

504-514 SOUTH BOULEVARD PROJECT
EVANSTON, IL

**VIBRATION
MONITORING
REPORT-13**

Mr. Antwan Ahmed
Leopardo Companies
210 N. Carpenter Street, Suite 300
Chicago, Illinois 60607

January 12, 2026

Cti



4262 Old Grand Ave
Suite 102
Gurnee, IL 60031

January 12, 2026

Mr. Antwan Ahmed
Leopardo Companies
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

RE: **Report 13:** - *Ground Vibration Monitoring of Construction Activities for the 504-514 S. Boulevard Project located in Evanston, Illinois.*

Mr. Ahmed,

Construction Testing and Instrumentation, Inc. (CTI) have prepared this vibration monitoring report, to evaluate vibrations during construction activities. This report summarizes the results of ground vibration monitoring of three seismographs. All units are located at the adjacent residential properties to the project site (see attached location diagram). This summary report covers the monitoring period from **January 5, 2026, through January 11, 2026.**

The site is equipped with two Omnidot Swarm V2.2cw seismographs and one Geosonic 3000LC. All devices are capable of recording peak particle velocity (PPV) and frequency (in Hertz), allowing for comprehensive vibration monitoring and analysis. The maximum allowable peak particle velocity is 0.5 inches per second (IPS), which is based upon the criteria established by the U.S Bureau of Mines (USBM) and a typical construction threshold. The seismographs are set to trigger whenever vibration levels exceed 0.003 in/s lowest (PPV) and continuously monitor vibrations during all construction activities.

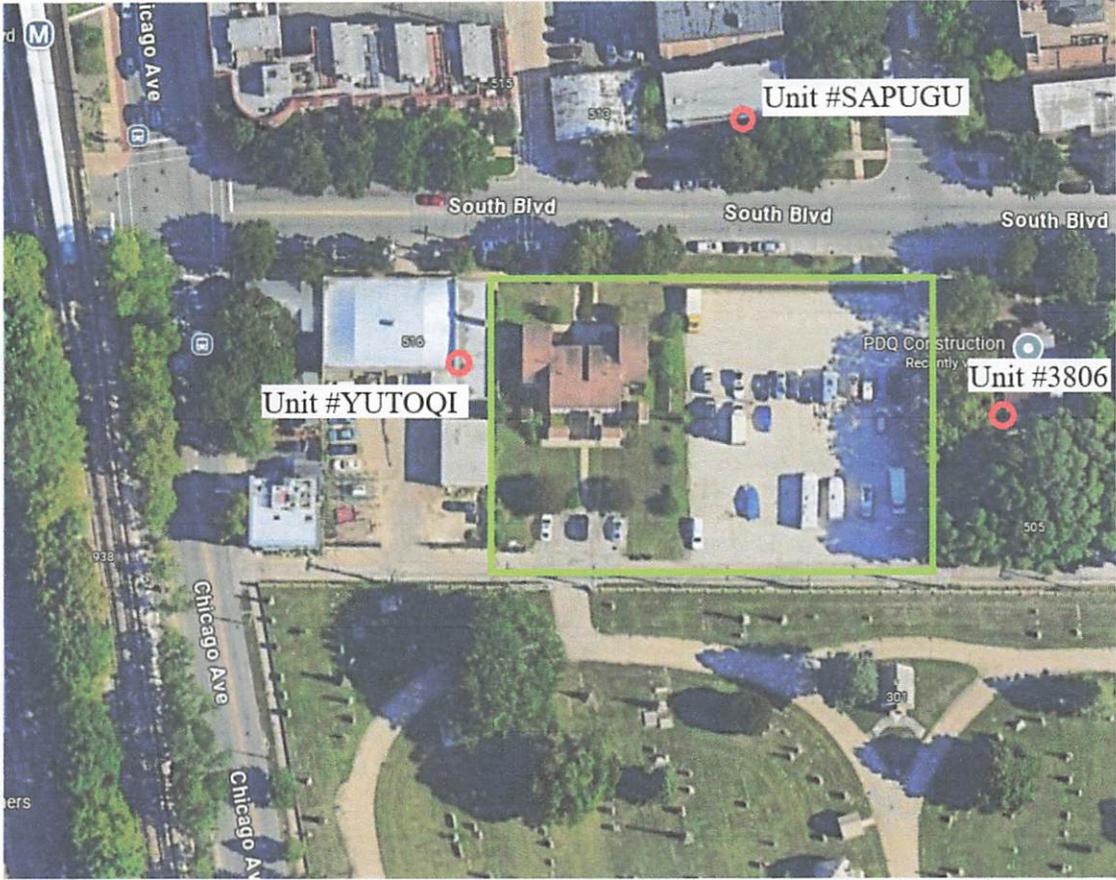
All vibration recordings during this report period were below the 0.5-inch per second threshold limit. The maximum PPV and averages for the monitoring period are below.

January 5, 2026	Location #1 – 516 South Blvd	Unit #YUTOQI	0.046 (in/sec)
January 6, 2026	Location #2 – 507 South Blvd	Unit #SAPUGU	0.014 (in/sec)
January 6, 2026	Location #3 – 424 South Blvd	Unit #3806	0.080 (in/sec)

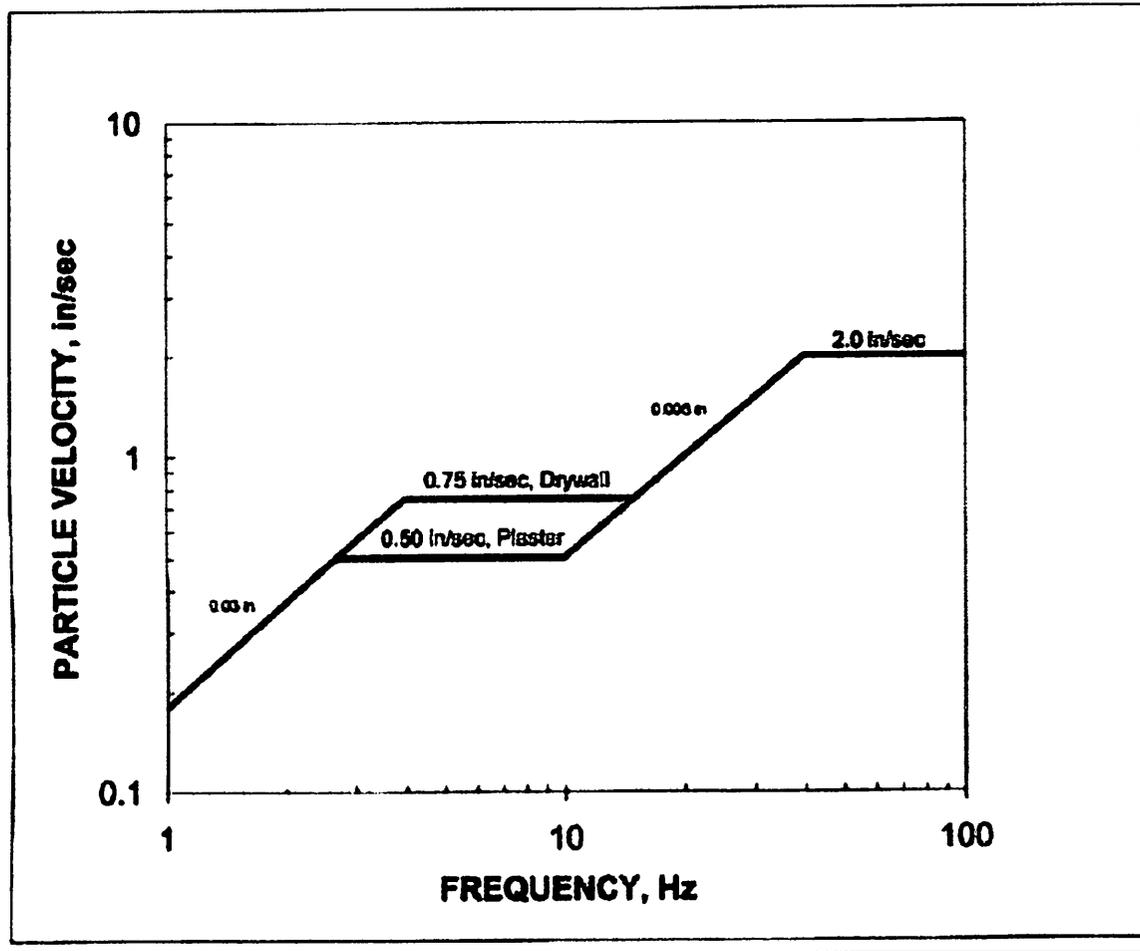
If you have any questions regarding this report, please contact this office at (847) 244-5108.

Sincerely,
Construction Testing & Instrumentation, Inc.

Daniel J. McCarthy
Senior Instrumentation Specialist



○ Seismograph Location



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.¹ Based on the results of an extensive experimental study, the authors recommended acceptable vibration levels for residential structures at which there is a sufficiently lower 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.² 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.

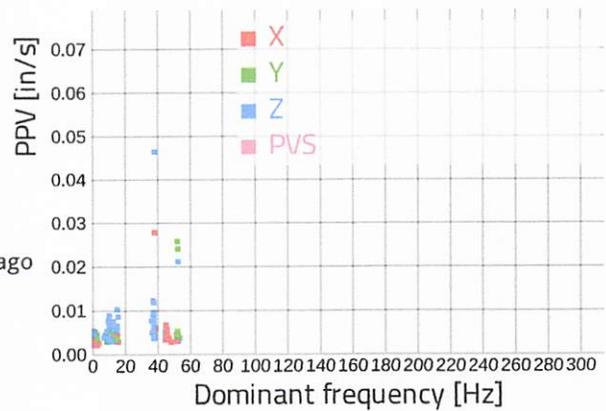
¹ Siskind, D. E., Stagg, M. S., Kopp, J. W., and Dowding, C. H. (1980). "Structure Response and Damage Produced by Ground Vibration from Surface Blasting," *Report of Investigations 8507*, U.S. Bureau of Mines. ² Rosenthal, M. F. and Morlock, G. L. (1987). *Blasting Guidance Manual*, U.S. Department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

Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



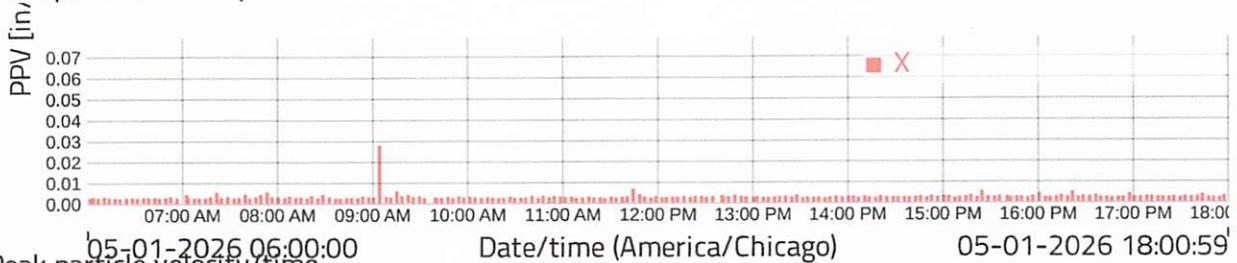
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 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

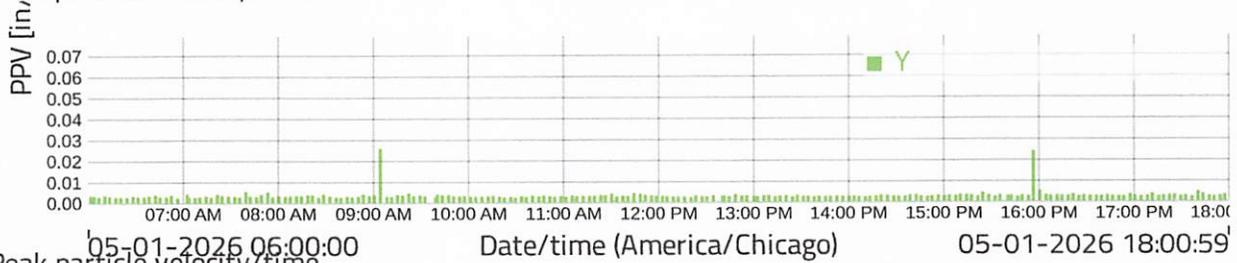


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 5, 2026 09:04:41	x	0.028	38.5
Jan. 5, 2026 09:04:41	y	0.026	52.5
Jan. 5, 2026 09:04:41	z	0.046	38.5

