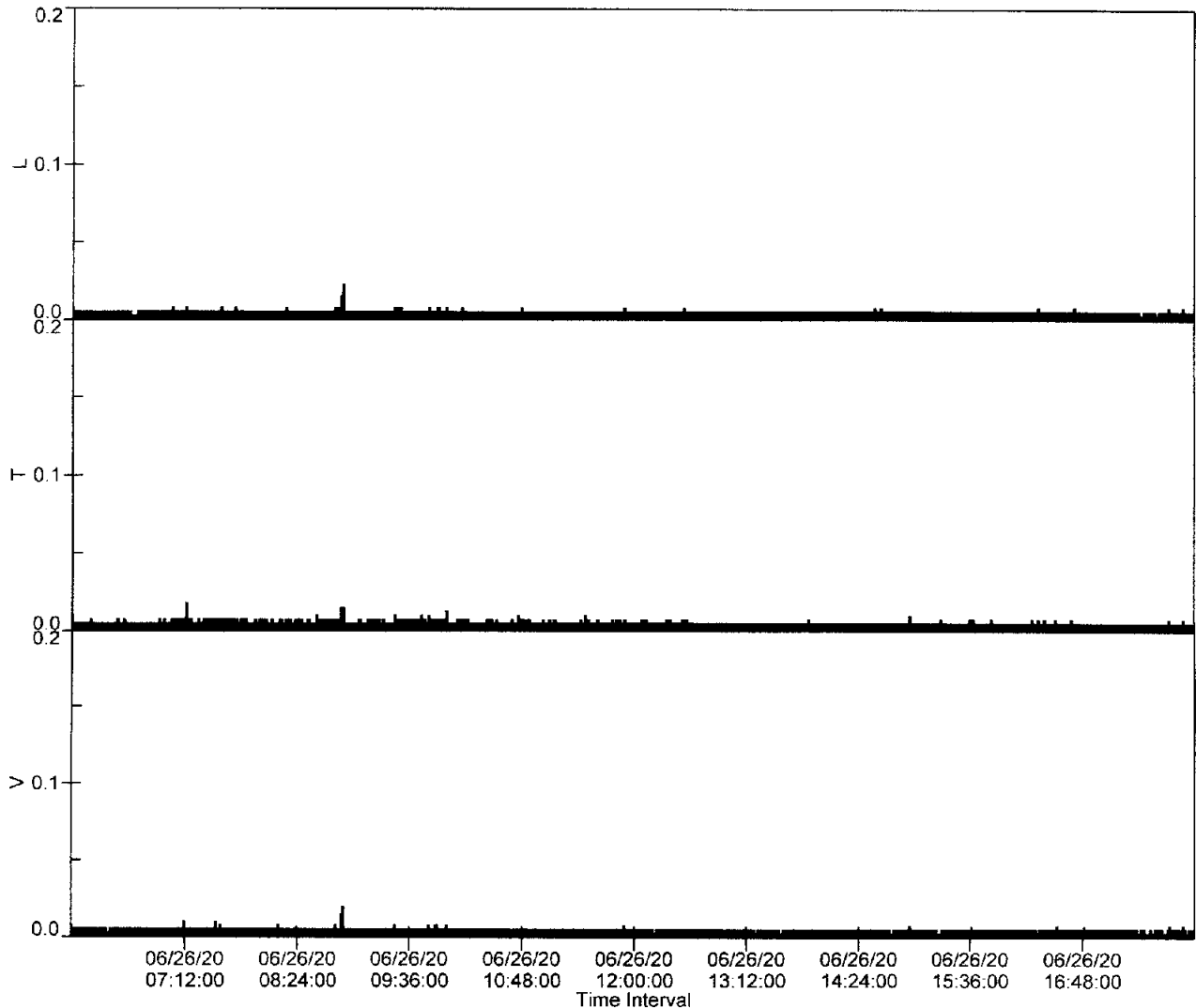
	L	T	V
PPV (in/s)	0.023	0.018	0.020
FREQ (Hz)	13.9	9.1	11.6
Peak Air Pressure: 78 db			
Recording Time: 718 minutes			
Sample Size: 1440			
Interval Size: 60 seconds			

Additional Info:

Shaketable Calibrated: 04/07/2020  
By: GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 54

Record Max PPV: 0.023 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 06/27/2020 **Time:** 06:01:00  
**Event:** 55  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.020	0.013
<b>FREQ (Hz)</b>	11.1	12.8	11.1
<b>Peak Air Pressure:</b>	78 db		

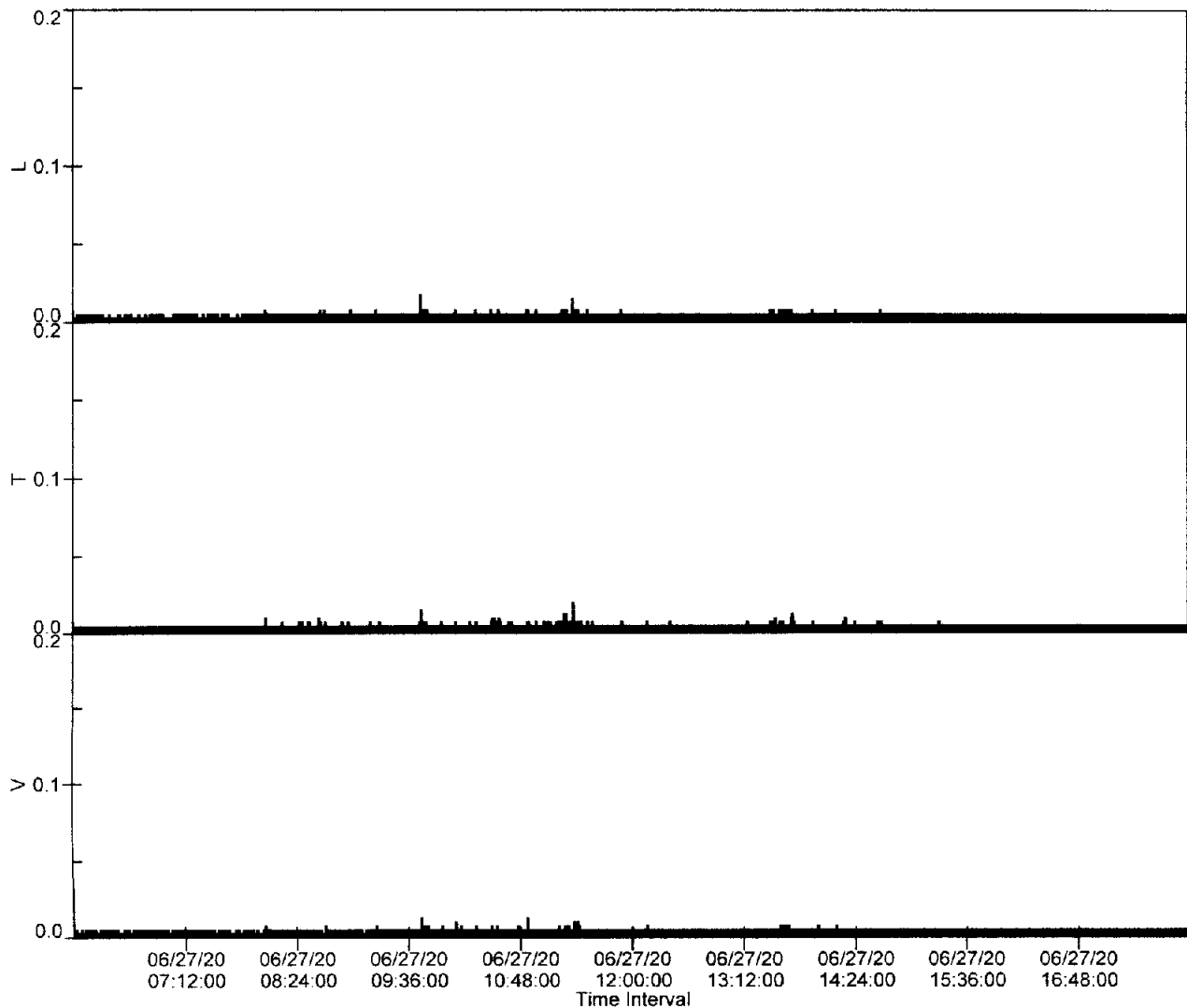
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 55

Record Max PPV: 0.020 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 06/28/2020 **Time:** 06:01:00  
**Event:** 56  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording  
Summary Data**

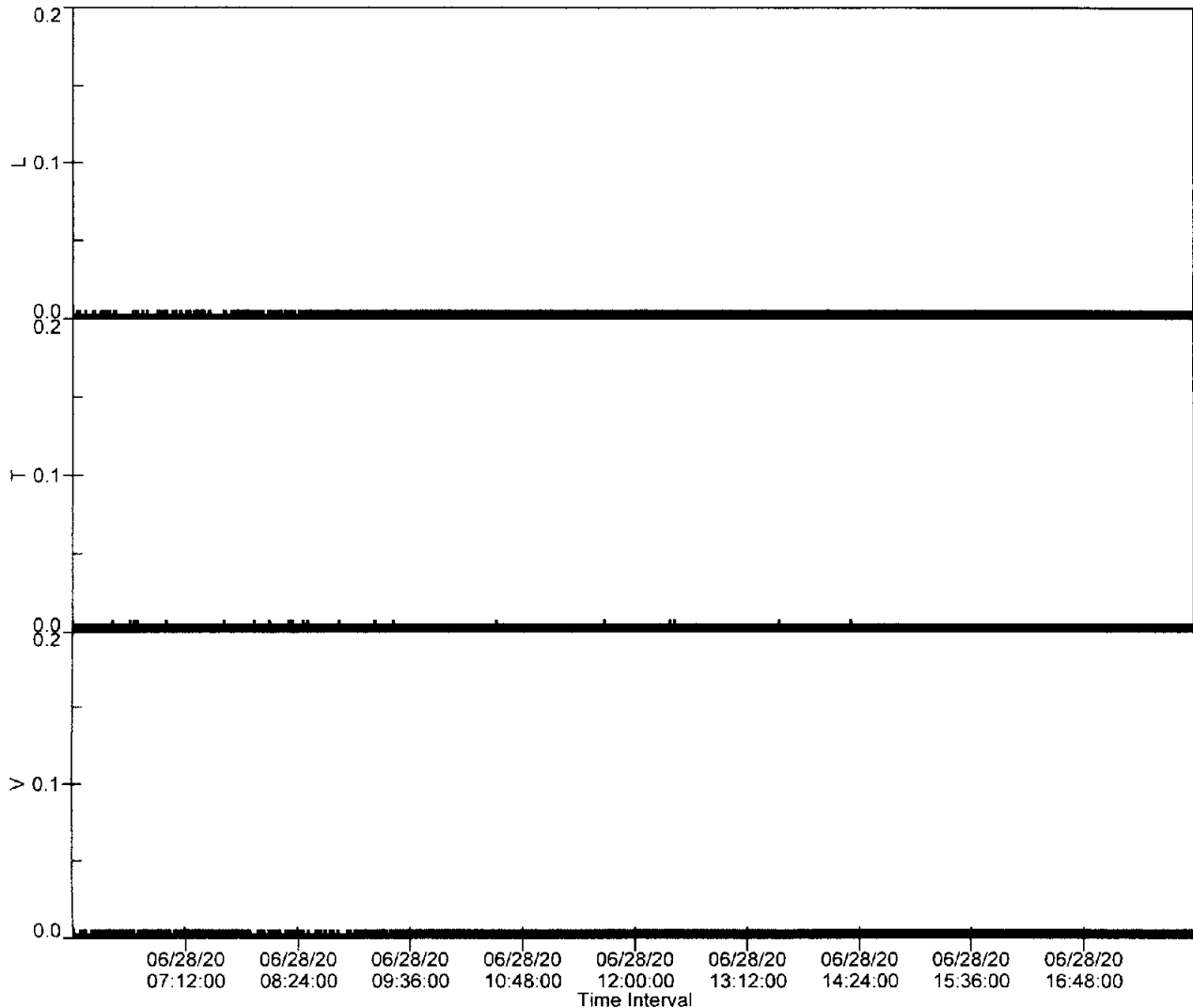
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	.5	2.1	.4
<b>Peak Air Pressure: 78 db</b>			
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 56

Record Max PPV: 0.008 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 57  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.025	0.015
<b>FREQ (Hz)</b>	21.7	17.9	26.3
<b>Peak Air Pressure:</b>	78 db		

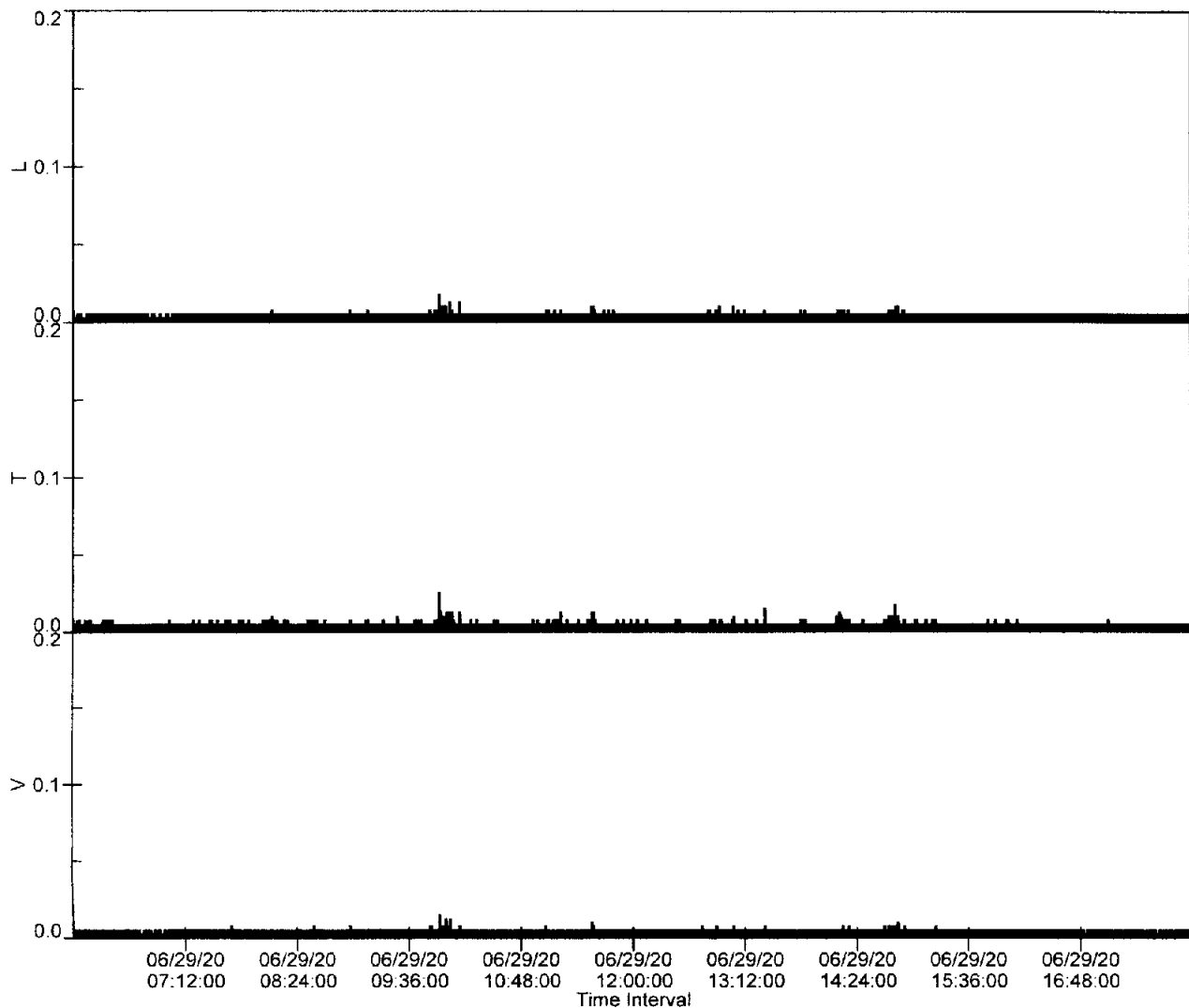
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 57

Record Max PPV: 0.025 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 58  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording  
Summary Data**

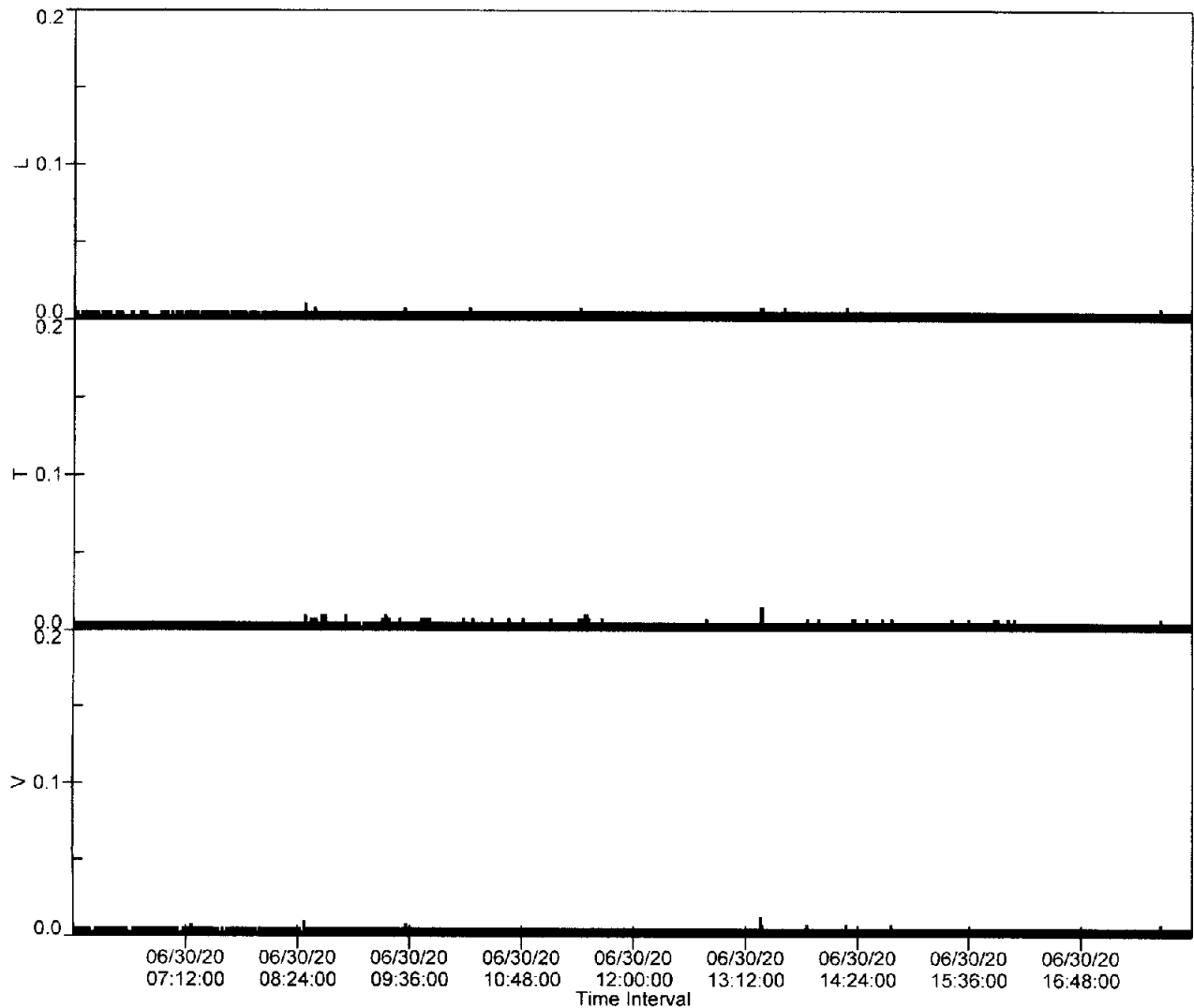
	L	T	V
<b>PPV (in/s)</b>	0.010	0.015	0.013
<b>FREQ (Hz)</b>	17.9	10.9	11.1
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 58

Record Max PPV: 0.015 in/s Record Max DB: 78 db





**SN:** 3775 v3.22  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 59  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNSP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording  
Summary Data**

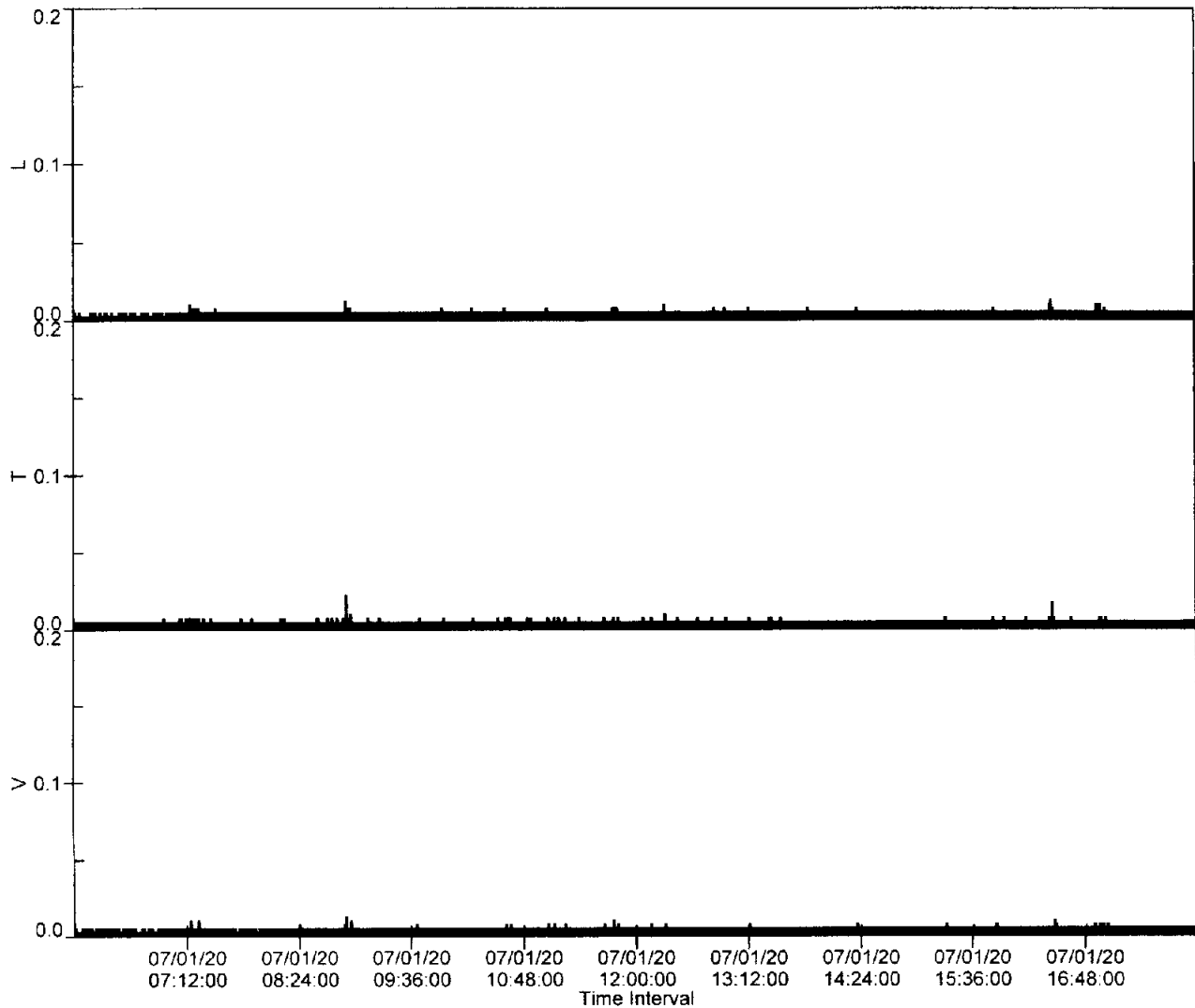
	L	T	V
<b>PPV (in/s)</b>	0.013	0.023	0.013
<b>FREQ (Hz)</b>	22.7	17.9	20.8
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 59

