

NSP Phase 2 Hibbard Park Project
Wilmette, Illinois

VIBRATION MONITORING REPORT-11

Mike Warning
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517

July 6, 2021

Cti



4262 Old Grand Ave
Suite 102
Chicago, IL 60031

July 6, 2021

Mike Warning
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517

RE: **Report: 11** - *Ground Vibration Monitoring for the Wilmette NSP Phase 2 Hibbard Park Project located in Wilmette, Illinois.*

Mr. Warning,

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 three seismographs, all located around the surrounding project site (see attached location diagram). This summary report covers the monitoring period from **June 21, 2021 through July 2, 2021**.

The vibration equipment at the site are Geosonic 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.

June 25, 2021	491 Skokie Boulevard	Unit #3817	V	0.085 (in/s)
June 21, 2021	3005 Wilmette Avenue	Unit #3559	V	0.125 (in/s)
June 23, 2021	3000 Hill Street	Unit #3734	L	0.353 (in/s)


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

Sincerely,

Daniel W. McCarthy
Senior Instrumentation Engineer

Hibbard Park Seismograph Location Diagram



 Seismograph Location

SN: 3817 v3.22
Date: 06/21/2021 **Time:** 07:43:00
Event: 135
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.025	0.013	0.025
FREQ (Hz)	55.6	250.0	83.3
Peak Air Pressure:	78 db		

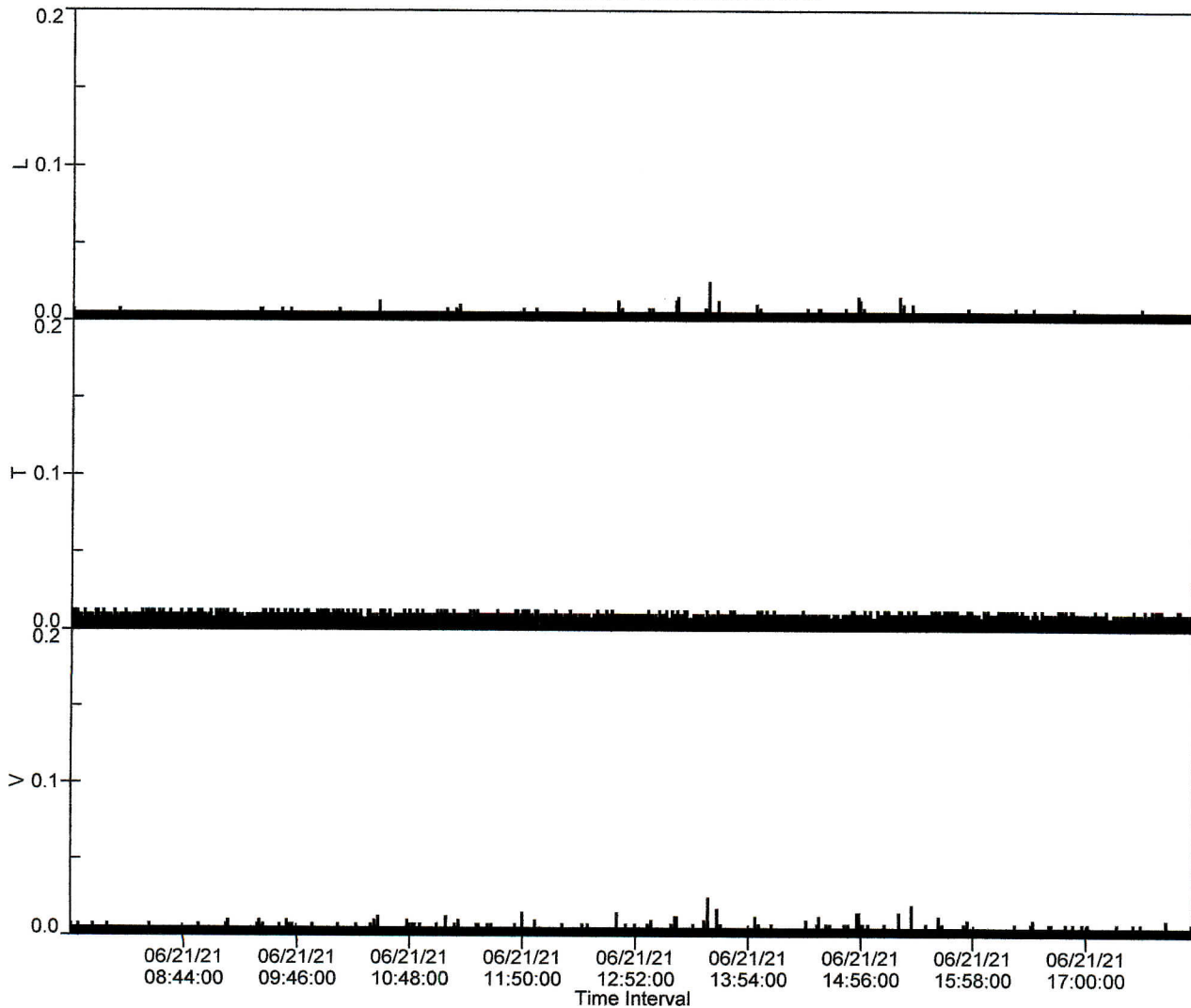
Recording Time: 616 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 135

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



SN: 3817 v3.22
Date: 06/22/2021 **Time:** 06:01:00
Event: 136
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

**Continuous Monitor Recording
Summary Data**

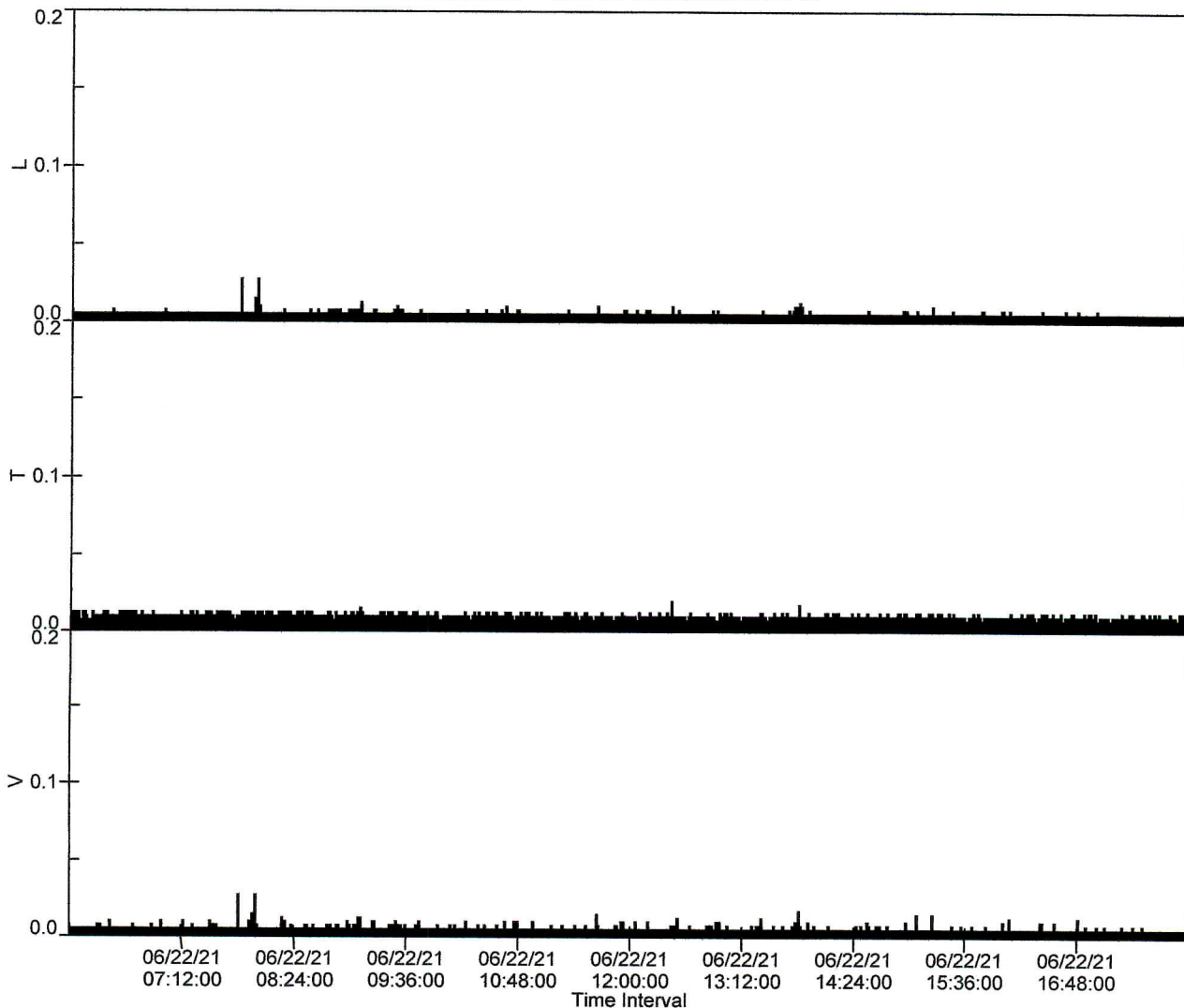
	L	T	V
PPV (in/s)	0.028	0.020	0.028
FREQ (Hz)	83.3	71.4	71.4
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 136

Record Max PPV: 0.028 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/23/2021 **Time:** 06:01:00
Event: 137
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

**Continuous Monitor Recording
Summary Data**

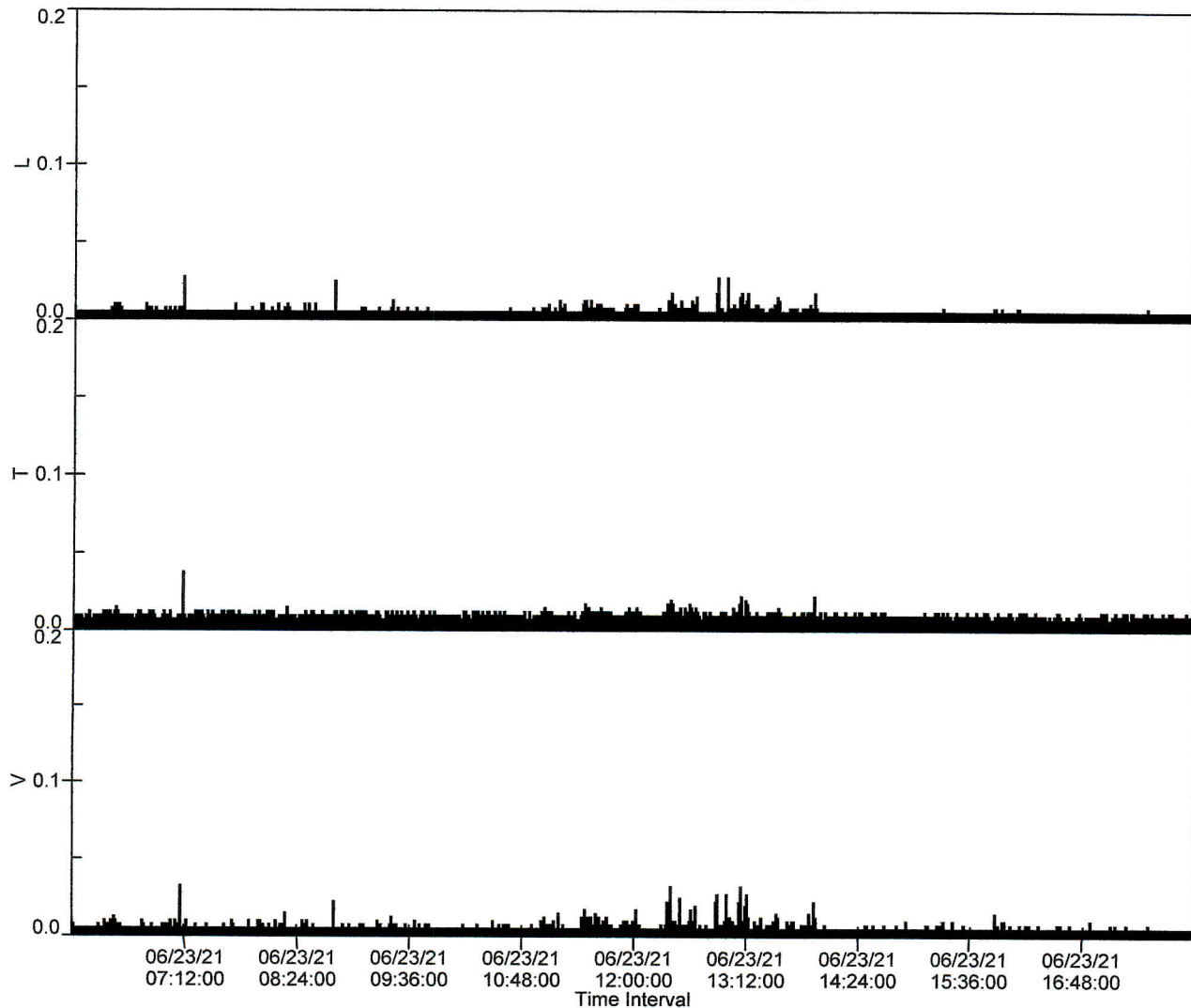
	L	T	V
PPV (in/s)	0.028	0.038	0.033
FREQ (Hz)	15.6	16.1	14.3
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 137

Record Max PPV: 0.038 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/24/2021 **Time:** 06:01:00
Event: 138
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

**Continuous Monitor Recording
Summary Data**

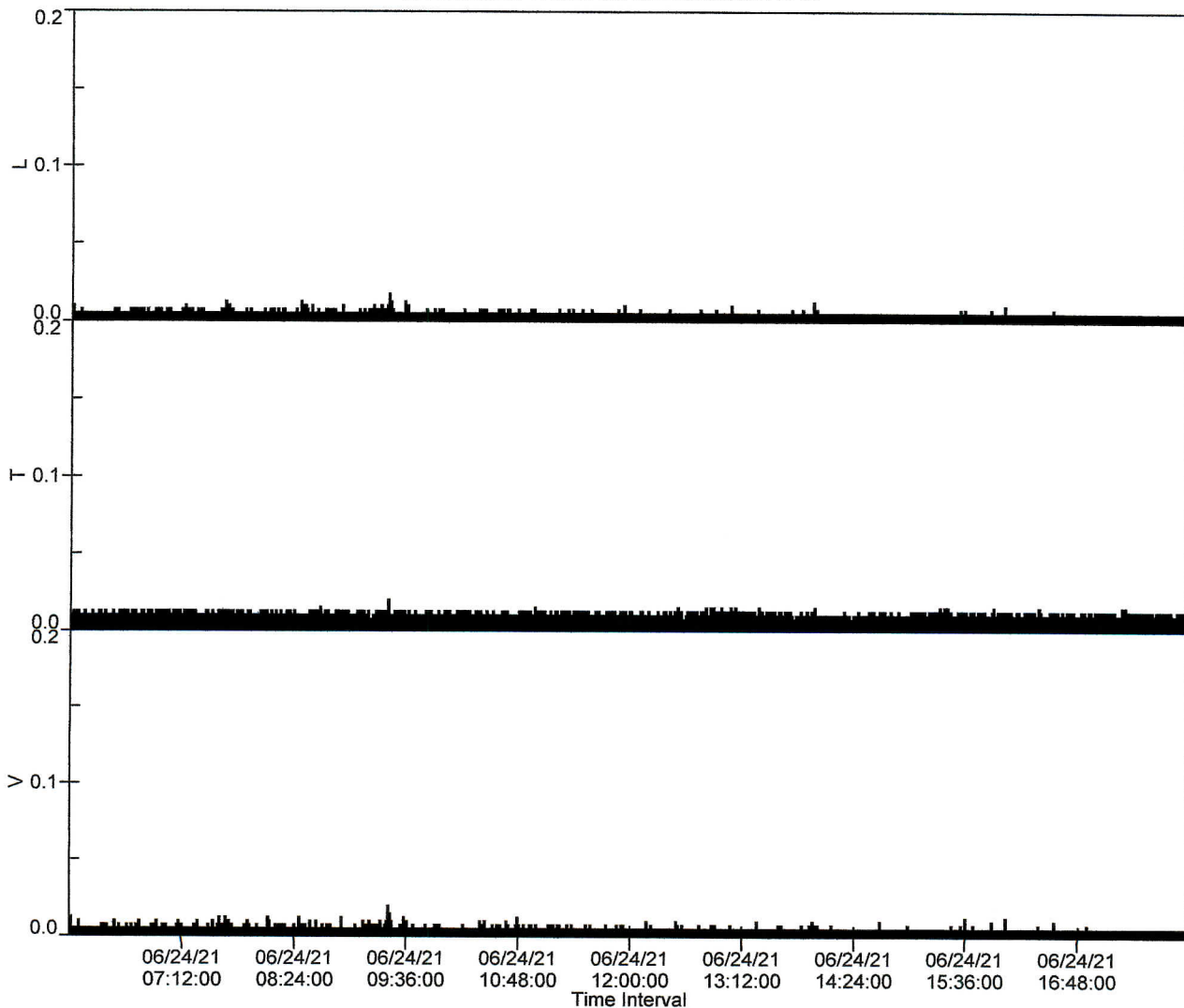
	L	T	V
PPV (in/s)	0.018	0.020	0.020
FREQ (Hz)	12.2	14.3	12.5
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 138