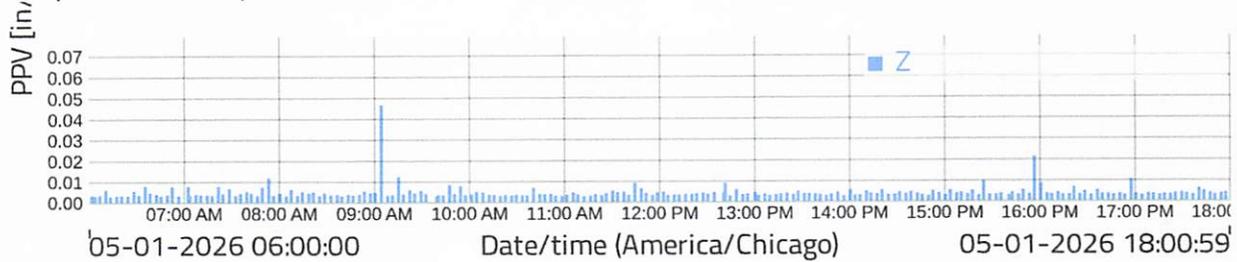
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

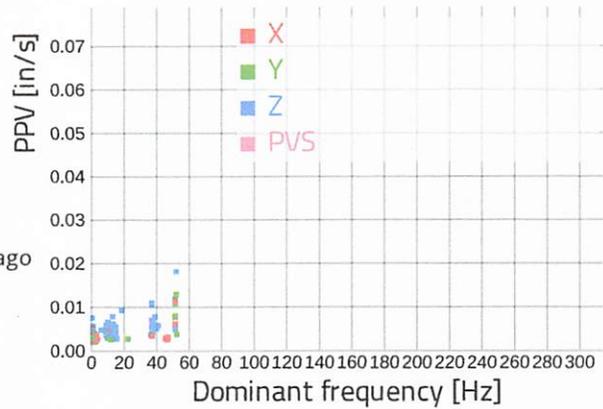


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



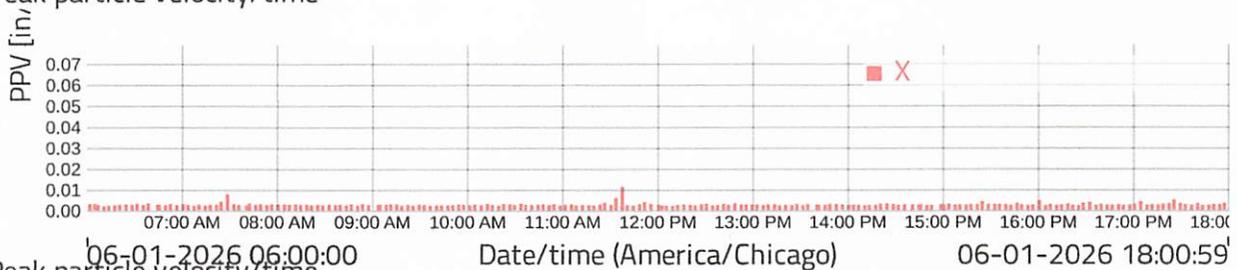
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 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

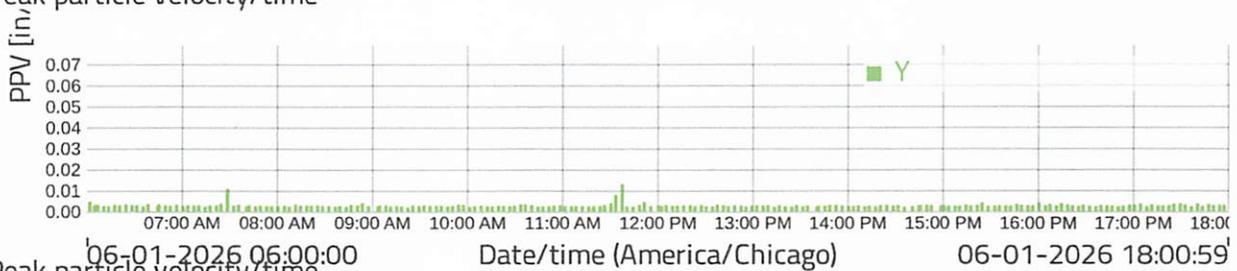


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 6, 2026 11:37:59	x	0.011	52.0
Jan. 6, 2026 11:37:59	y	0.013	52.5
Jan. 6, 2026 11:37:59	z	0.018	52.5

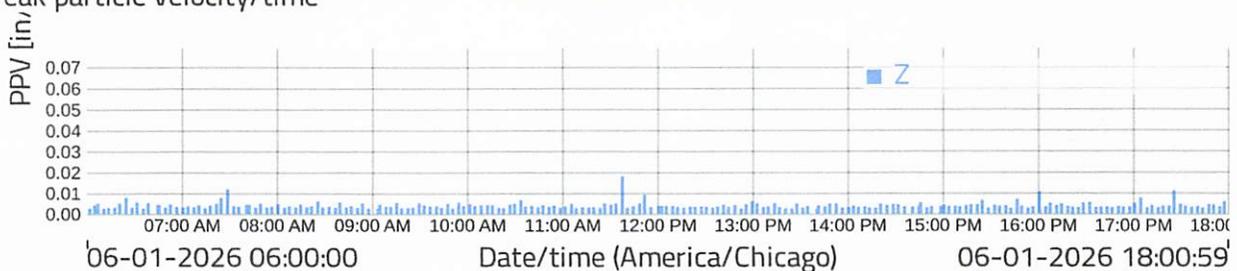
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

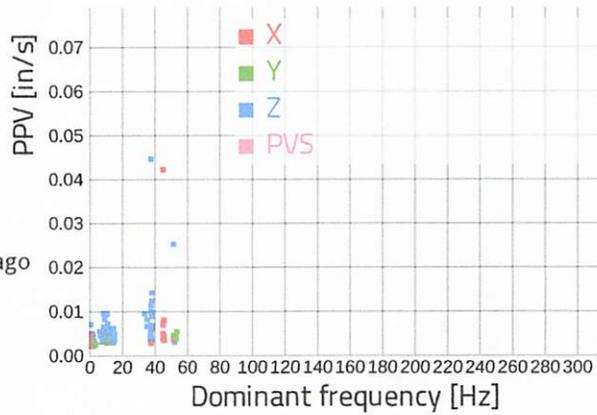


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



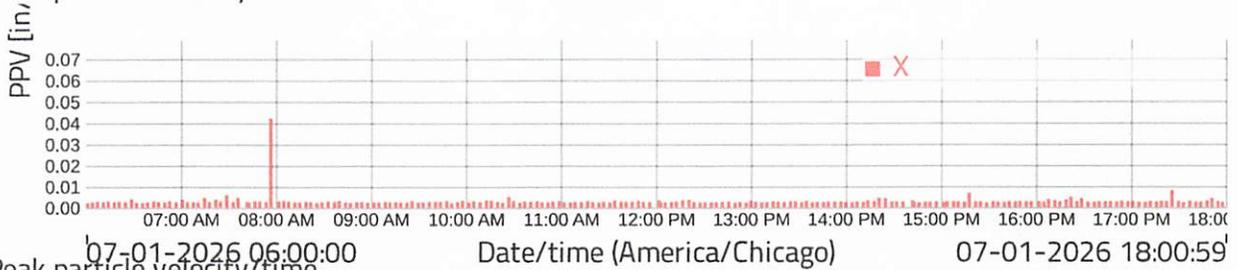
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 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

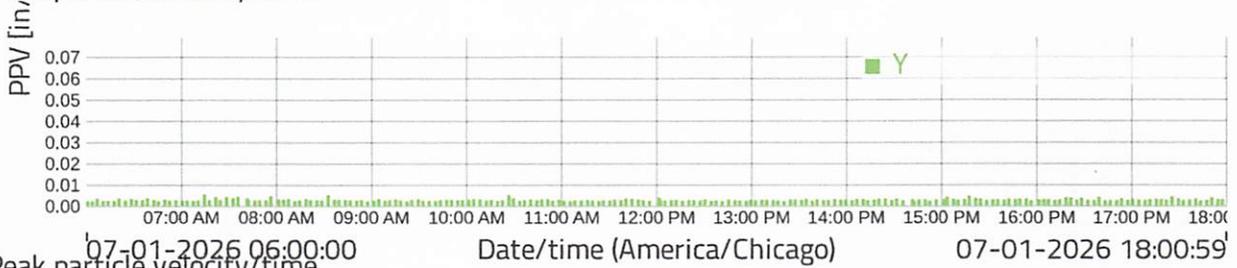


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 7, 2026 07:59:17	x	0.042	45.5
Jan. 7, 2026 07:15:59	y	0.005	54.0
Jan. 7, 2026 07:59:17	z	0.045	38.0

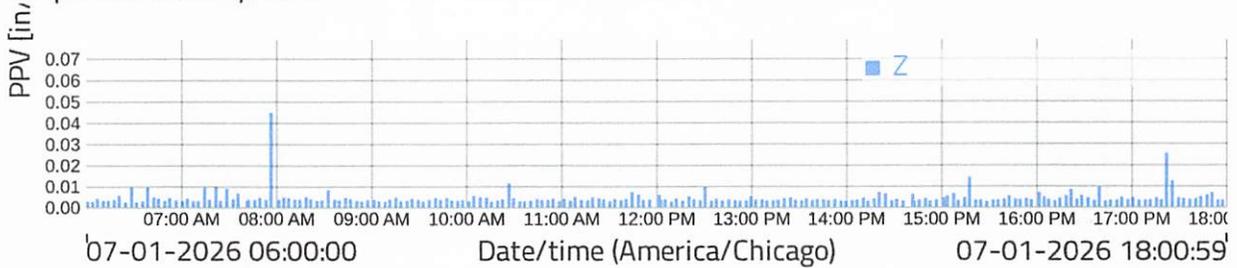
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

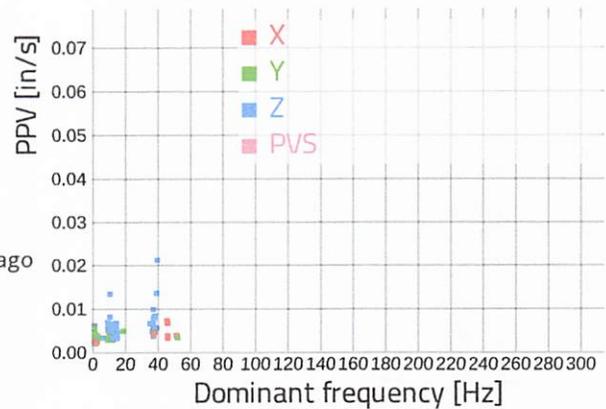


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



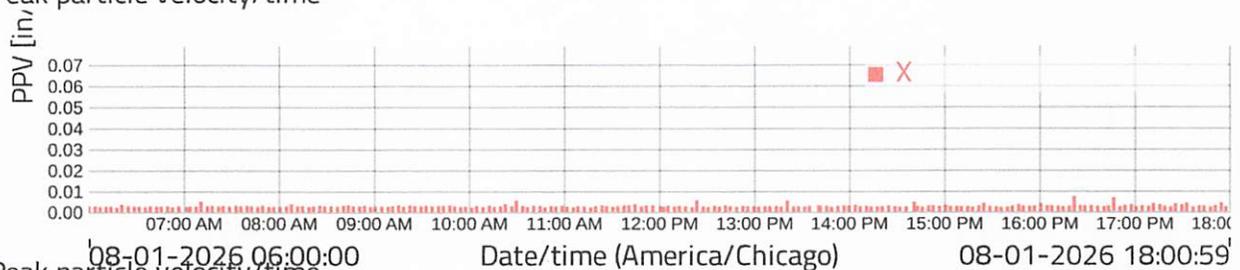
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PPV flat line threshold	0.5 in/s
Guideline	ISEE 250Hz
Measuring interval	6 seconds
Storage below threshold interval	60 seconds
Store values below threshold	On
Timezone	America/Chicago
Calculate VDV (Vibration Dose Value)	Off
Calculate PVS (Peak Vector Sum)	Off
Calculate PPV (Peak particle velocity)	On