Record Max PPV: 0.023 in/s Record Max DB: 78 db



SN: 3775 v3.22  
Date: 07/02/2020 Time: 06:01:00  
Event: 60  
Client: BERGER CONST  
Operation: EXCAVATION  
Location: #6 WSNSP  
Distance: 25.  
Operator: CTI INC  
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording  
Summary Data

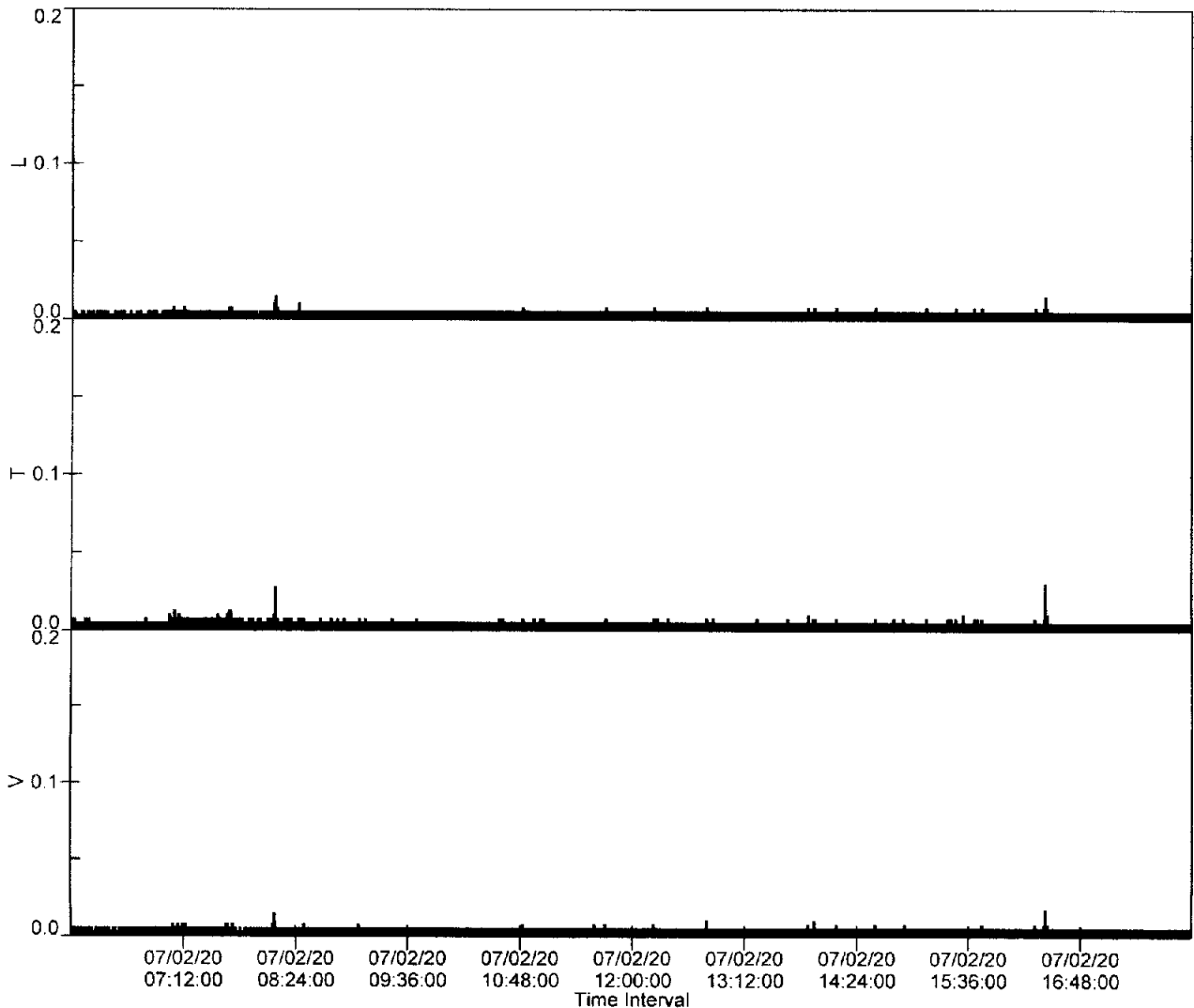
	L	T	V
PPV (in/s)	0.015	0.030	0.018
FREQ (Hz)	22.7	17.2	21.7
Peak Air Pressure: 78 db			
Recording Time: 718 minutes			
Sample Size: 1440			
Interval Size: 60 seconds			

Additional Info:

Shaketable Calibrated: 04/07/2020  
By: GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 60

Record Max PPV: 0.030 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 61  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording  
Summary Data**

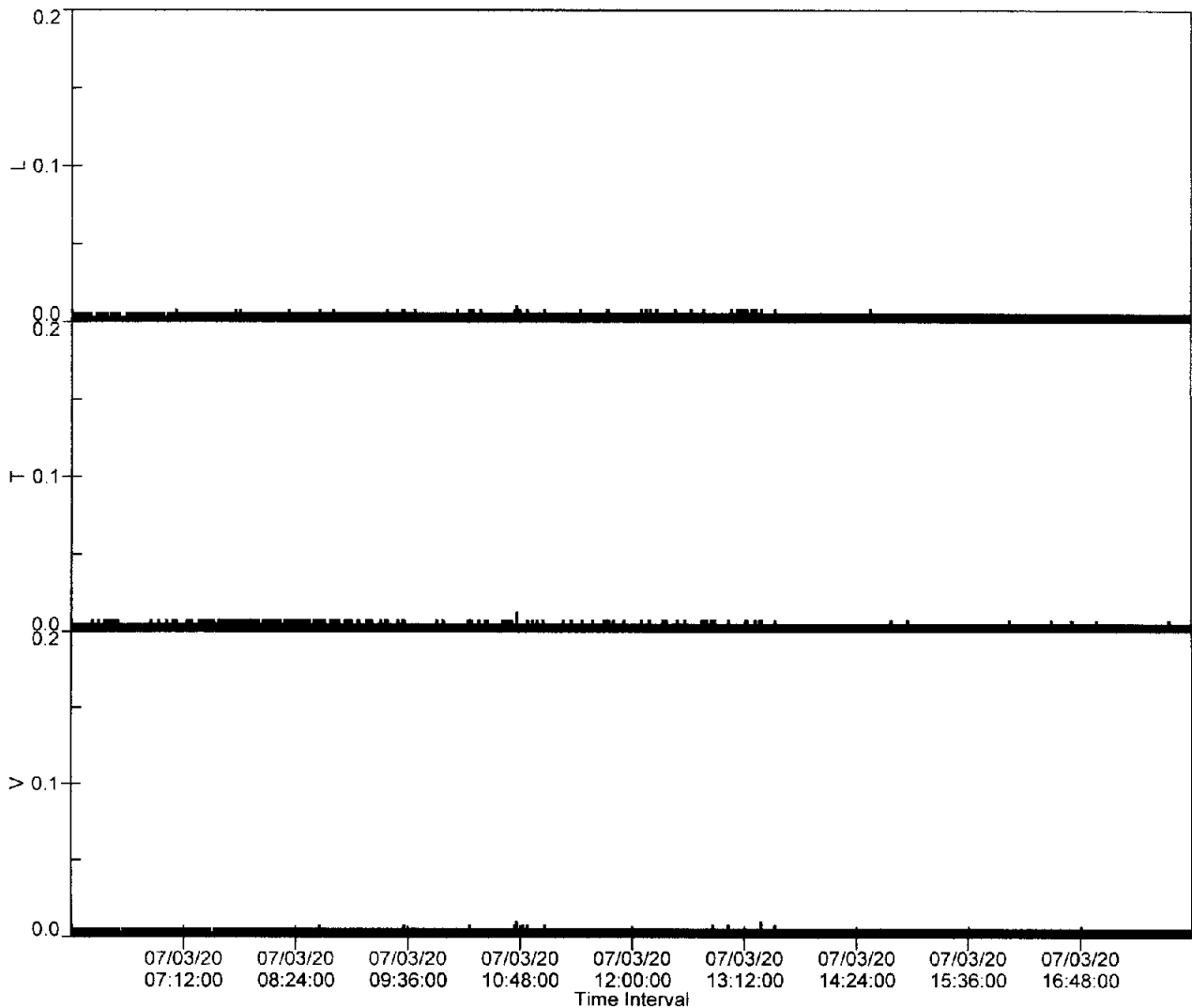
	L	T	V
<b>PPV (in/s)</b>	0.010	0.013	0.010
<b>FREQ (Hz)</b>	13.9	9.6	9.3
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 61

Record Max PPV: 0.013 in/s Record Max DB: 78 db



**SN:** 3775 v3.22  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 62  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	.4	41.7	.4
<b>Peak Air Pressure:</b>	87 db		

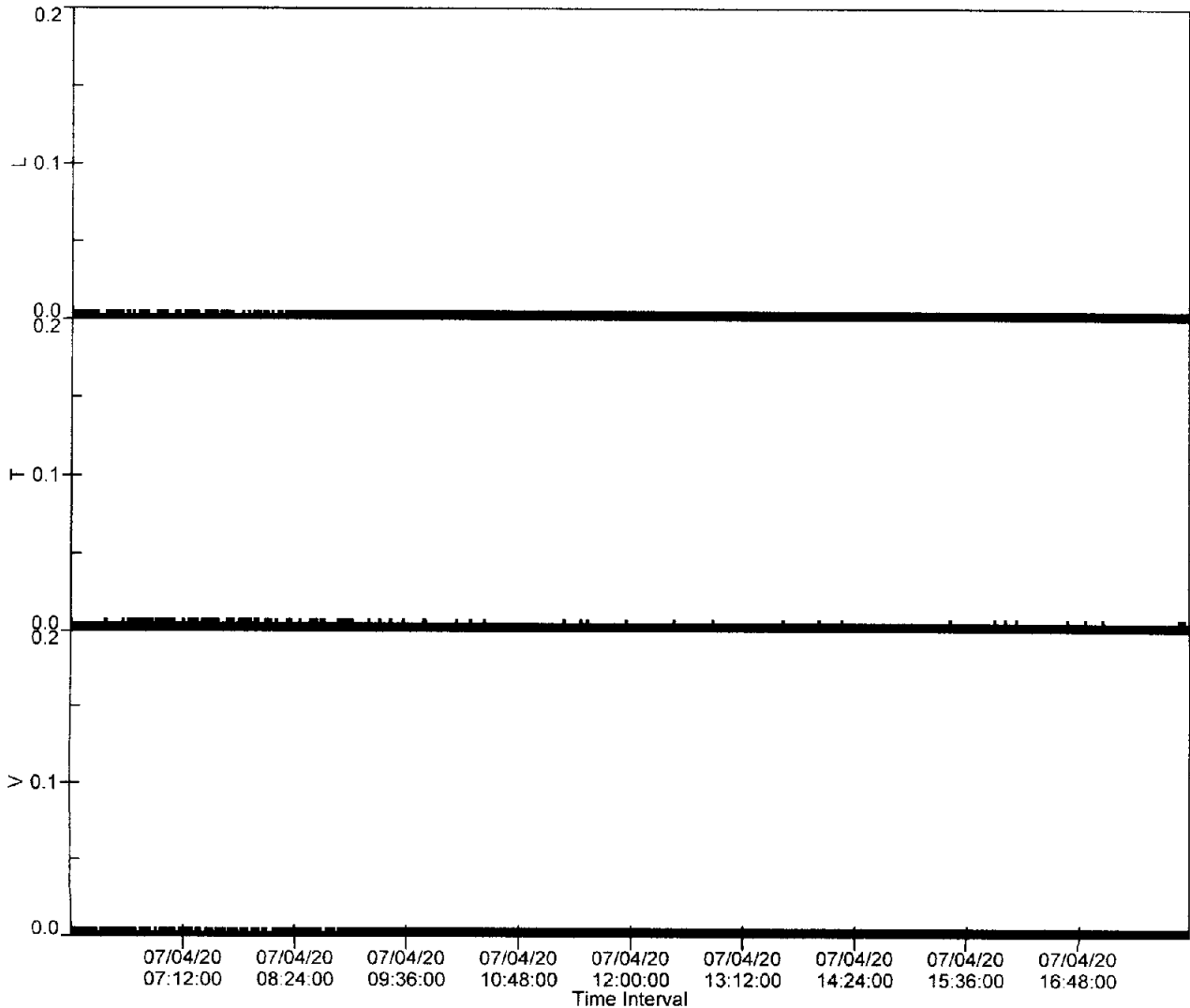
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 62

Record Max PPV: 0.008 in/s Record Max DB: 87 db



**SN:** 3775 v3.22  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 63  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #6 WSNP  
**Distance:** 25.  
**Operator:** CTI INC  
**Comment:** 2412 MEADOW DRIVE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	.3	45.5	1.8
<b>Peak Air Pressure:</b>	78 db		

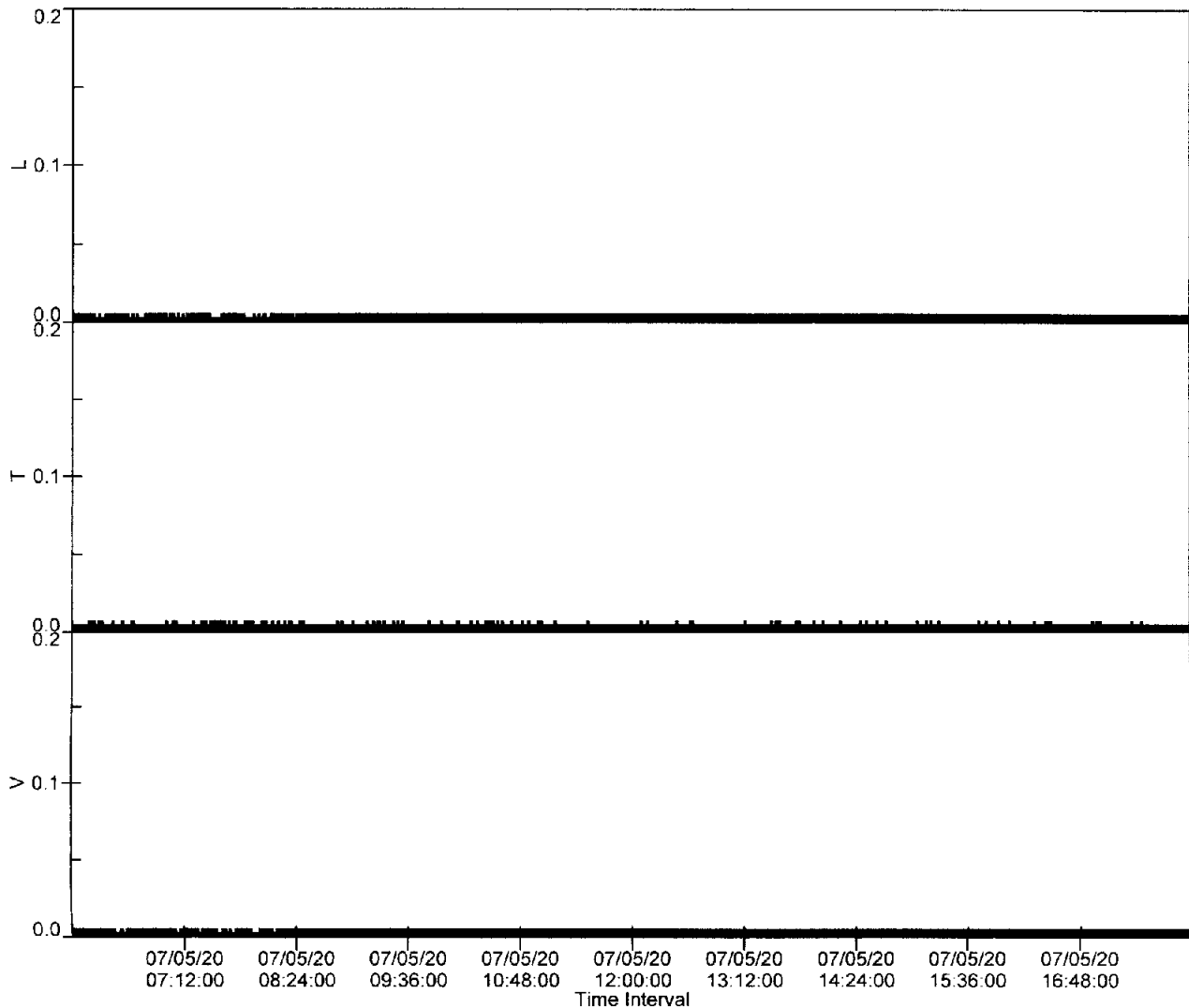
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 04/07/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 63

Record Max PPV: 0.008 in/s Record Max DB: 78 db





**SN:** 3733 v3.22  
**Date:** 06/22/2020 **Time:** 06:40:00  
**Event:** 50  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNSP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

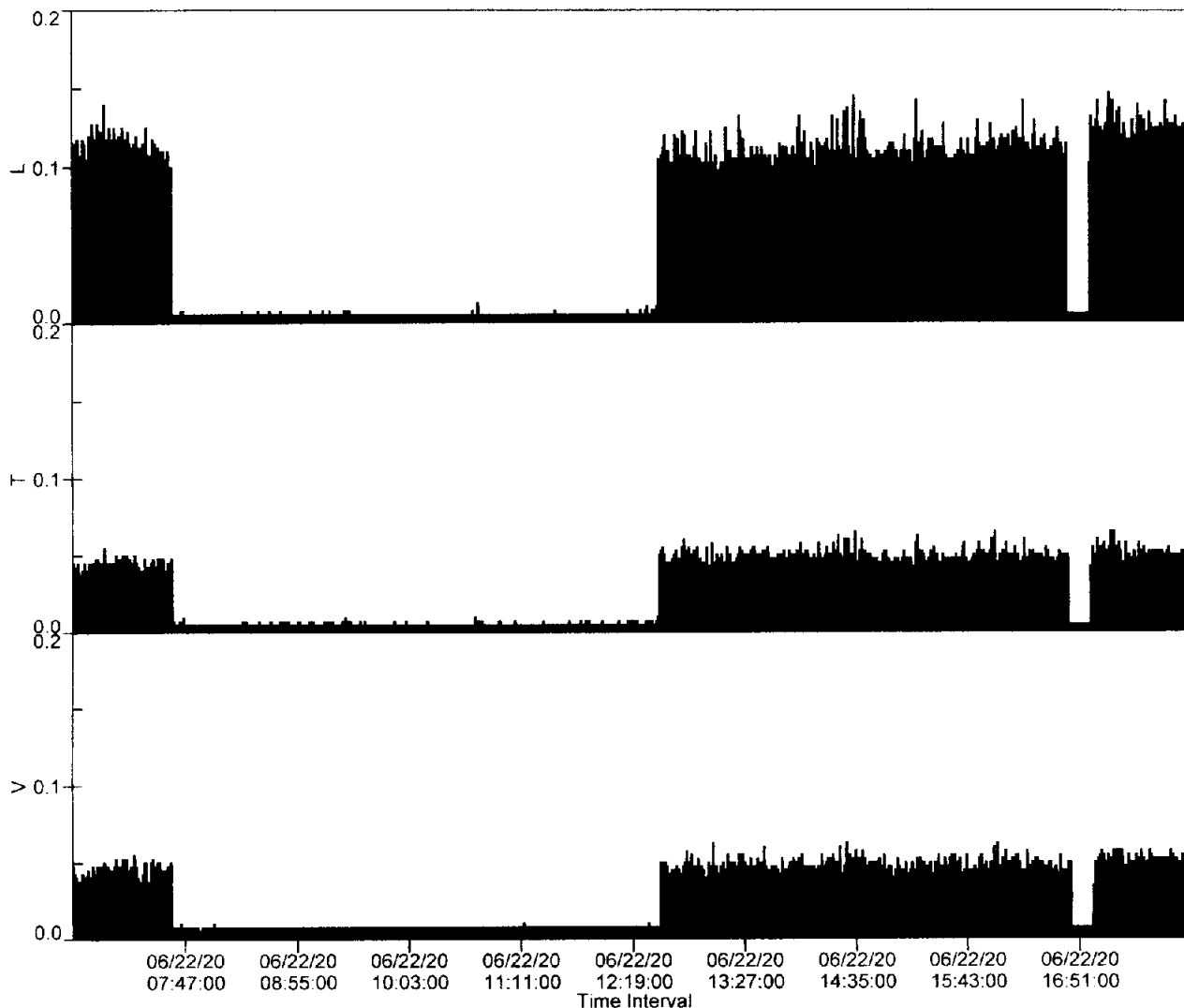
	L	T	V
<b>PPV (in/s)</b>	0.155	0.065	0.063
<b>FREQ (Hz)</b>	50.0	250.0	250.0
<b>Peak Air Pressure:</b>	116 db		
<b>Recording Time:</b>	679 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 50

Record Max PPV: 0.155 in/s Record Max DB: 116 db



**SN:** 3733 v3.22  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 51  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNRP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.160	0.070	0.070
<b>FREQ (Hz)</b>	35.7	6.3	166.7
<b>Peak Air Pressure: 116 db</b>			