Record Max PPV: 0.020 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/25/2021 **Time:** 06:01:00
Event: 139
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.073	0.043	0.085
FREQ (Hz)	41.7	50.0	41.7
Peak Air Pressure:	79 db		

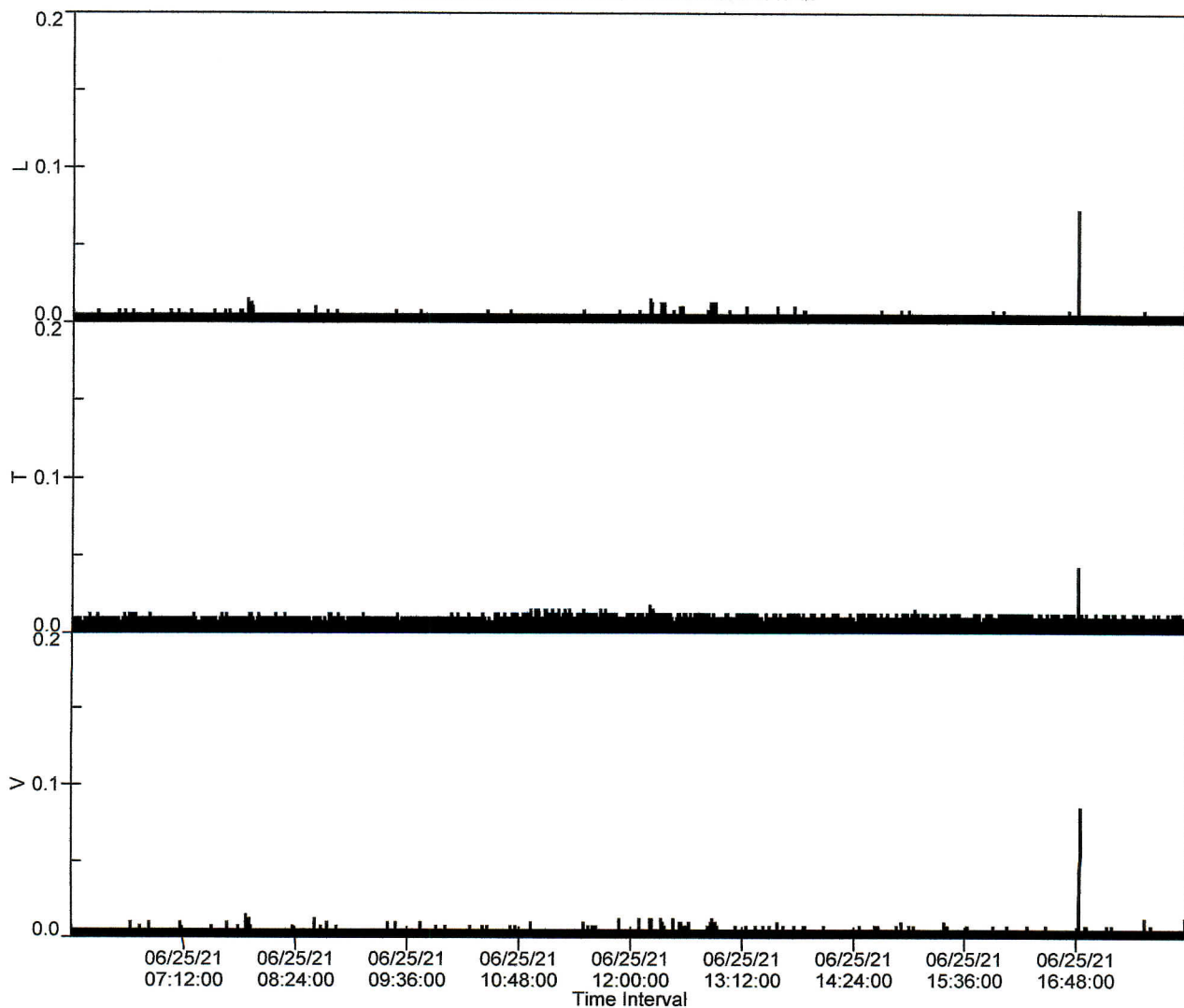
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 139

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



SN: 3817 v3.22
Date: 06/26/2021 **Time:** 06:01:00
Event: 140
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.018	0.015
FREQ (Hz)	23.8	125.0	14.3
Peak Air Pressure:	79 db		

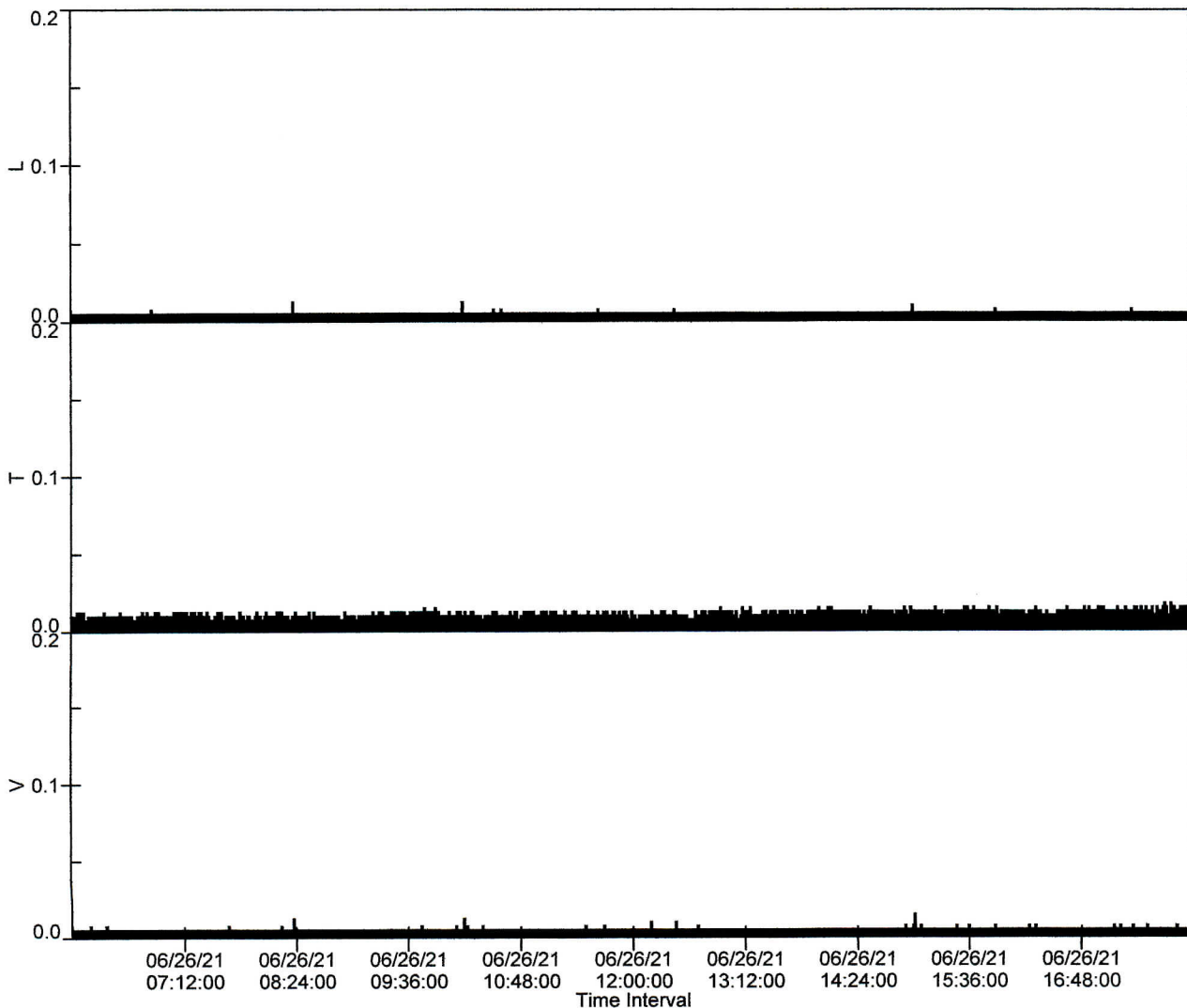
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 140

Record Max PPV: 0.018 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/27/2021 **Time:** 06:01:00
Event: 141
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

**Continuous Monitor Recording
Summary Data**

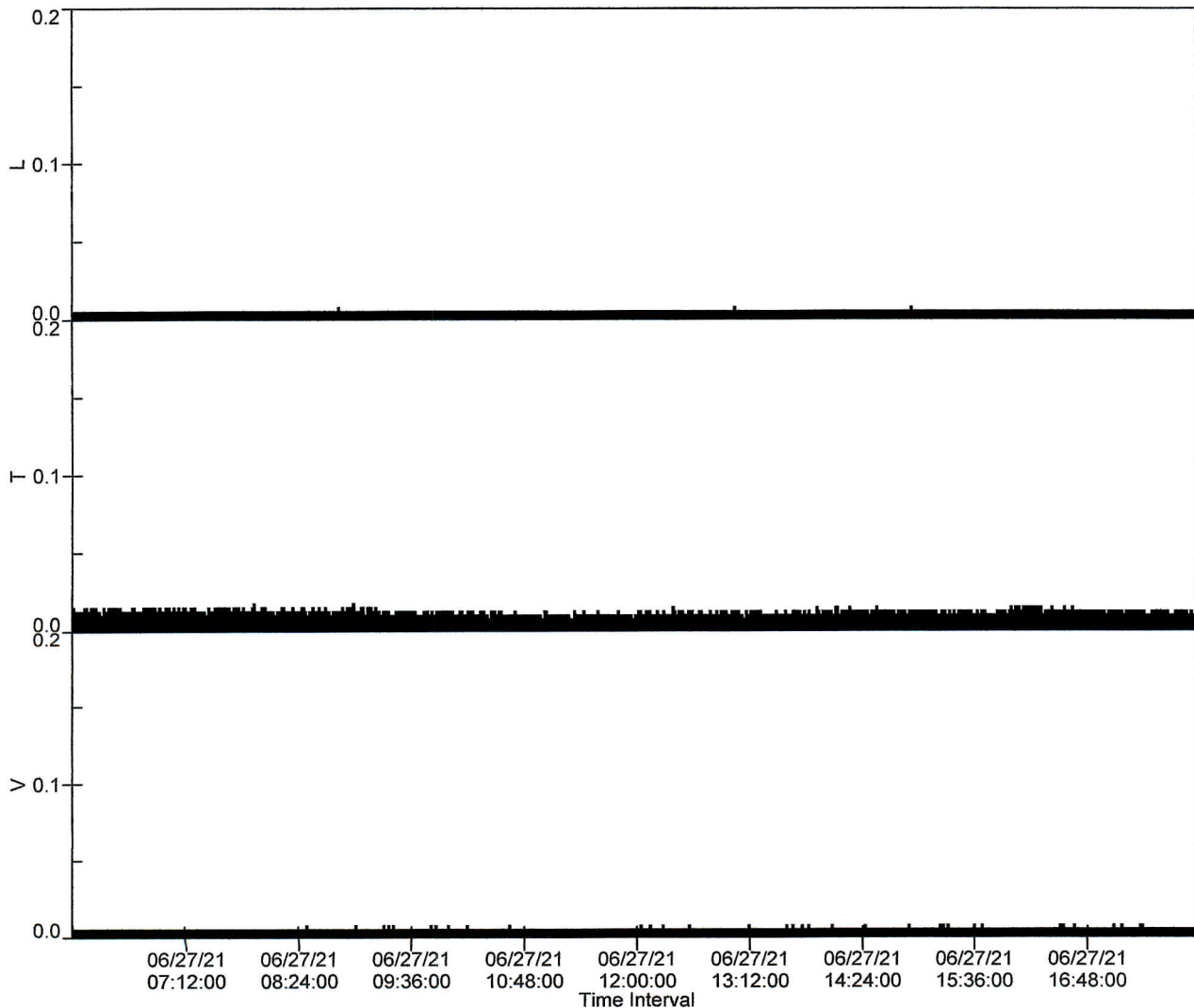
	L	T	V
PPV (in/s)	0.008	0.018	0.008
FREQ (Hz)	20.8	125.0	.4
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 141

Record Max PPV: 0.018 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/28/2021 **Time:** 06:01:00
Event: 142
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.025	0.028	0.025
FREQ (Hz)	17.9	18.5	17.9
Peak Air Pressure:	79 db		

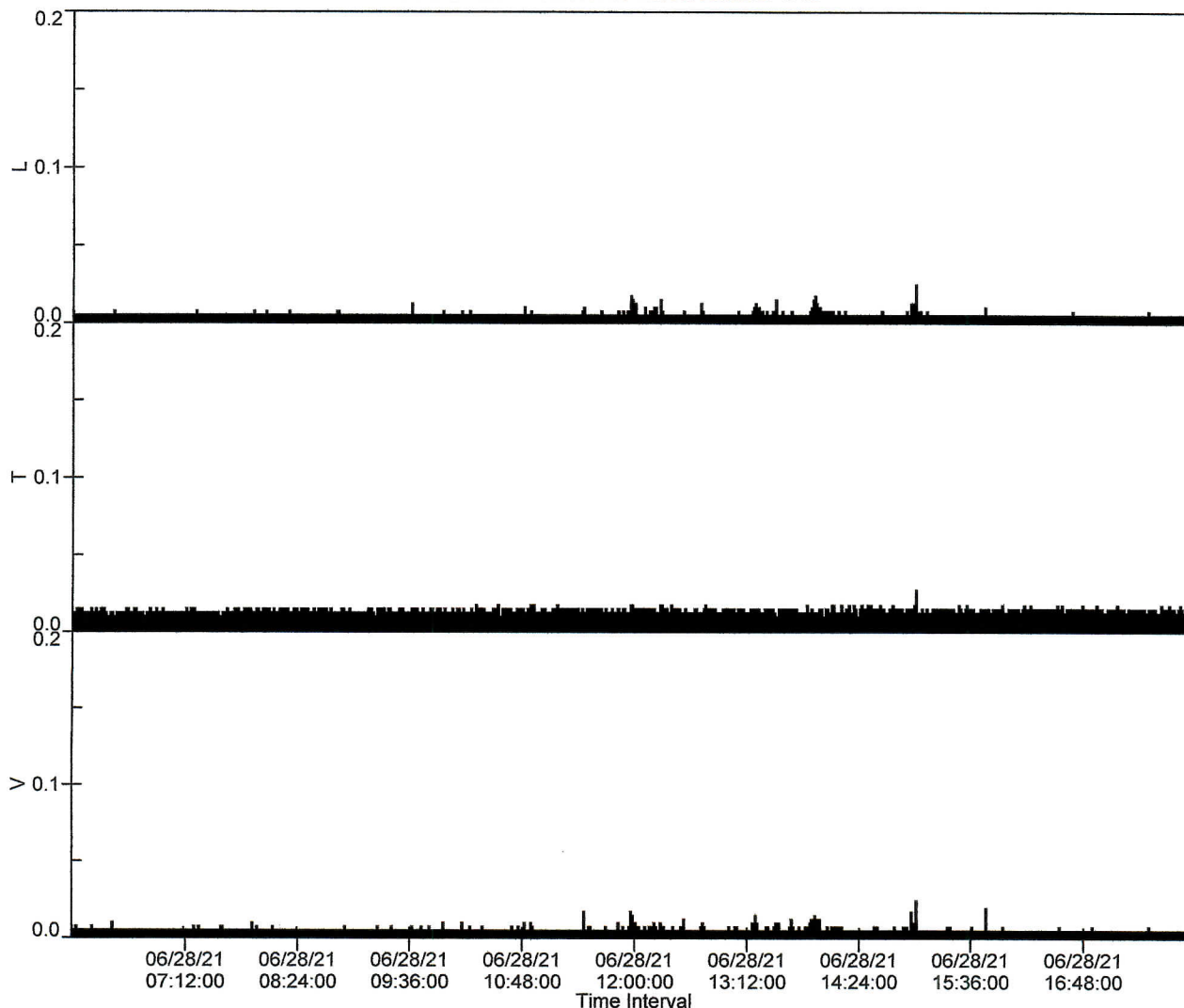
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 142

Record Max PPV: 0.028 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/29/2021 **Time:** 06:01:00
Event: 143
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.015	0.018	0.015
FREQ (Hz)	23.8	62.5	29.4
Peak Air Pressure:	79 db		