Peak particle velocity/frequency

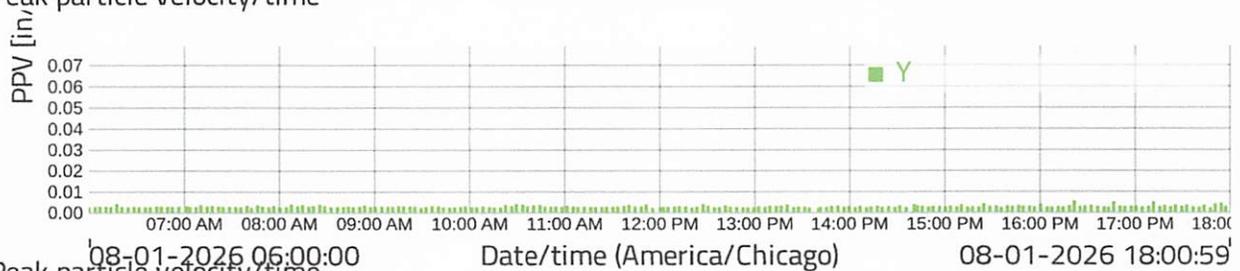


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 8, 2026 16:23:59	x	0.007	46.0
Jan. 8, 2026 16:23:59	y	0.005	1.0
Jan. 8, 2026 08:18:11	z	0.021	40.0

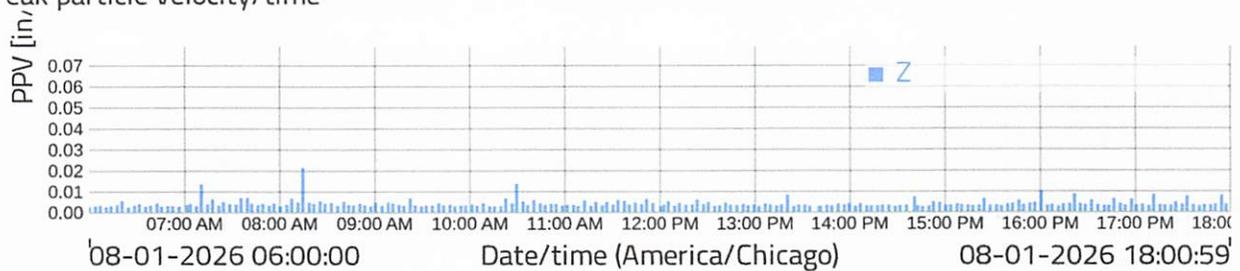
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

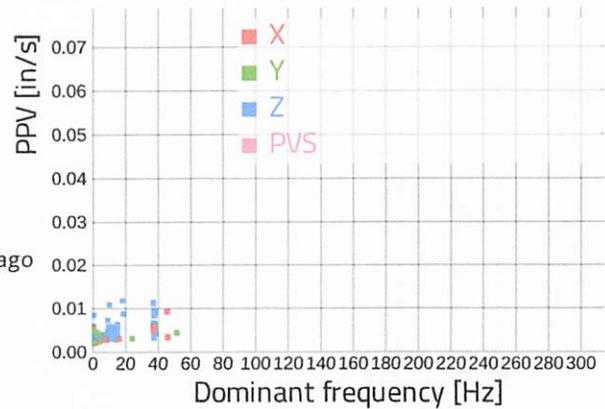


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



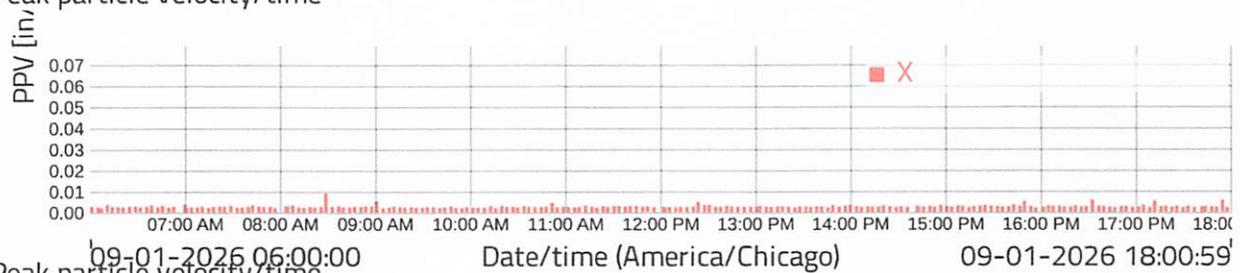
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 Storage below threshold interval 60 seconds
 Store values below threshold On
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 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

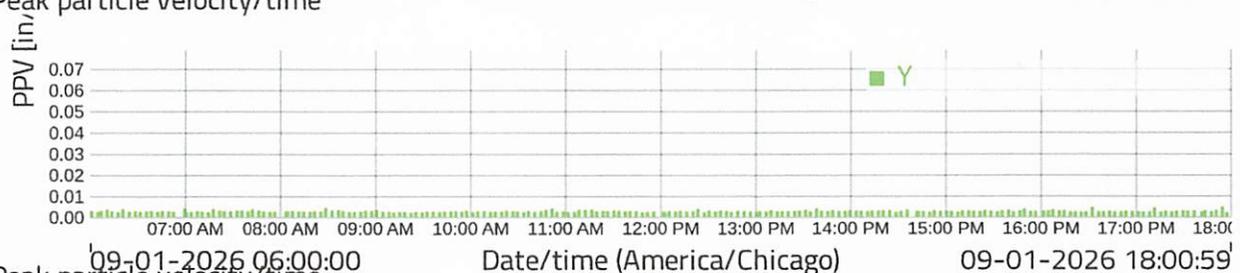


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 9, 2026 08:29:59	x	0.009	46.0
Jan. 9, 2026 17:54:59	y	0.005	1.0
Jan. 9, 2026 17:54:59	z	0.012	18.5

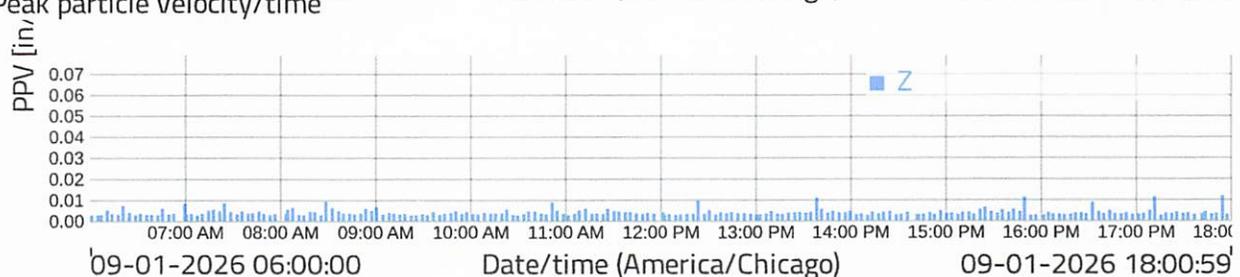
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

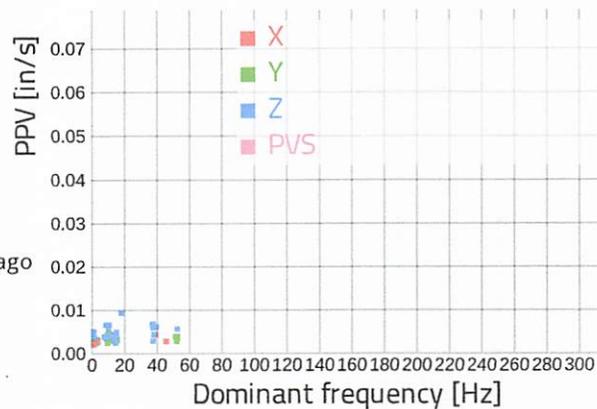


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



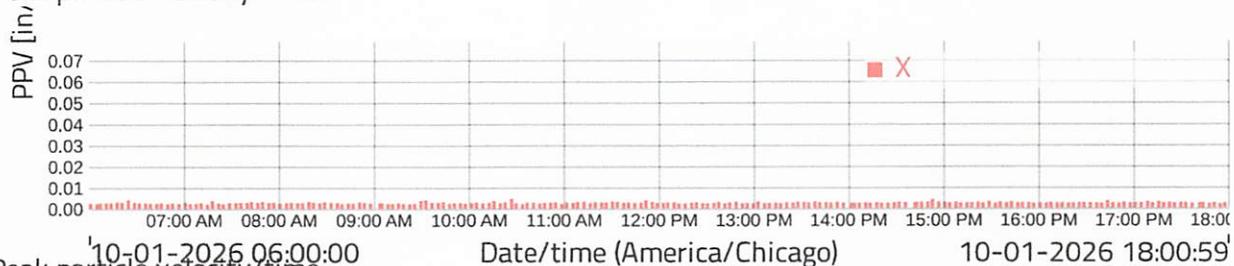
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 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

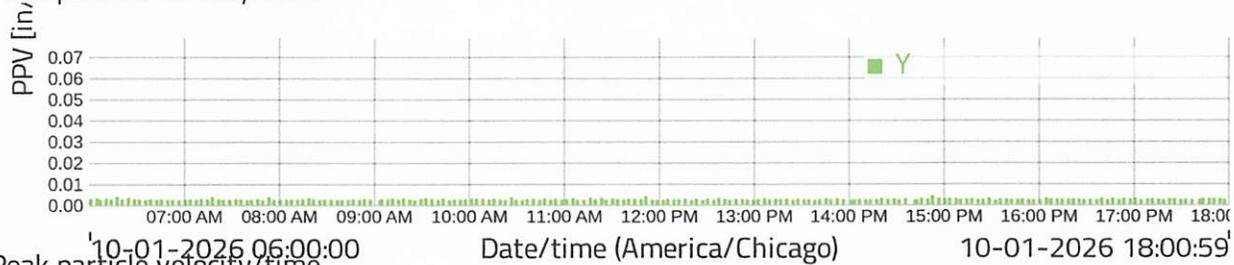


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 10, 2026 10:28:59	x	0.005	1.5
Jan. 10, 2026 14:53:59	y	0.004	10.5
Jan. 10, 2026 14:53:59	z	0.009	18.5

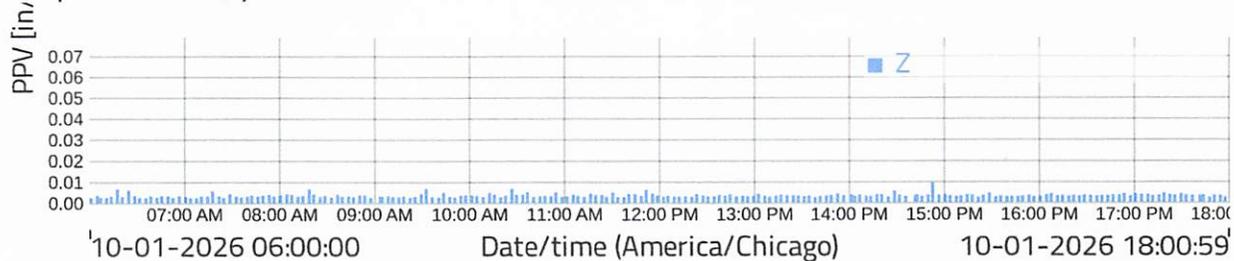
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

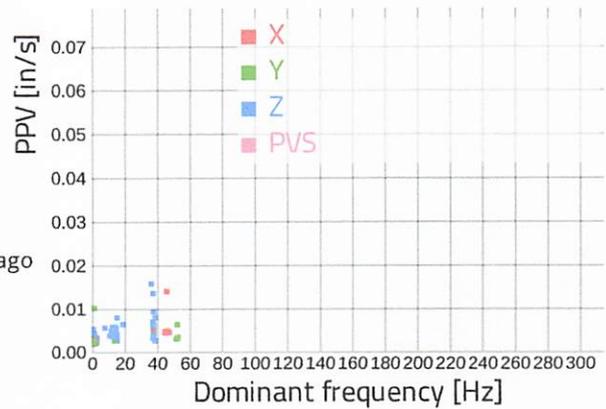


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



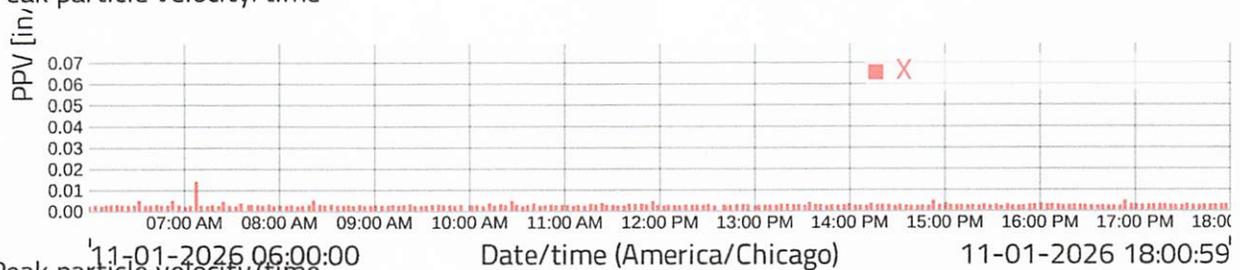
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 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