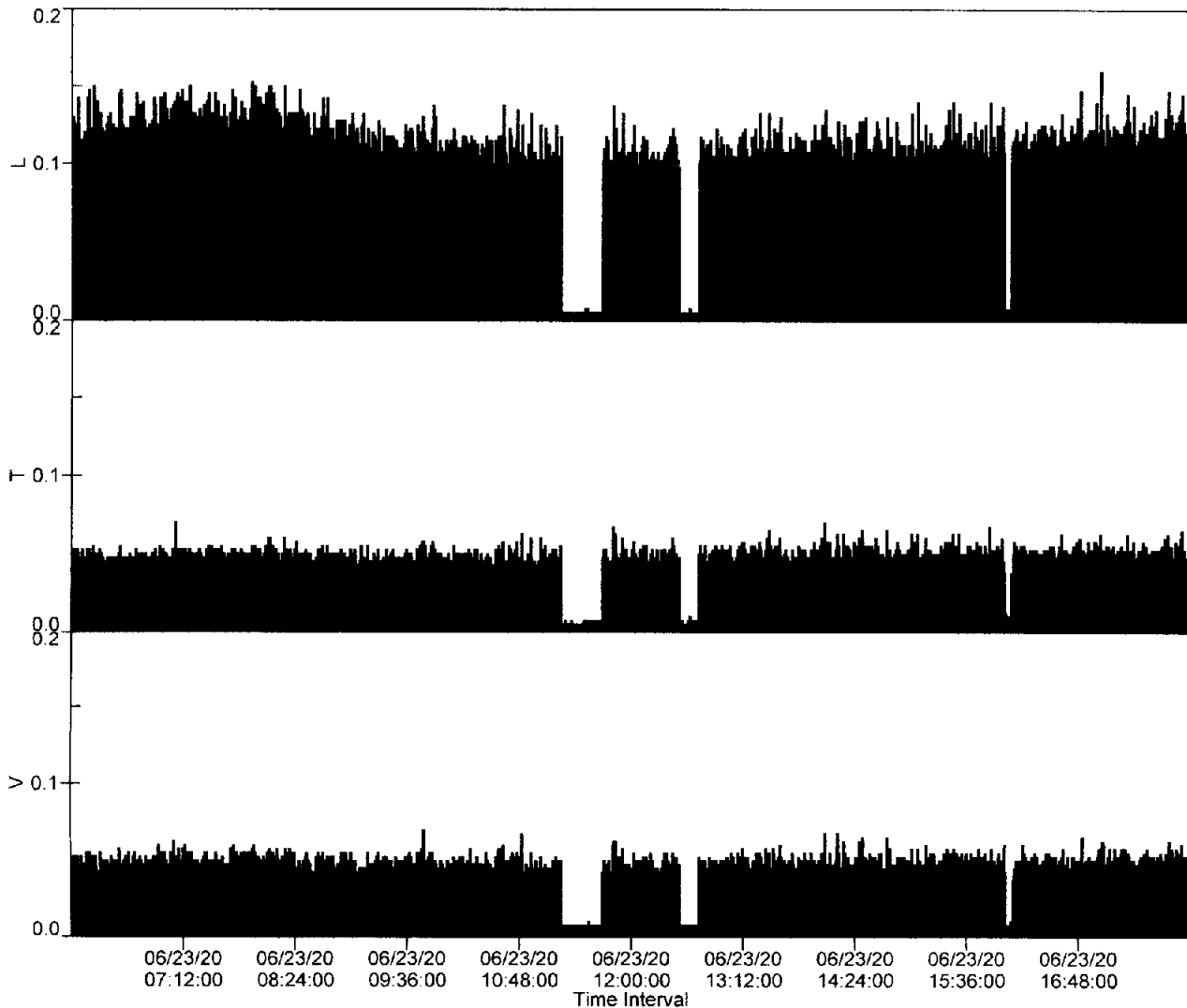
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 51

Record Max PPV: 0.160 in/s Record Max DB: 116 db





**SN:** 3733 v3.22  
**Date:** 06/24/2020 **Time:** 06:01:00  
**Event:** 52  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

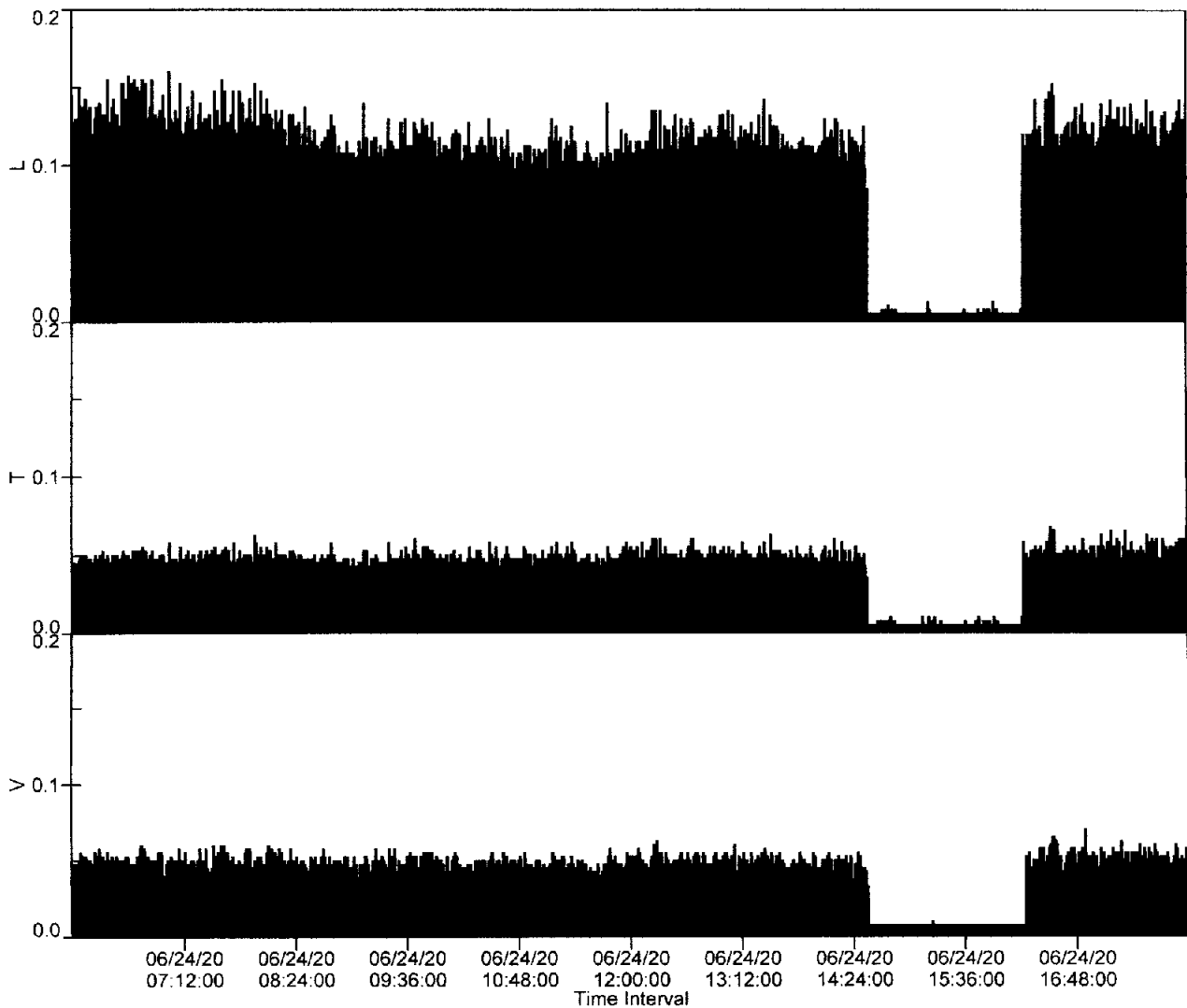
	L	T	V
<b>PPV (in/s)</b>	0.160	0.068	0.070
<b>FREQ (Hz)</b>	41.7	500.0	250.0
<b>Peak Air Pressure:</b>	117 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 52

Record Max PPV: 0.160 in/s Record Max DB: 117 db



**SN:** 3733 v3.22  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 53  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.158	0.095	0.068
<b>FREQ (Hz)</b>	250.0	17.9	500.0
<b>Peak Air Pressure:</b>	116 db		

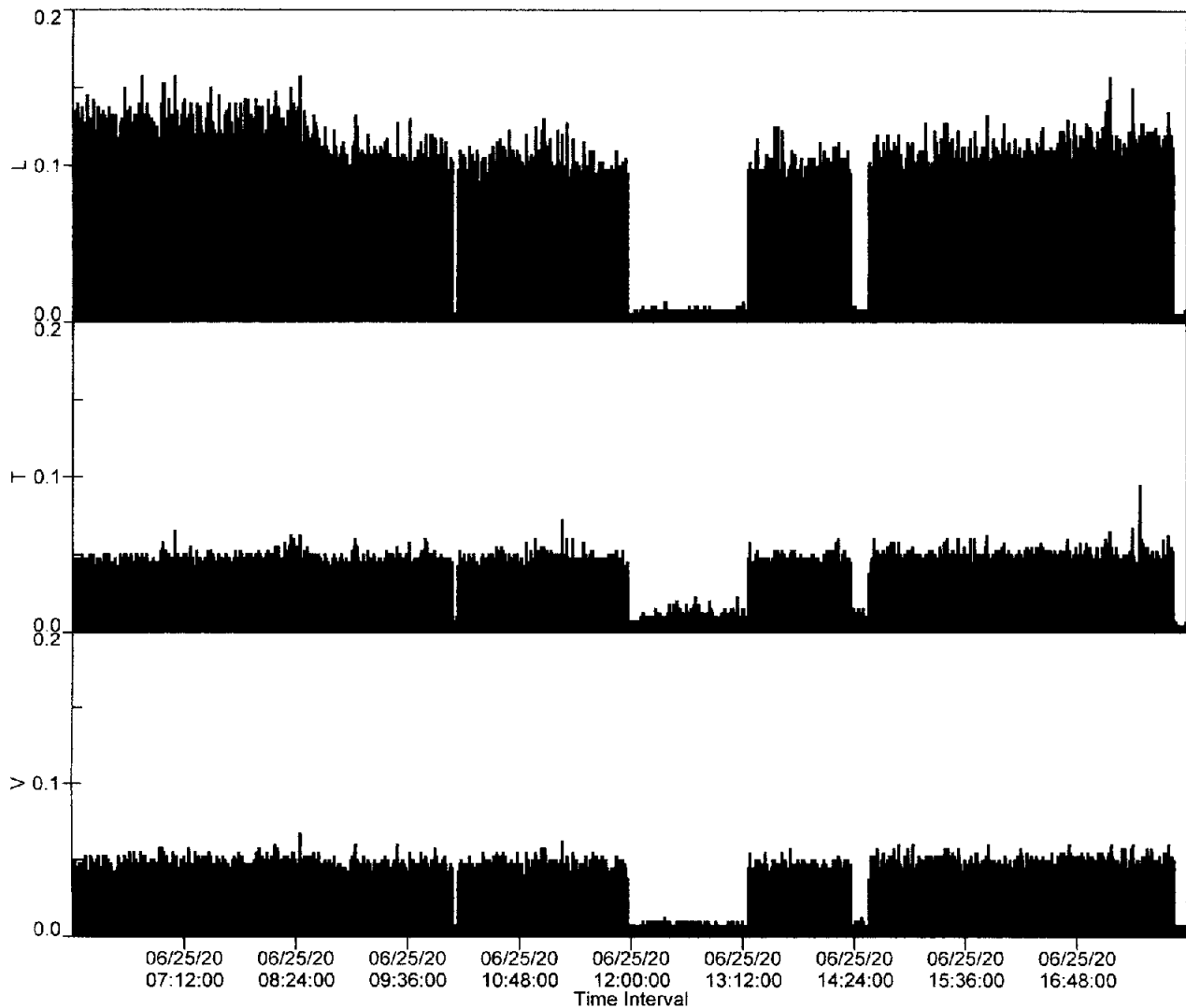
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 53

Record Max PPV: 0.158 in/s Record Max DB: 116 db



**SN:** 3733 v3.22  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 54  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

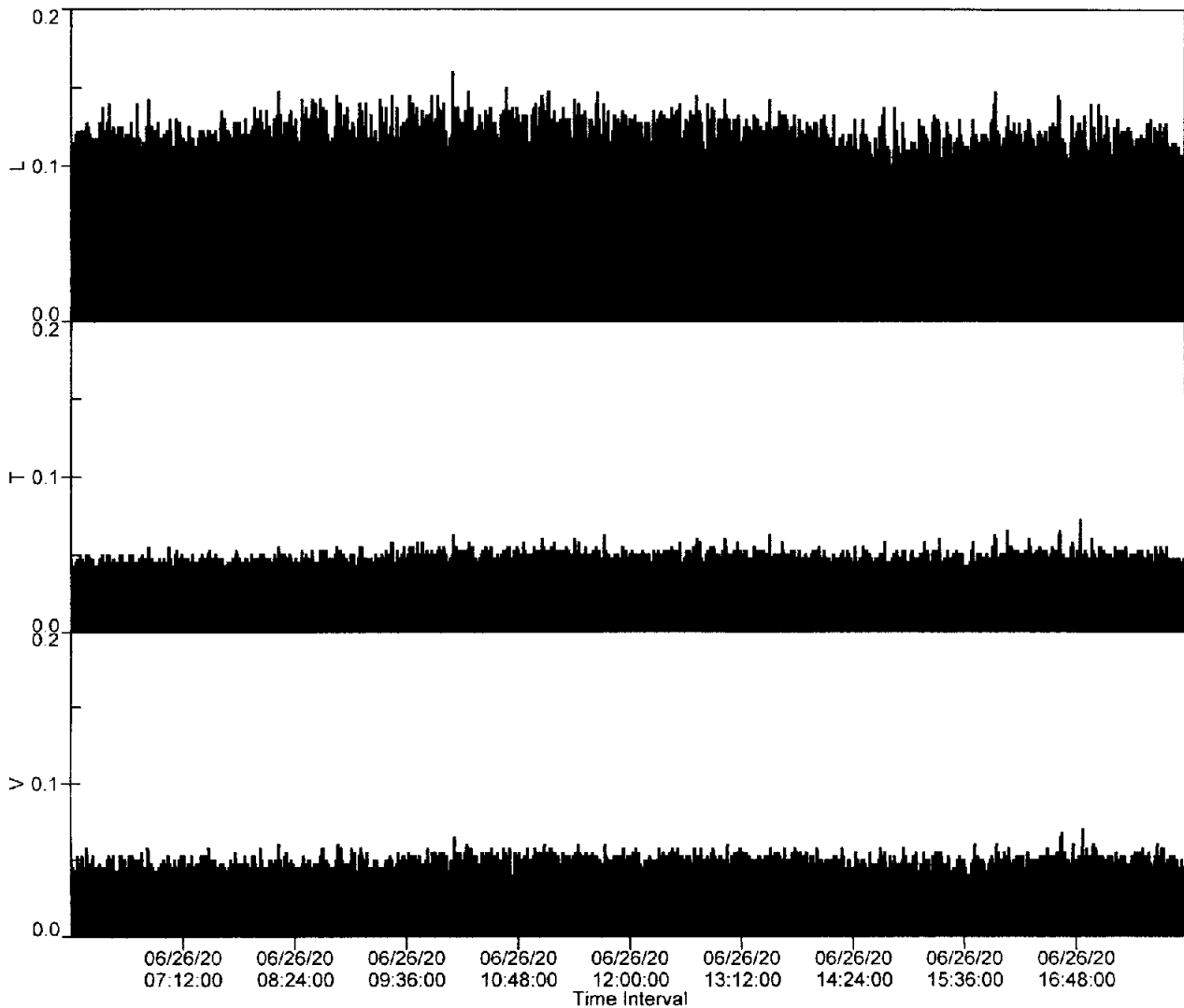
	L	T	V
<b>PPV (in/s)</b>	0.160	0.073	0.070
<b>FREQ (Hz)</b>	100.0	250.0	250.0
<b>Peak Air Pressure:</b>	117 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 54

Record Max PPV: 0.160 in/s Record Max DB: 117 db



**SN:** 3733 v3.22  
**Date:** 06/27/2020 **Time:** 06:01:00  
**Event:** 55  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNSP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.153	0.063	0.063
FREQ (Hz)	125.0	250.0	166.7
Peak Air Pressure:	115 db		

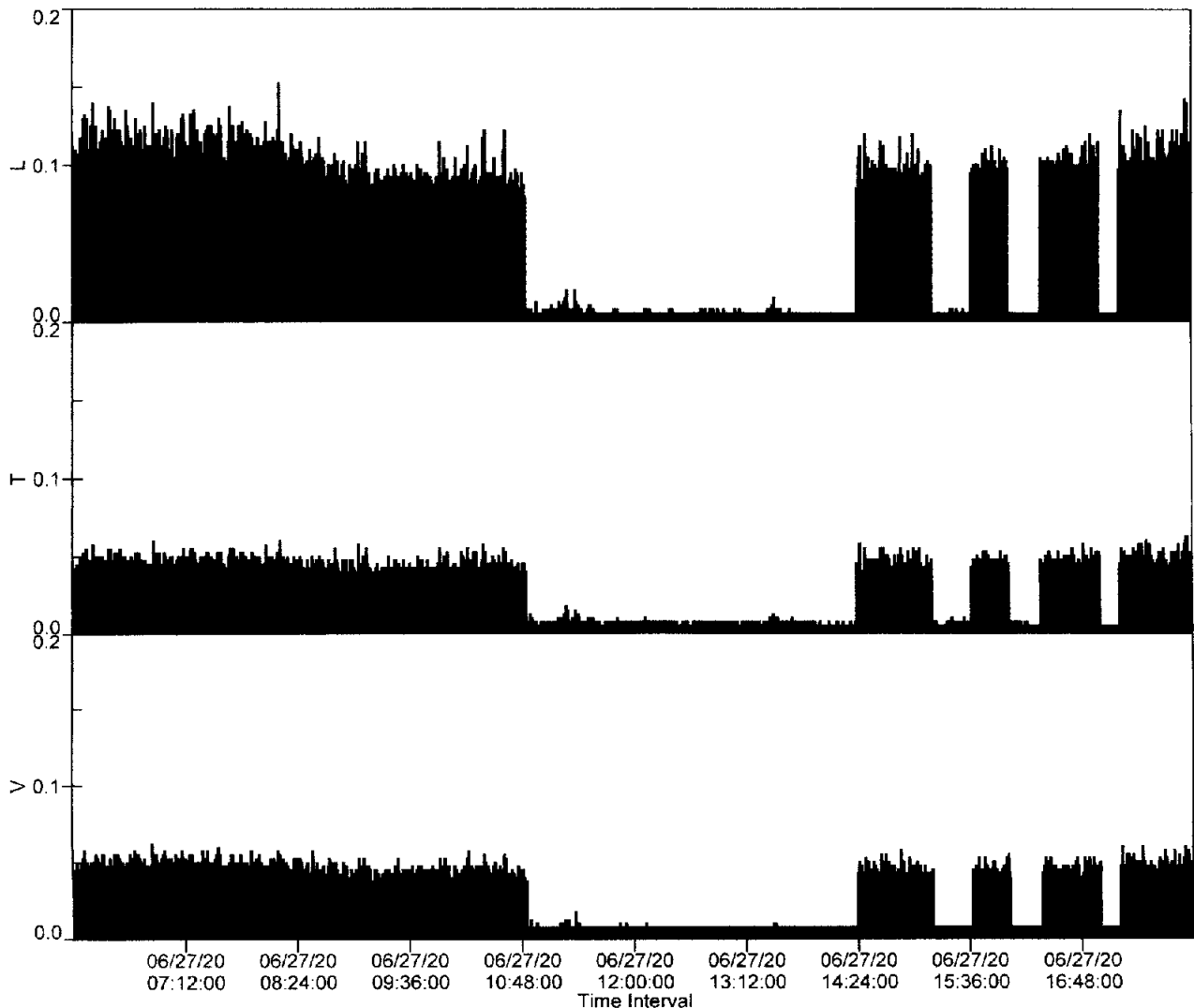
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 55

Record Max PPV: 0.153 in/s Record Max DB: 115 db



**SN:** 3733 v3.22  
**Date:** 06/28/2020 **Time:** 06:01:00  
**Event:** 56  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

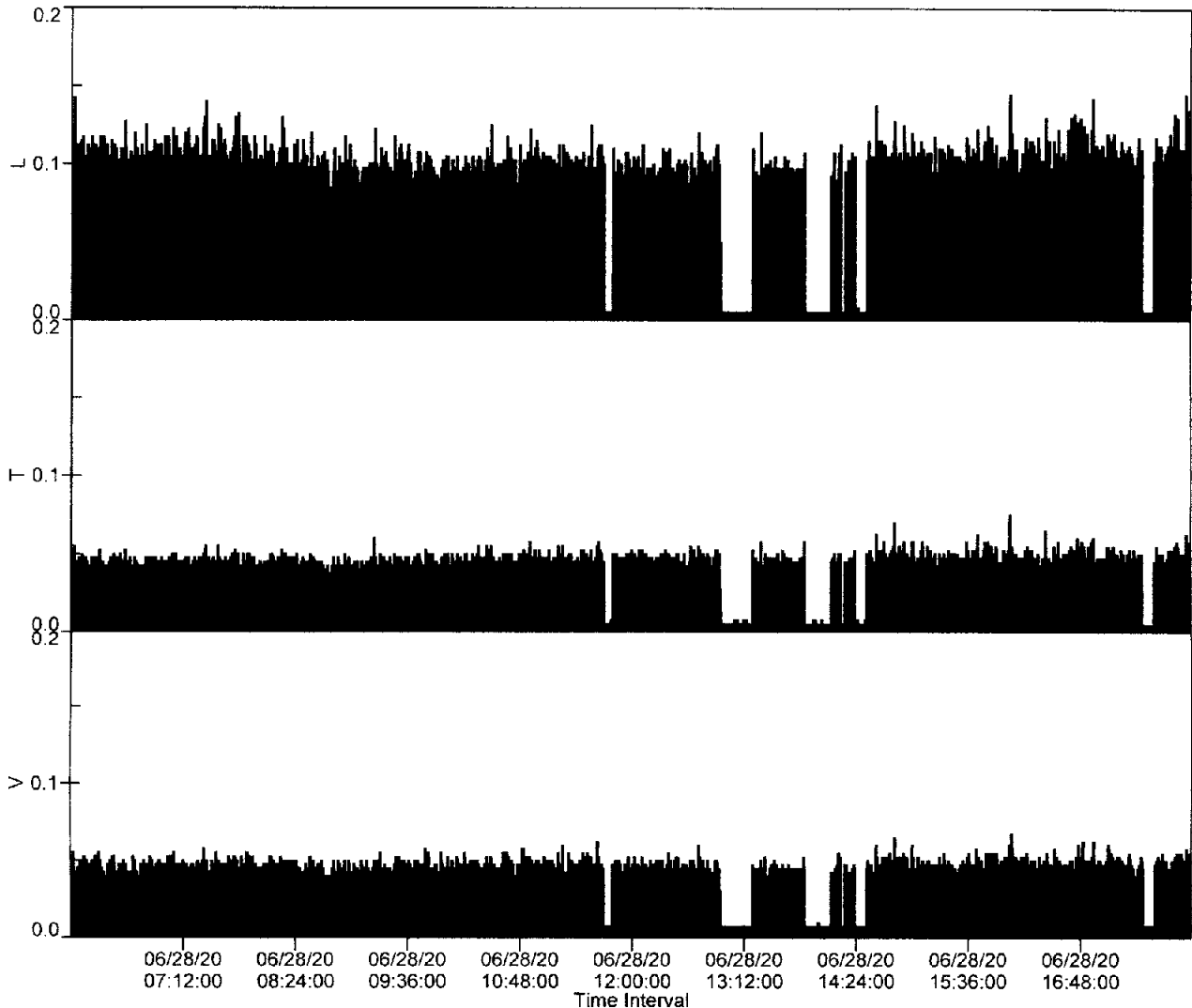
	L	T	V
PPV (in/s)	0.145	0.075	0.068
FREQ (Hz)	100.0	83.3	100.0
Peak Air Pressure:	115 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 56

