

504-514 SOUTH BOULEVARD PROJECT  
EVANSTON, IL

**VIBRATION  
MONITORING  
REPORT-15**

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

January 26, 2026

Cti



4262 Old Grand Ave  
Suite 102  
Gurnee, IL 60031

January 26, 2026

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

RE: **Report 15:** - *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 19, 2026, through January 25, 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.

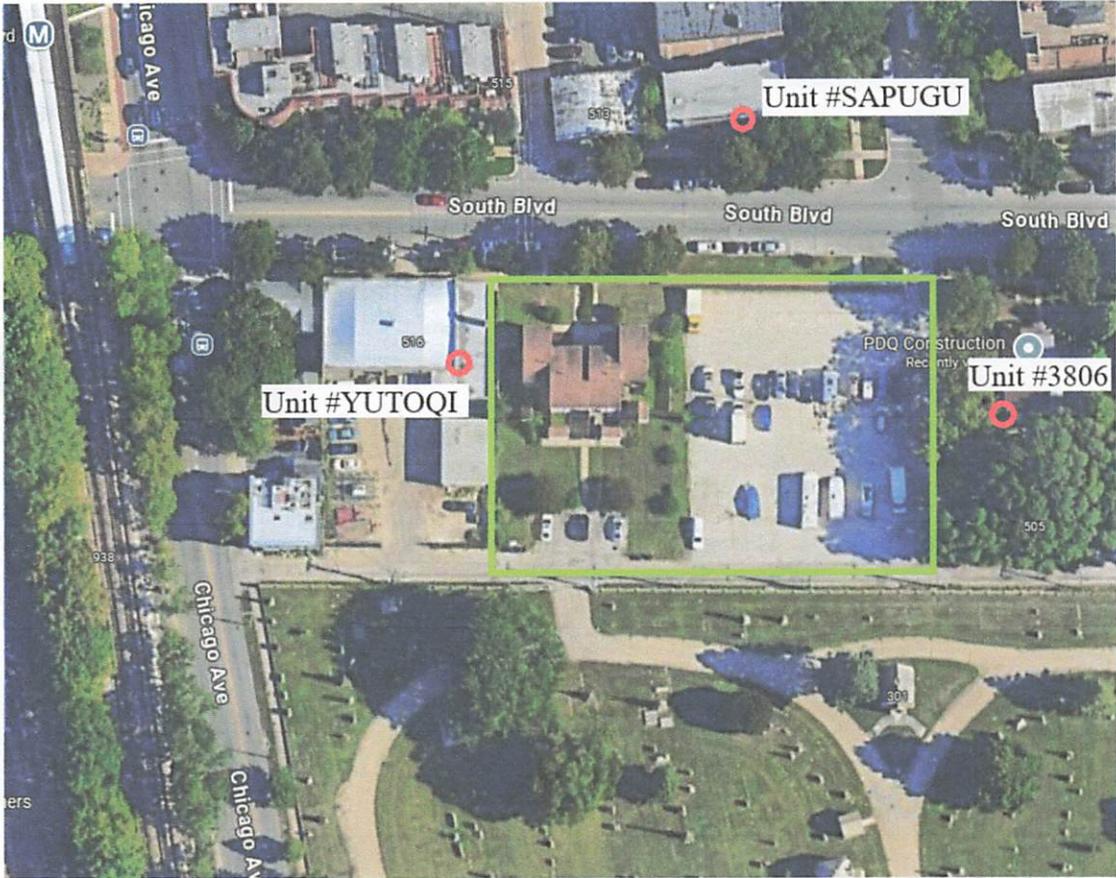
All vibration recordings during this report period were below the 0.5-inch per second threshold limit. The maximum PPV and averages for the monitoring period are below.

January 21, 2026	<b>Location #1 – 516 South Blvd</b>	Unit #YUTOQI	0.081 (in/sec)
January 21, 2026	<b>Location #2 – 507 South Blvd</b>	Unit #SAPUGU	0.076 (in/sec)
January 22, 2026	<b>Location #3 – 424 South Blvd</b>	Unit #3806	0.055 (in/sec)