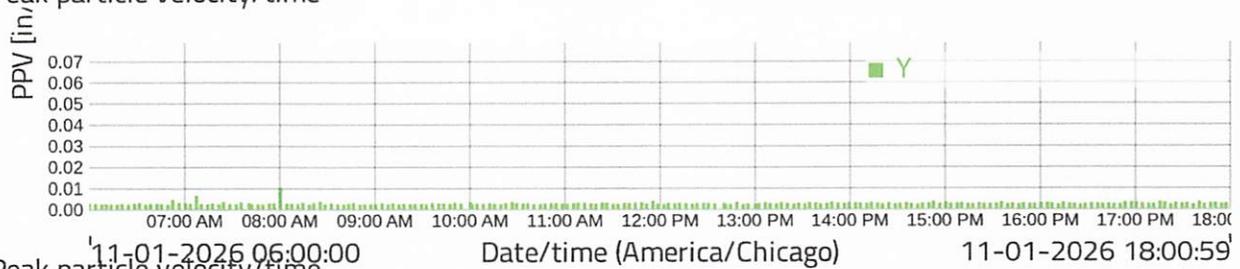


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 11, 2026 07:07:59	x	0.014	46.0
Jan. 11, 2026 08:00:59	y	0.010	1.5
Jan. 11, 2026 07:07:59	z	0.016	36.5

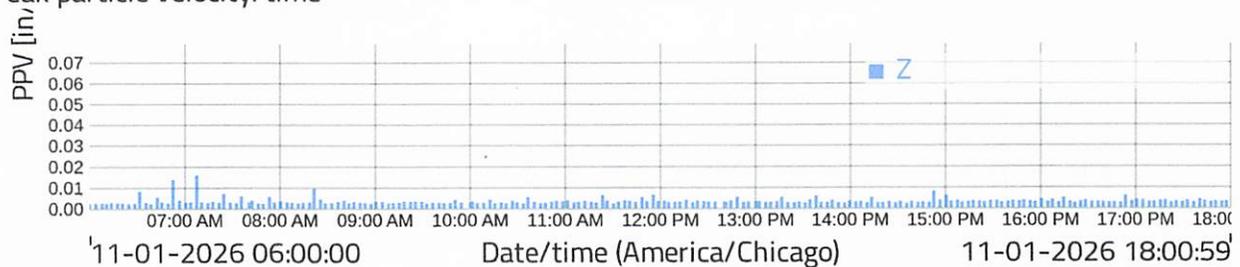
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

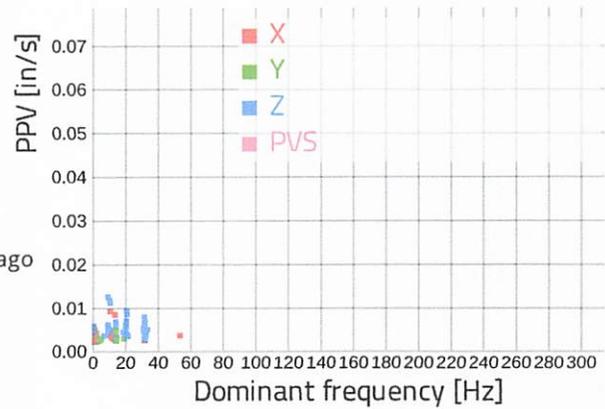


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



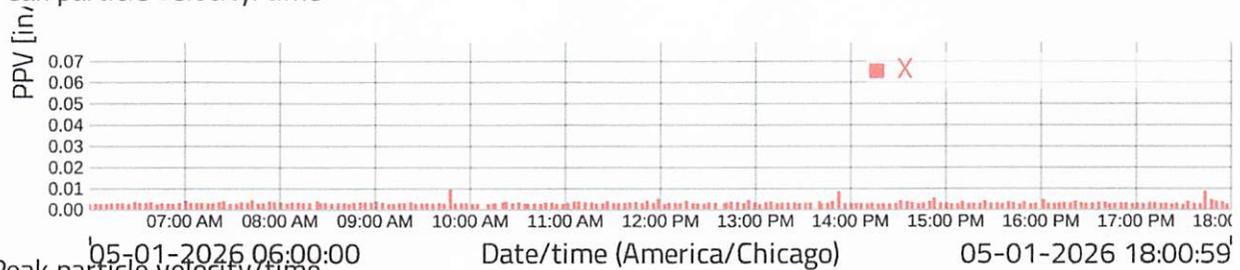
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 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

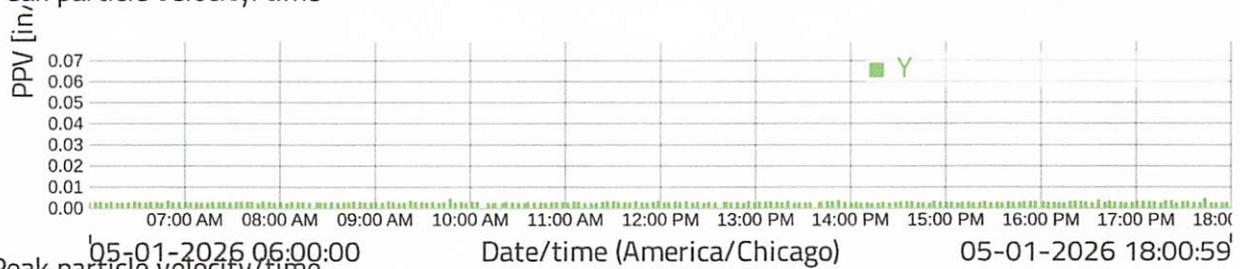


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 5, 2026 09:47:59	x	0.009	11.0
Jan. 5, 2026 17:46:59	y	0.004	14.5
Jan. 5, 2026 17:46:59	z	0.012	9.5

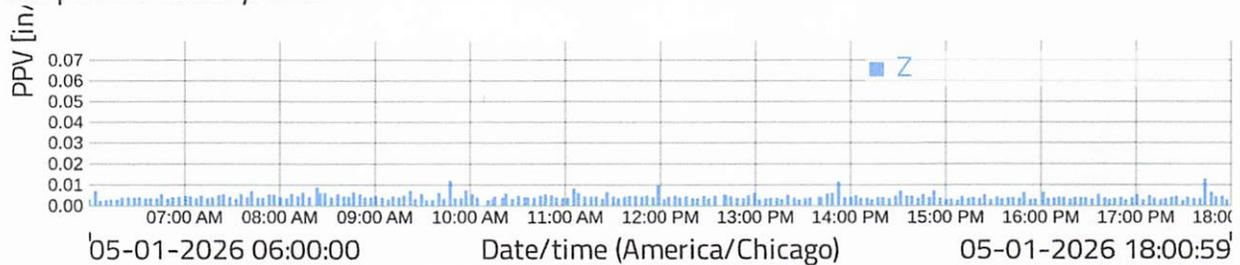
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

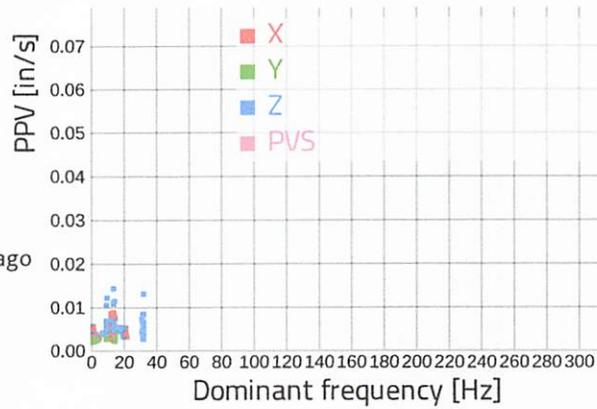


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



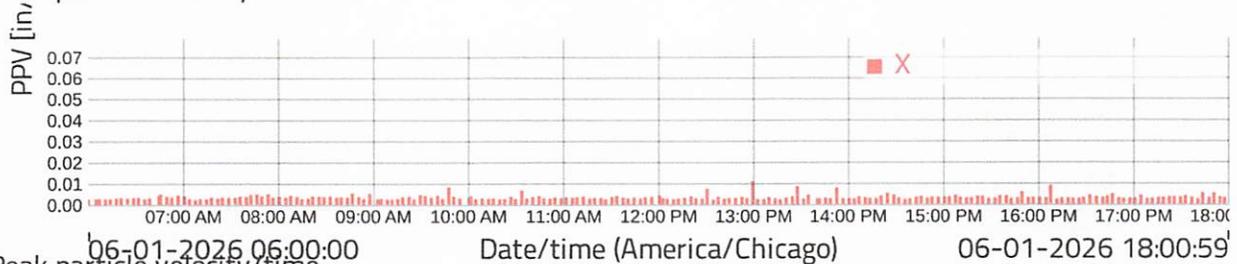
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Peak particle velocity/frequency

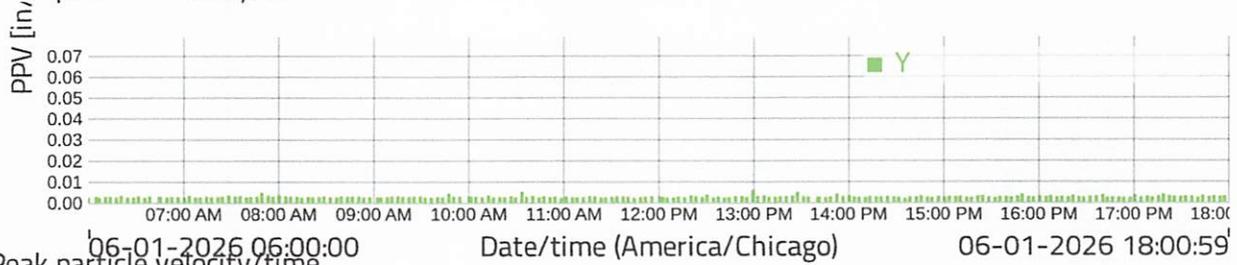


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 6, 2026 12:59:59	x	0.011	14.0
Jan. 6, 2026 12:59:59	y	0.006	14.0
Jan. 6, 2026 12:59:59	z	0.014	14.0

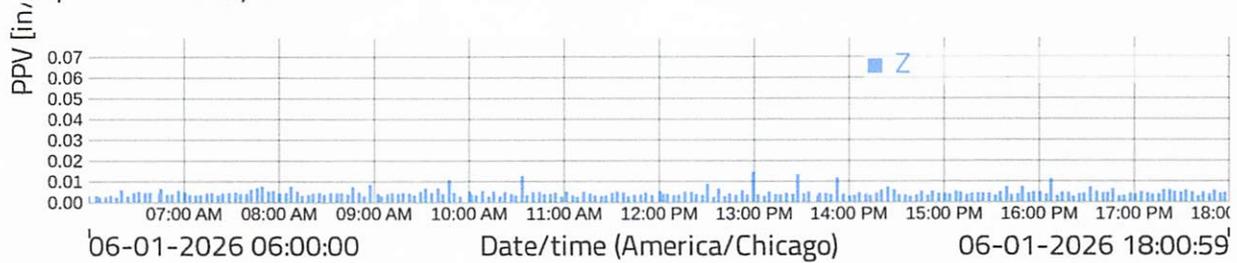
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

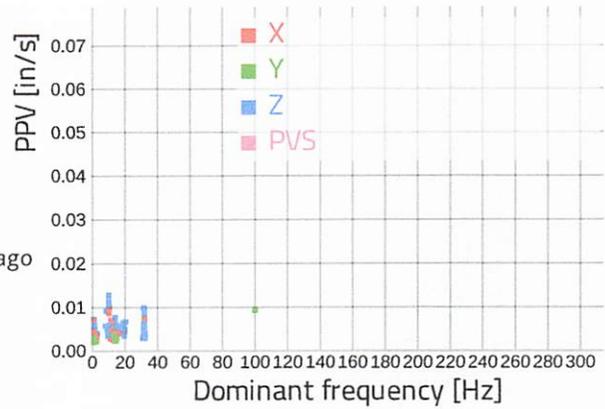


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



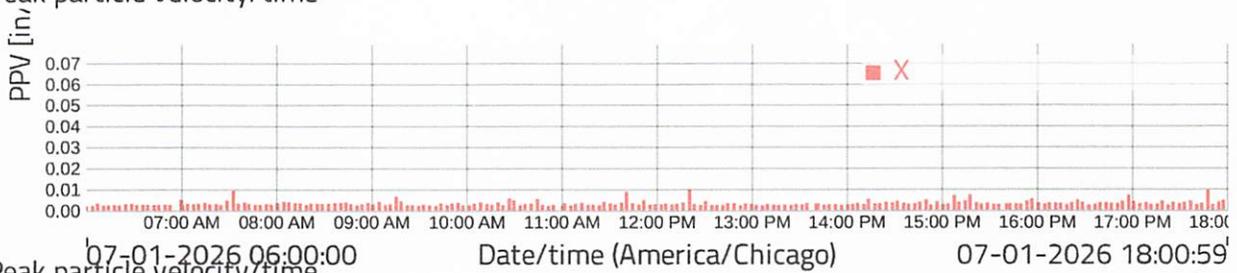
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 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