Record Max PPV: 0.145 in/s Record Max DB: 115 db



**SN:** 3733 v3.22  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 57  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

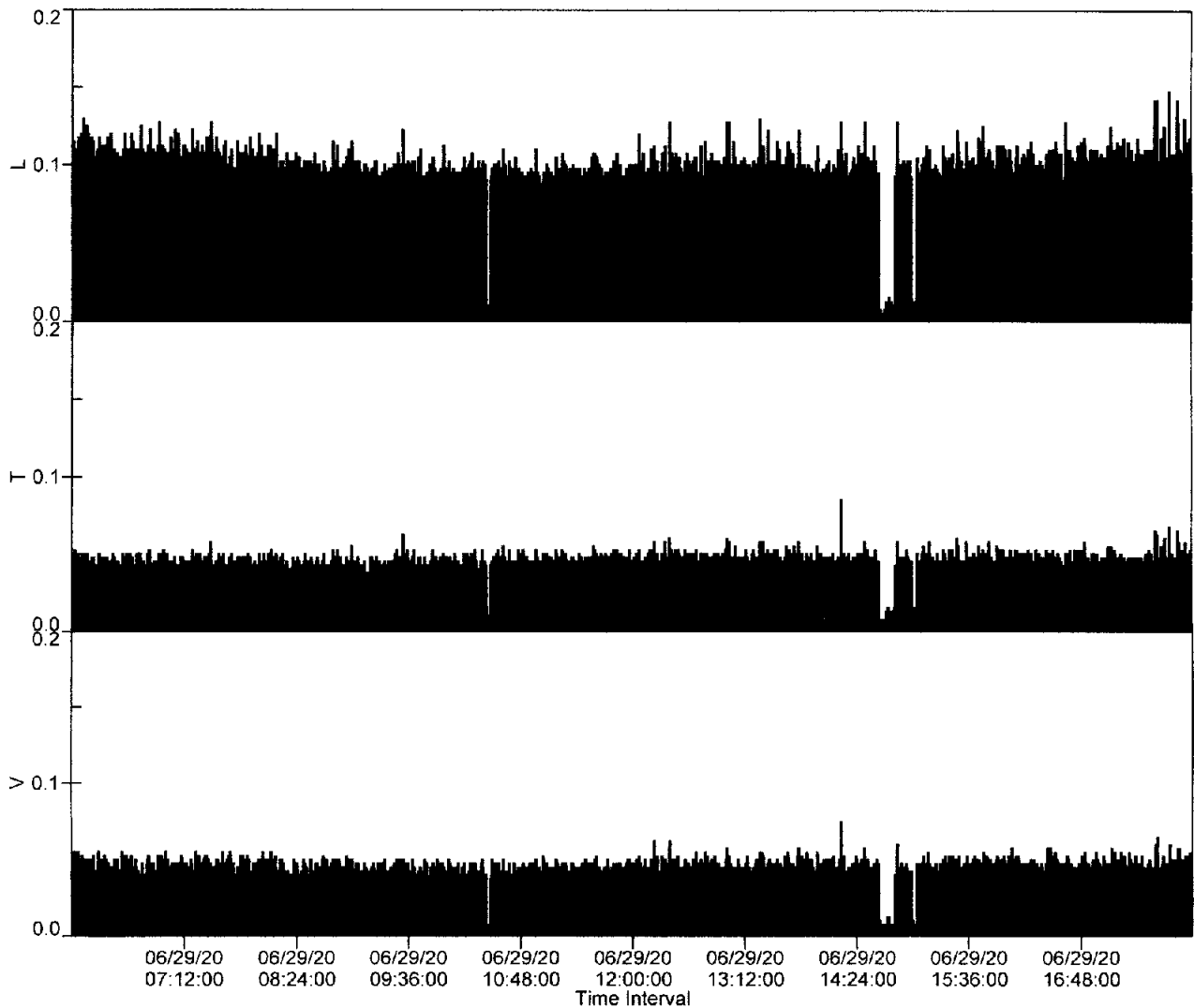
	L	T	V
<b>PPV (in/s)</b>	0.148	0.085	0.075
<b>FREQ (Hz)</b>	33.3	166.7	125.0
<b>Peak Air Pressure:</b>	115 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 57

Record Max PPV: 0.148 in/s Record Max DB: 115 db



**SN:** 3733 v3.22  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 58  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

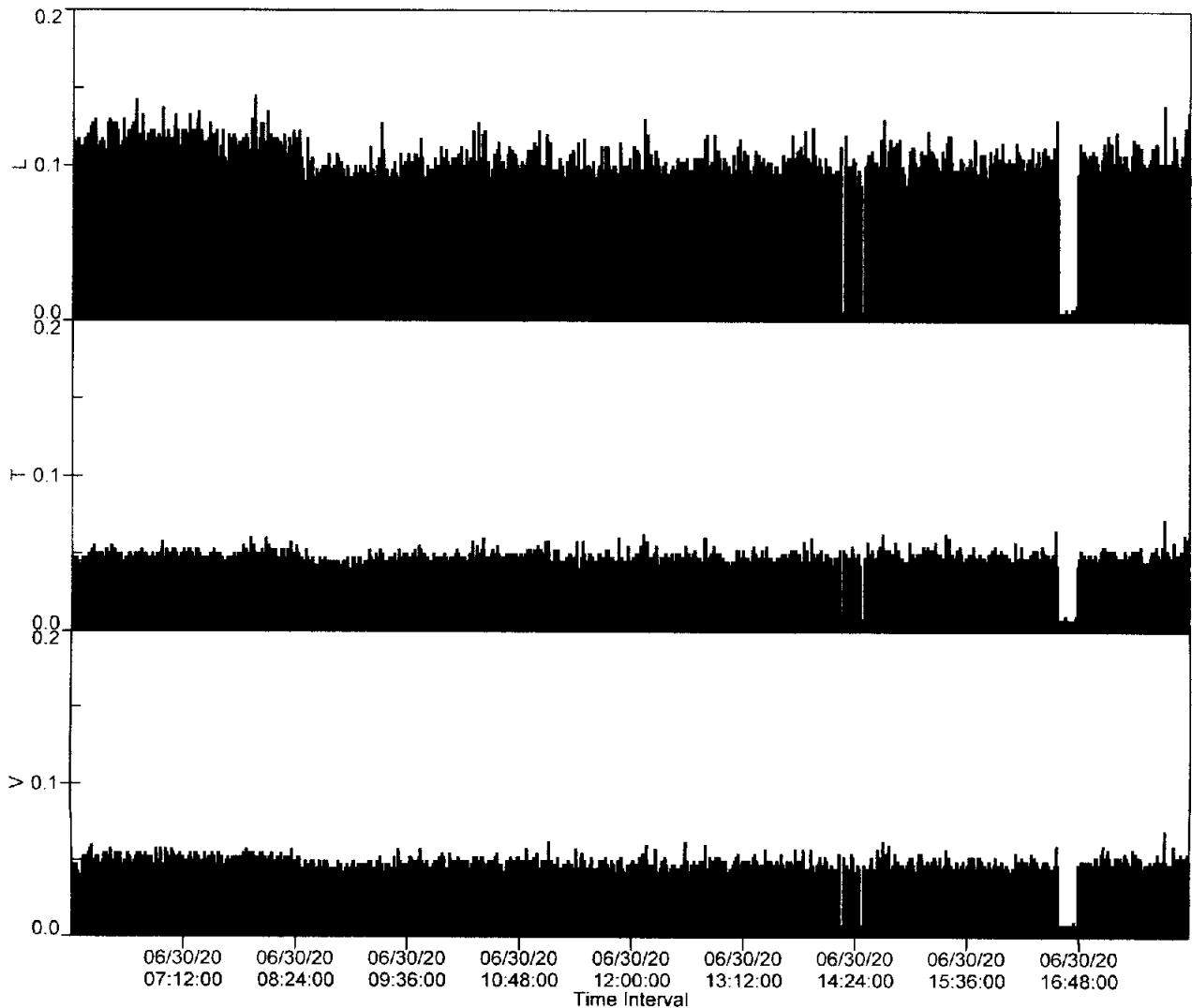
	L	T	V
<b>PPV (in/s)</b>	0.145	0.073	0.070
<b>FREQ (Hz)</b>	62.5	250.0	83.3
<b>Peak Air Pressure:</b>	117 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 58

Record Max PPV: 0.145 in/s Record Max DB: 117 db



**SN:** 3733 v3.22  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 59  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

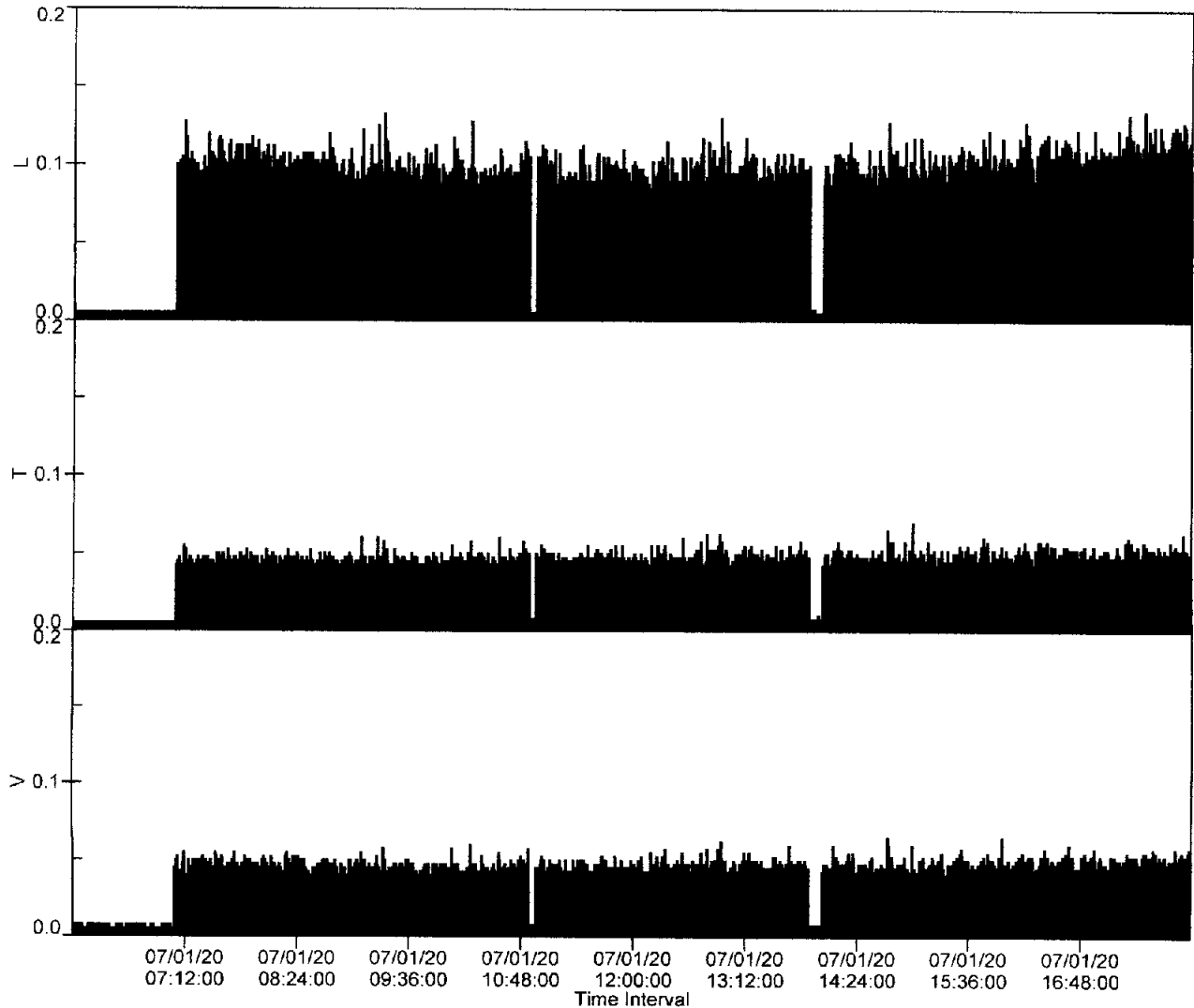
	L	T	V
<b>PPV (in/s)</b>	0.135	0.070	0.065
<b>FREQ (Hz)</b>	166.7	250.0	125.0
<b>Peak Air Pressure:</b>	116 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 59

Record Max PPV: 0.135 in/s Record Max DB: 116 db





**SN:** 3733 v3.22  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 60  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNSP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

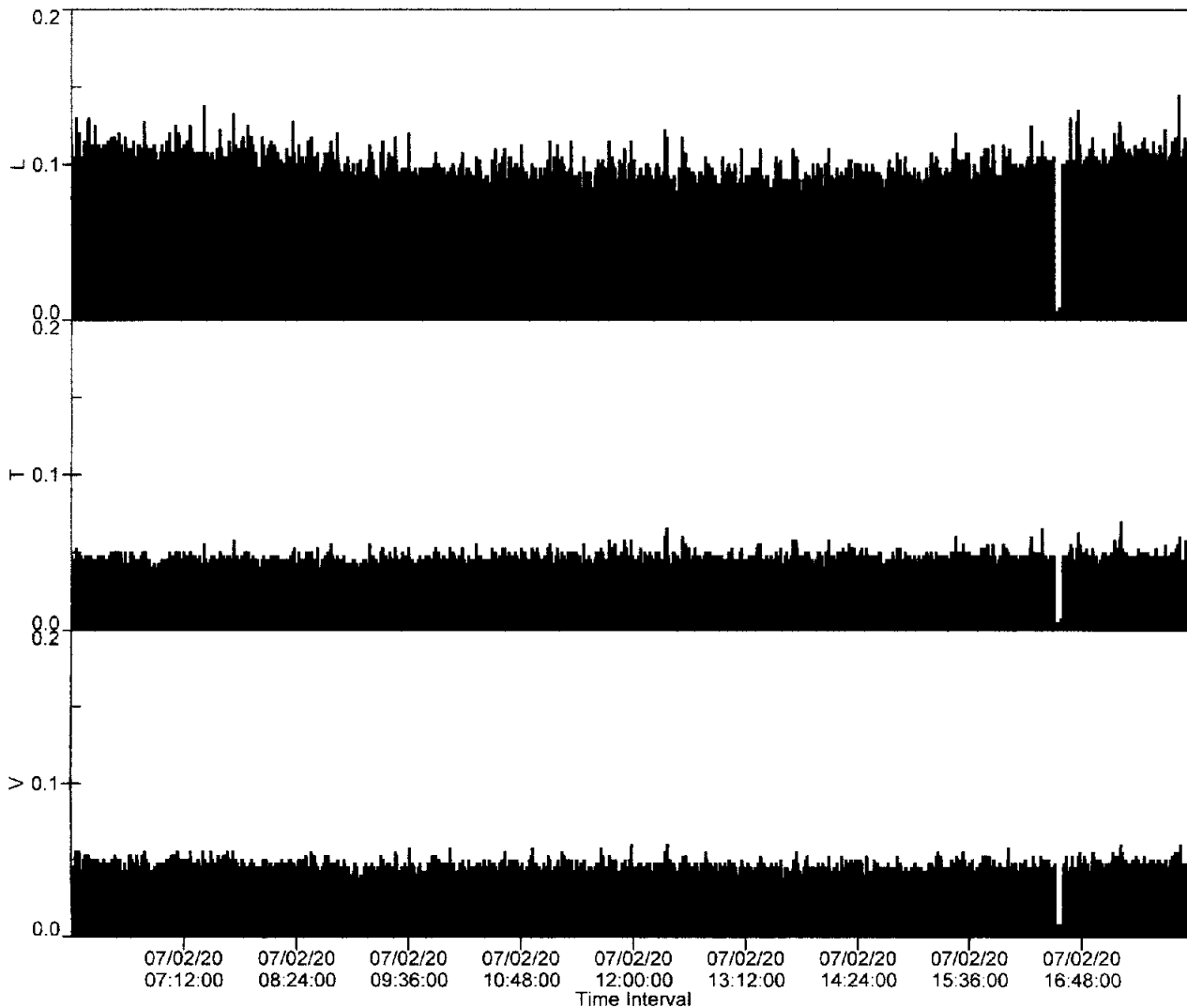
	L	T	V
<b>PPV (in/s)</b>	0.145	0.070	0.060
<b>FREQ (Hz)</b>	250.0	250.0	250.0
<b>Peak Air Pressure:</b>	116 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 60

Record Max PPV: 0.145 in/s Record Max DB: 116 db



**SN:** 3733 v3.22  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 61  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

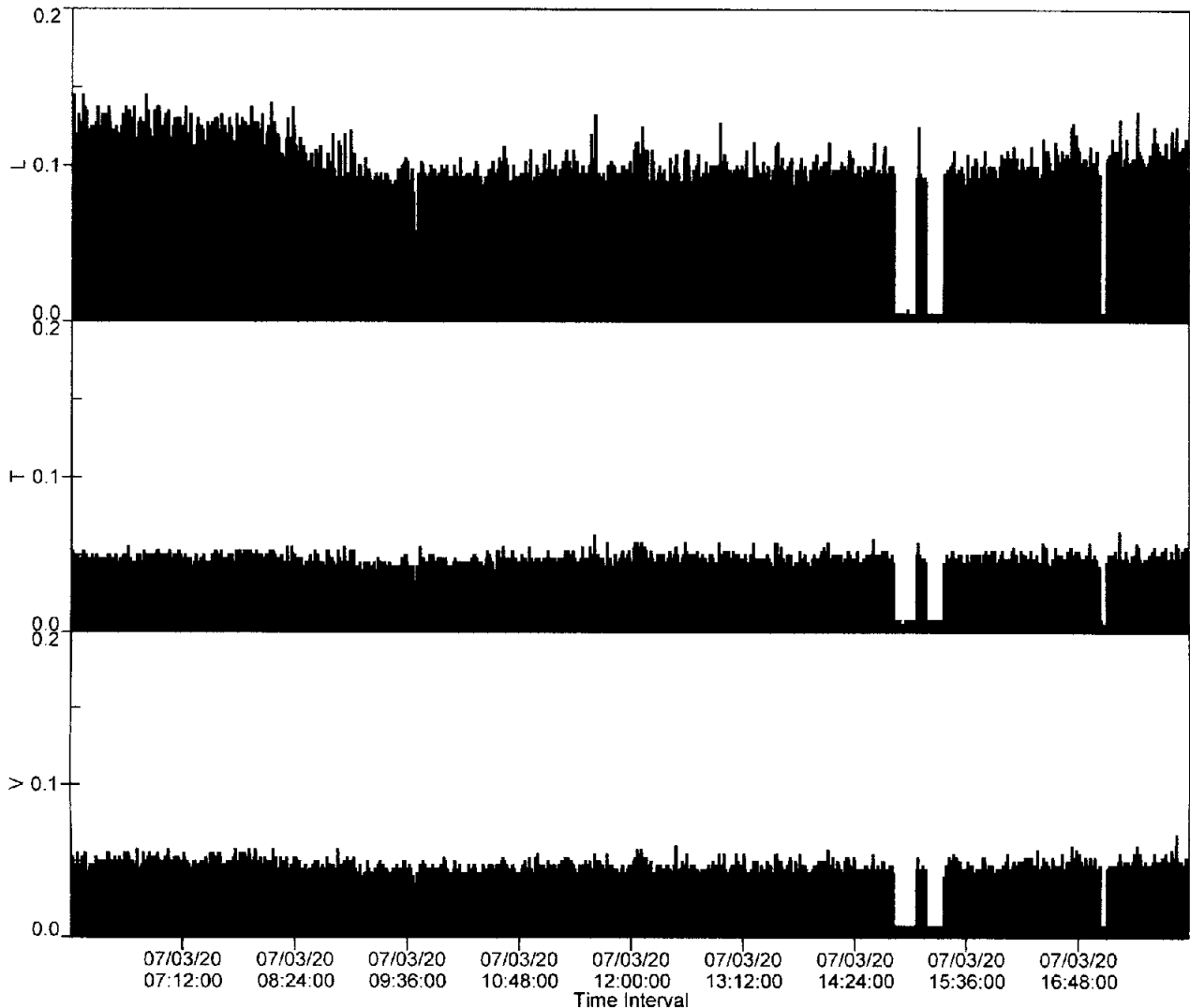
	L	T	V
PPV (in/s)	0.145	0.065	0.068
FREQ (Hz)	166.7	250.0	250.0
Peak Air Pressure:	116 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 61

Record Max PPV: 0.145 in/s Record Max DB: 116 db



**SN:** 3733 v3.22  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 62  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording  
Summary Data**

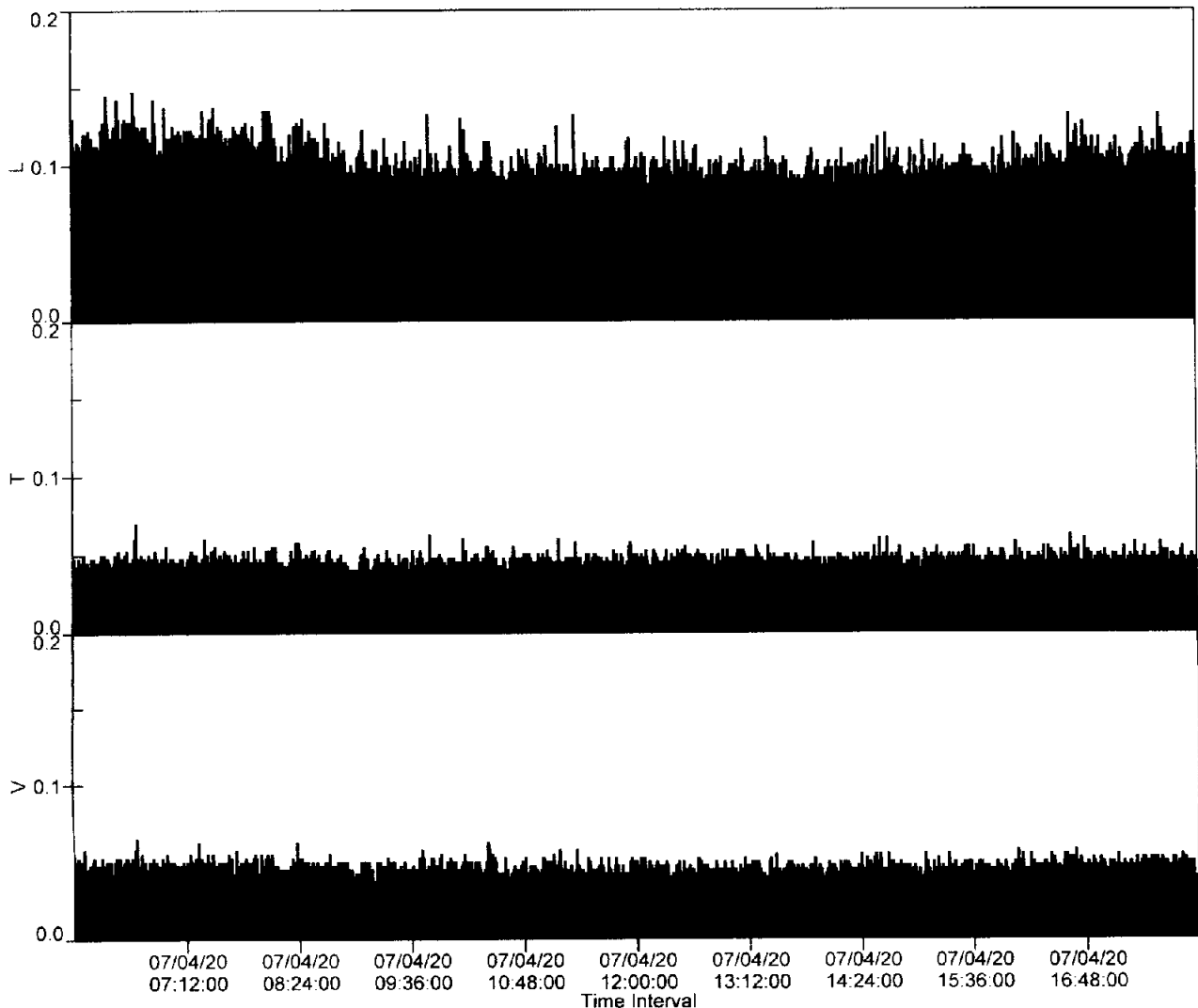
	L	T	V
<b>PPV (in/s)</b>	0.148	0.070	0.065
<b>FREQ (Hz)</b>	50.0	4.0	250.0
<b>Peak Air Pressure:</b>	115 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 62