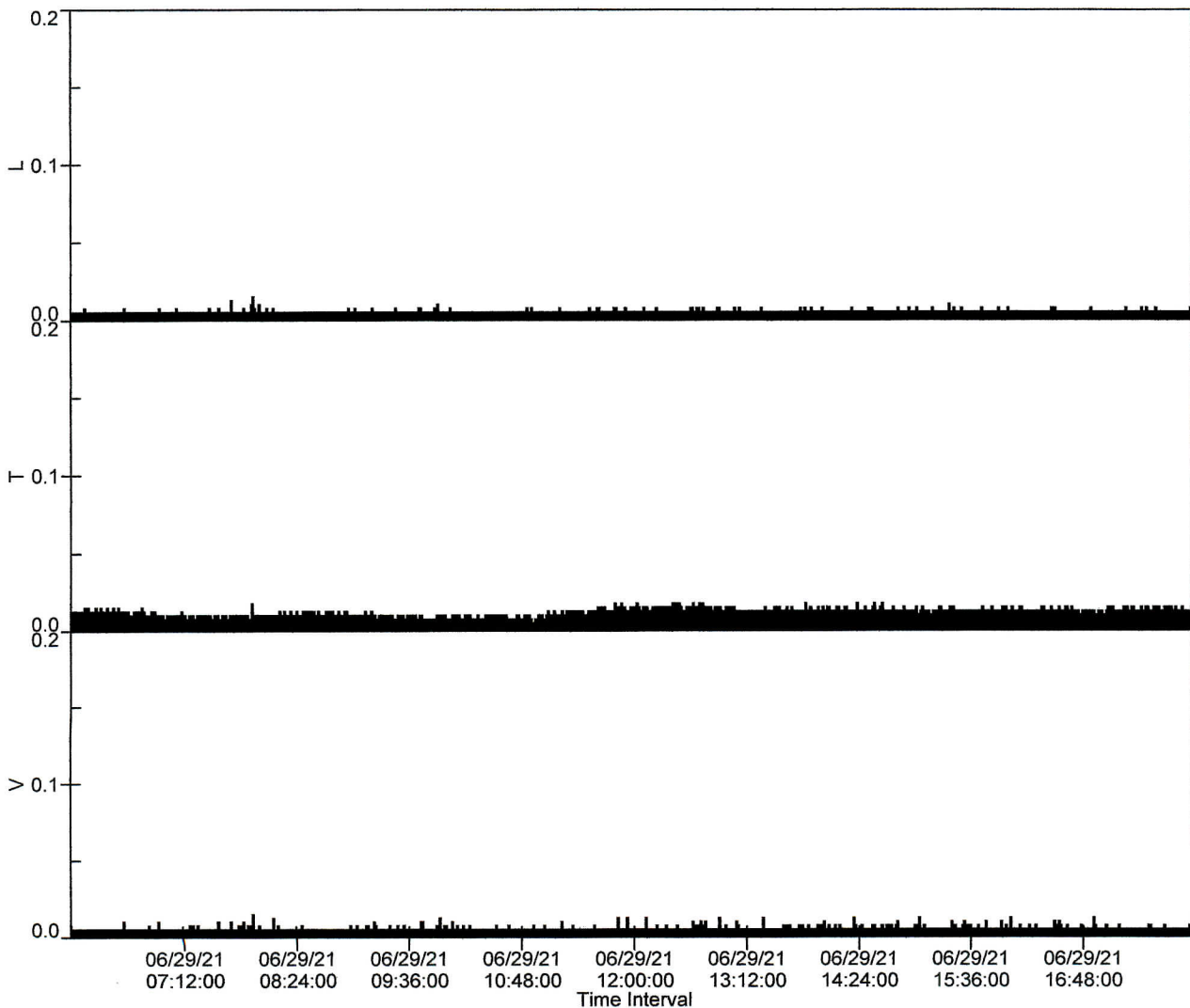
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 143

Record Max PPV: 0.018 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 06/30/2021 **Time:** 06:01:00
Event: 144
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

**Continuous Monitor Recording
Summary Data**

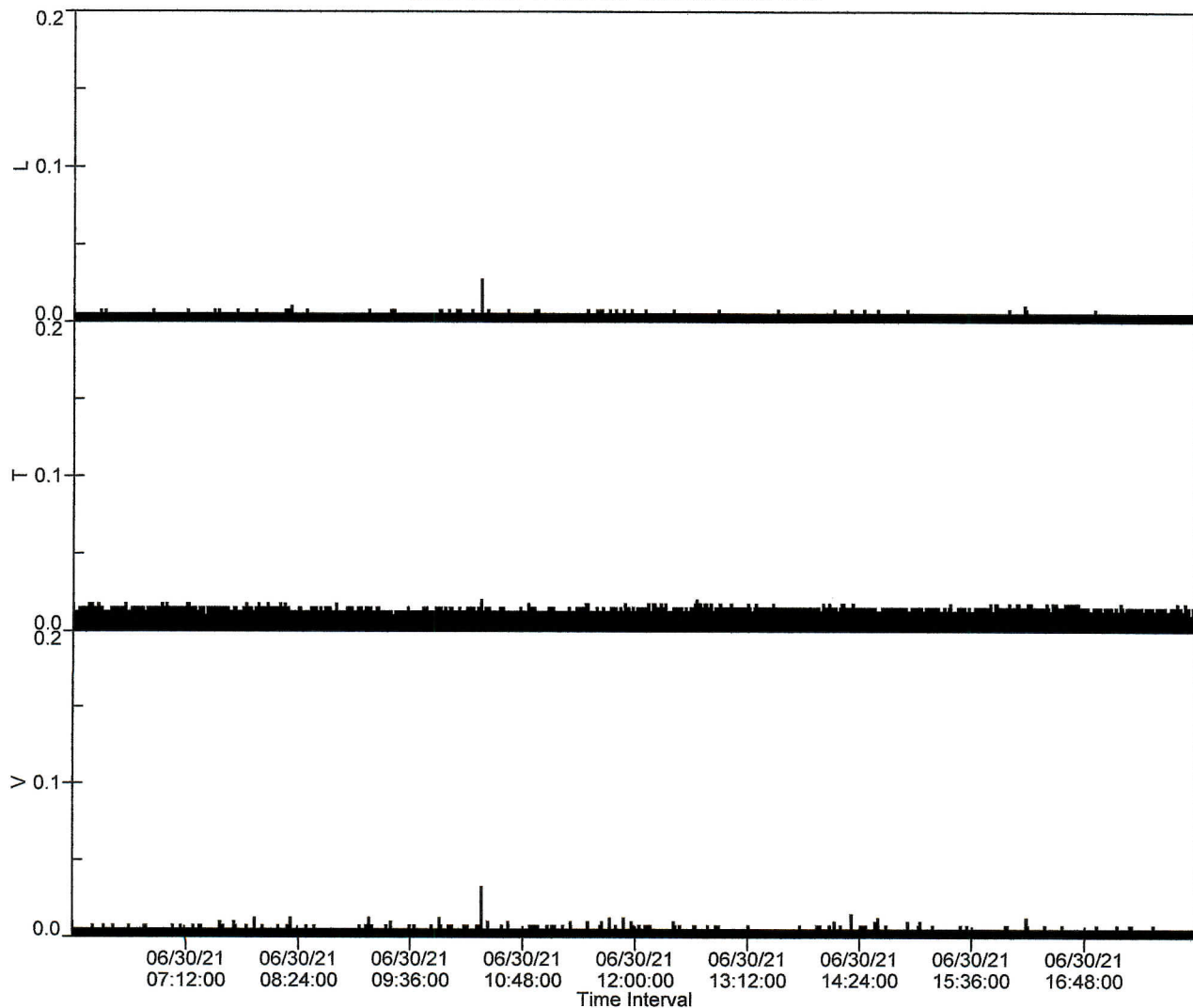
	L	T	V
PPV (in/s)	0.028	0.020	0.033
FREQ (Hz)	20.0	45.5	38.5
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 144

Record Max PPV: 0.033 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 07/01/2021 Time: 06:01:00
Event: 145
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.038	0.018	0.028
FREQ (Hz)	55.6	250.0	62.5
Peak Air Pressure:	79 db		

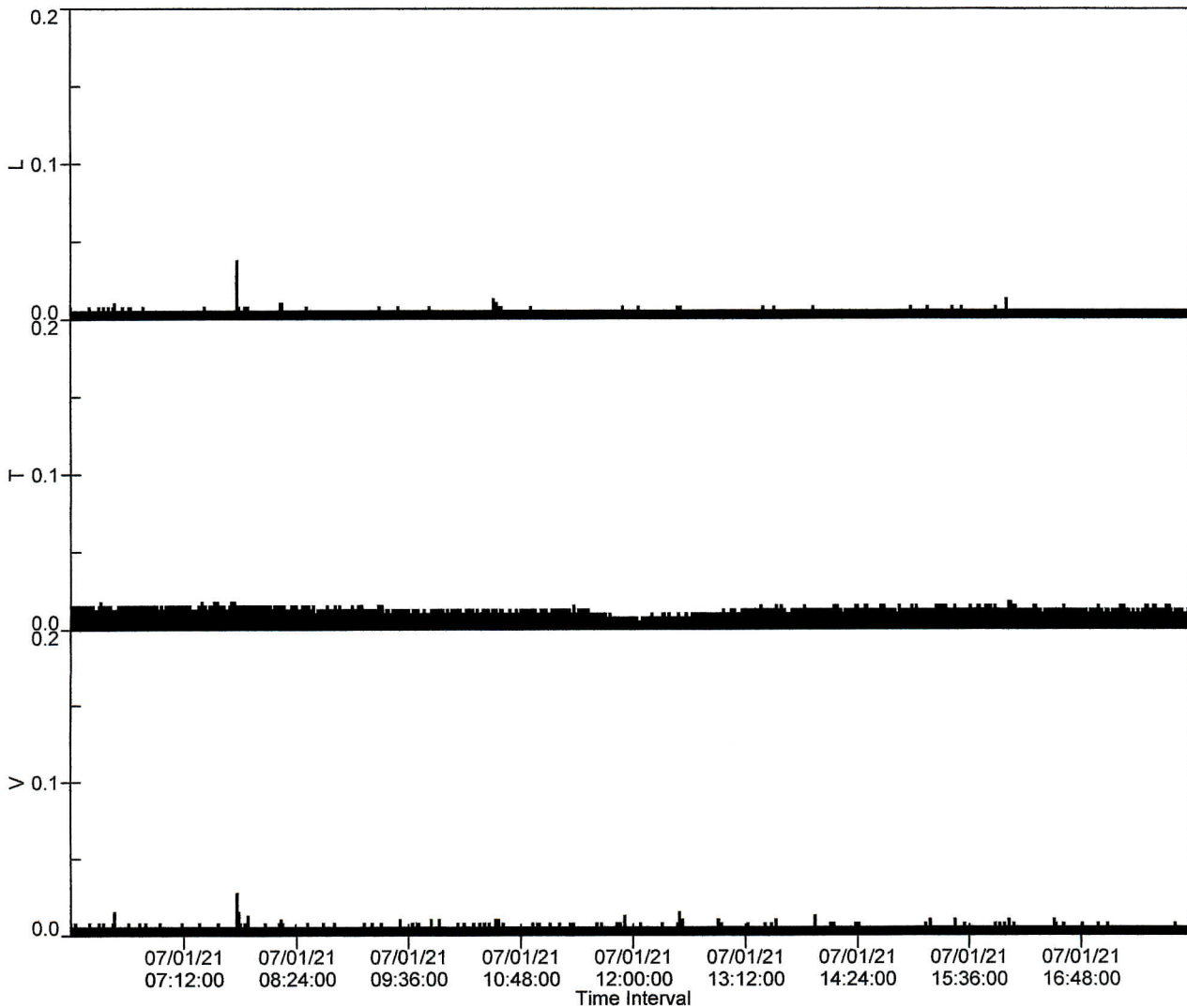
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 145

Record Max PPV: 0.038 in/s Record Max DB: 79 db



SN: 3817 v3.22
Date: 07/02/2021 **Time:** 06:01:00
Event: 146
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 491 SKOKIE BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.023	0.018
FREQ (Hz)	55.6	21.7	14.3
Peak Air Pressure:	79 db		

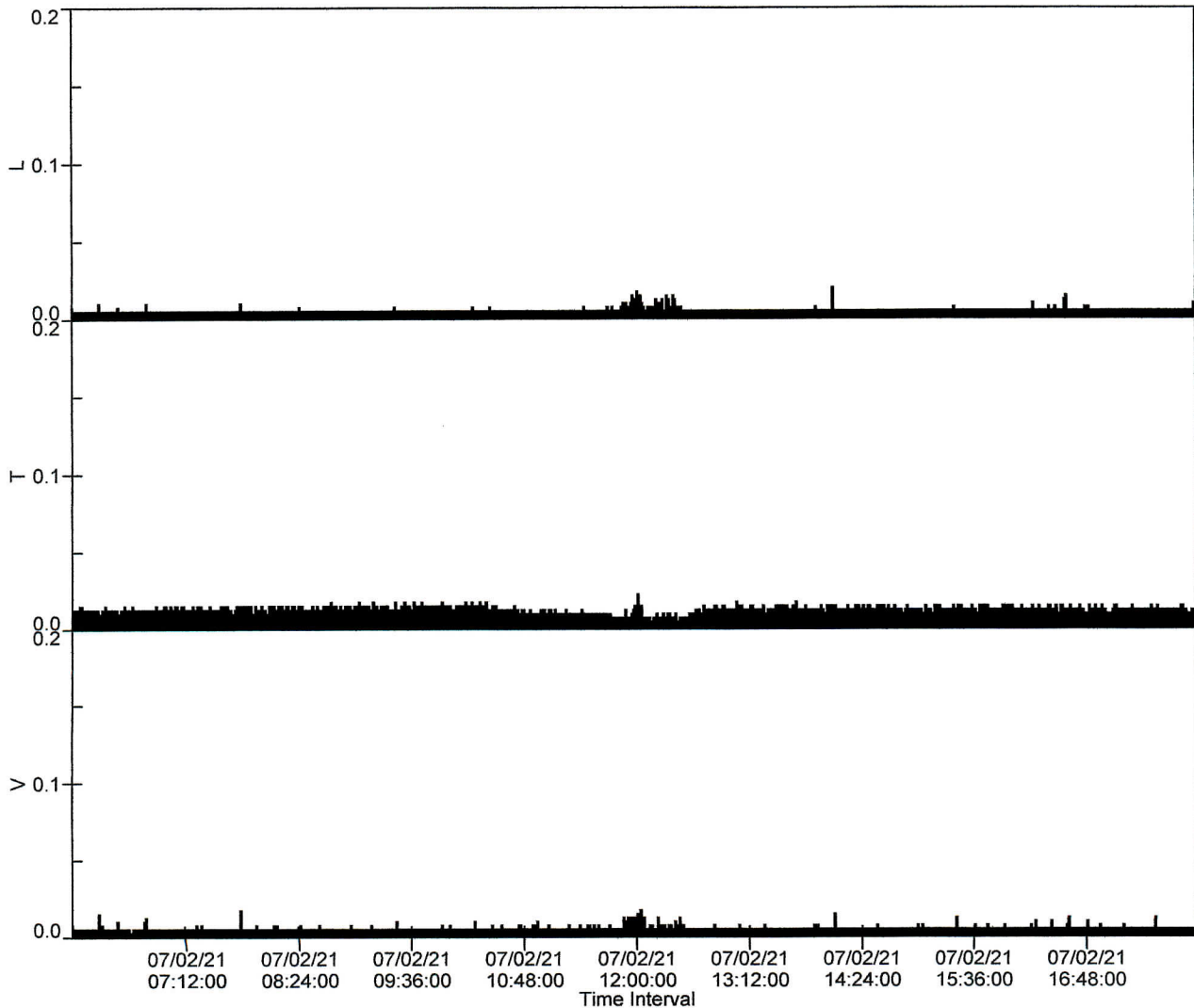
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 146

Record Max PPV: 0.023 in/s Record Max DB: 79 db



SN: 3559 v2.75
Date: 06/21/2021 **Time:** 09:27:00
Event: 136
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.053	0.083	0.125
FREQ (Hz)	1.1	10.6	11.4
Peak Air Pressure:	81 db		