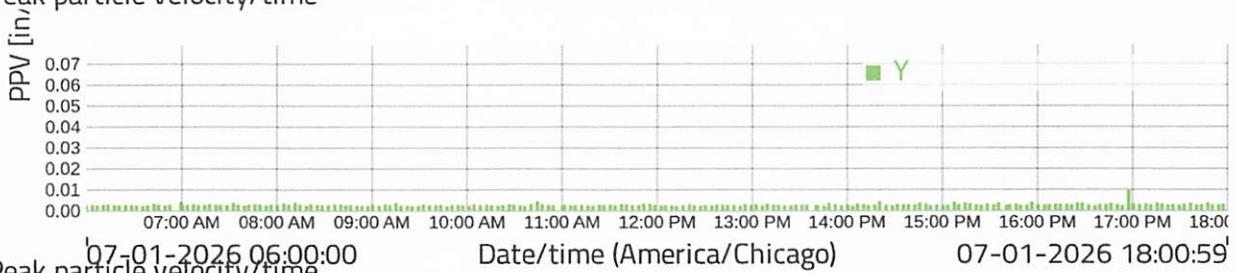


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 7, 2026 12:21:59	x	0.010	11.0
Jan. 7, 2026 16:59:59	y	0.009	100.5
Jan. 7, 2026 12:21:59	z	0.013	10.5

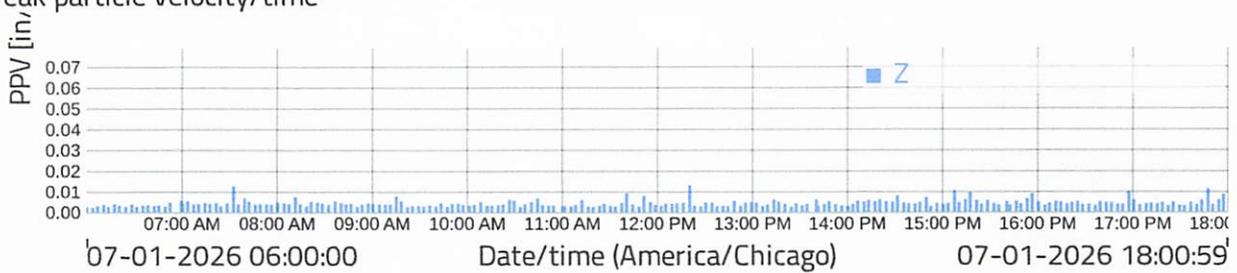
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

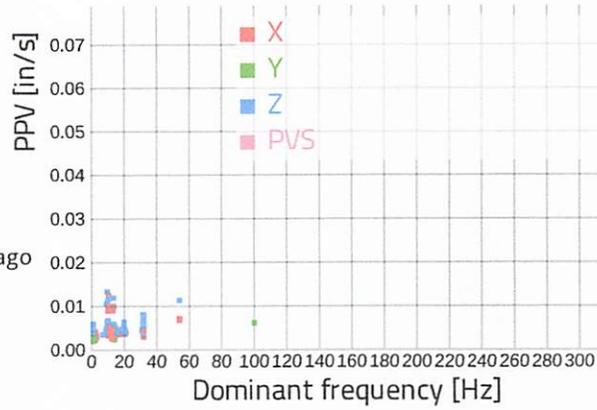


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



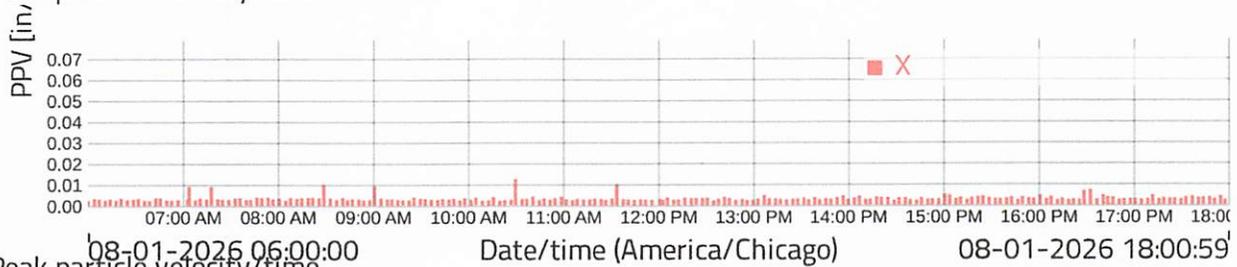
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 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

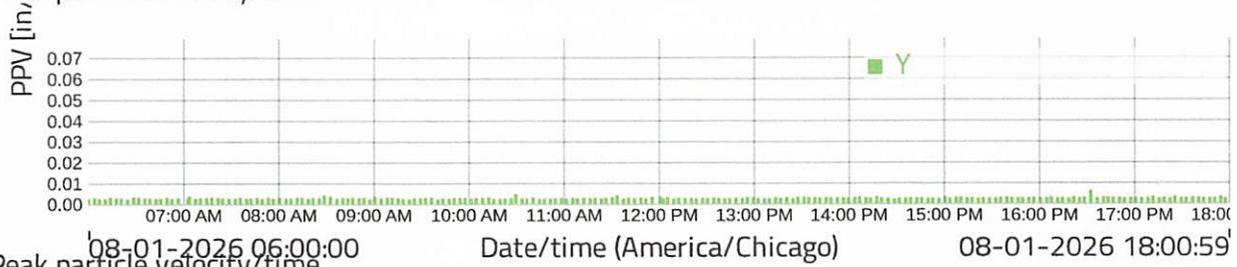


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 8, 2026 10:32:59	x	0.012	11.0
Jan. 8, 2026 16:33:59	y	0.006	100.5
Jan. 8, 2026 07:18:59	z	0.013	10.0

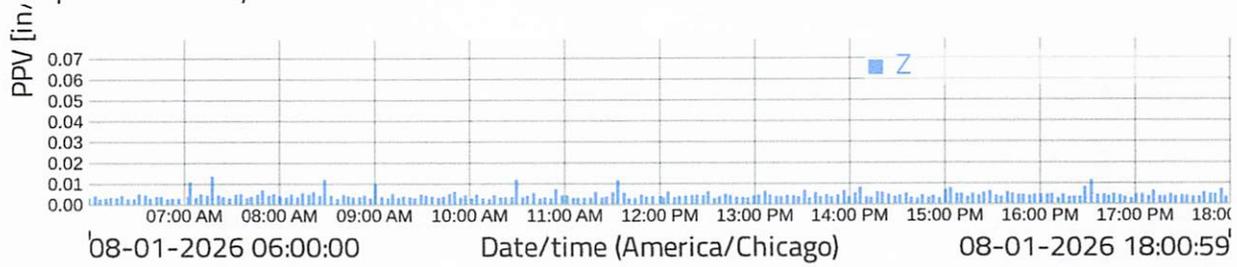
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

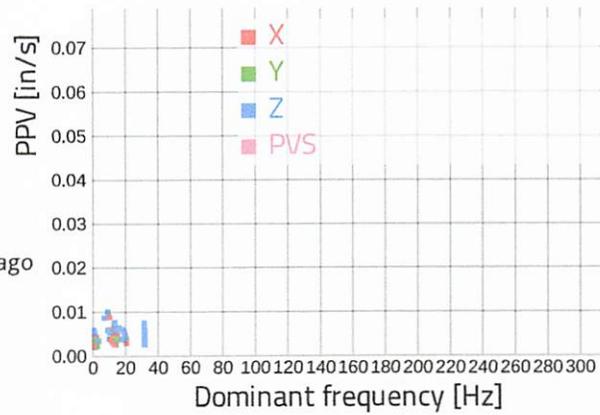


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



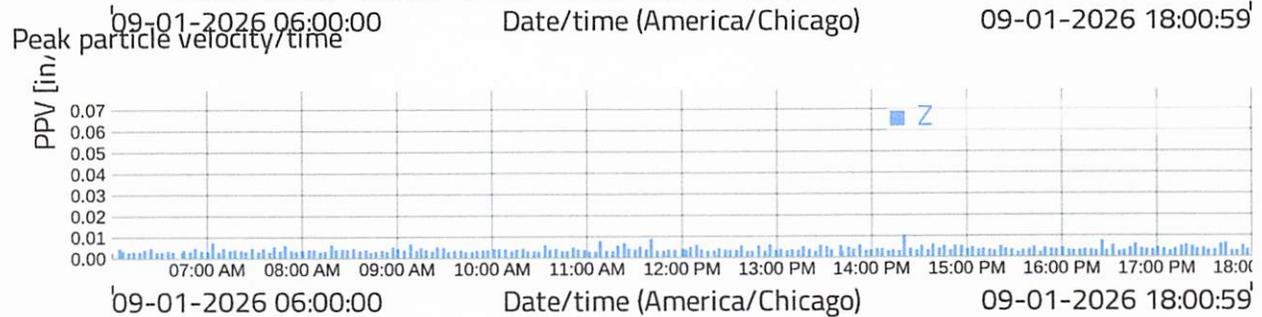
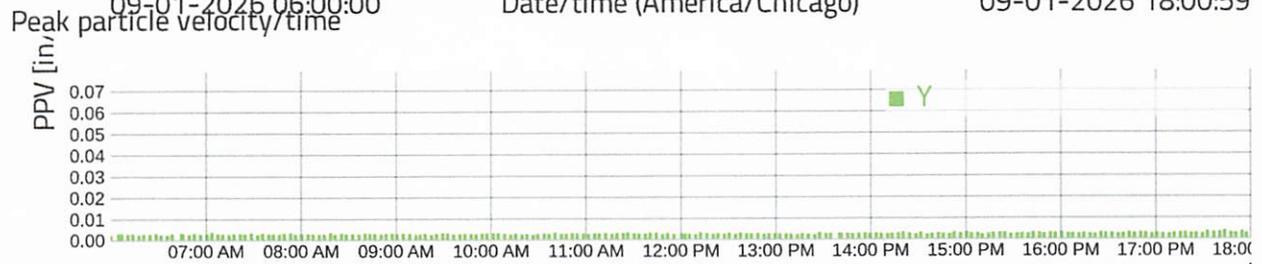
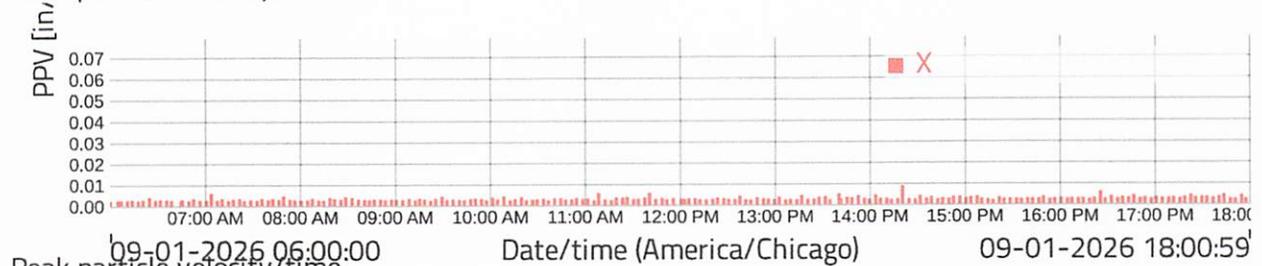
Calculate PPA (Peak particle acceleration) Off
 Evaluation type Unspecified
 Threshold for measurement storage 0.02 in/s
 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency



Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 9, 2026 14:22:59	x	0.009	10.5
Jan. 9, 2026 17:45:59	y	0.004	15.0
Jan. 9, 2026 14:22:59	z	0.010	9.5