Record Max PPV: 0.148 in/s Record Max DB: 115 db



**SN:** 3733 v3.22  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 63  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #7 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW CORNER BEND

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.145	0.065	0.060
<b>FREQ (Hz)</b>	125.0	250.0	500.0
<b>Peak Air Pressure:</b>	115 db		

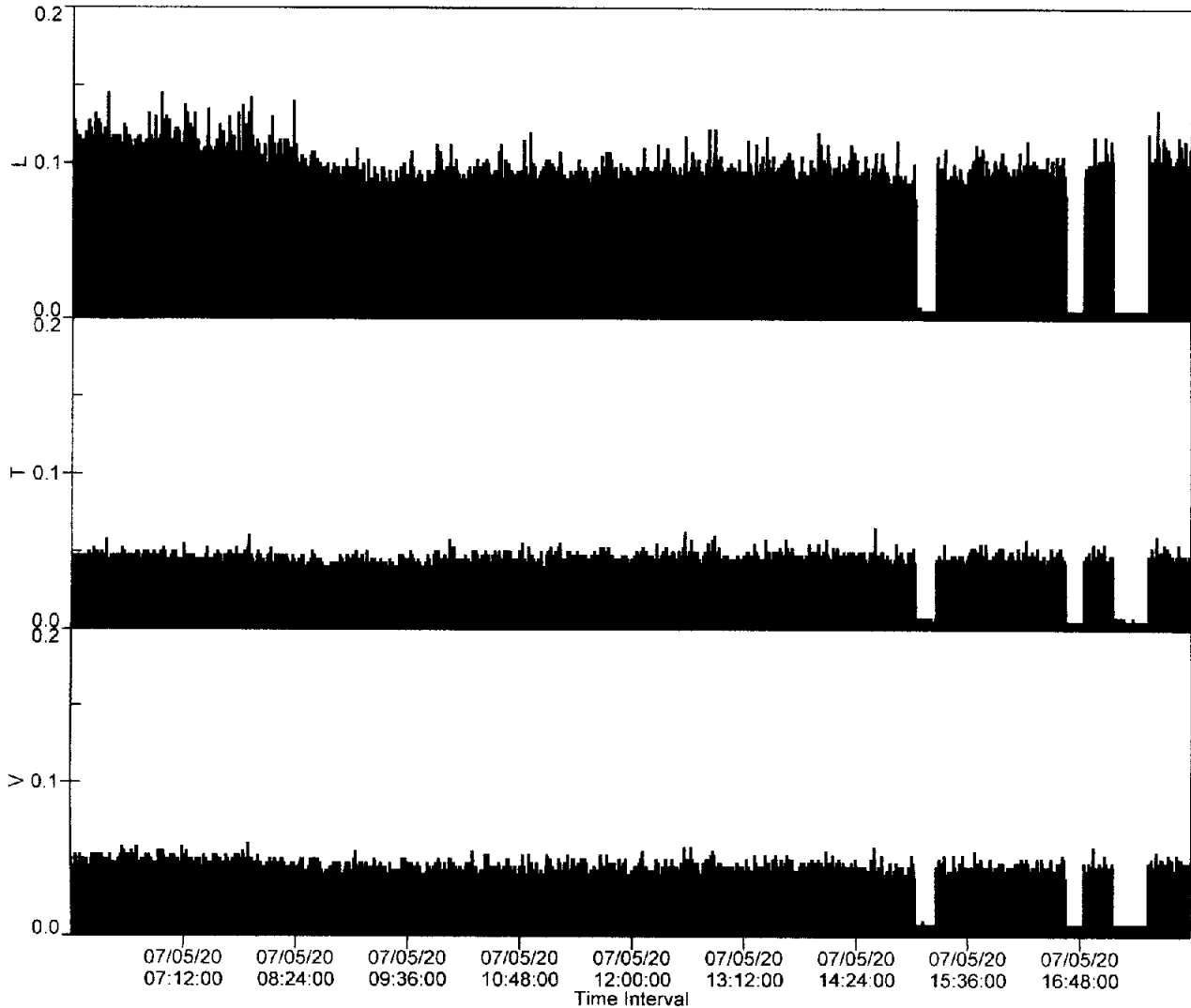
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 63

Record Max PPV: 0.145 in/s Record Max DB: 115 db





**SN:** 8336 v3.66  
**Date:** 06/22/2020 **Time:** 07:46:00  
**Event:** 12  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.048	0.025	0.033
FREQ (Hz)	71.4	29.4	22.7
Peak Air Pressure:	81 db		

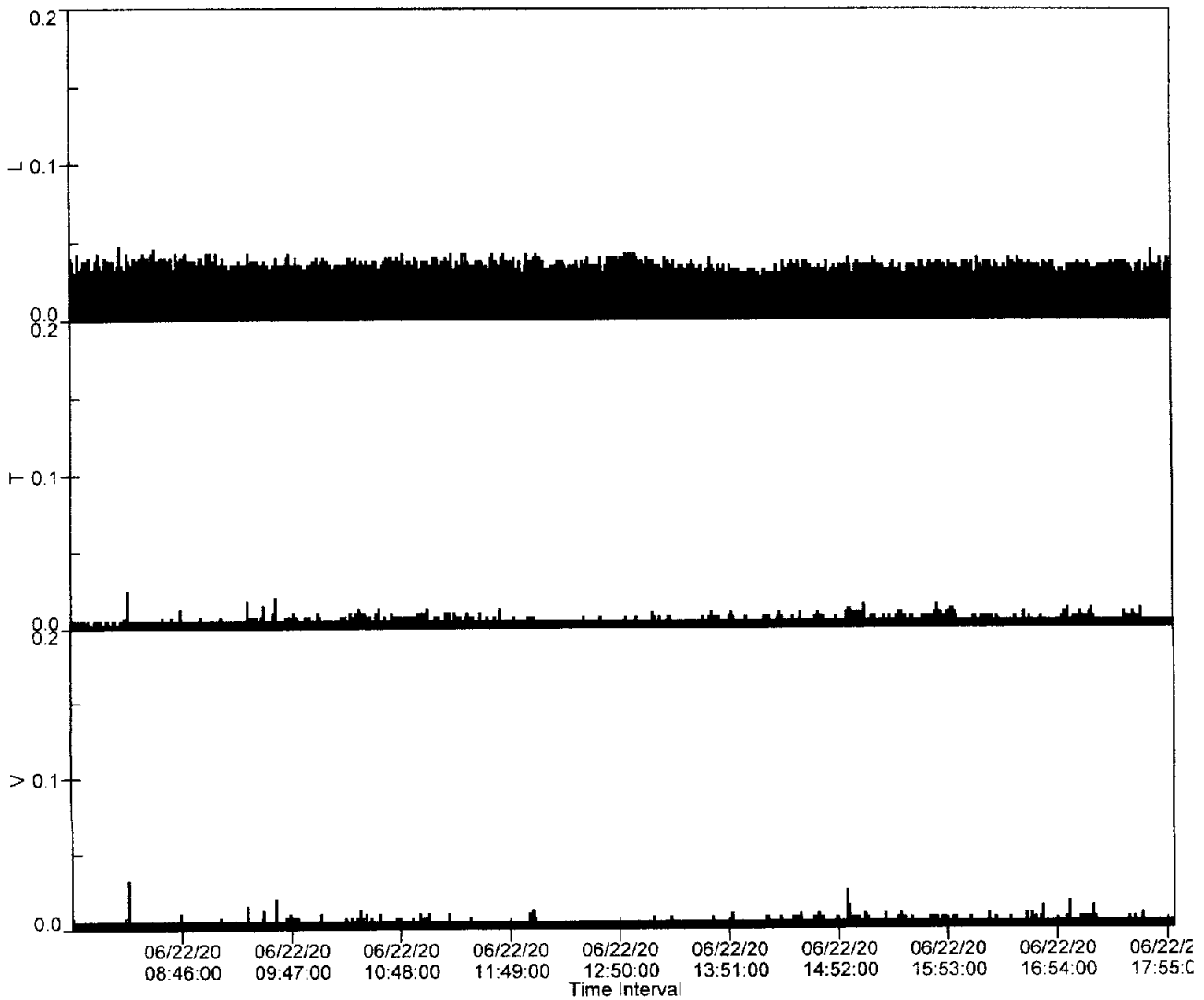
**Recording Time:** 613 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL.: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 12

Record Max PPV: 0.048 in/s Record Max DB: 81 db



**SN:** 8336 v3.66  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 13  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.085	0.073	0.078
<b>FREQ (Hz)</b>	12.2	17.2	38.5
<b>Peak Air Pressure:</b>	79 db		

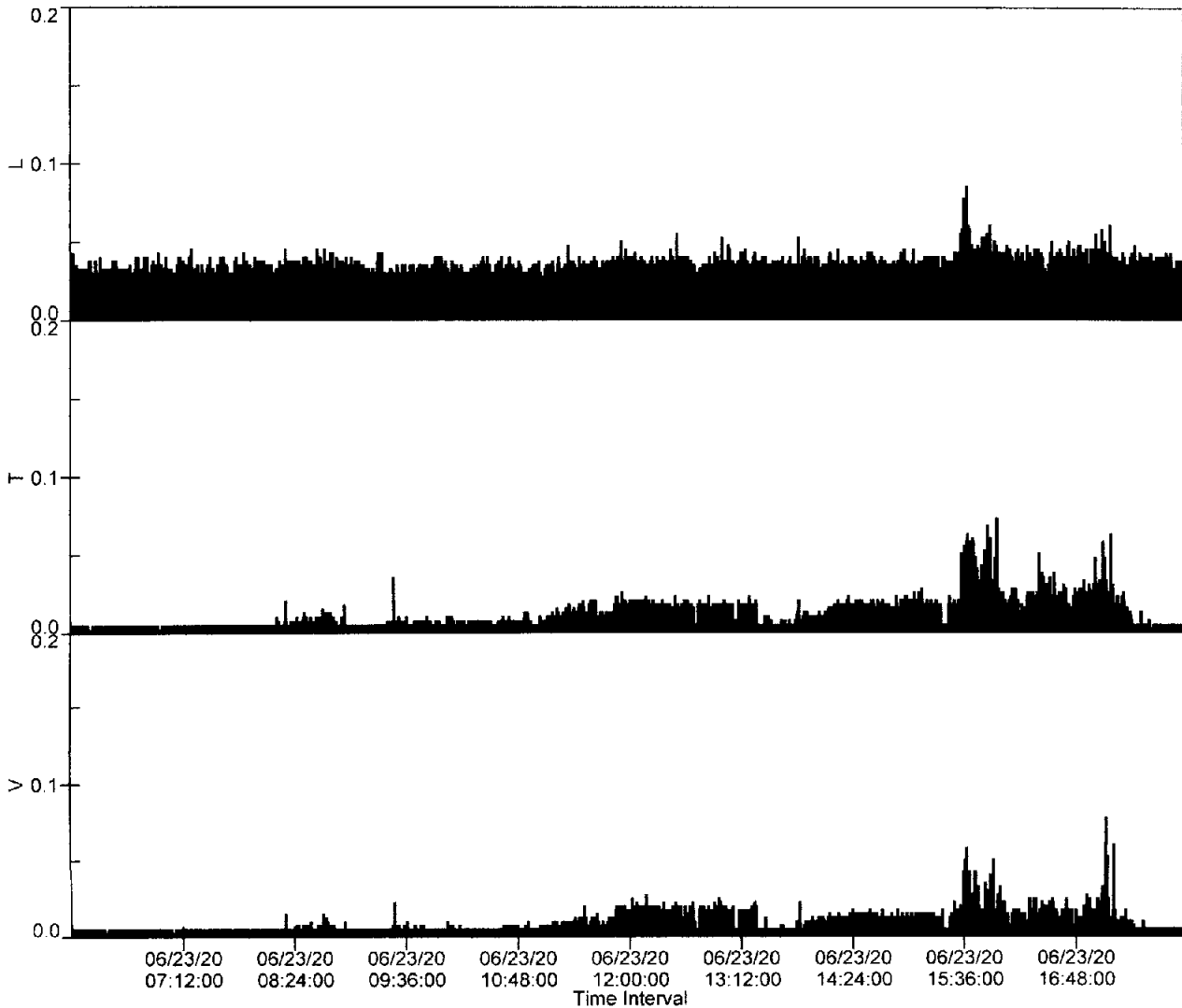
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 13

Record Max PPV: 0.085 in/s Record Max DB: 79 db



**SN:** 8336 v3.66  
**Date:** 06/24/2020 **Time:** 06:01:00  
**Event:** 14  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.073	0.043	0.045
<b>FREQ (Hz)</b>	20.8	33.3	38.5
<b>Peak Air Pressure:</b>	79 db		

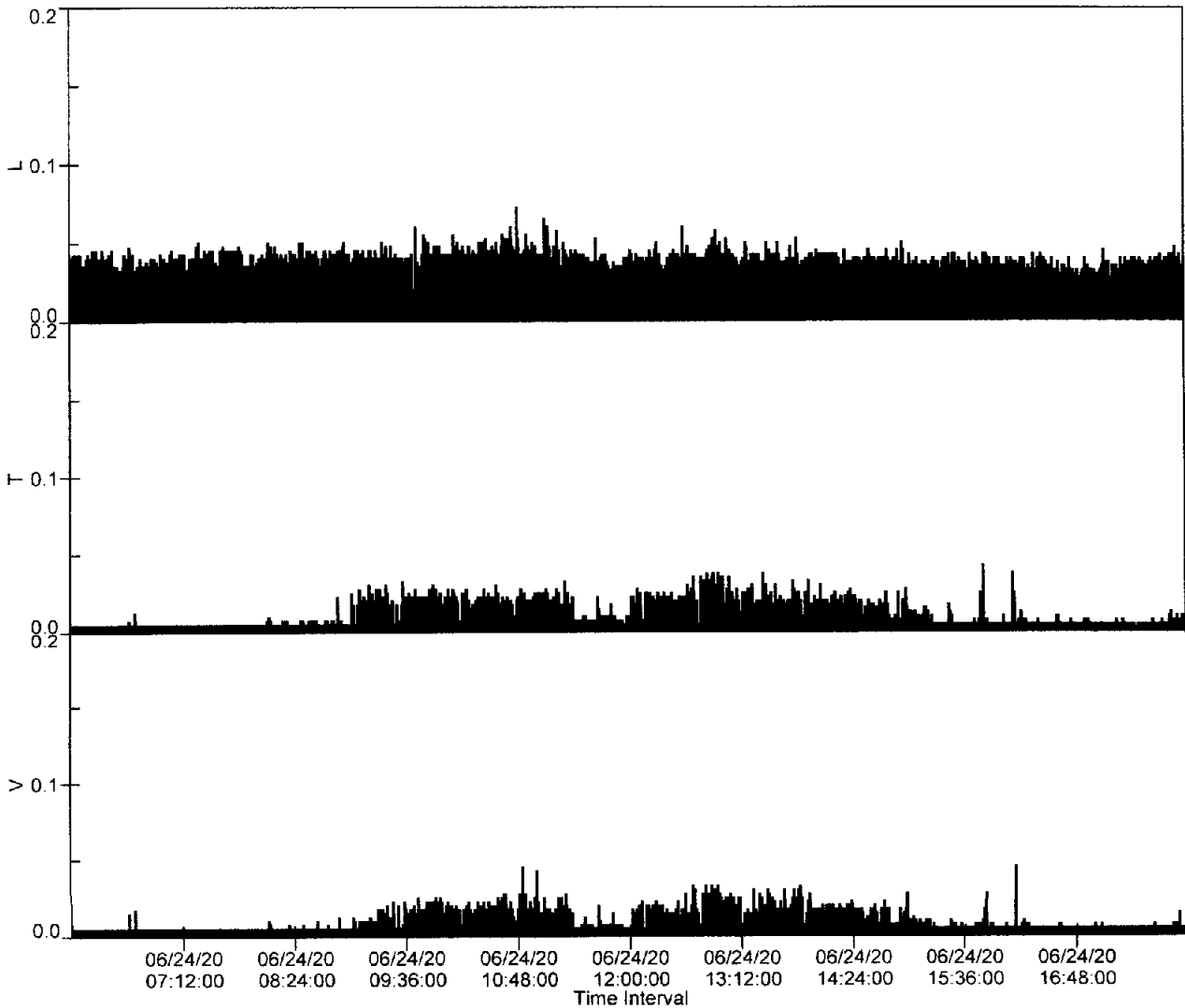
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 14

Record Max PPV: 0.073 in/s Record Max DB: 79 db





**SN:** 8336 v3.66  
**Date:** 06/25/2020 **Time:** 06:01:00  
**Event:** 15  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.060	0.070	0.040
<b>FREQ (Hz)</b>	16.1	16.7	38.5
<b>Peak Air Pressure: 81 db</b>			

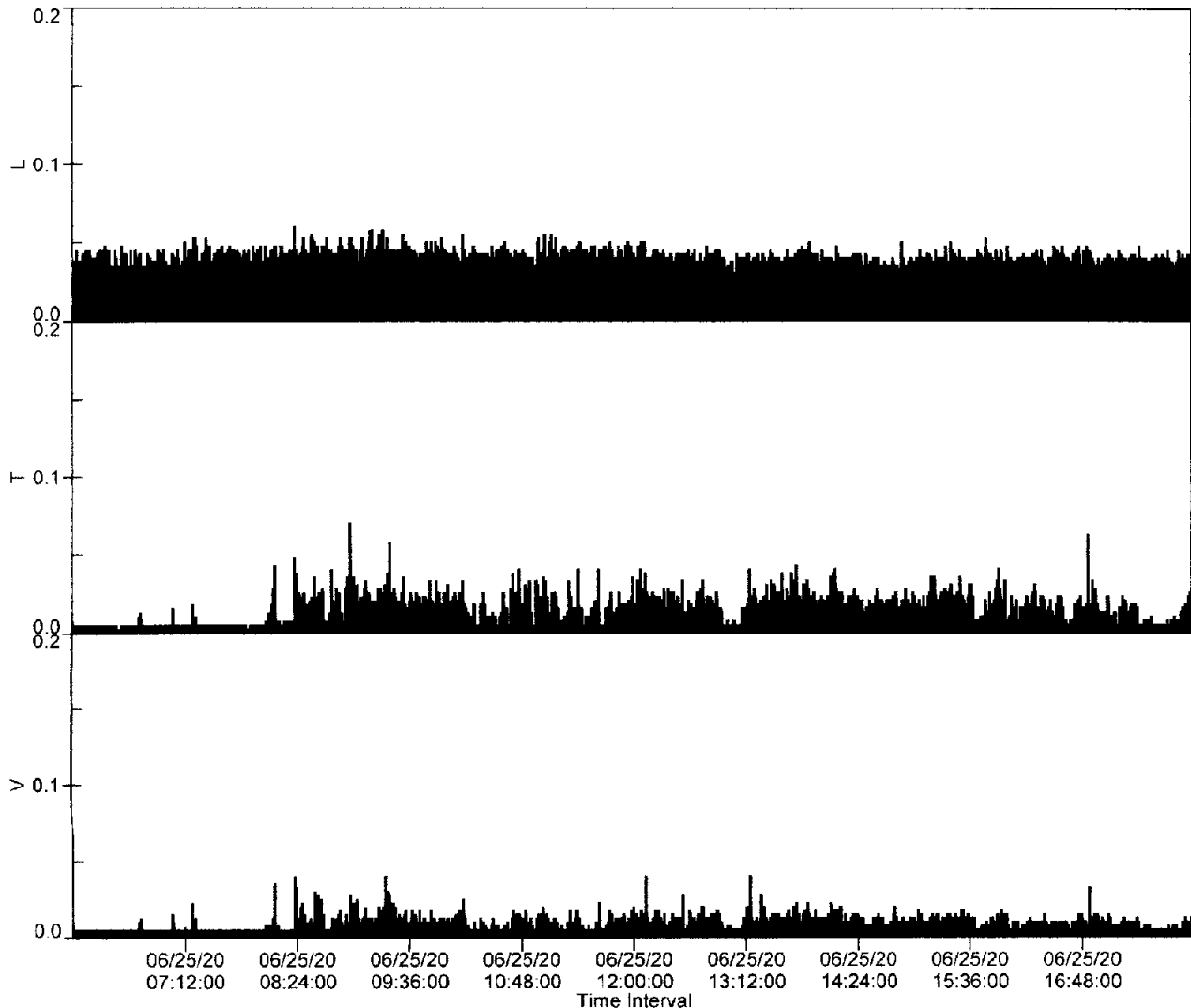
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 15

Record Max PPV: 0.070 in/s Record Max DB: 81 db



**SN:** 8336 v3.66  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 16  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.055	0.025	0.025
<b>FREQ (Hz)</b>	62.5	10.4	9.8
<b>Peak Air Pressure:</b>	79 db		