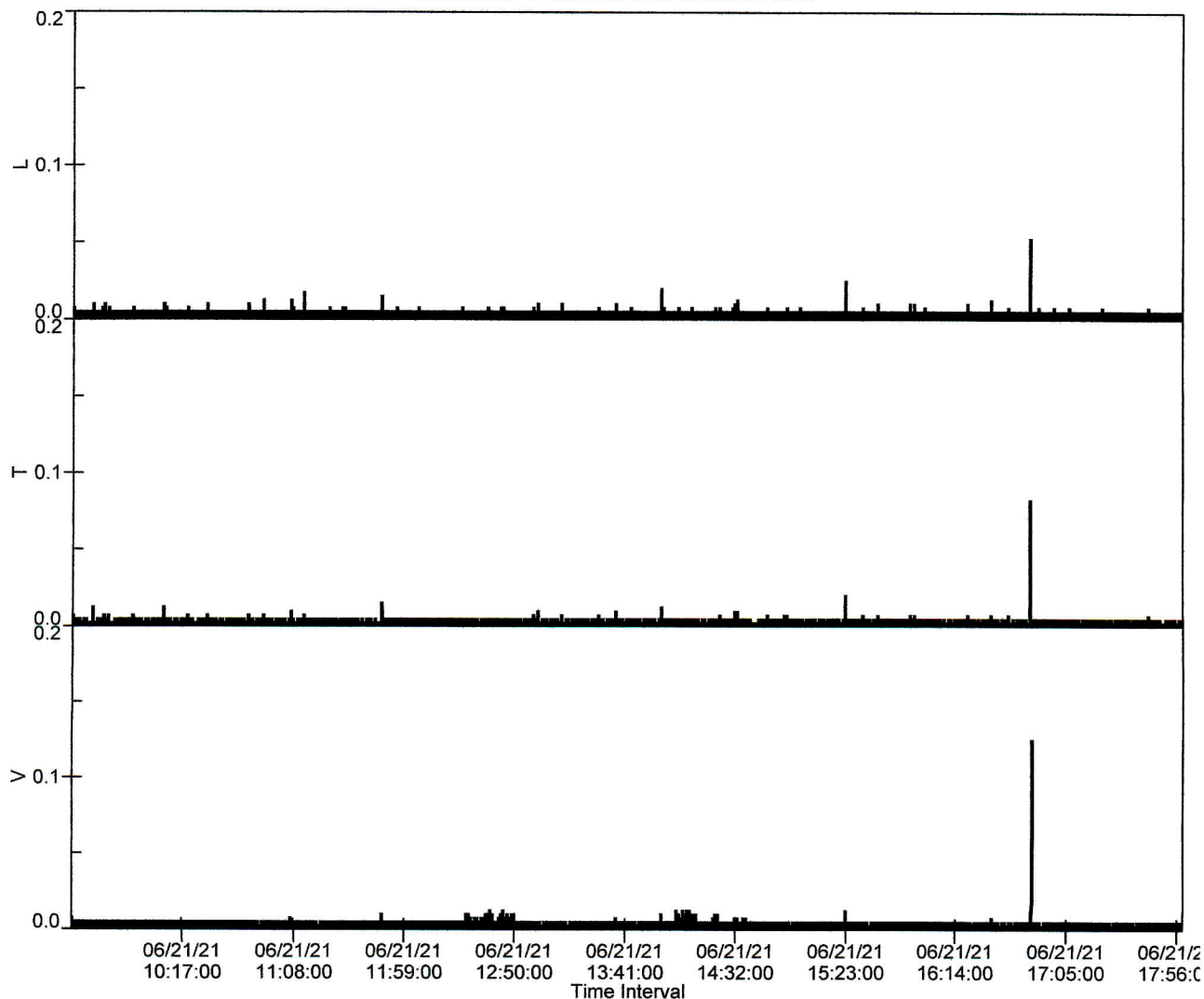
Recording Time: 512 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 136

Record Max PPV: 0.125 in/s Record Max DB: 81 db



SN: 3559 v2.75
Date: 06/22/2021 **Time:** 06:01:00
Event: 137
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.018	0.015	0.013
FREQ (Hz)	15.2	9.3	14.3
Peak Air Pressure:	81 db		

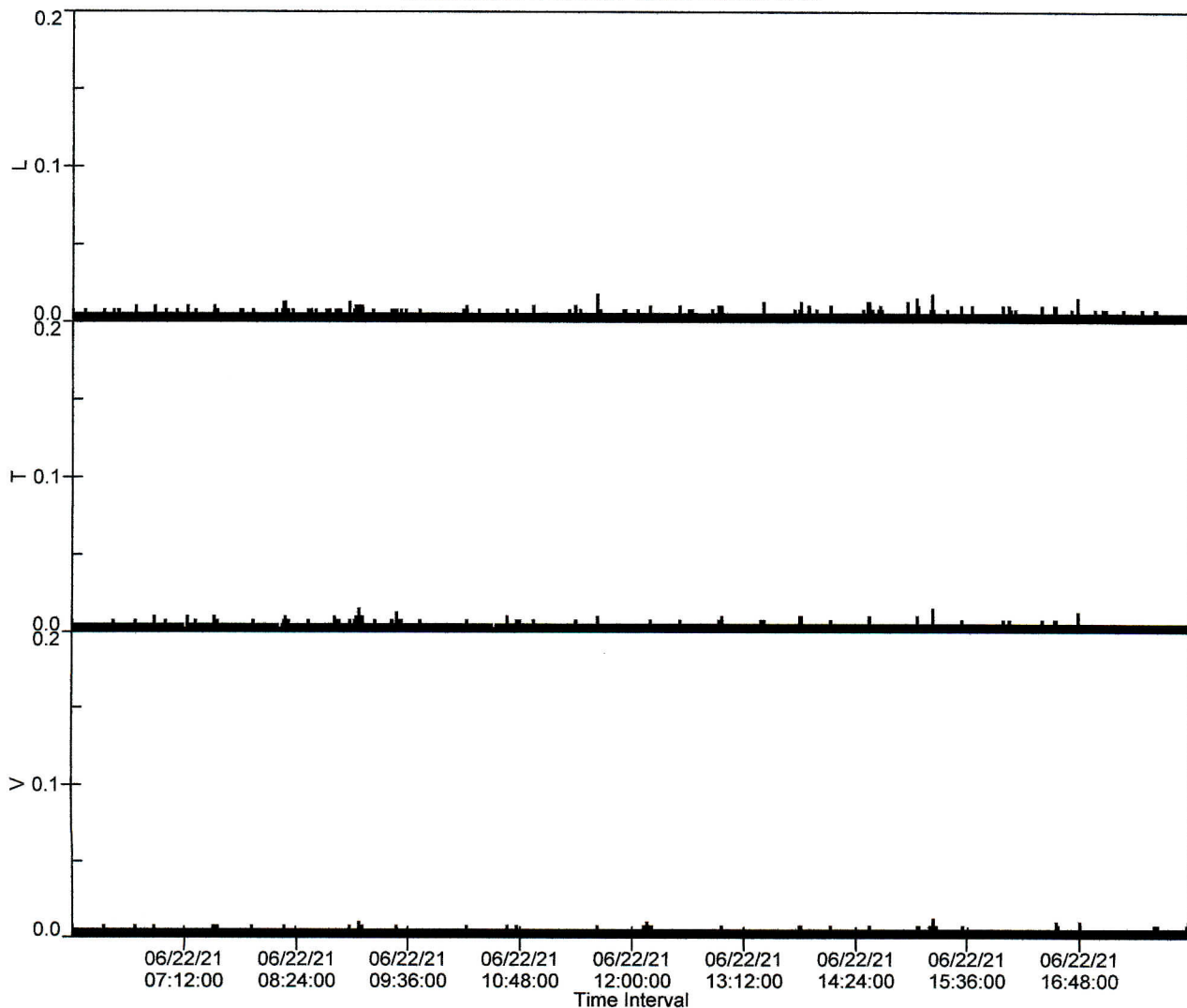
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 137

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



SN: 3559 v2.75
Date: 06/23/2021 **Time:** 06:01:00
Event: 138
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.023	0.025	0.018
FREQ (Hz)	17.2	31.3	11.1
Peak Air Pressure:	82 db		

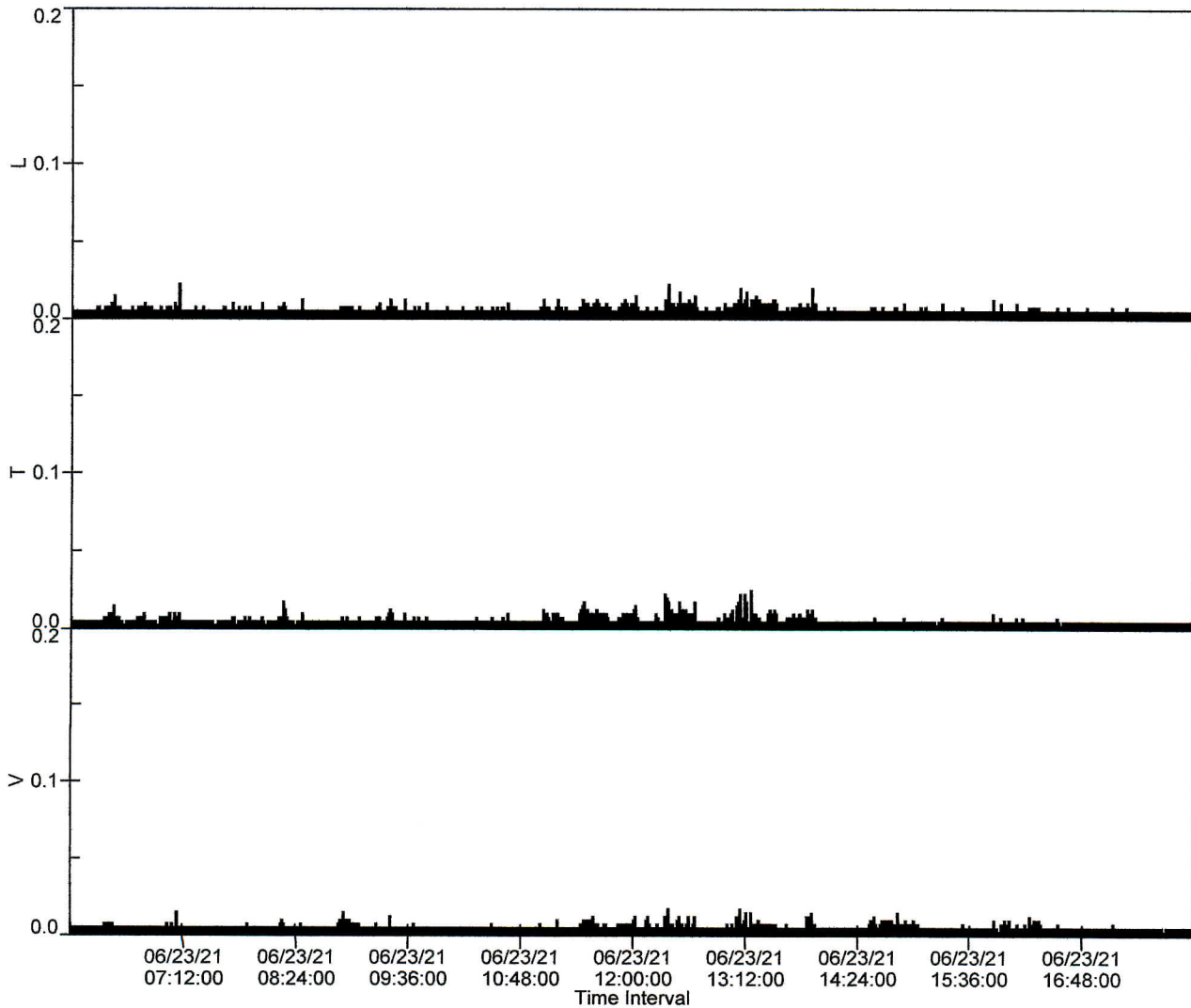
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 138

Record Max PPV: 0.025 in/s Record Max DB: 82 db



SN: 3559 v2.75
Date: 06/24/2021 **Time:** 06:01:00
Event: 139
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

**Continuous Monitor Recording
Summary Data**

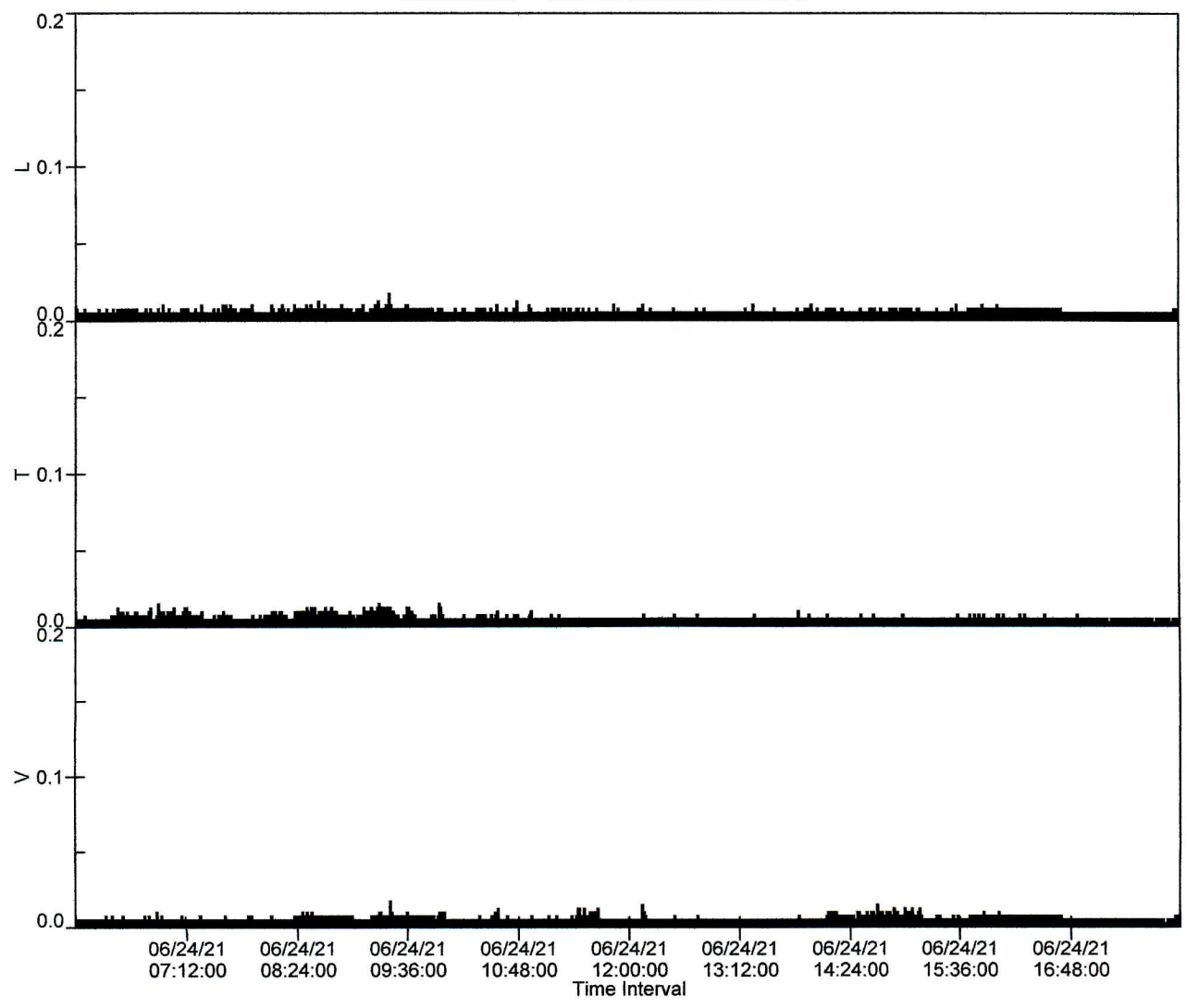
	L	T	V
PPV (in/s)	0.018	0.015	0.018
FREQ (Hz)	15.6	10.2	11.6
Peak Air Pressure:	82 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 139

Record Max PPV: 0.018 in/s Record Max DB: 82 db



SN: 3559 v2.75
Date: 06/25/2021 **Time:** 06:01:00
Event: 140
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.015	0.013	0.013
FREQ (Hz)	15.2	15.2	1.2
Peak Air Pressure:	79 db		