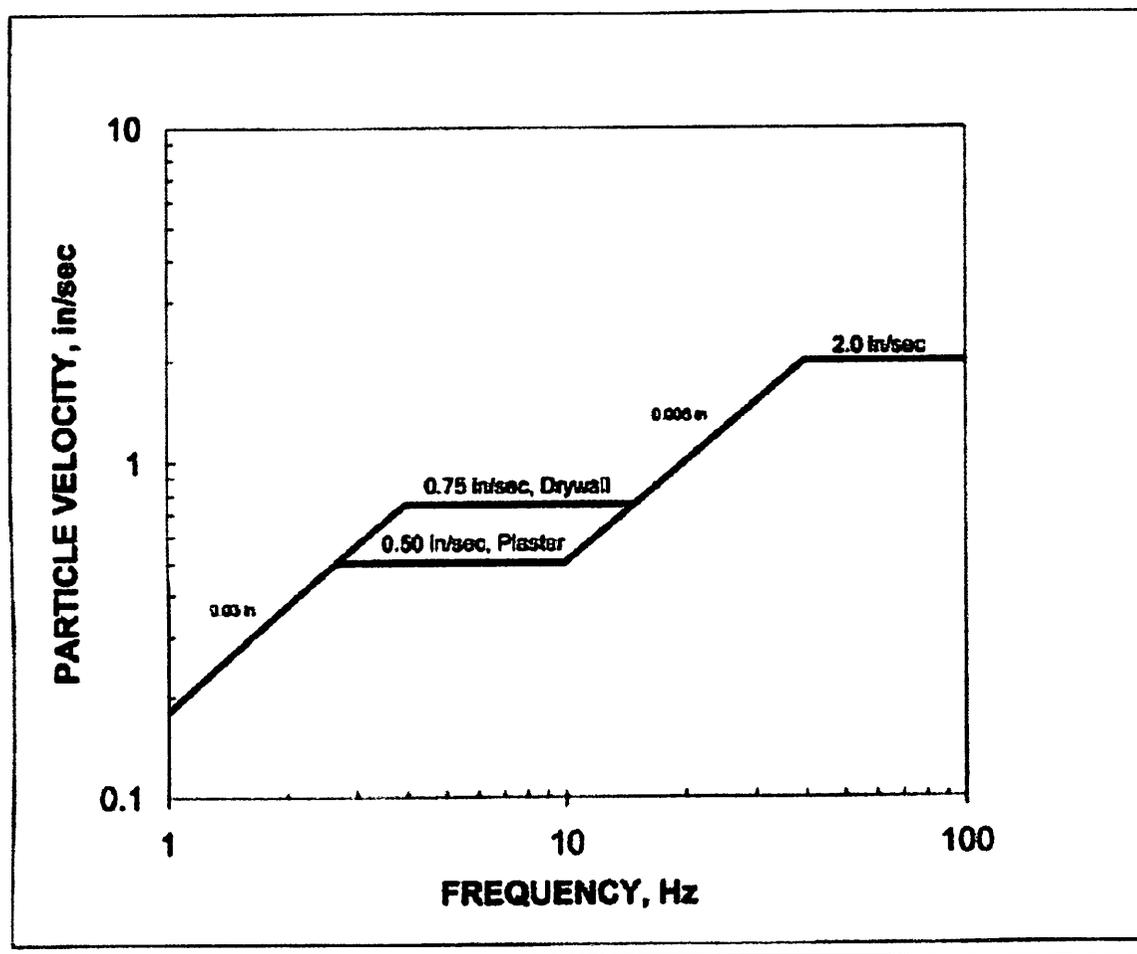
If you have any questions regarding this report, please contact this office at (847) 244-5108.

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.<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 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.<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.

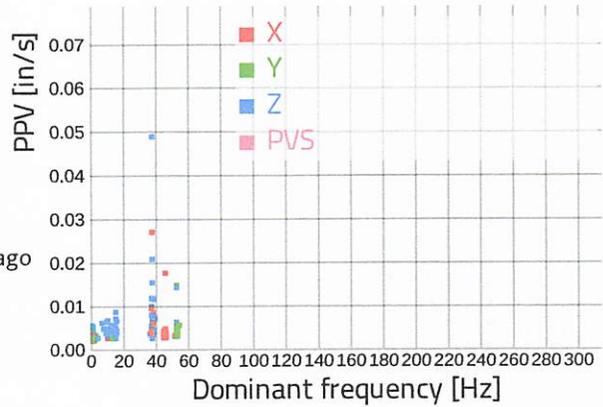
<sup>1</sup> Siskind, D. E., Stagg, M. S., Kopp, J. W., and Dowding, C. H. (1980). "Structure Response and Damage Produced by Ground Vibration from Surface Blasting," *Report of Investigations 8507*, U.S. Bureau of Mines. <sup>2</sup> Rosenthal, M. F. and Morlock, G. L. (1987). *Blasting Guidance Manual*,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