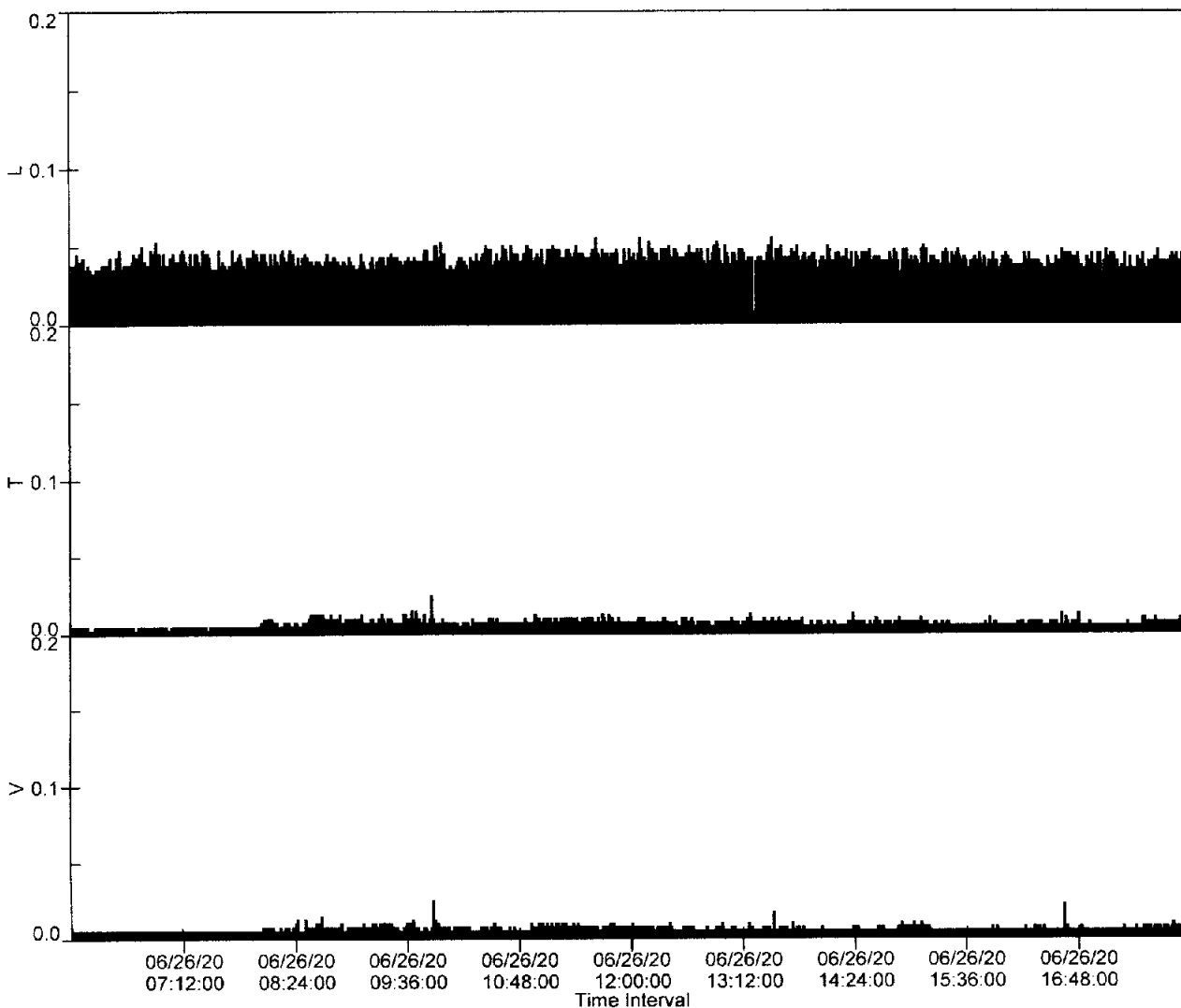
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 16

Record Max PPV: 0.055 in/s Record Max DB: 79 db



**SN:** 8336 v3.66  
**Date:** 06/27/2020 **Time:** 06:01:00  
**Event:** 17  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNSP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.058	0.018	0.015
<b>FREQ (Hz)</b>	55.6	18.5	13.5
<b>Peak Air Pressure:</b>	82 db		

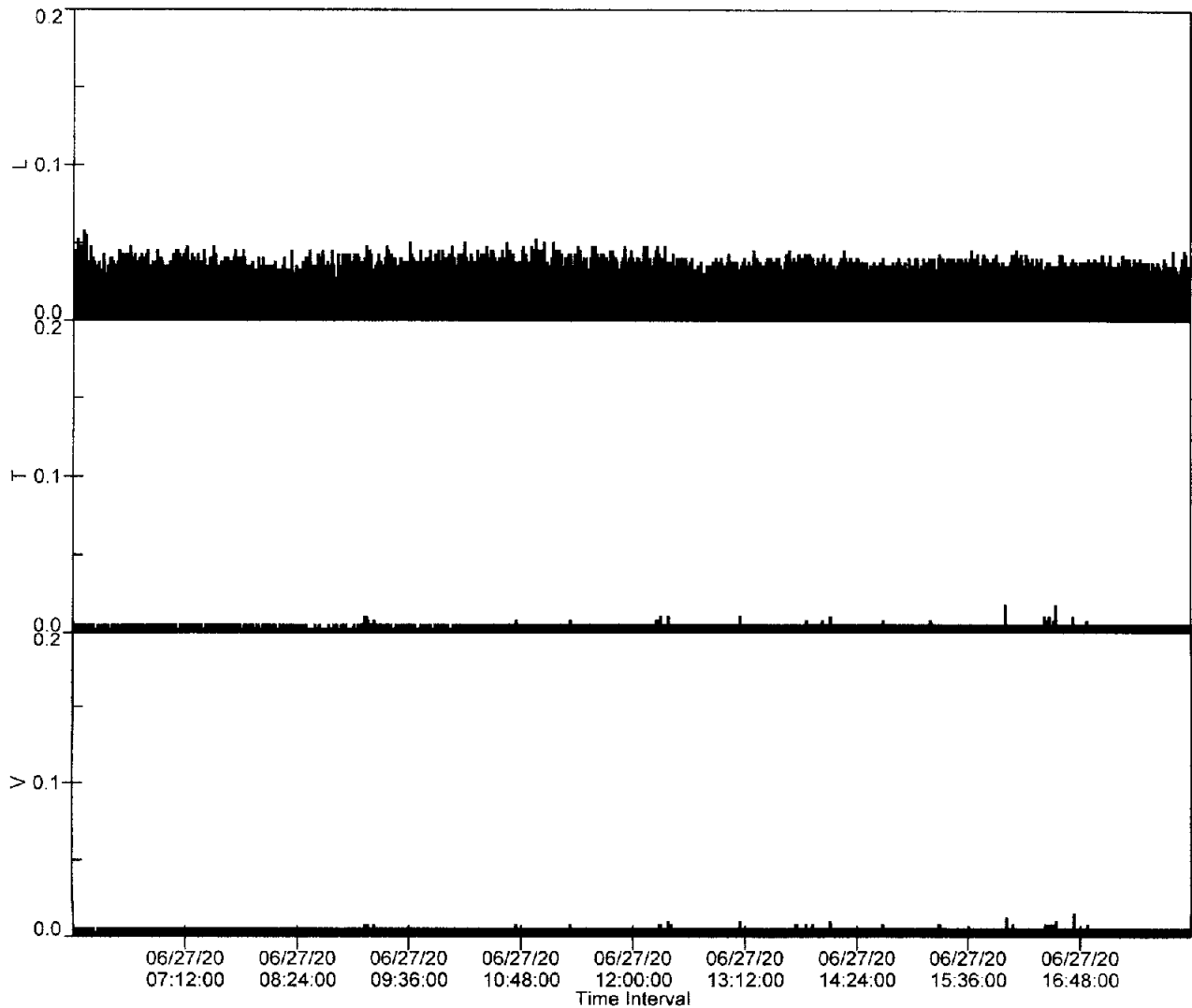
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 17

Record Max PPV: 0.058 in/s Record Max DB: 82 db



**SN:** 8336 v3.66  
**Date:** 06/28/2020 **Time:** 06:01:00  
**Event:** 18  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.050	0.008	0.008
<b>FREQ (Hz)</b>	38.5	2.9	.4
<b>Peak Air Pressure:</b>	81 db		

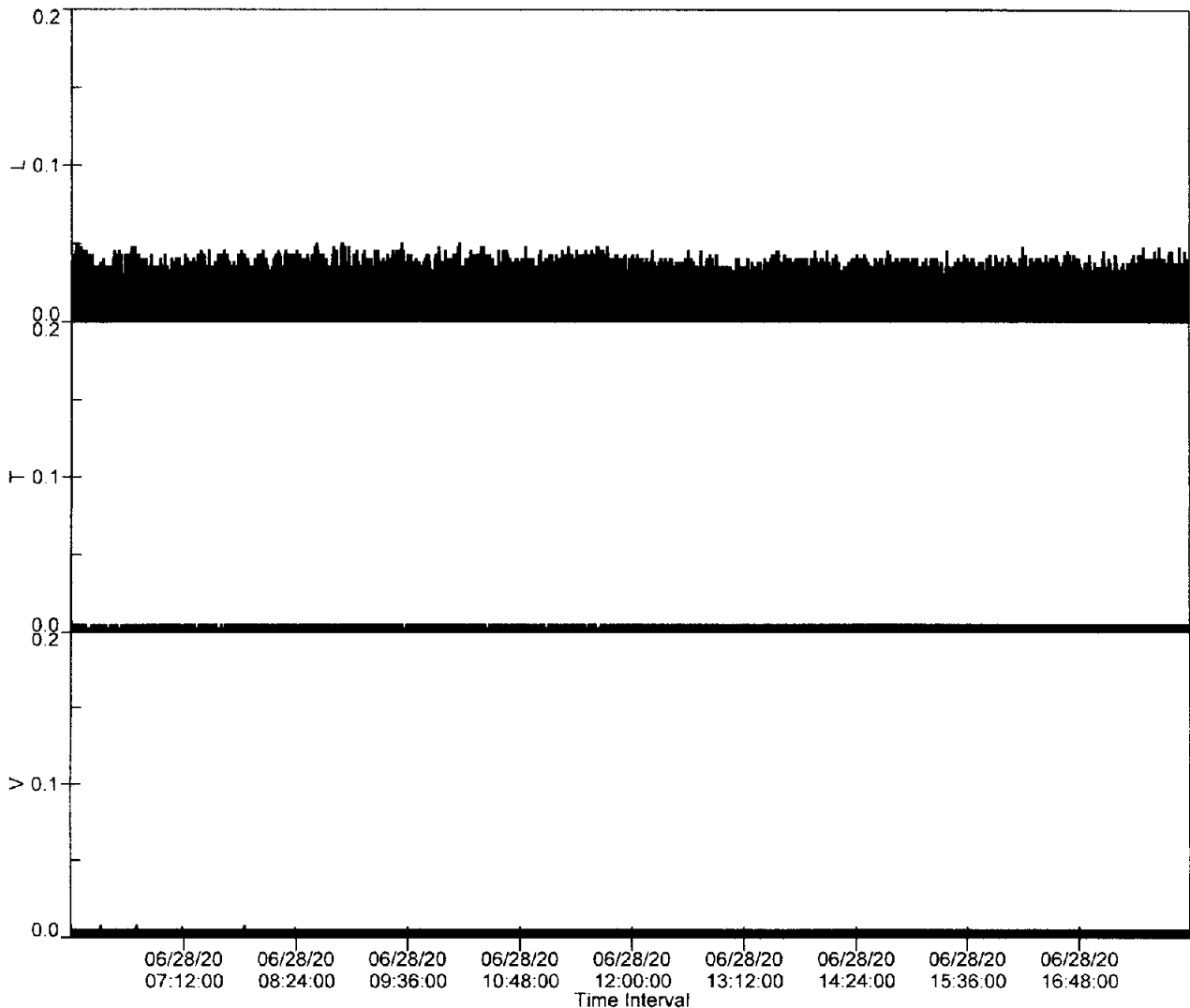
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 18

Record Max PPV: 0.050 in/s Record Max DB: 81 db



**SN:** 8336 v3.66  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 19  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.068	0.055	0.055
FREQ (Hz)	25.0	15.2	45.5
Peak Air Pressure:	82 db		

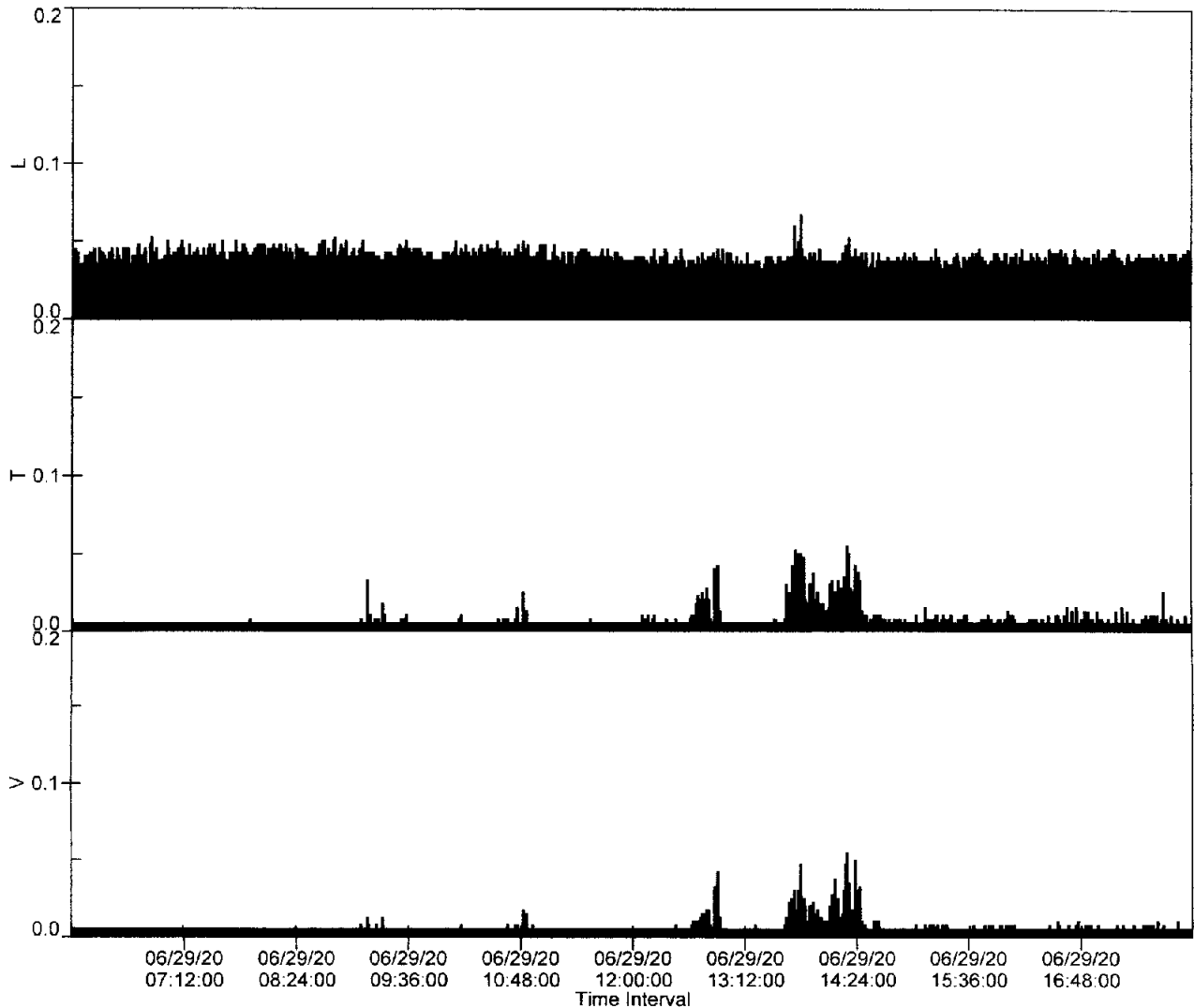
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 19

Record Max PPV: 0.068 in/s Record Max DB: 82 db



**SN:** 8336 v3.66  
**Date:** 06/30/2020 **Time:** 06:01:00  
**Event:** 20  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.055	0.073	0.078
<b>FREQ (Hz)</b>	19.2	25.0	45.5
<b>Peak Air Pressure:</b>	81 db		

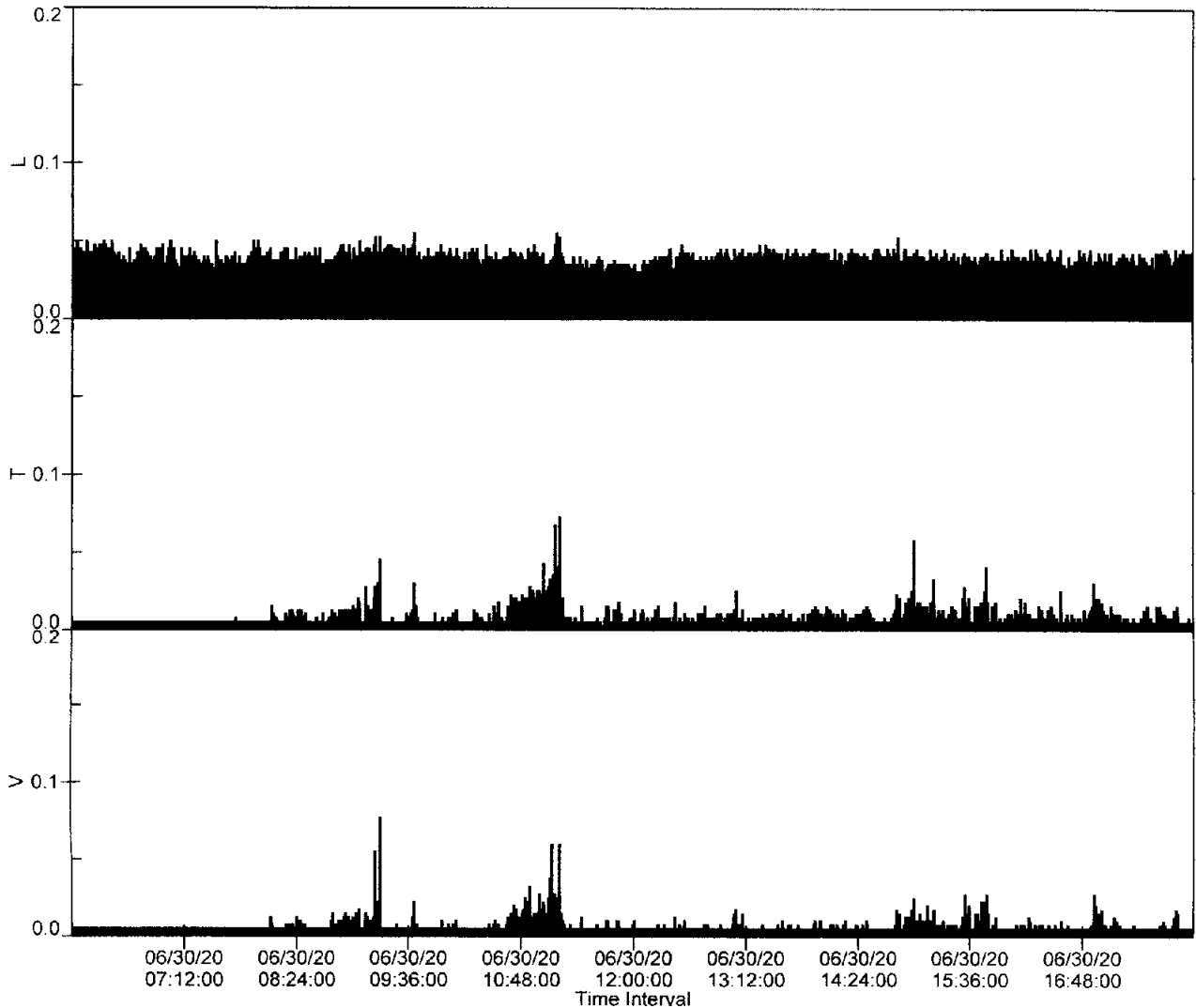
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 20

Record Max PPV: 0.078 in/s Record Max DB: 81 db



**SN:** 8336 v3.66  
**Date:** 07/01/2020 **Time:** 06:01:00  
**Event:** 21  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.063	0.058	0.055
FREQ (Hz)	20.0	17.2	17.9
Peak Air Pressure:	82 db		

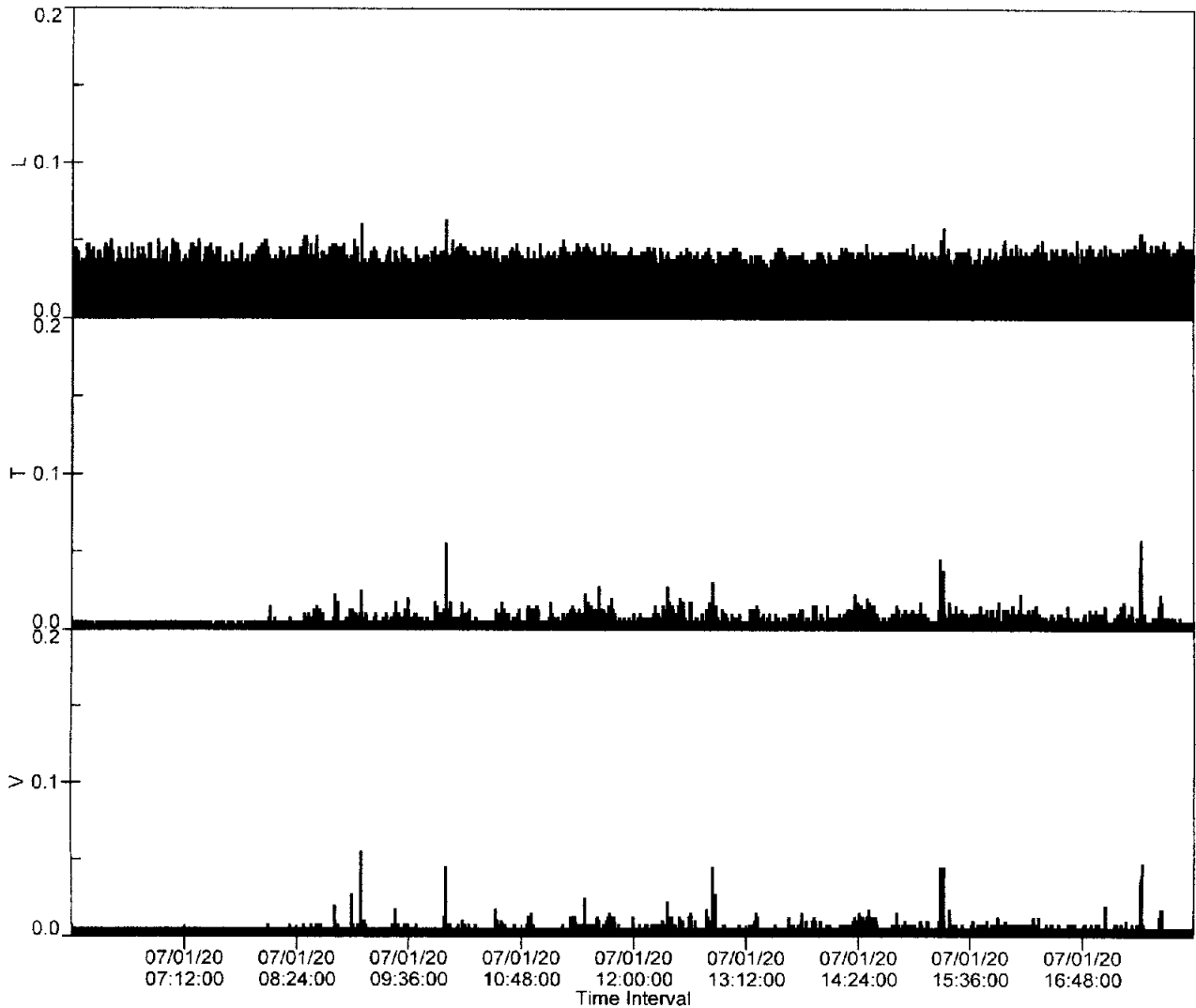
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 21