Peak particle velocity/time

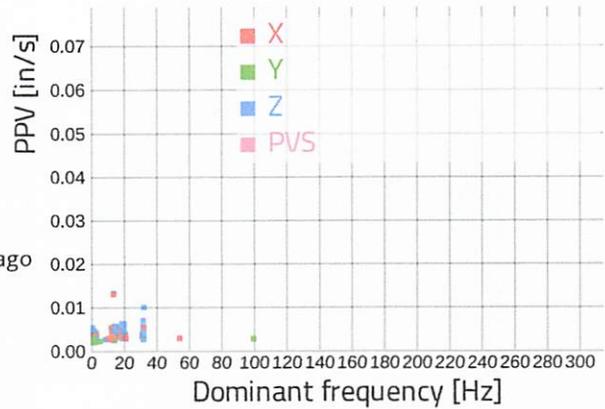


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



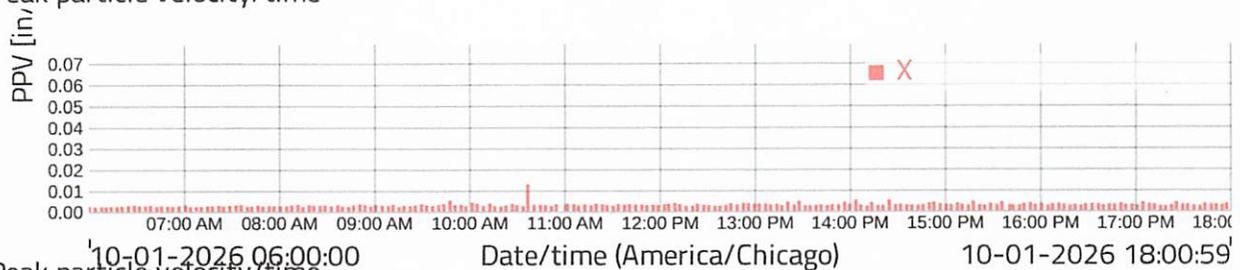
Calculate PPA (Peak particle acceleration) Off
 Evaluation type Unspecified
 Threshold for measurement storage 0.02 in/s
 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

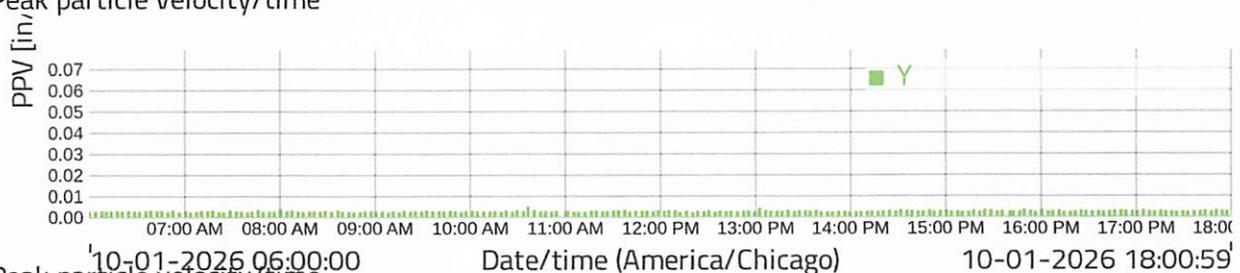


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 10, 2026 10:36:59	x	0.013	14.0
Jan. 10, 2026 10:36:59	y	0.005	14.0
Jan. 10, 2026 10:36:59	z	0.013	14.0

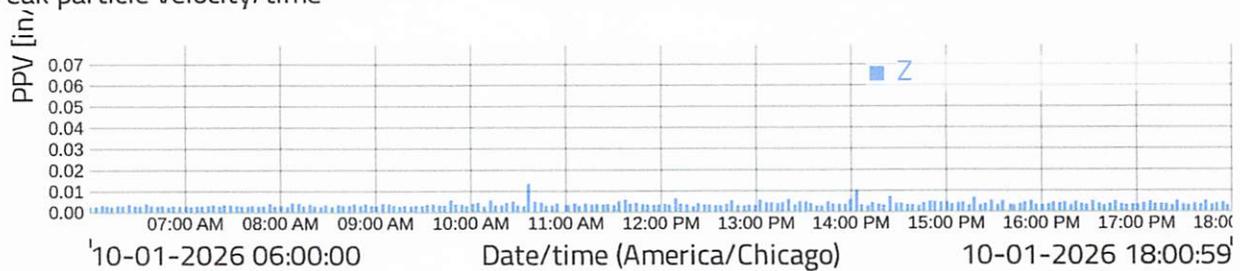
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

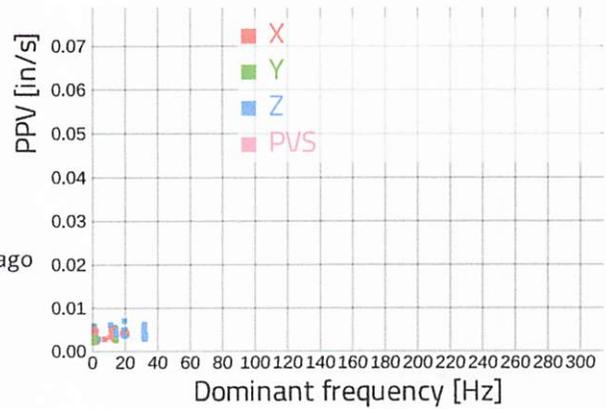


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



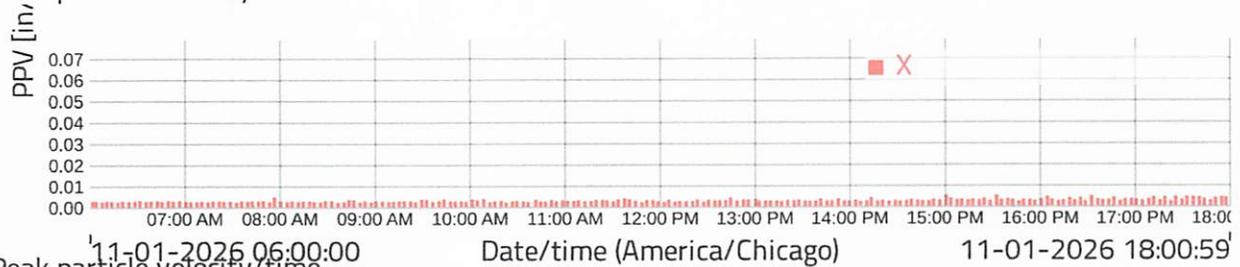
Calculate PPA (Peak particle acceleration) Off
 Evaluation type Unspecified
 Threshold for measurement storage 0.02 in/s
 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

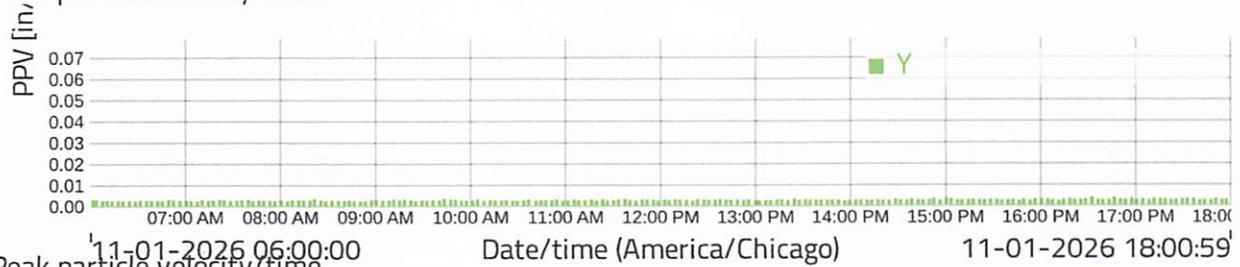


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 11, 2026 15:32:59	x	0.005	1.5
Jan. 11, 2026 16:34:59	y	0.003	1.5
Jan. 11, 2026 17:57:59	z	0.007	20.0

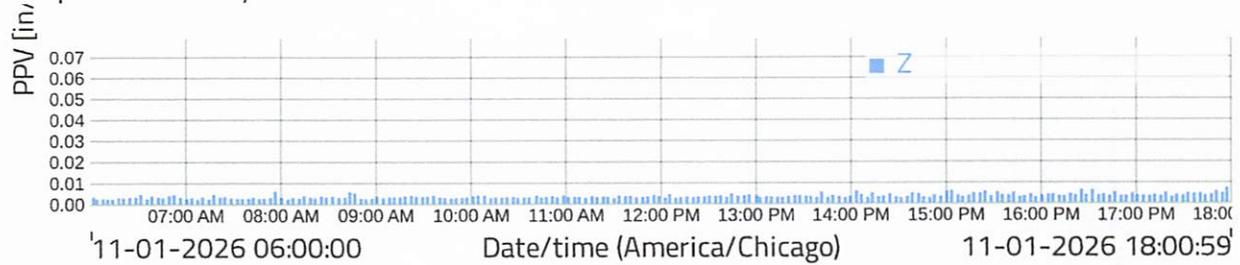
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time



SN: 3806 v3.22
Date: 01/05/2026 **Time:** 09:13:00
Event: 164
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.010	0.013	0.013
FREQ (Hz)	.3	2.7	.2
Peak Air Pressure:	100 db		

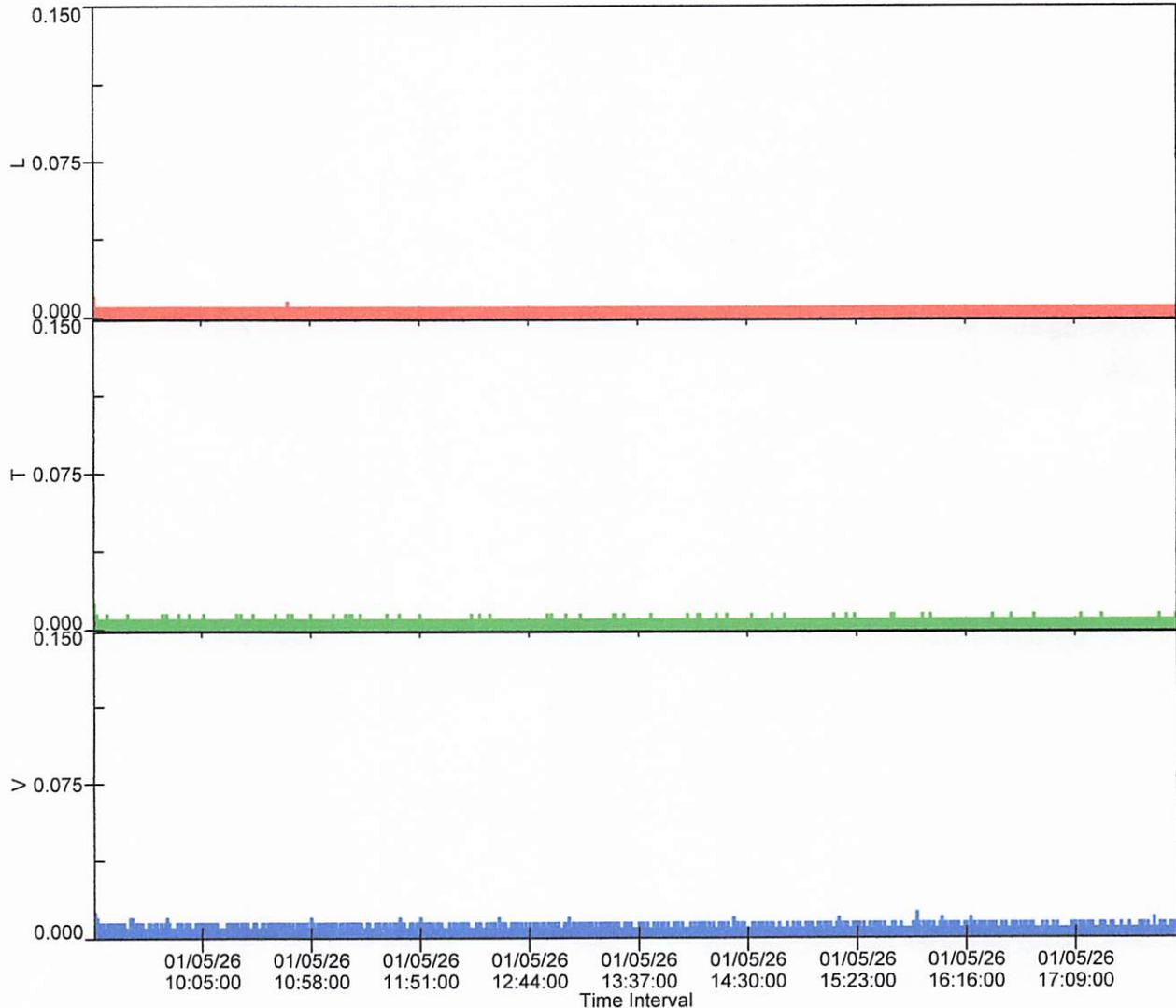
Recording Time: 526 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 164