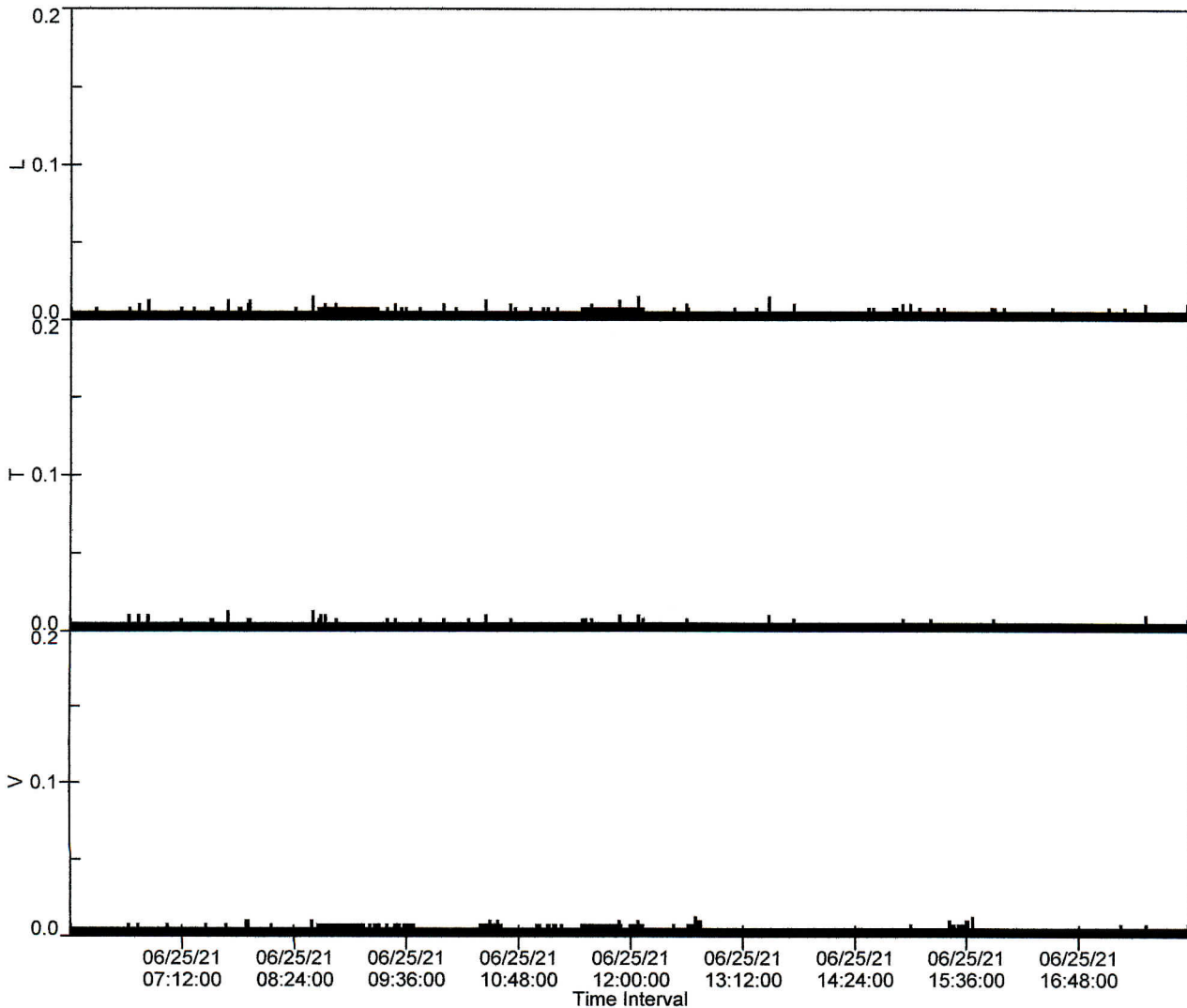
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 140

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



SN: 3559 v2.75
Date: 06/26/2021 **Time:** 06:01:00
Event: 141
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.010	0.013
FREQ (Hz)	17.9	16.7	16.7
Peak Air Pressure:	79 db		

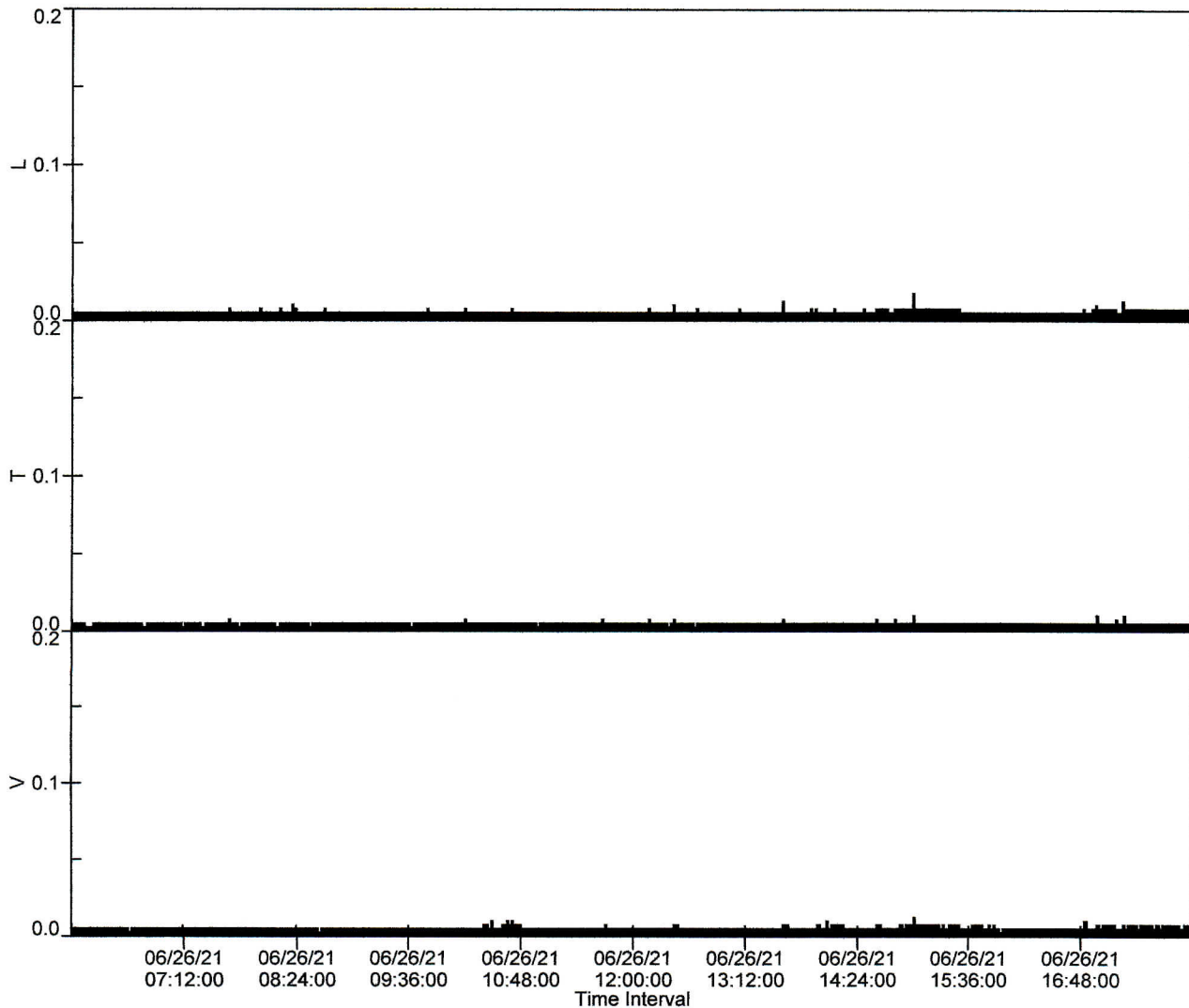
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 141

Record Max PPV: 0.018 in/s Record Max DB: 79 db



SN: 3559 v2.75
Date: 06/27/2021 **Time:** 06:01:00
Event: 142
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.008	0.013
FREQ (Hz)	13.9	22.7	1.4
Peak Air Pressure:	78 db		

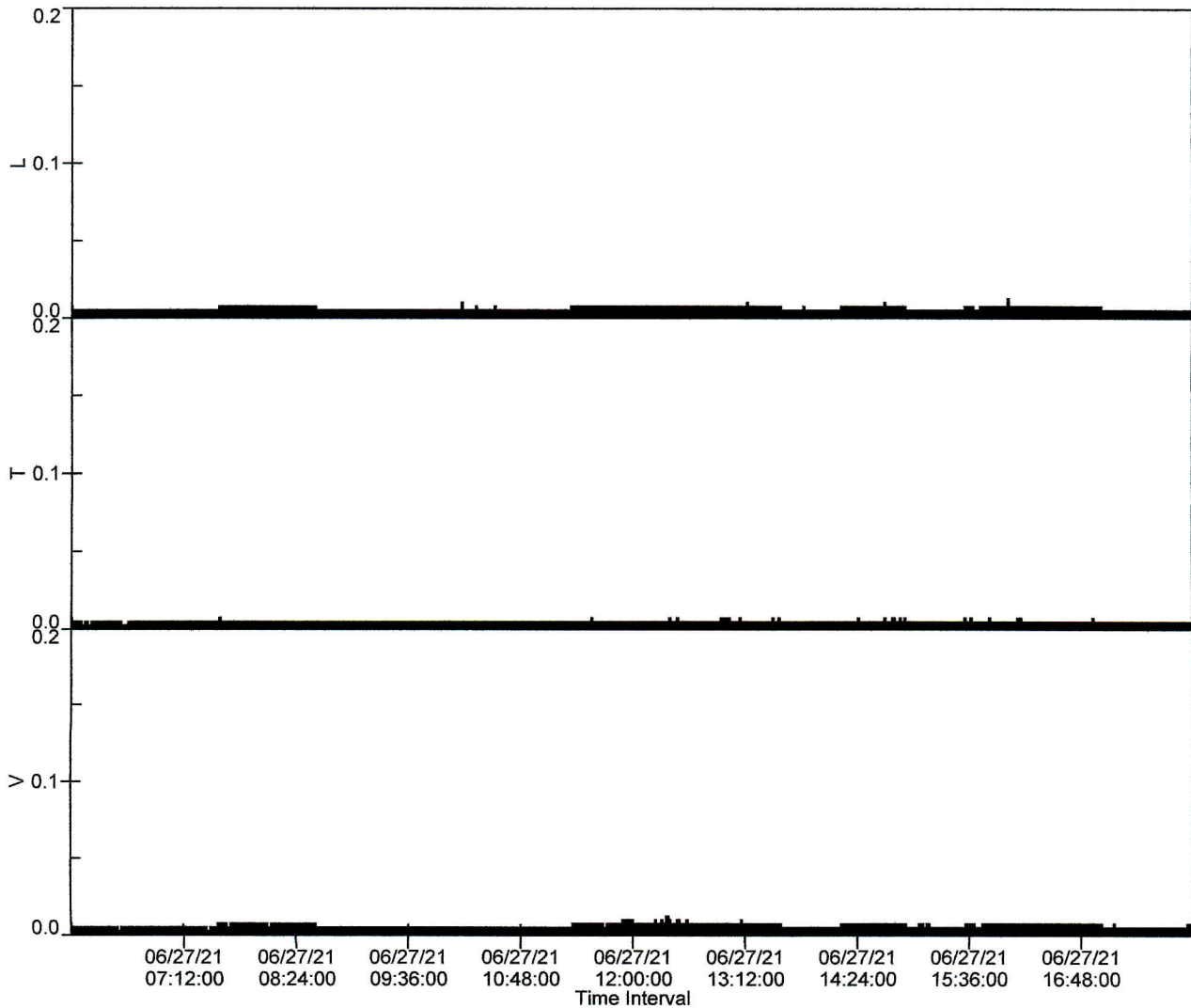
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 142

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



SN: 3559 v2.75
Date: 06/28/2021 **Time:** 06:01:00
Event: 143
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.015	0.015
FREQ (Hz)	20.0	17.9	.9
Peak Air Pressure:	79 db		

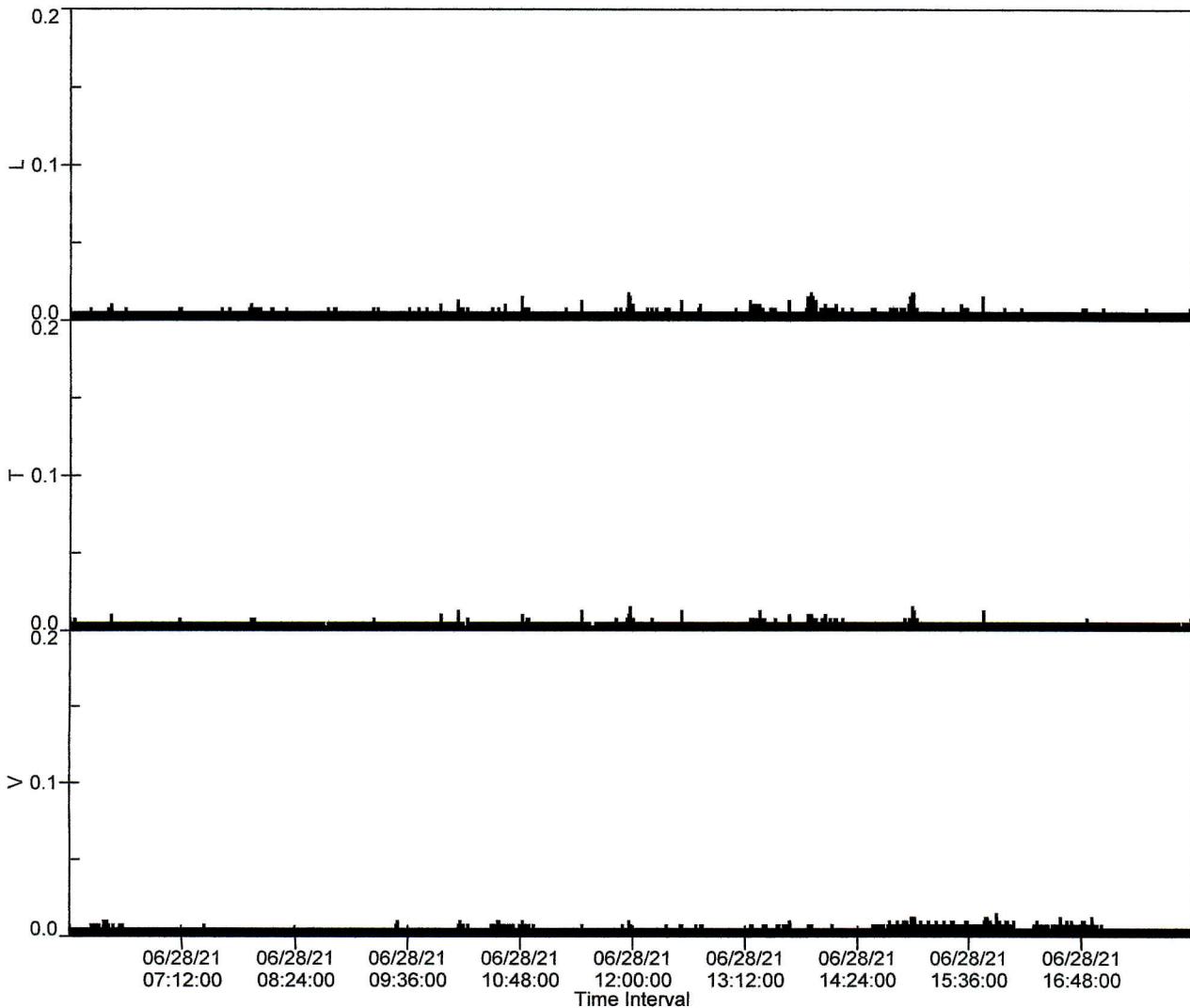
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 143

Record Max PPV: 0.018 in/s Record Max DB: 79 db



SN: 3559 v2.75
Date: 06/29/2021 **Time:** 06:01:00
Event: 144
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.015	0.013
FREQ (Hz)	17.2	19.2	1.4
Peak Air Pressure:	78 db		

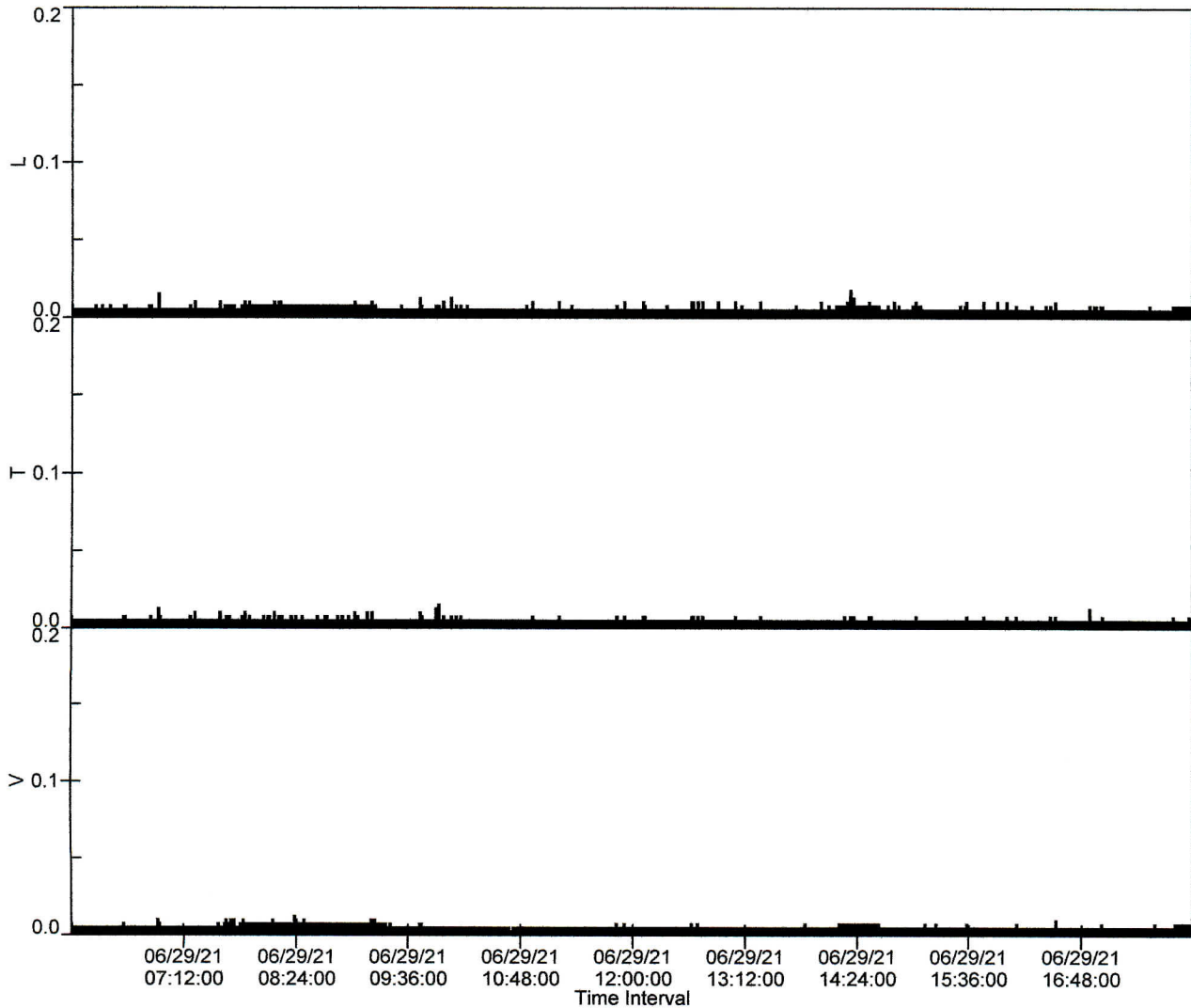
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 144