Record Max PPV: 0.063 in/s Record Max DB: 82 db



**SN:** 8336 v3.66  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 22  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.060	0.048	0.053
<b>FREQ (Hz)</b>	22.7	25.0	41.7
<b>Peak Air Pressure: 82 db</b>			

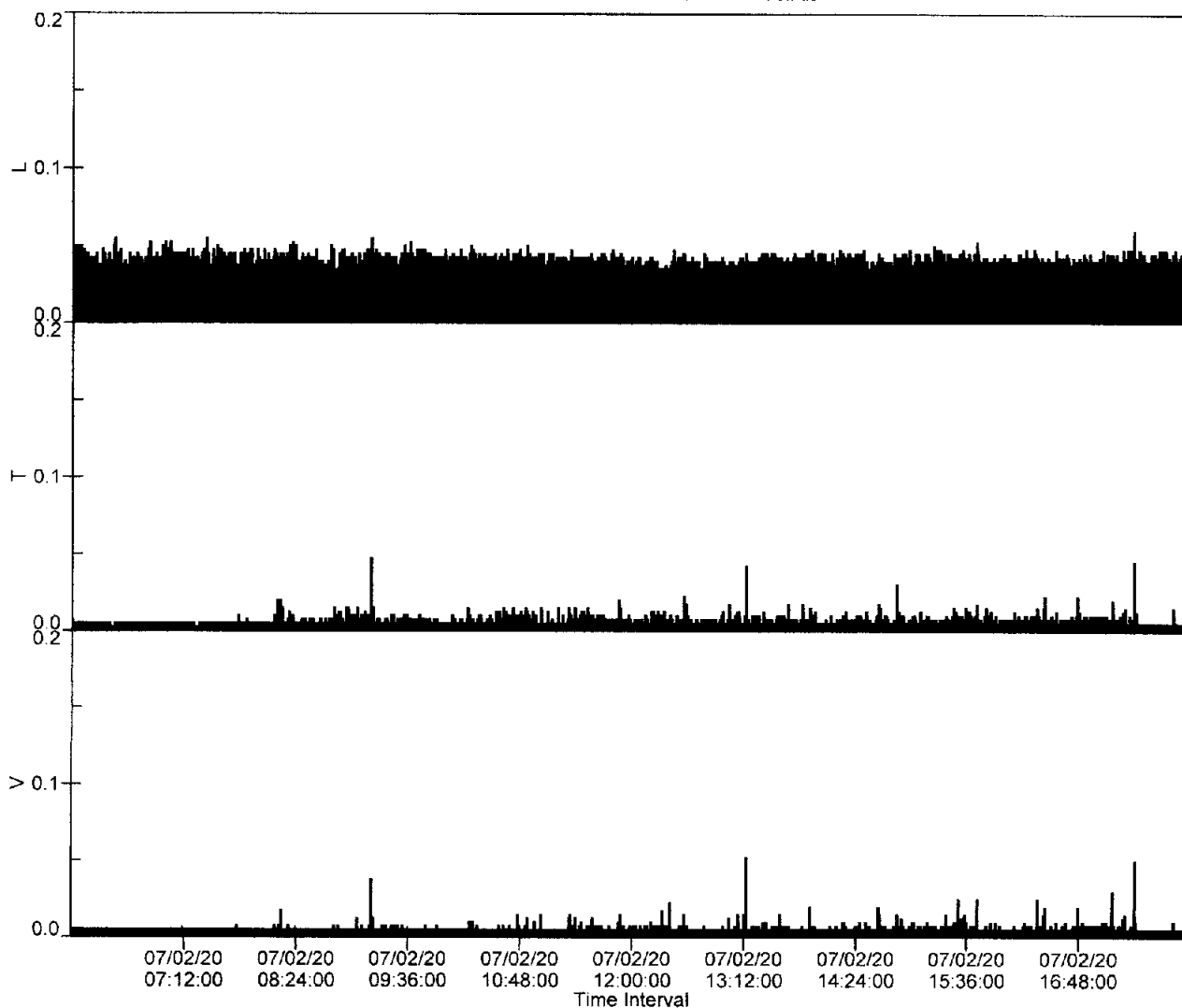
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 22

Record Max PPV: 0.060 in/s Record Max DB: 82 db





**SN:** 8336 v3.66  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 23  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNSP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording  
Summary Data**

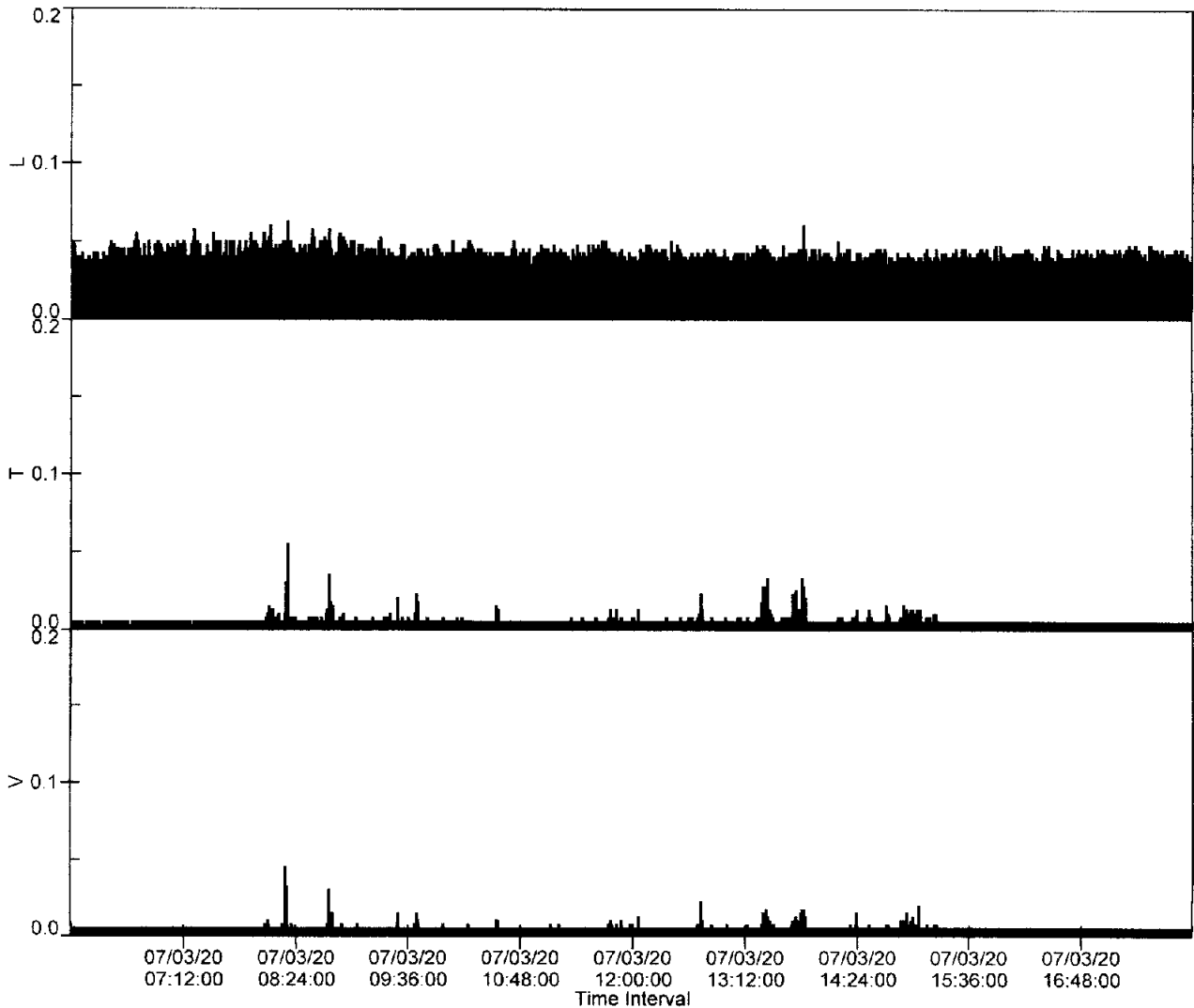
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.063	0.055	0.045
<b>FREQ (Hz)</b>	18.5	20.0	41.7
<b>Peak Air Pressure:</b>	82 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 23

Record Max PPV: 0.063 in/s Record Max DB: 82 db



**SN:** 8336 v3.66  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 24  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #8 WSNP  
**Distance:** 10.  
**Operator:** CTI INC  
**Comment:** SW UNIT

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.050	0.008	0.008
FREQ (Hz)	7.2	3.7	.8
Peak Air Pressure:	82 db		

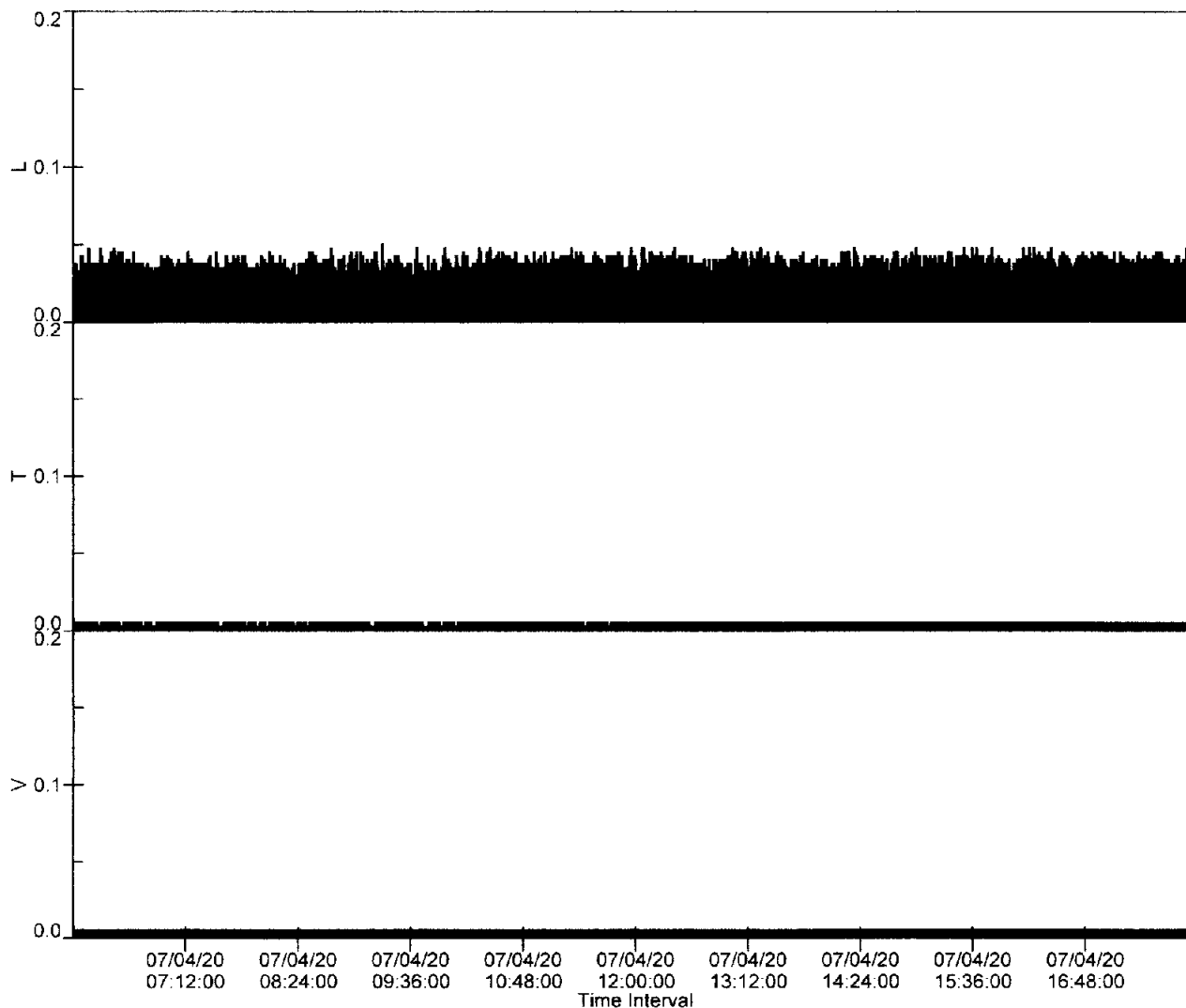
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 05/09/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 24

Record Max PPV: 0.050 in/s Record Max DB: 82 db





**SN:** 5259 v3.67  
**Date:** 06/23/2020 **Time:** 06:01:00  
**Event:** 2  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.018	0.018	0.013
<b>FREQ (Hz)</b>	20.8	26.3	16.1
<b>Peak Air Pressure:</b>	78 db		

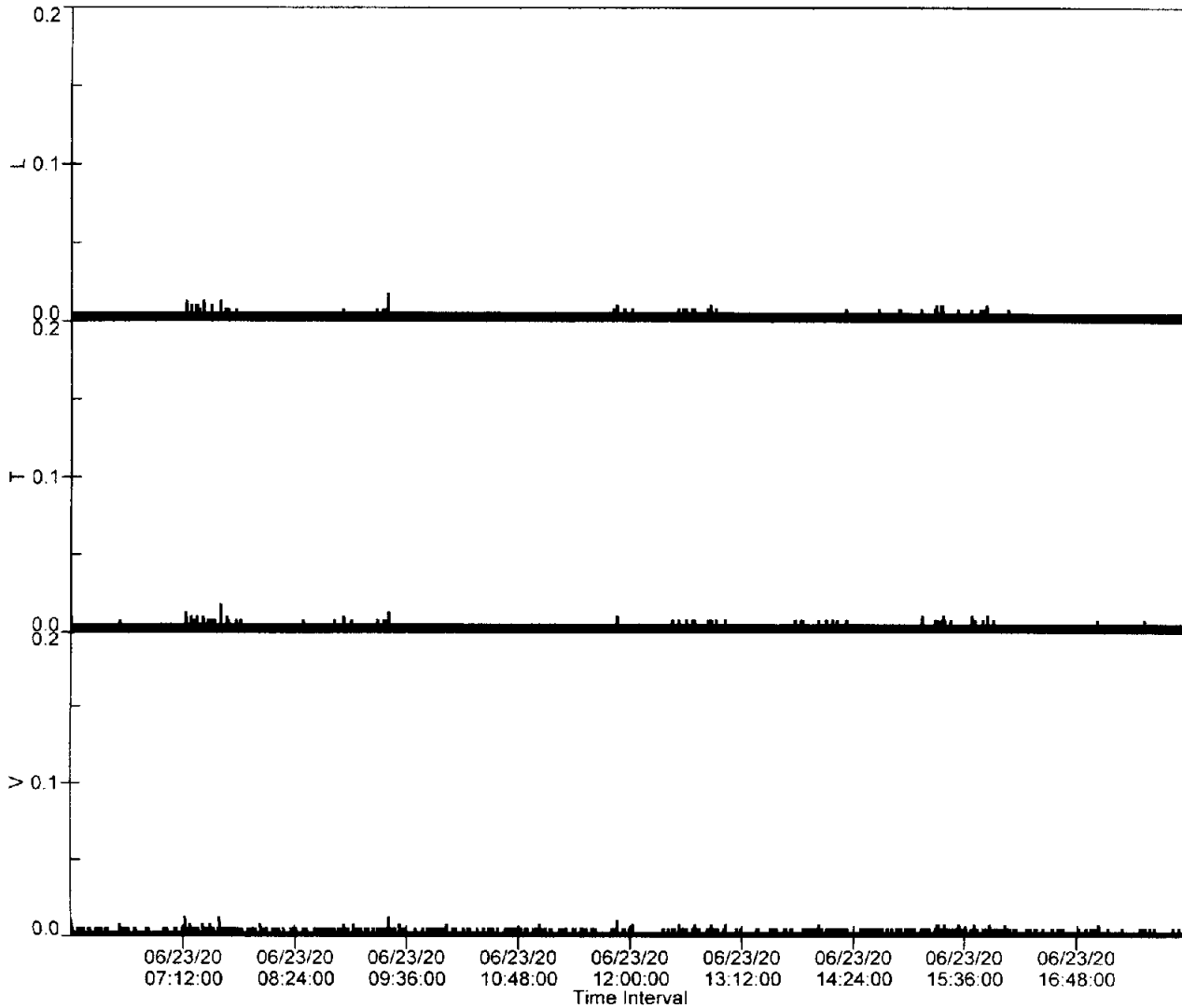
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 2

Record Max PPV: 0.018 in/s Record Max DB: 78 db



SN: 5259 v3.67  
Date: 06/24/2020 Time: 06:01:00  
Event: 3  
Client: BERGER CONST  
Operation: EXCAVATION  
Location: #9 WSNP  
Distance: 15.  
Operator: CTI INC  
Comment: SW CORNER

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.3	2.6	.3
Peak Air Pressure: 78 db			

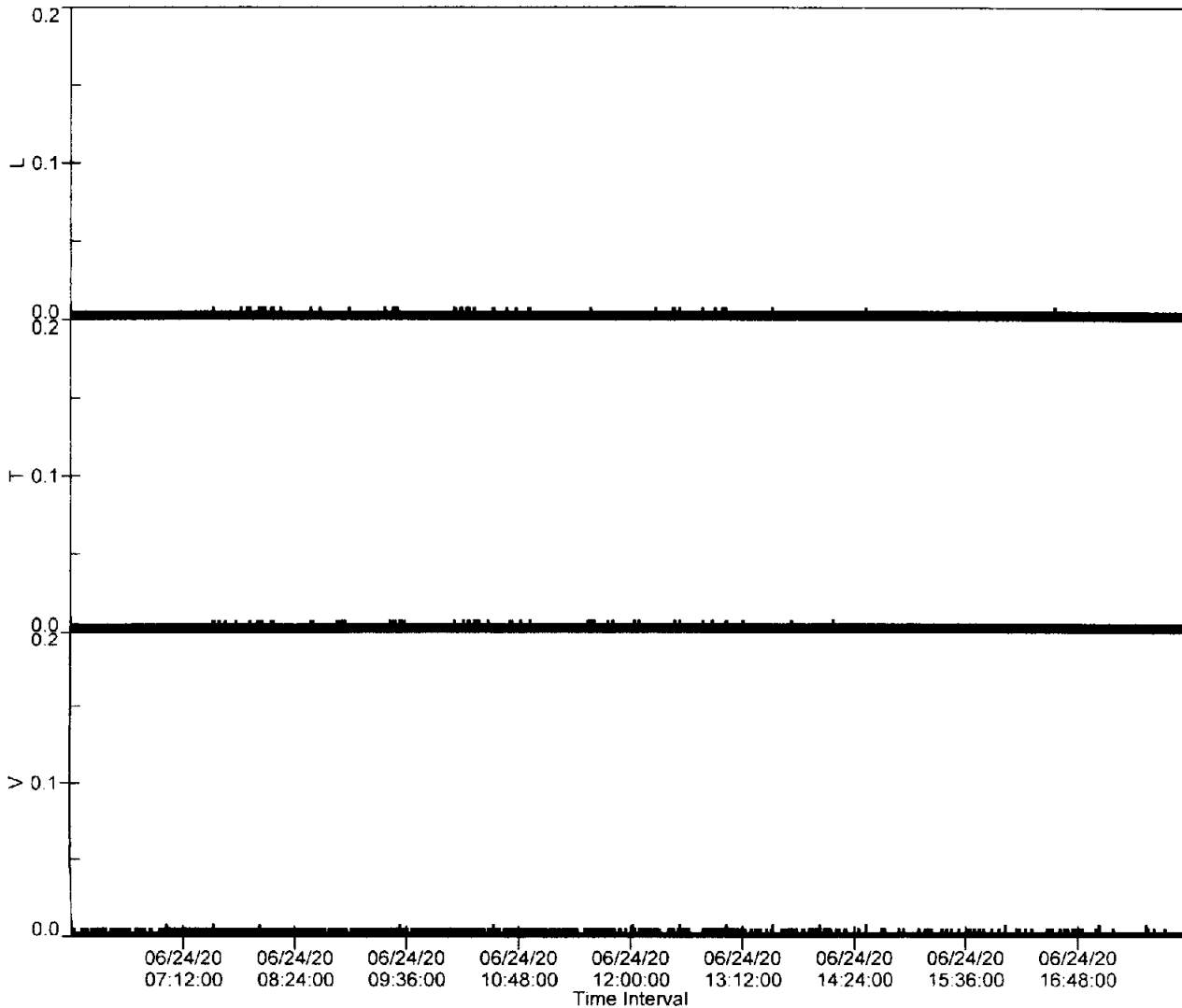
Recording Time: 718 minutes  
Sample Size: 1440  
Interval Size: 60 seconds

**Additional Info:**

Shaketable Calibrated: 01/23/2019  
By: GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 3

Record Max PPV: 0.010 in/s Record Max DB: 78 db



SN: 5259 v3.67  
Date: 06/25/2020 Time: 06:01:00  
Event: 4  
Client: BERGER CONST  
Operation: EXCAVATION  
Location: #9 WSNP  
Distance: 15.  
Operator: CTI INC  
Comment: SW CORNER

**Continuous Monitor Recording**

**Summary Data**

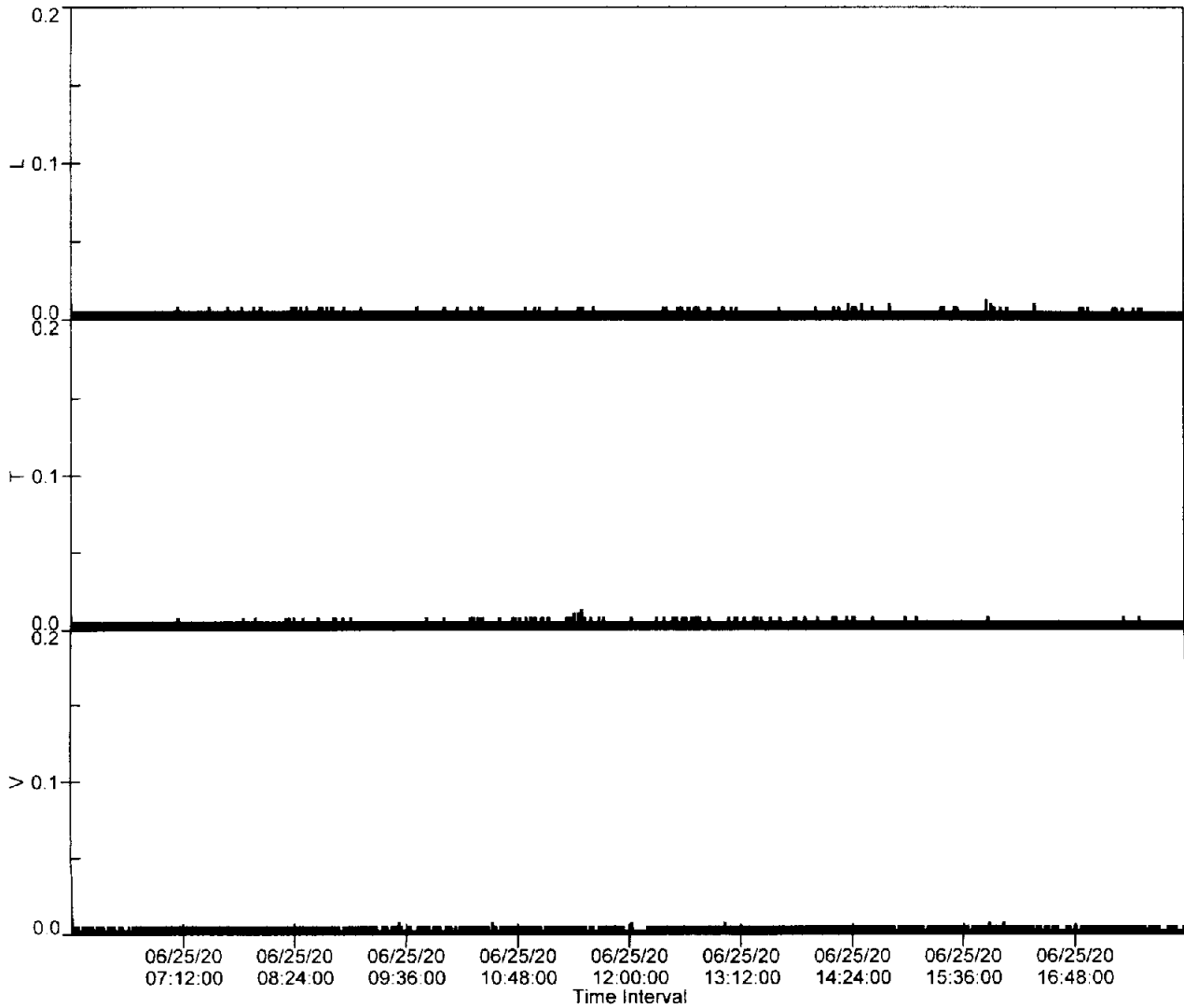
	L	T	V
PPV (in/s)	0.013	0.013	0.010
FREQ (Hz)	8.9	14.7	.3
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