Record Max PPV: 0.013 in/s Record Max DB: 100 db



SN: 3806 v3.22
Date: 01/06/2026 **Time:** 06:01:00
Event: 165
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.080	0.028	0.065
FREQ (Hz)	15.2	25.0	17.9
Peak Air Pressure:	97 db		

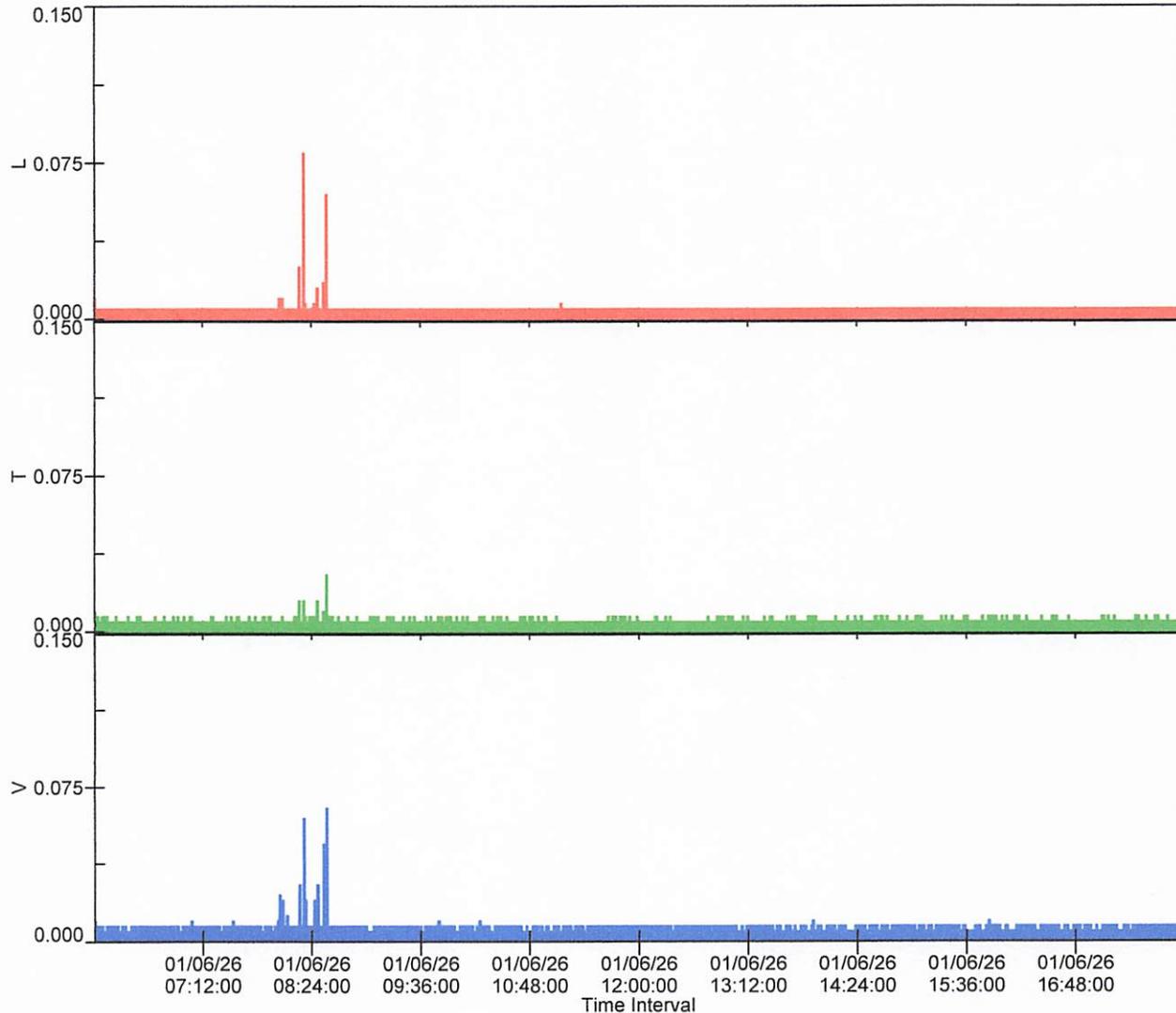
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 165

Record Max PPV: 0.080 in/s Record Max DB: 97 db



SN: 3806 v3.22
Date: 01/07/2026 **Time:** 06:01:00
Event: 166
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.013	0.023
FREQ (Hz)	33.3	26.3	33.3
Peak Air Pressure:	97 db		

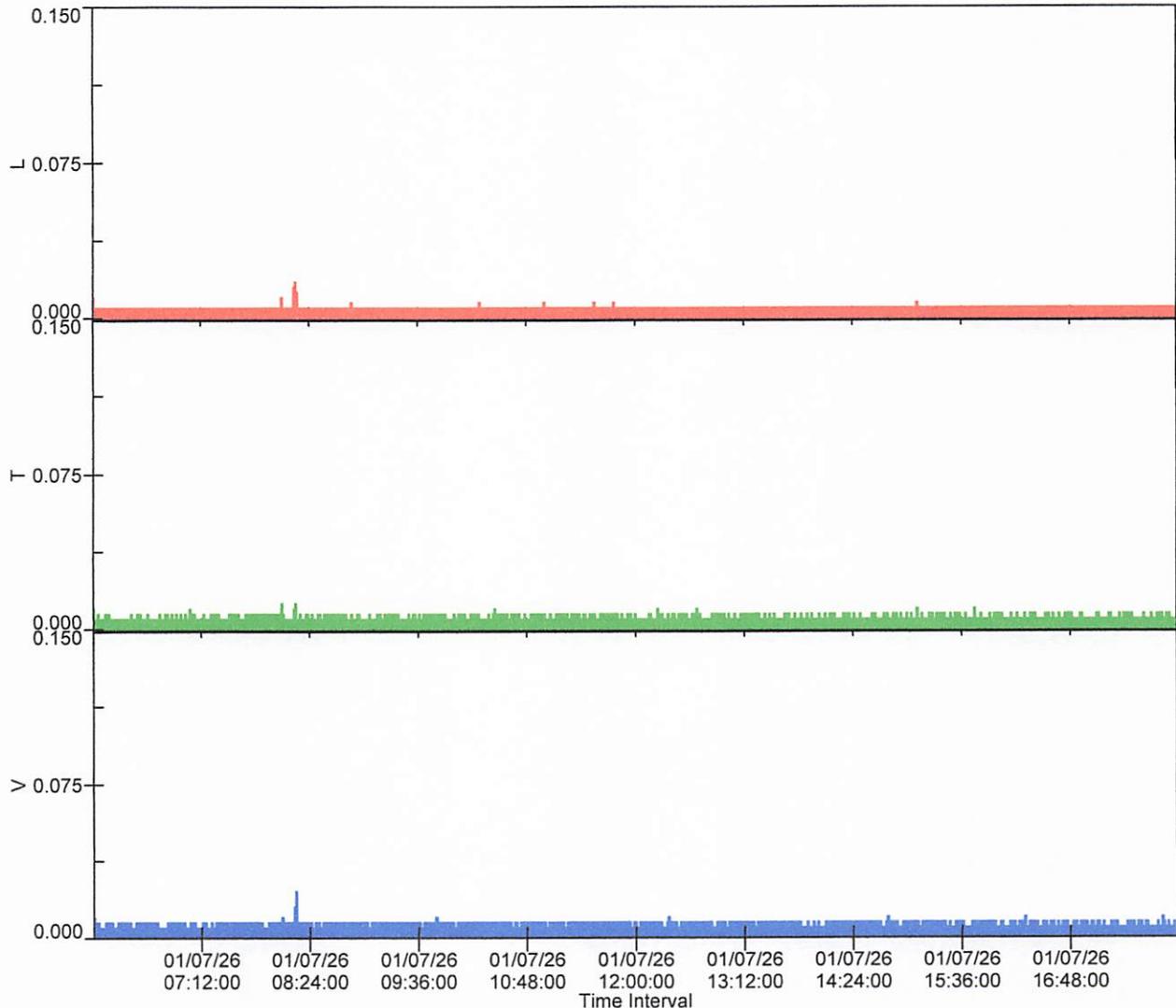
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 166

Record Max PPV: 0.023 in/s Record Max DB: 97 db



SN: 3806 v3.22
Date: 01/08/2026 **Time:** 06:01:00
Event: 167
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.040	0.033	0.070
FREQ (Hz)	31.3	31.3	27.8
Peak Air Pressure:	92 db		

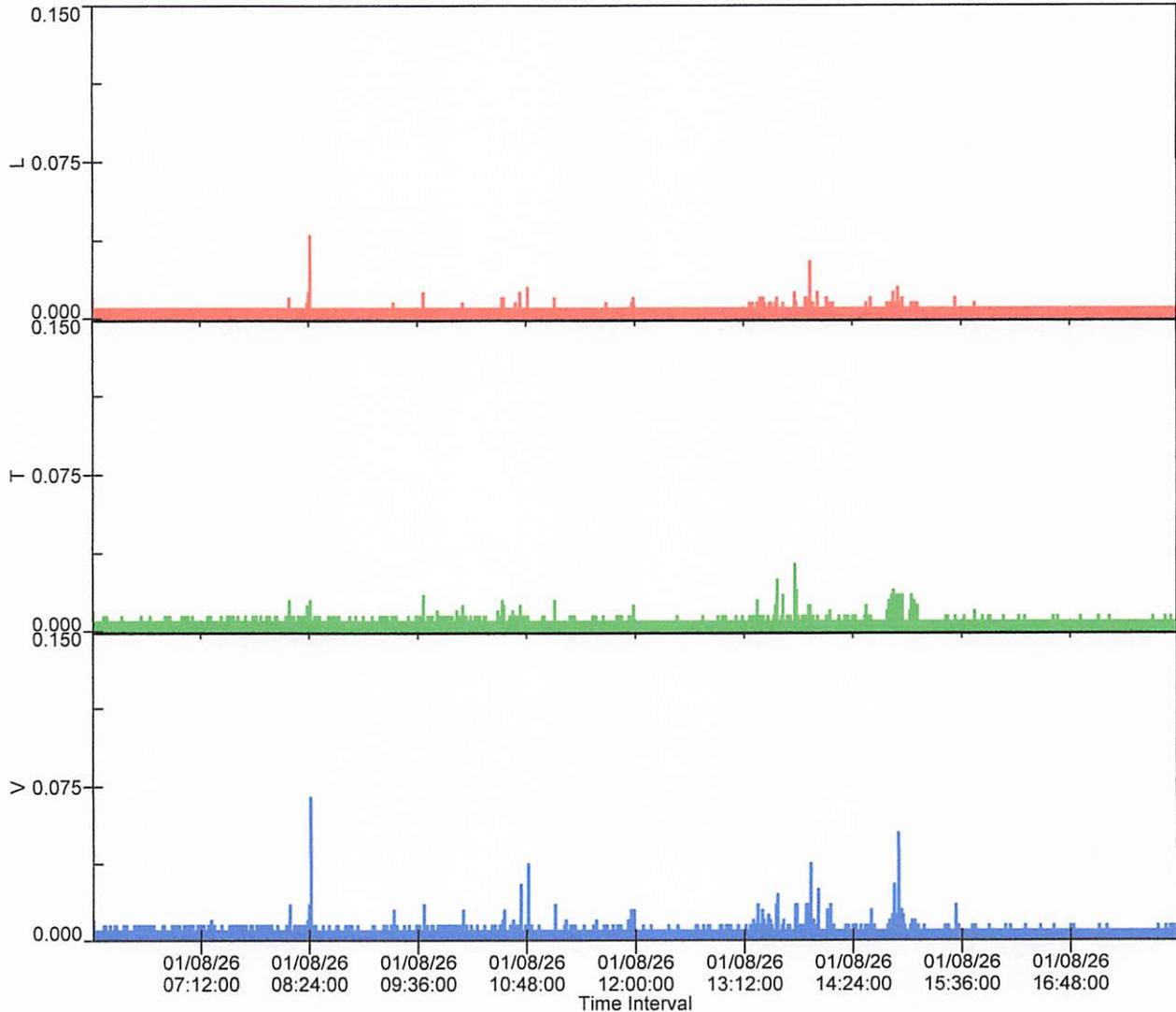
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 167

Record Max PPV: 0.070 in/s Record Max DB: 92 db



SN: 3806 v3.22
Date: 01/09/2026 **Time:** 06:01:00
Event: 168
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.3	3.1	.3
Peak Air Pressure:	90 db		