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



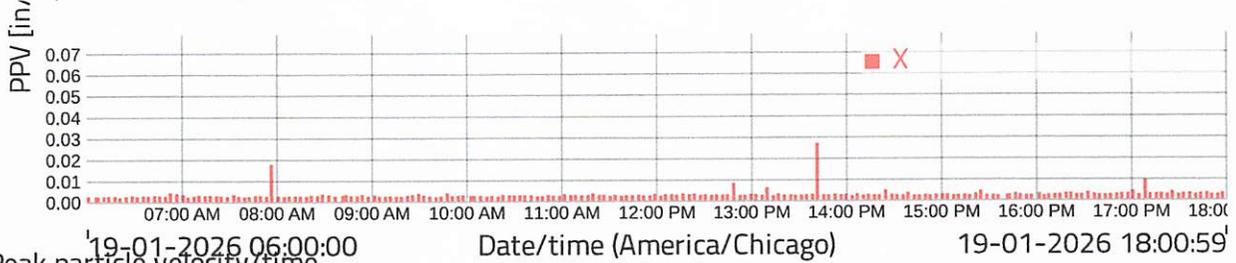
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 Measuring interval 6 seconds  
 Storage below threshold interval 60 seconds  
 Store values below threshold On  
 Timezone America/Chicago  
 Calculate VDV (Vibration Dose Value) Off  
 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle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

Peak particle velocity/frequency

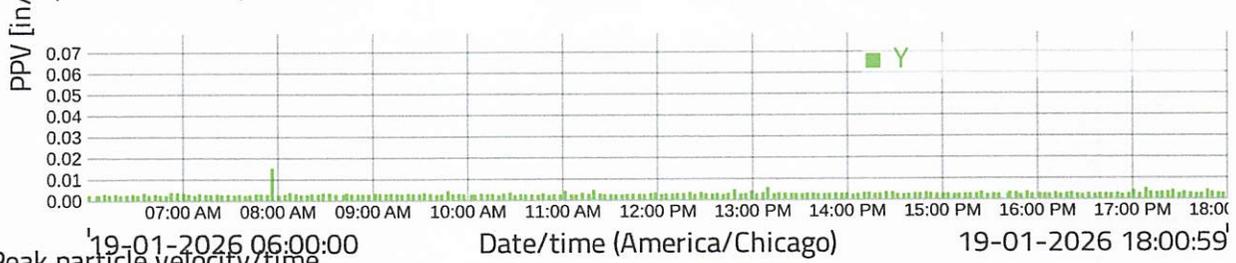


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 19, 2026 13:42:23	x	0.027	38.0
Jan. 19, 2026 07:59:59	y	0.015	53.0
Jan. 19, 2026 13:42:23	z	0.049	38.0

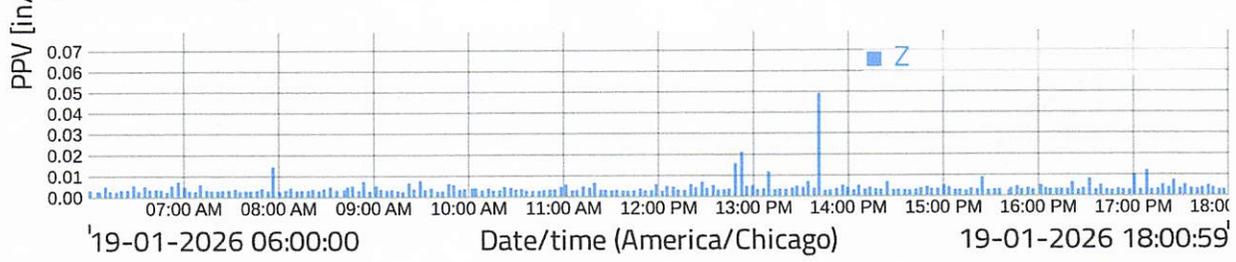
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

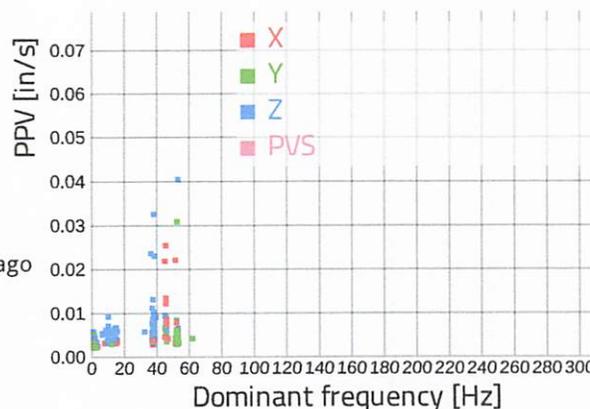


Project: LEOPARDO  
 Measuring point: 516 S BLVD  
 (YUTOQI)