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



SN: 3559 v2.75
Date: 06/30/2021 **Time:** 06:01:00
Event: 145
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3005 WILMETTE AVENUE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.018	0.028	0.018
FREQ (Hz)	38.5	35.7	45.5
Peak Air Pressure:	79 db		

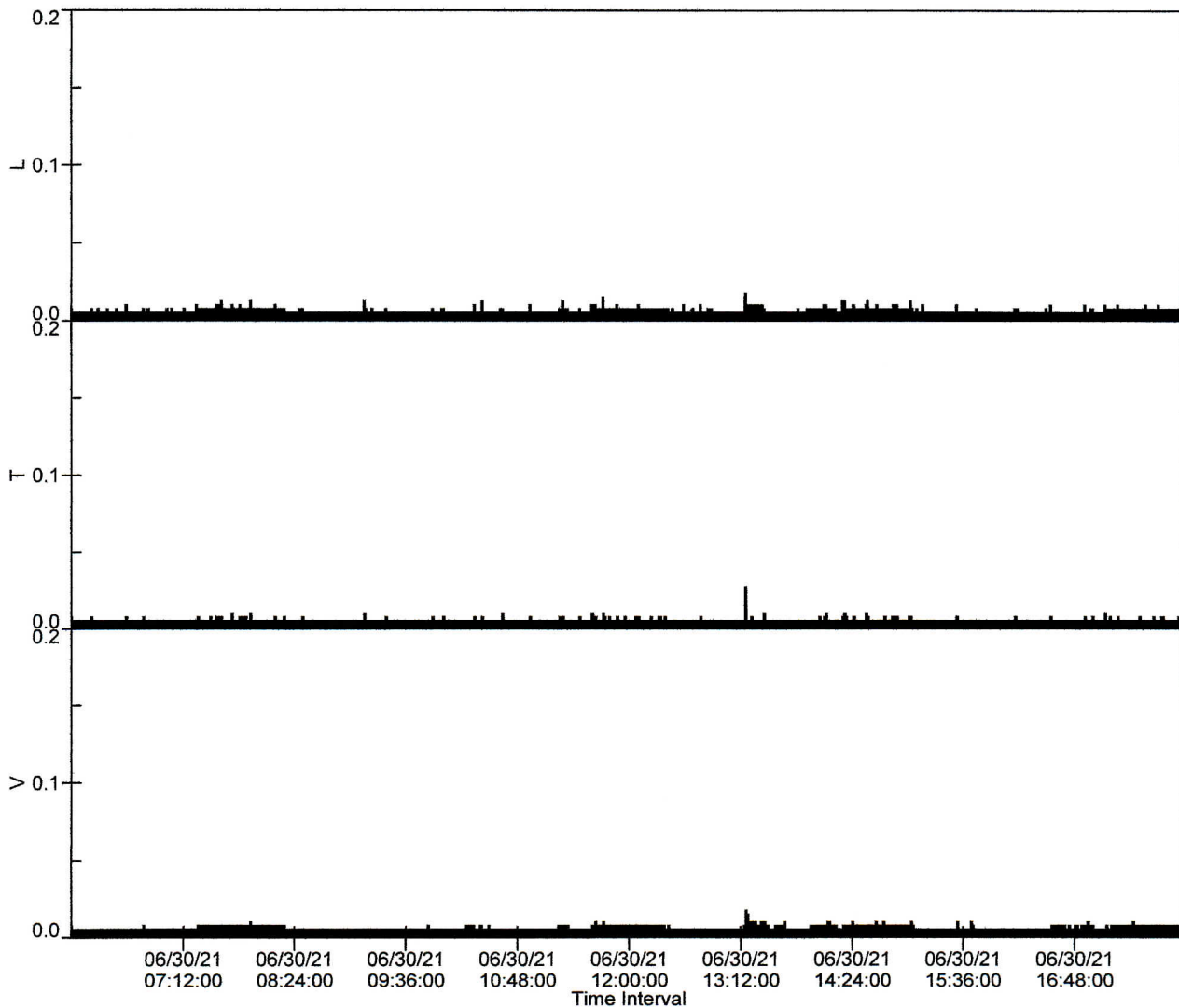
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 145

Record Max PPV: 0.028 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/21/2021 **Time:** 07:50:00
Event: 135
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

**Continuous Monitor Recording
 Summary Data**

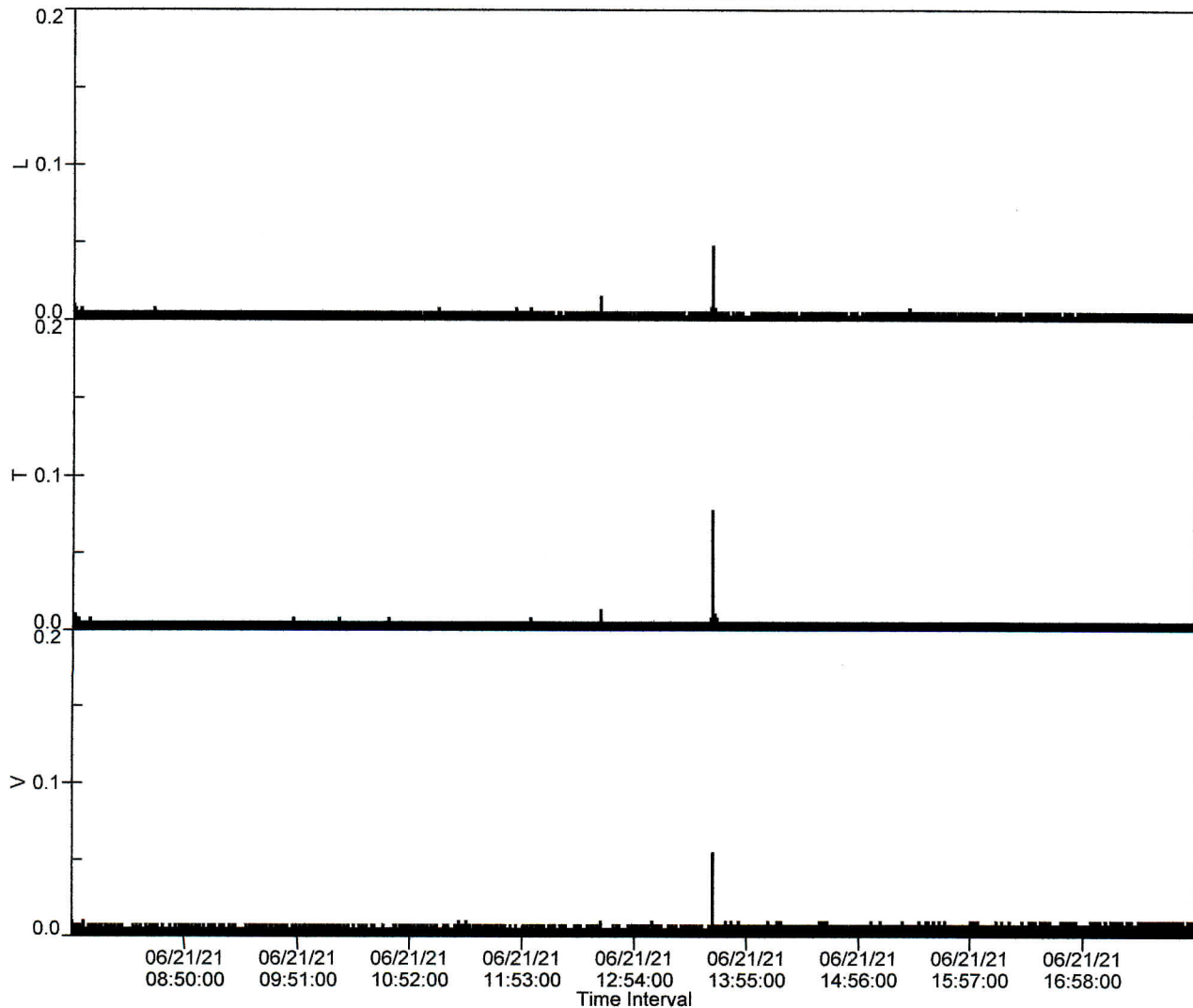
	L	T	V
PPV (in/s)	0.048	0.078	0.055
FREQ (Hz)	17.9	16.7	11.4
Peak Air Pressure: 81 db			
Recording Time: 609 minutes			
Sample Size: 1440			
Interval Size: 60 seconds			

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 135

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



SN: 3734 v3.22
Date: 06/22/2021 **Time:** 06:01:00
Event: 136
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.093	0.088	0.035
FREQ (Hz)	18.5	19.2	8.8
Peak Air Pressure:	82 db		

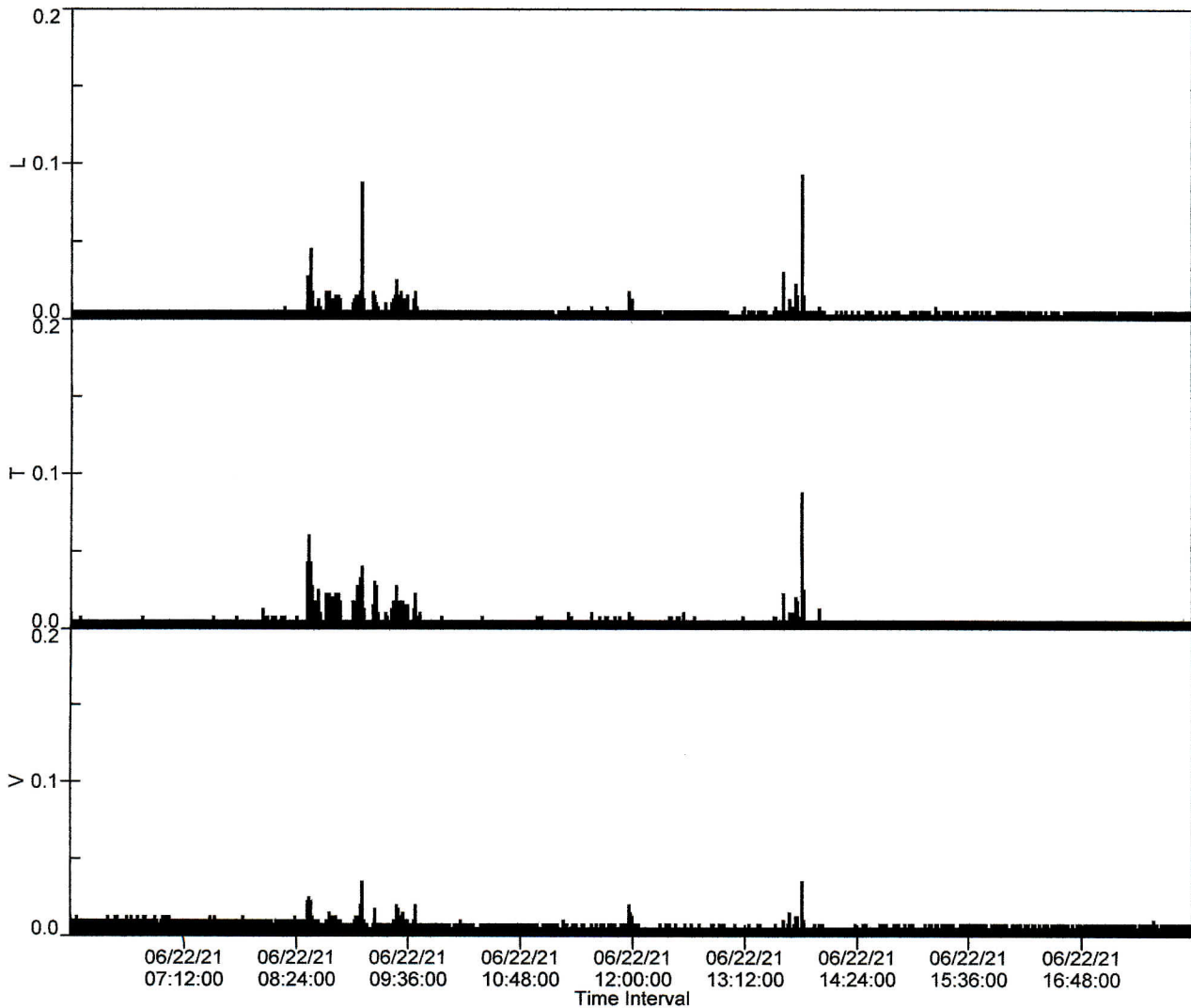
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 136

Record Max PPV: 0.093 in/s Record Max DB: 82 db



SN: 3734 v3.22
Date: 06/23/2021 **Time:** 06:01:00
Event: 137
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.353	0.198	0.085
FREQ (Hz)	22.7	23.8	12.5
Peak Air Pressure:	79 db		

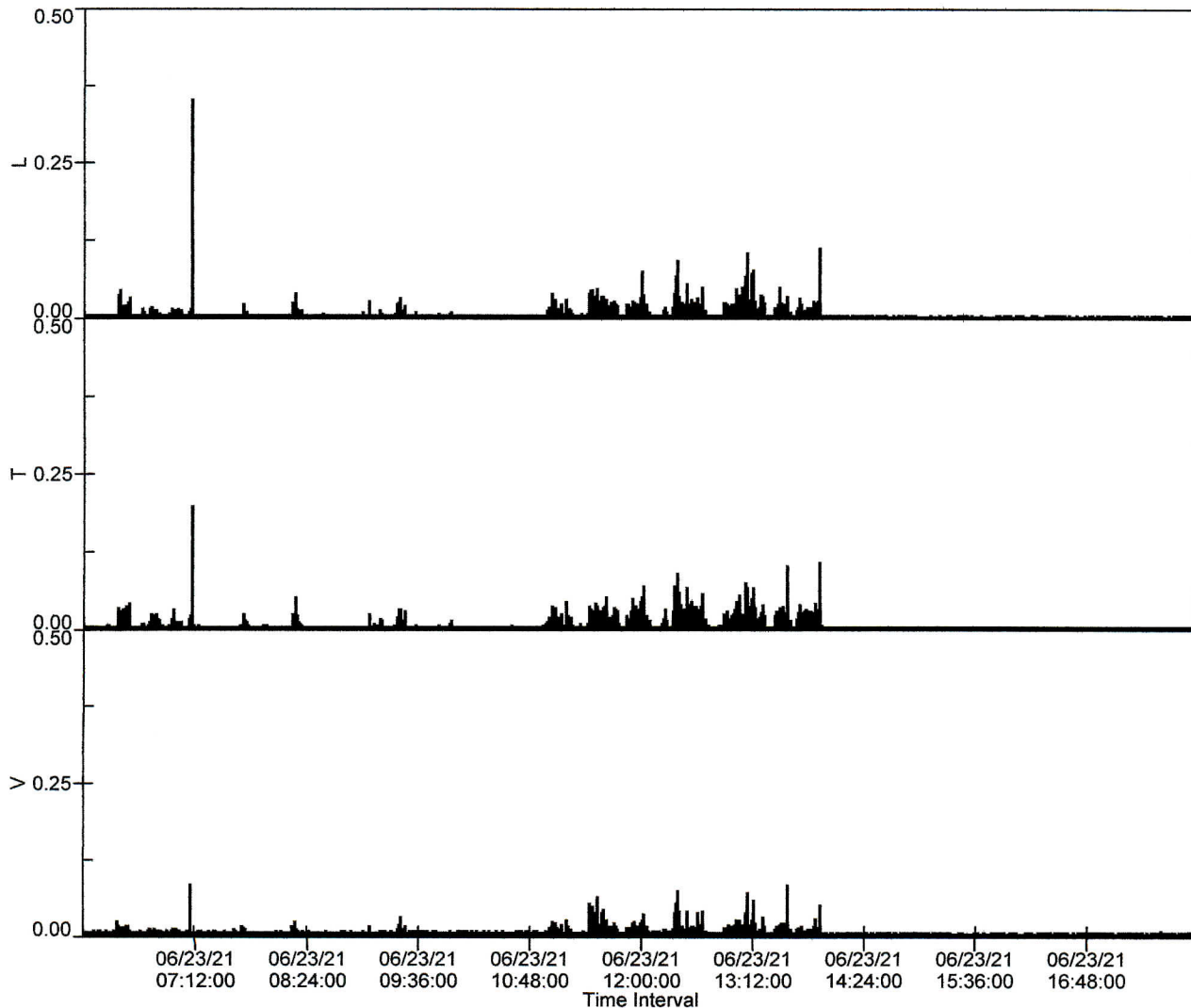
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 137