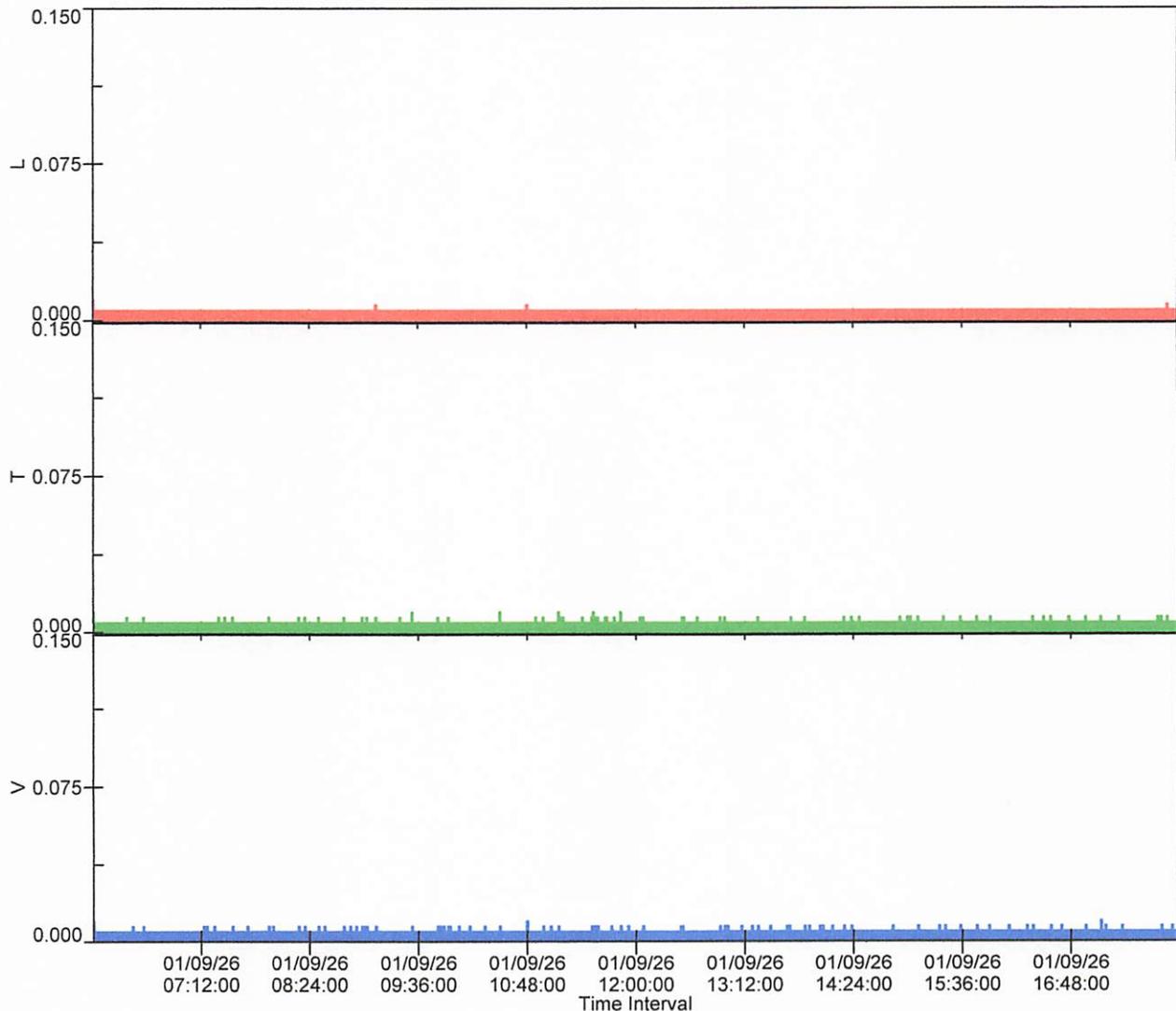
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 168

Record Max PPV: 0.010 in/s Record Max DB: 90 db



SN: 3806 v3.22
Date: 01/10/2026 **Time:** 06:01:00
Event: 169
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

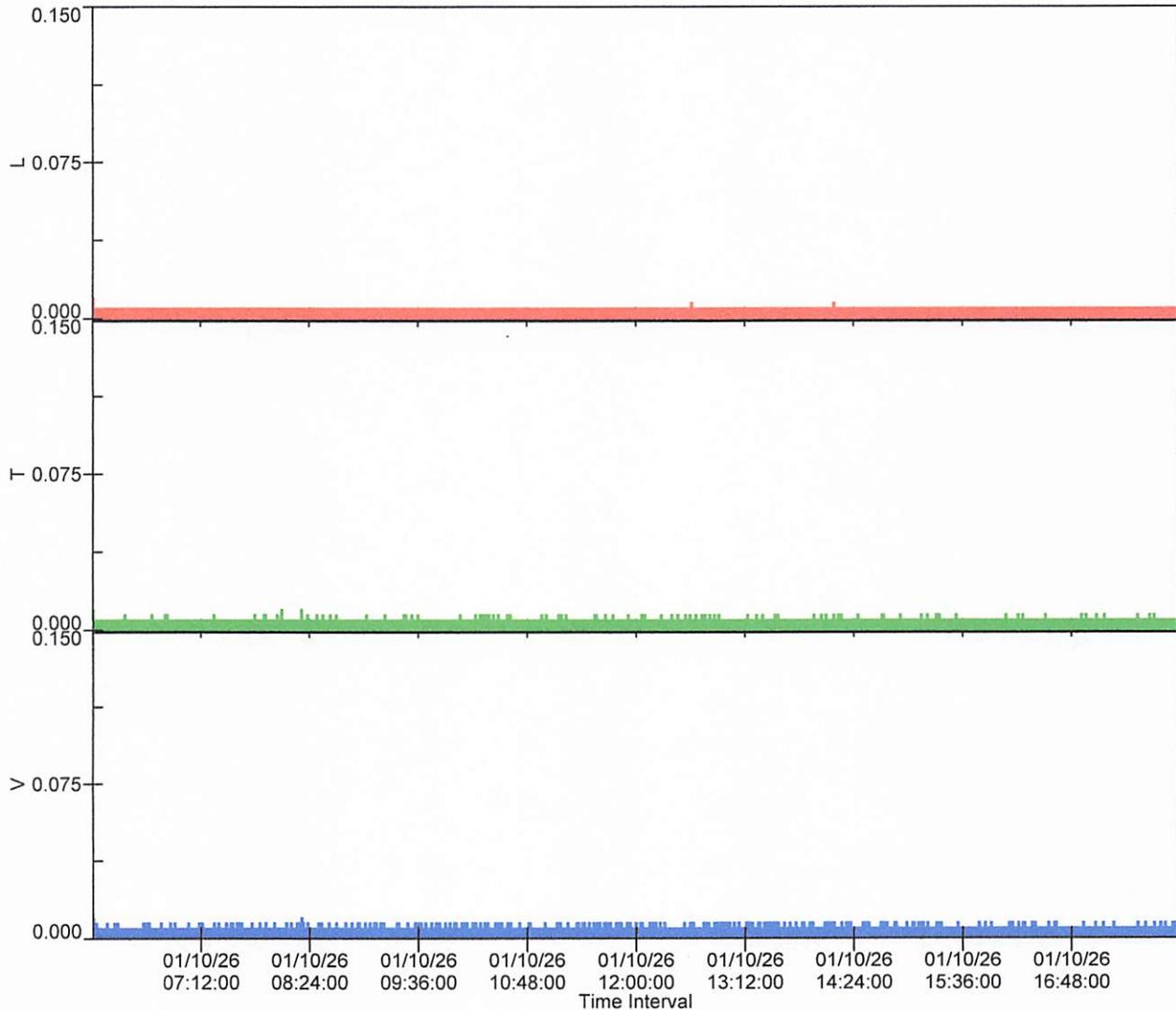
	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.2	1.9	.2
Peak Air Pressure:	97 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 169

Record Max PPV: 0.010 in/s Record Max DB: 97 db



SN: 3806 v3.22
Date: 01/11/2026 **Time:** 06:01:00
Event: 170
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

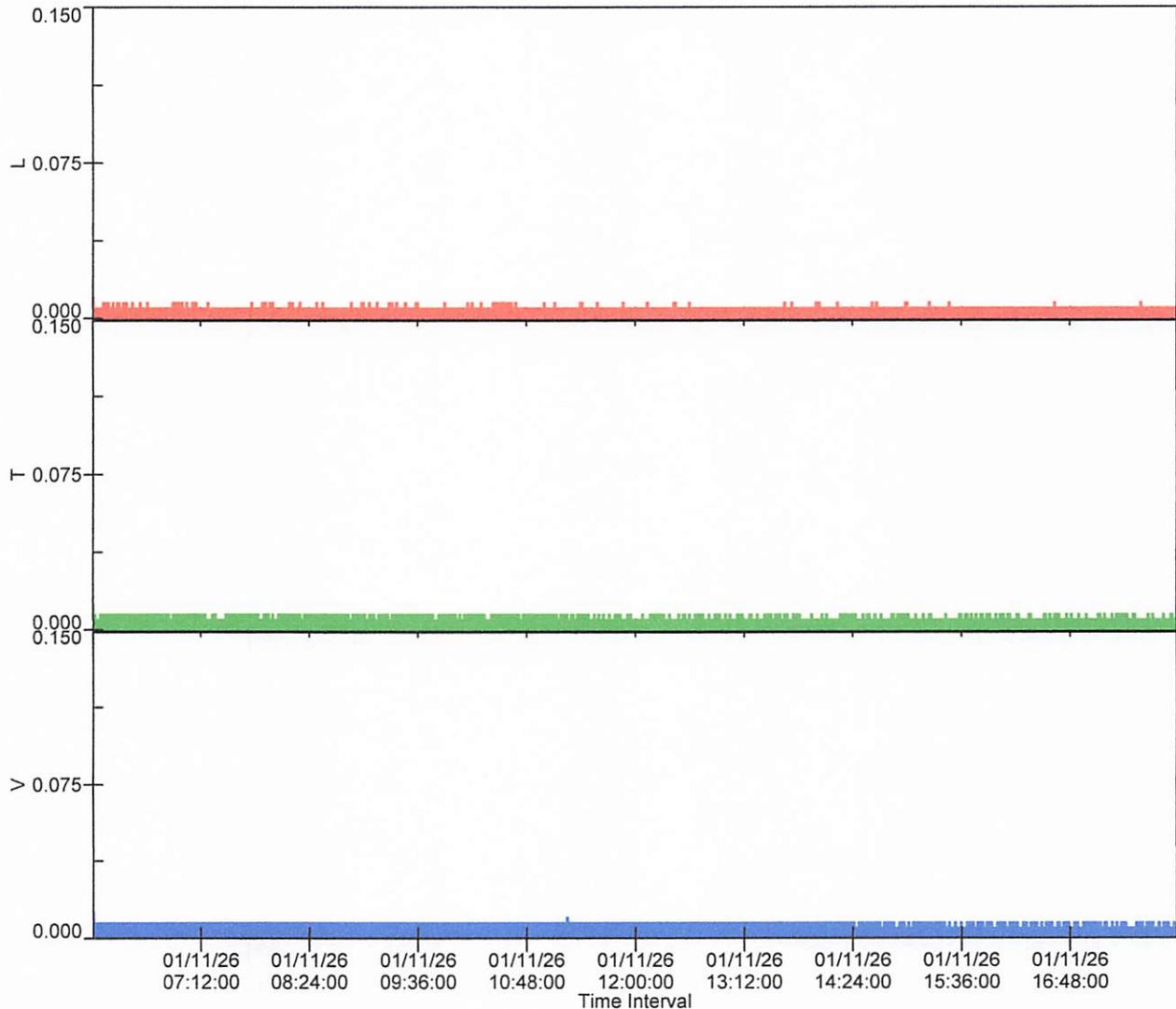
	L	T	V
PPV (in/s)	0.010	0.013	0.013
FREQ (Hz)	.2	6.3	.2
Peak Air Pressure:	103 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 170

Record Max PPV: 0.013 in/s Record Max DB: 103 db



SN: 3806 v3.22
Date: 01/12/2026 **Time:** 06:01:00
Event: 171
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.010	0.010	0.013
FREQ (Hz)	.3	2.0	.2
Peak Air Pressure:	100 db		
Recording Time:	521 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 171

Record Max PPV: 0.013 in/s Record Max DB: 100 db