**Additional Info:**

Shaketable Calibrated: 01/23/2019  
By: GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 4

Record Max PPV: 0.013 in/s Record Max DB: 78 db



**SN:** 5259 v3.67  
**Date:** 06/26/2020 **Time:** 06:01:00  
**Event:** 5  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNRP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording**

**Summary Data**

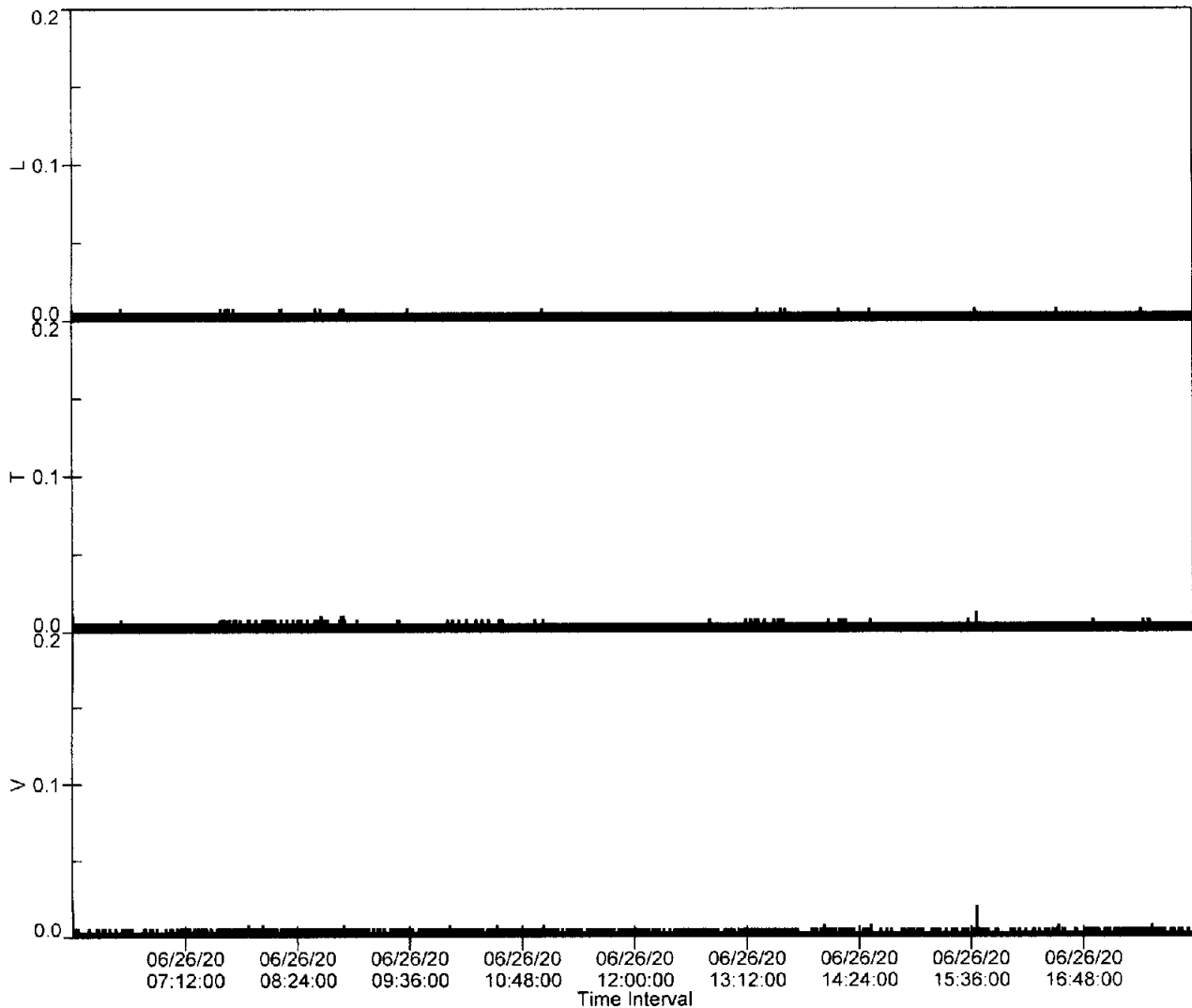
	L	T	V
<b>PPV (in/s)</b>	0.010	0.013	0.020
<b>FREQ (Hz)</b>	.3	17.9	71.4
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 5

Record Max PPV: 0.020 in/s Record Max DB: 78 db



**SN:** 5259 v3.67  
**Date:** 06/29/2020 **Time:** 06:01:00  
**Event:** 8  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording**

**Summary Data**

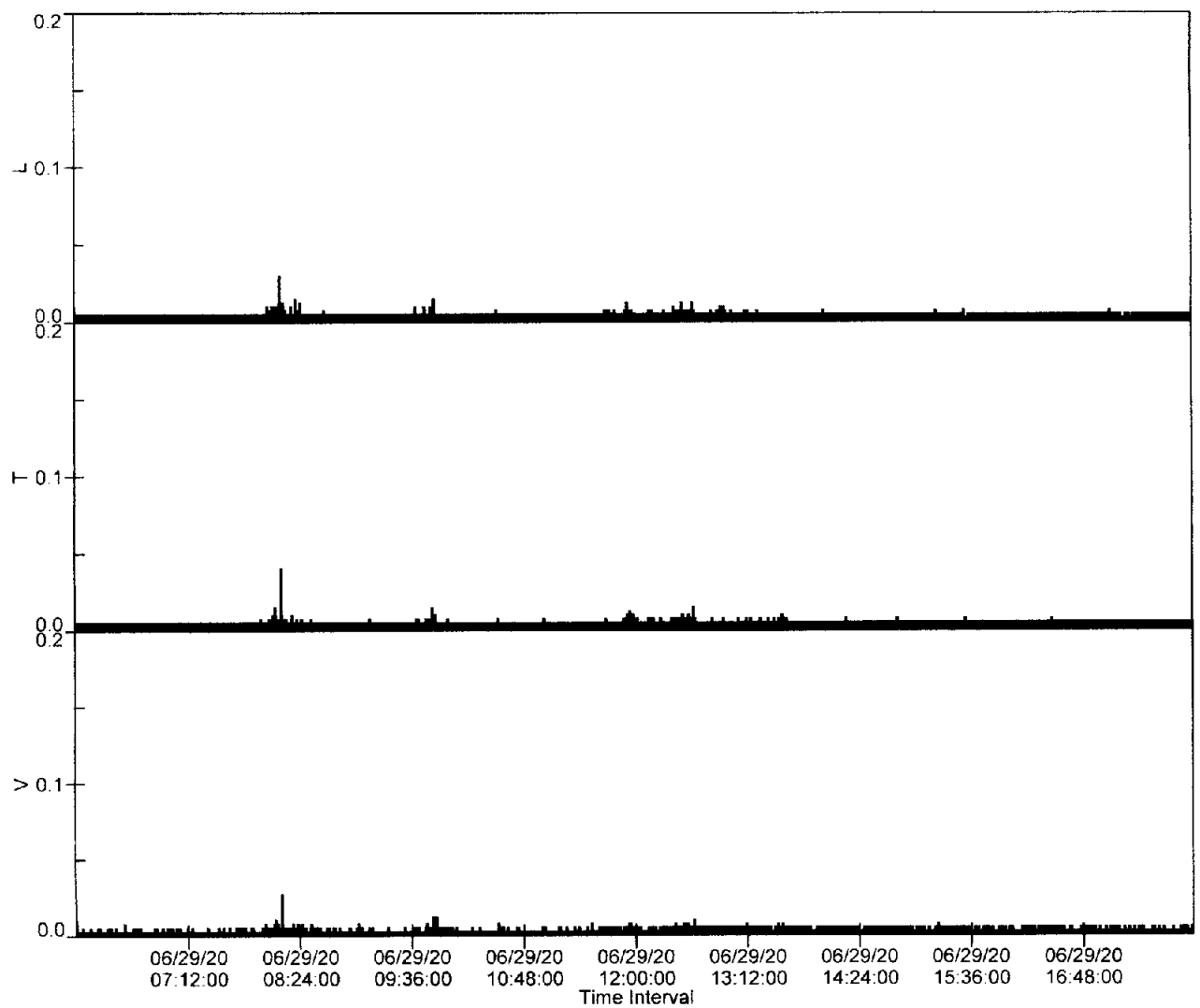
	L	T	V
<b>PPV (in/s)</b>	0.030	0.040	0.028
<b>FREQ (Hz)</b>	62.5	45.5	41.7
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 8

Record Max PPV: 0.040 in/s Record Max DB: 78 db





**SN:** 5259 v3.67  
**Date:** 07/02/2020 **Time:** 06:01:00  
**Event:** 11  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.053	0.055	0.050
<b>FREQ (Hz)</b>	22.7	38.5	31.3
<b>Peak Air Pressure:</b>	78 db		

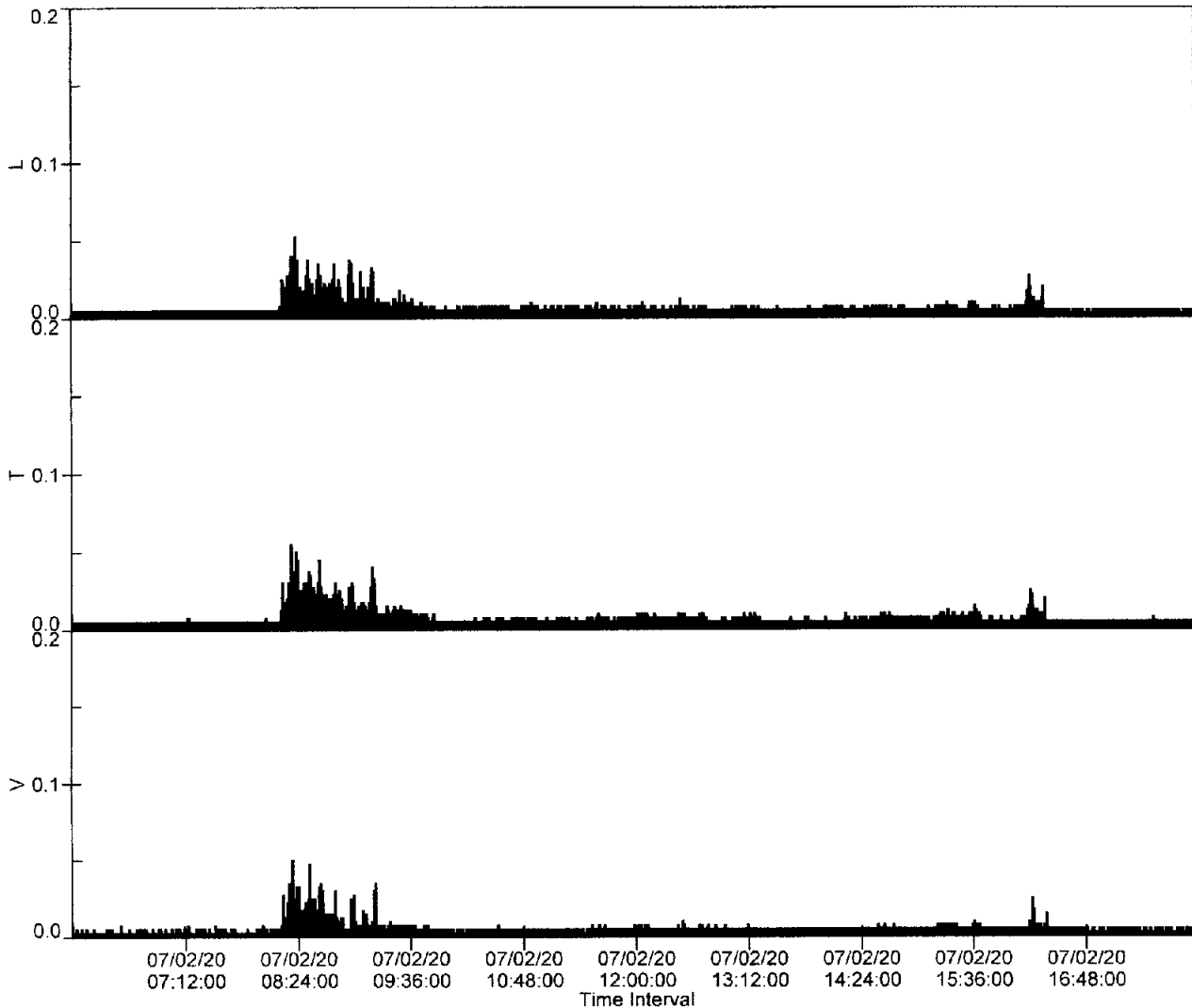
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 11

Record Max PPV: 0.055 in/s Record Max DB: 78 db



**SN:** 5259 v3.67  
**Date:** 07/03/2020 **Time:** 06:01:00  
**Event:** 12  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.015	0.013	0.013
<b>FREQ (Hz)</b>	18.5	20.8	13.9
<b>Peak Air Pressure:</b>	78 db		

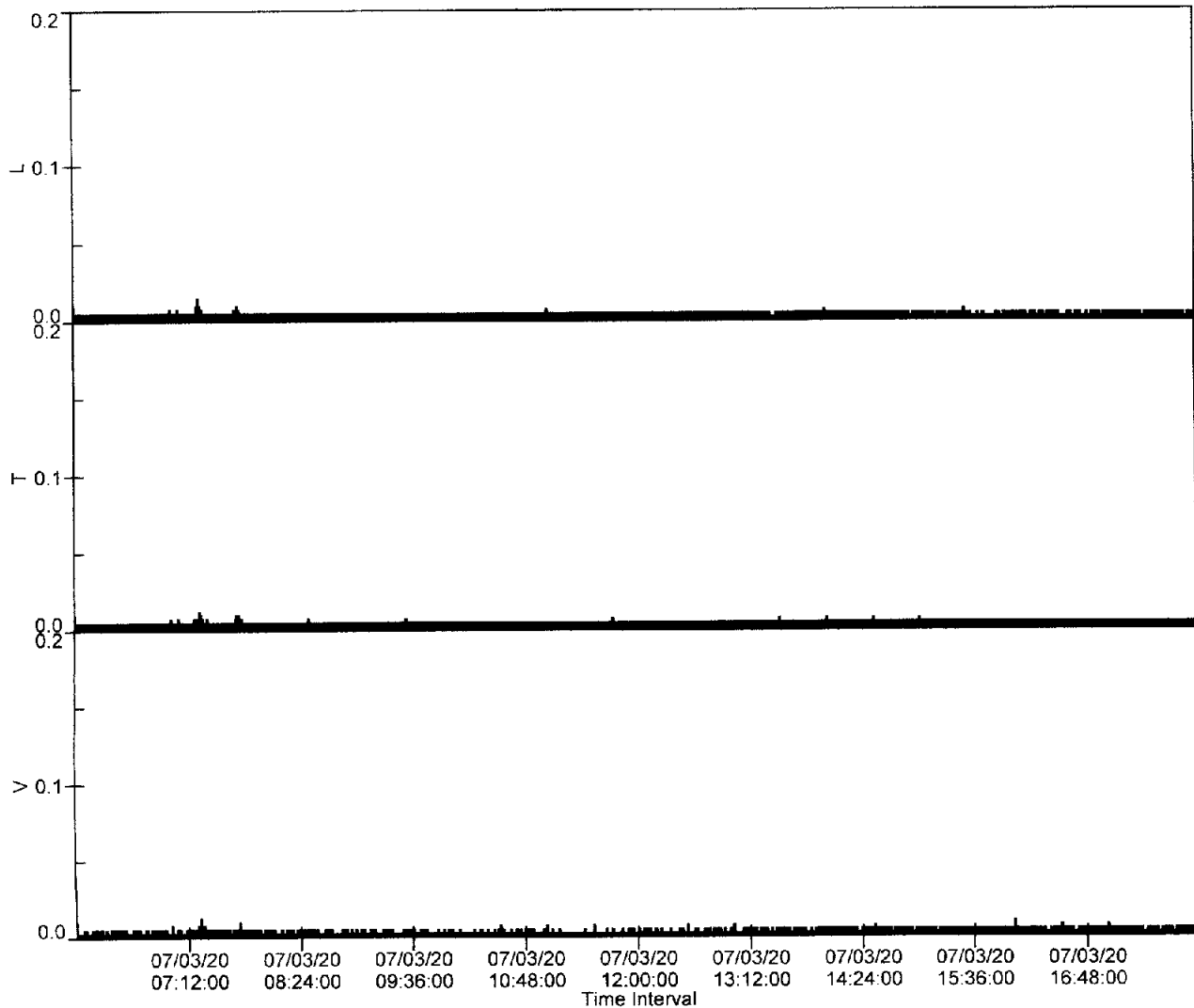
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 12

Record Max PPV: 0.015 in/s Record Max DB: 78 db



**SN:** 5259 v3.67  
**Date:** 07/04/2020 **Time:** 06:01:00  
**Event:** 13  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.010	0.010	0.010
<b>FREQ (Hz)</b>	.3	2.2	.3
<b>Peak Air Pressure:</b>	78 db		

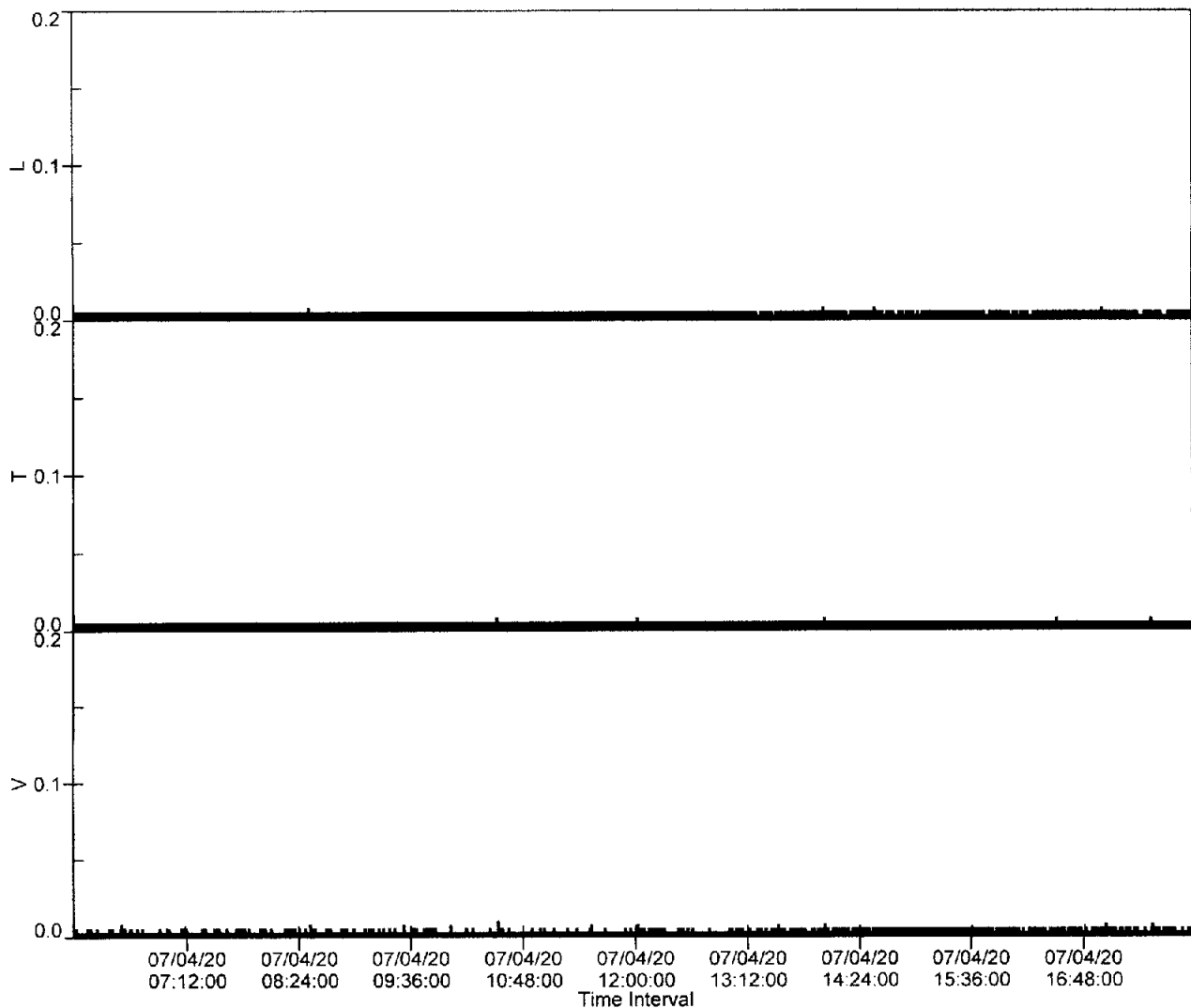
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 13

Record Max PPV: 0.010 in/s Record Max DB: 78 db



**SN:** 5259 v3.67  
**Date:** 07/05/2020 **Time:** 06:01:00  
**Event:** 14  
**Client:** BERGER CONST  
**Operation:** EXCAVATION  
**Location:** #9 WSNP  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** SW CORNER

**Continuous Monitor Recording  
Summary Data**

	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.3	41.7	.3
Peak Air Pressure:	78 db		

**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 01/23/2019  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 14

Record Max PPV: 0.010 in/s Record Max DB: 78 db