Record Max PPV: 0.353 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/24/2021 **Time:** 06:01:00
Event: 138
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.073	0.055	0.048
FREQ (Hz)	18.5	20.8	20.8
Peak Air Pressure:	79 db		

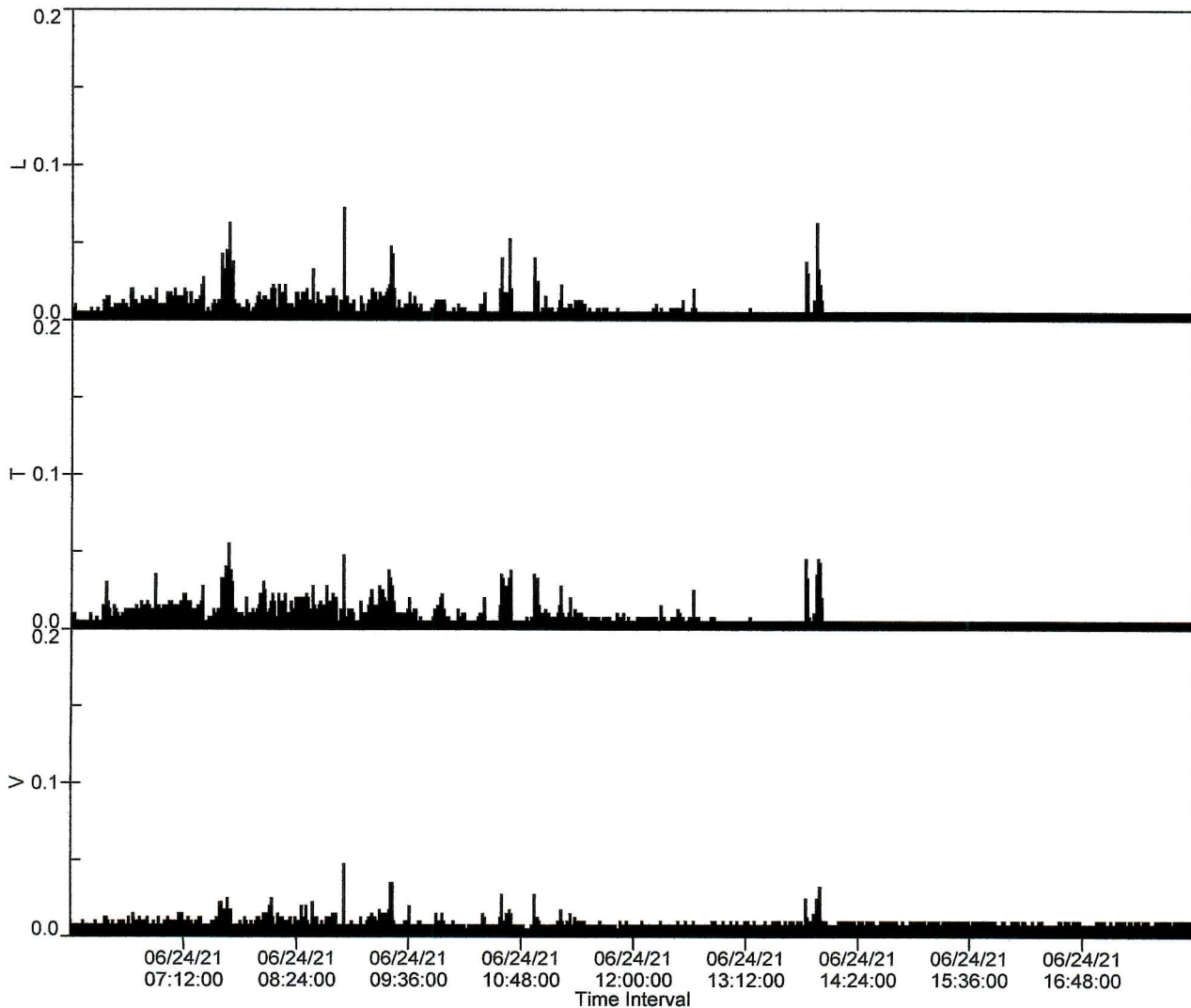
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 138

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



SN: 3734 v3.22
Date: 06/25/2021 **Time:** 06:01:00
Event: 139
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.083	0.128	0.125
FREQ (Hz)	31.3	38.5	35.7
Peak Air Pressure:	79 db		

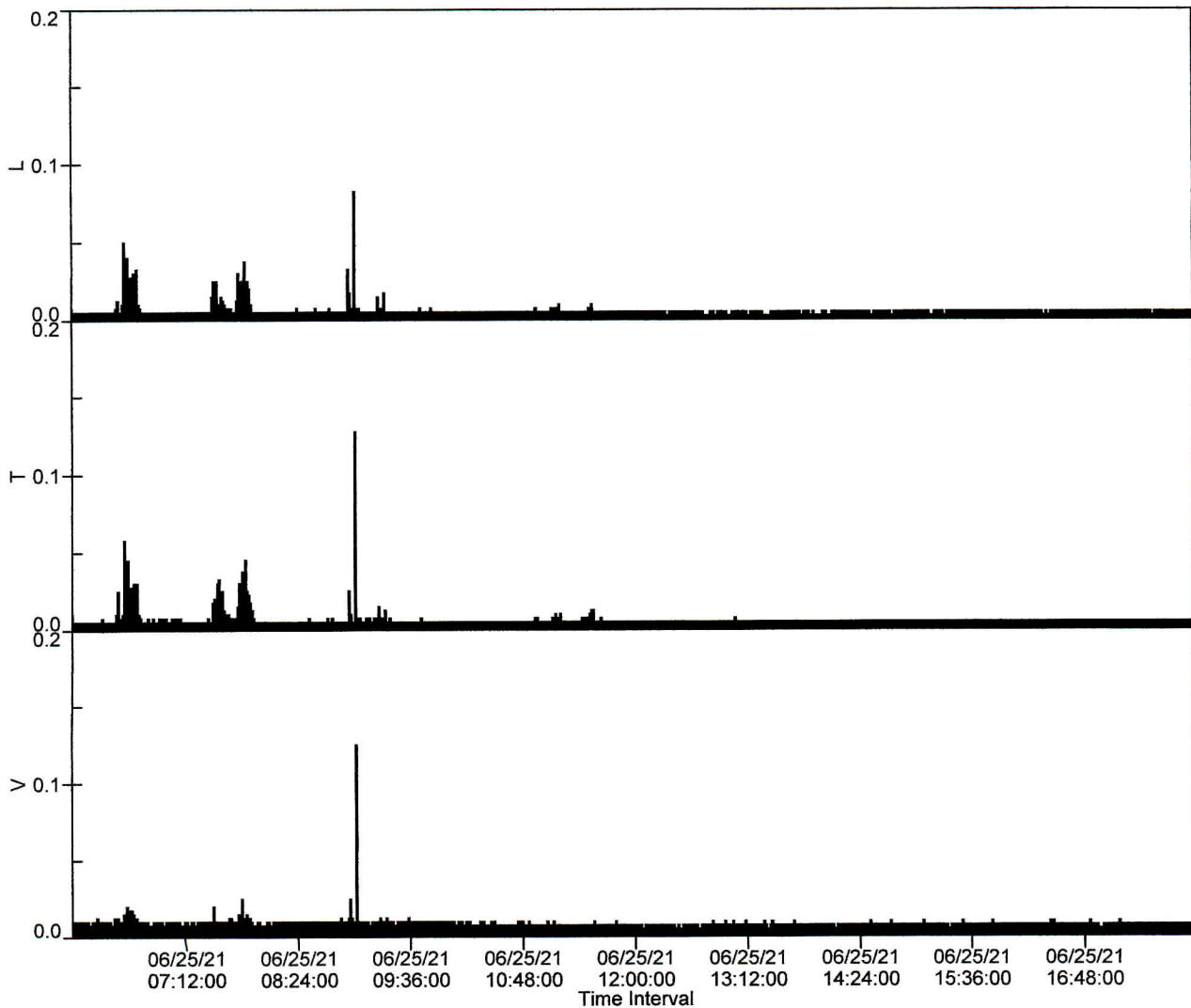
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 139

Record Max PPV: 0.128 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/26/2021 **Time:** 06:01:00
Event: 140
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.008	0.013	0.013
FREQ (Hz)	.3	100.0	55.6
Peak Air Pressure:	79 db		

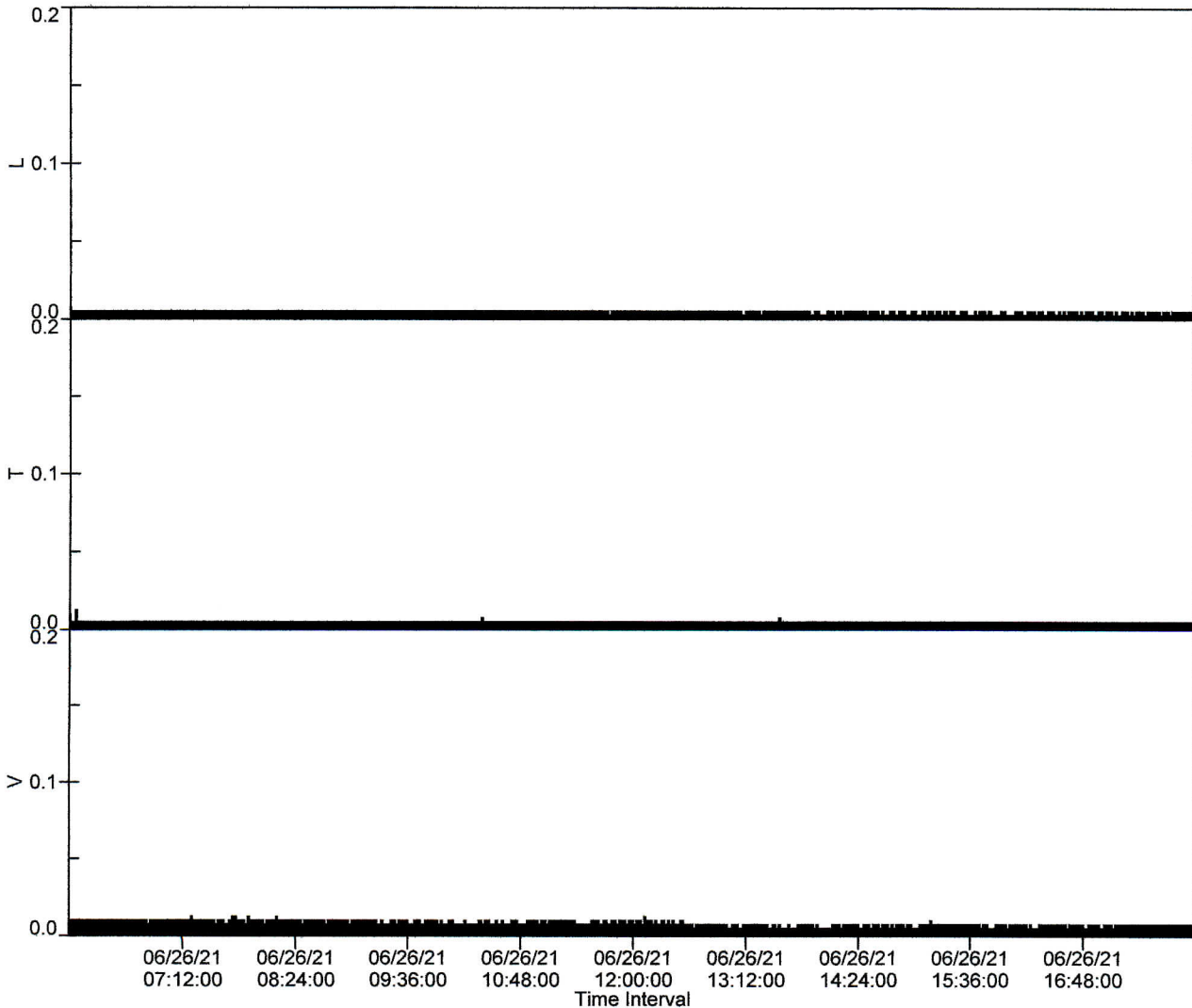
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 140

Record Max PPV: 0.013 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/27/2021 **Time:** 06:01:00
Event: 141
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.008	0.010	0.010
FREQ (Hz)	.3	5.6	55.6
Peak Air Pressure:	79 db		

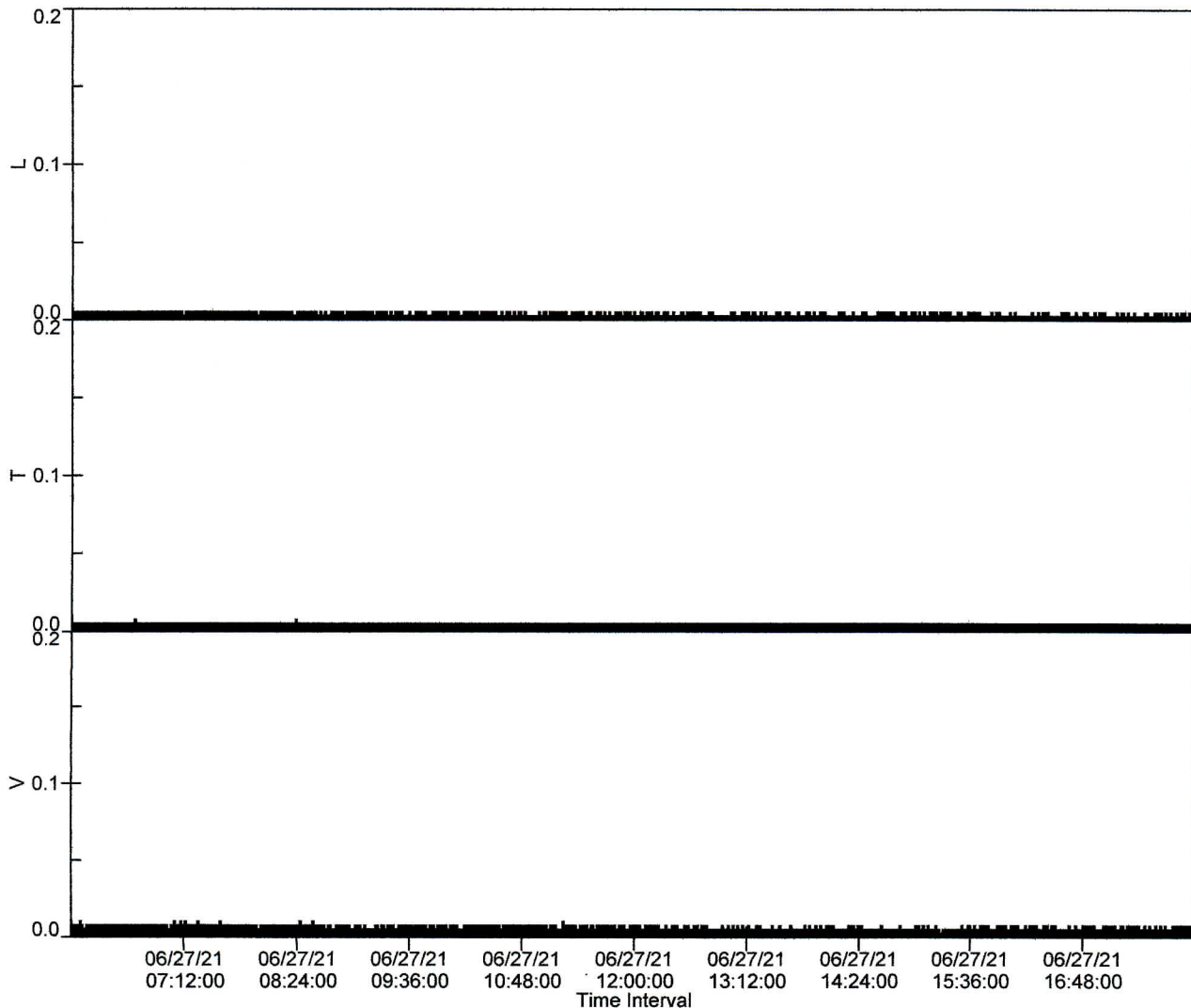
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 141

Record Max PPV: 0.010 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/28/2021 **Time:** 06:01:00
Event: 142
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.305	0.245	0.170
FREQ (Hz)	25.0	25.0	27.8
Peak Air Pressure: 79 db			

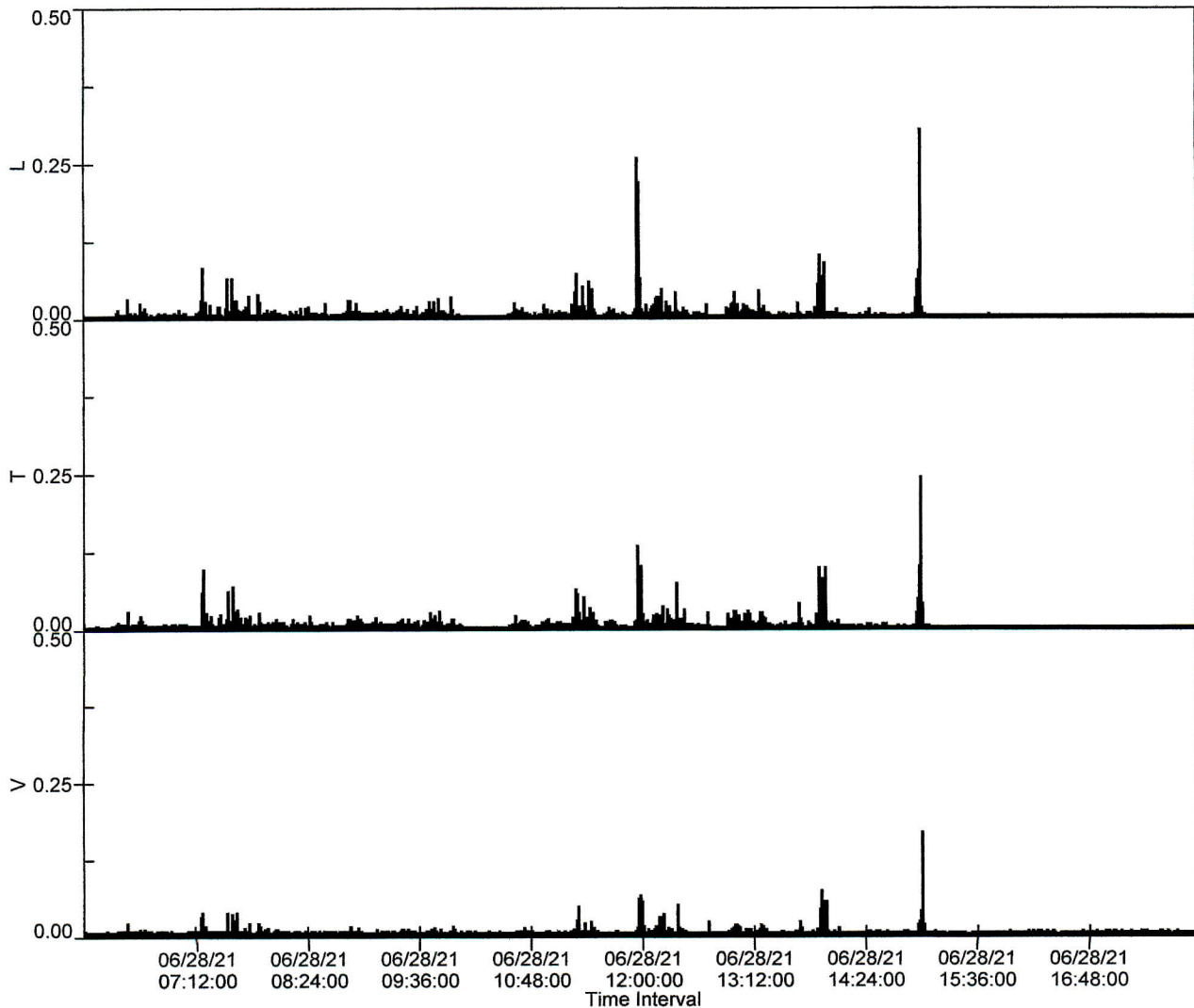
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 142

Record Max PPV: 0.305 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/29/2021 **Time:** 06:01:00
Event: 143
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.088	0.080	0.080
FREQ (Hz)	45.5	45.5	50.0
Peak Air Pressure:	79 db		

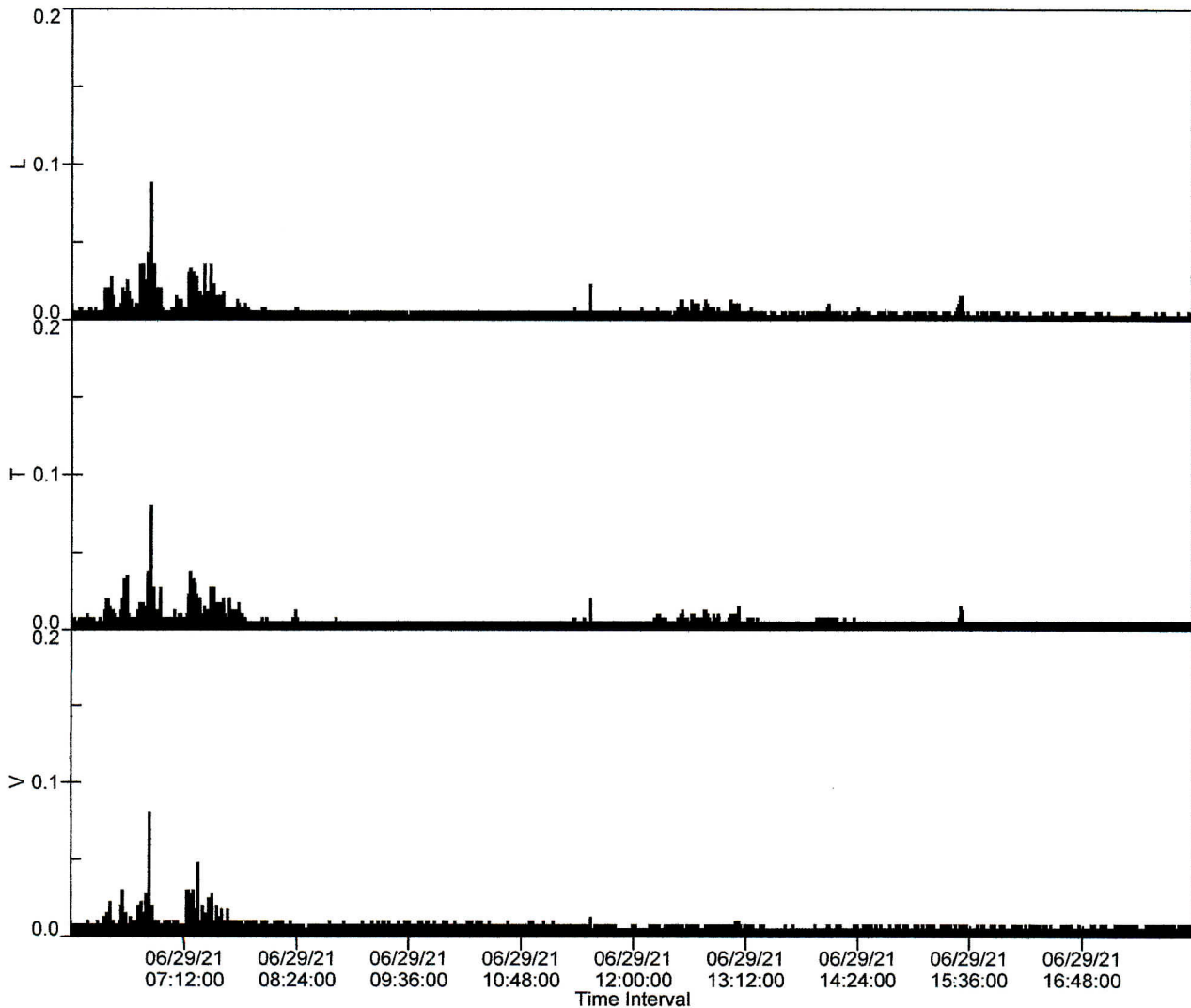
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 143

Record Max PPV: 0.088 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 06/30/2021 **Time:** 06:01:00
Event: 144
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.050	0.035	0.028
FREQ (Hz)	26.3	71.4	41.7
Peak Air Pressure:	79 db		

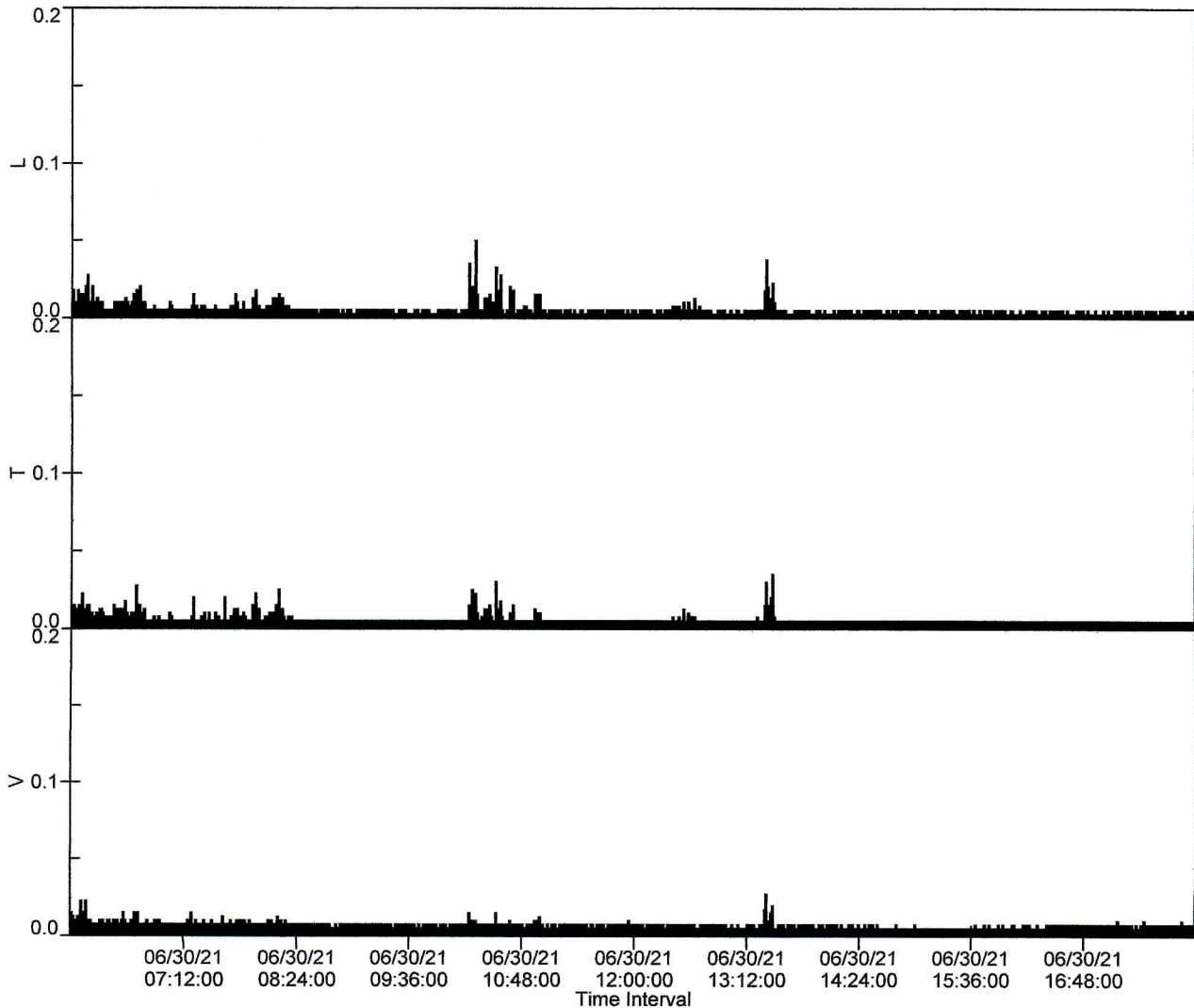
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 144

Record Max PPV: 0.050 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 07/01/2021 **Time:** 06:01:00
Event: 145
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.018	0.010
FREQ (Hz)	33.3	27.8	.3
Peak Air Pressure:	79 db		

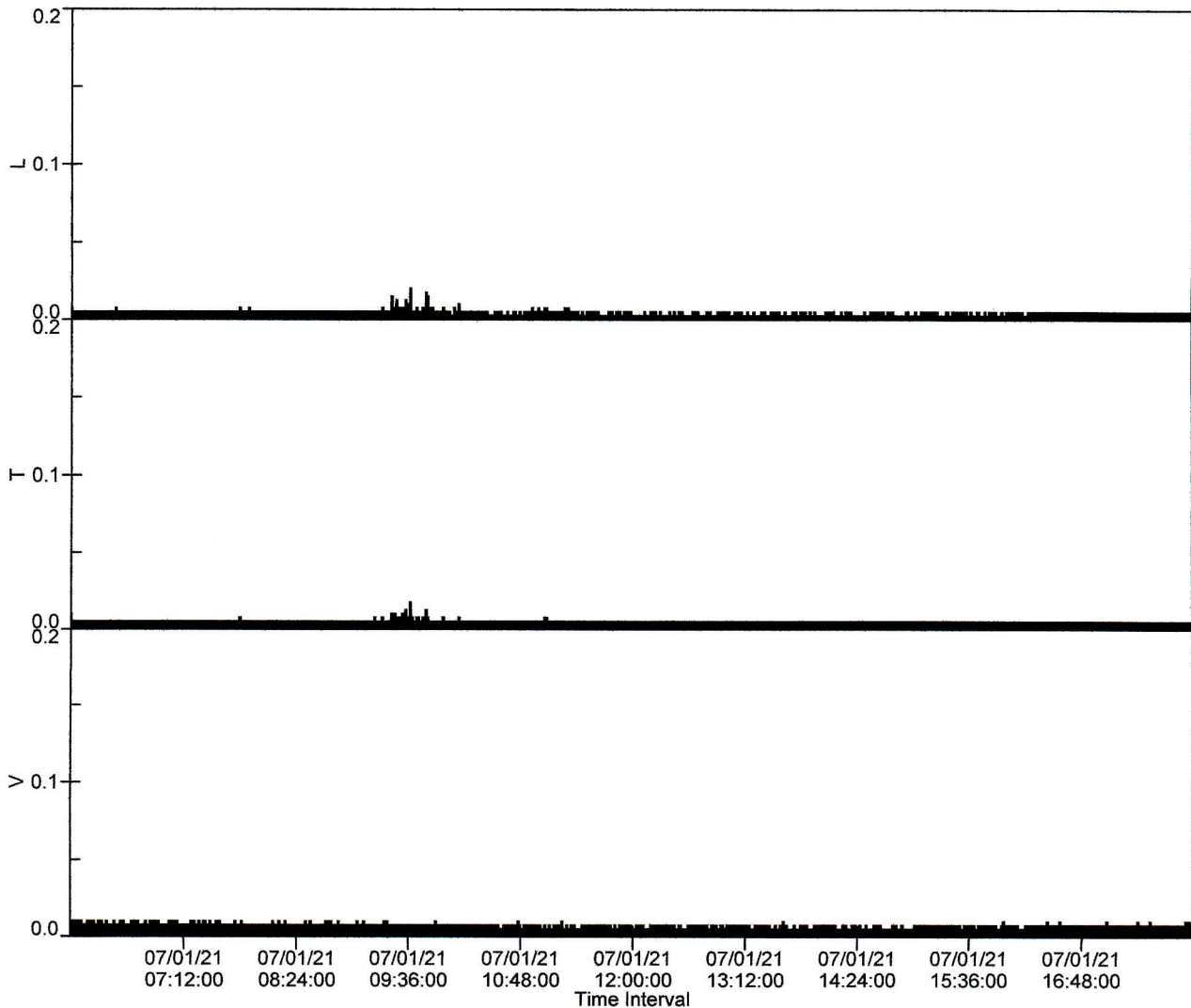
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 145

Record Max PPV: 0.020 in/s Record Max DB: 79 db



SN: 3734 v3.22
Date: 07/02/2021 **Time:** 06:01:00
Event: 146
Client: V3 COMPANIES
Operation: CONSTRUCTION
Location: HIBBARD PARK
Distance: 15.
Operator: CTI INC
Comment: 3000 HILL STREET

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.203	0.123	0.088
FREQ (Hz)	22.7	29.4	31.3
Peak Air Pressure:	79 db		

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

Additional Info:

Shaketable Calibrated: 10/14/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 146

Record Max PPV: 0.203 in/s Record Max DB: 79 db