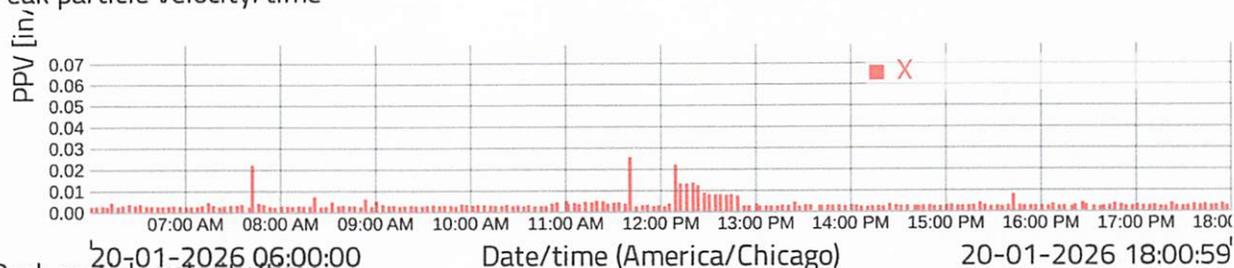
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PPV flat line threshold	0.5 in/s
Guideline	ISEE 250Hz
Measuring interval	6 seconds
Storage below threshold interval	60 seconds
Store values below threshold	On
Timezone	America/Chicago
Calculate VDV (Vibration Dose Value)	Off
Calculate PVS (Peak Vector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

Peak particle velocity/frequency

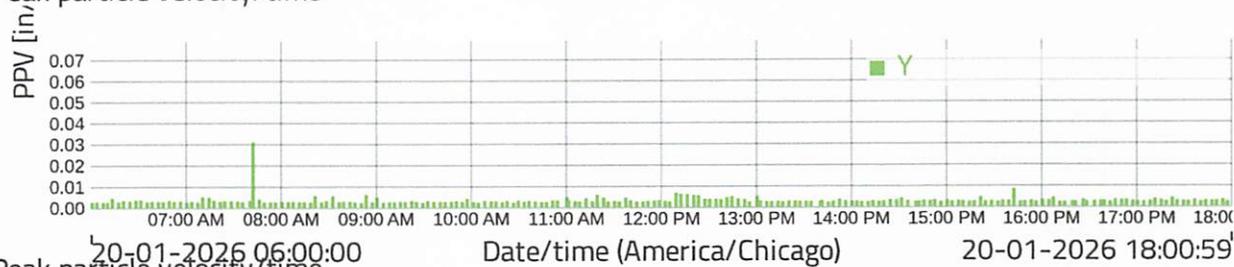


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 20, 2026 11:43:17	x	0.025	46.0
Jan. 20, 2026 07:45:17	y	0.031	53.0
Jan. 20, 2026 07:45:17	z	0.040	53.5

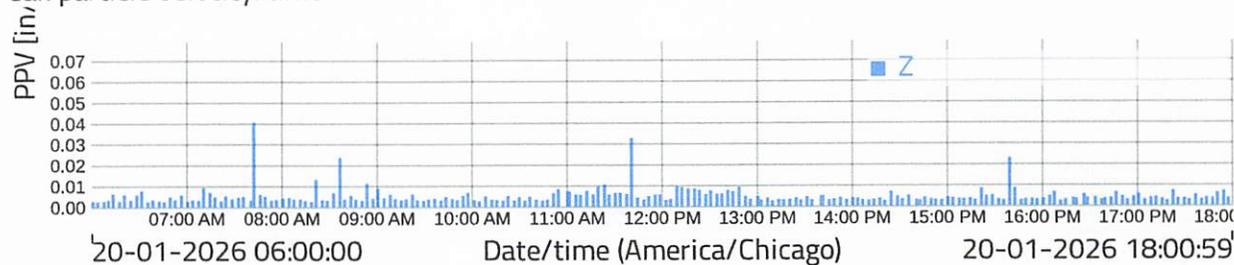
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

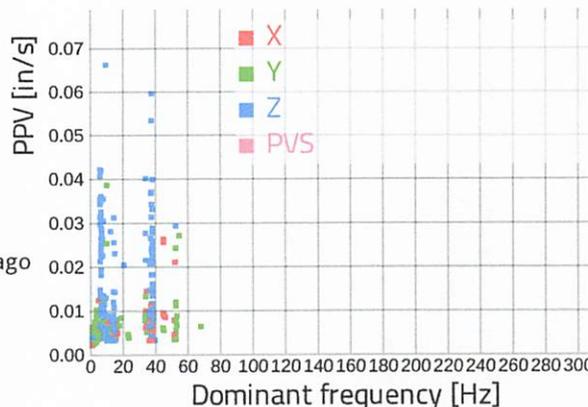


Project: LEOPARDO  
 Measuring point: 516 S BLVD  
 (YUTOQI)



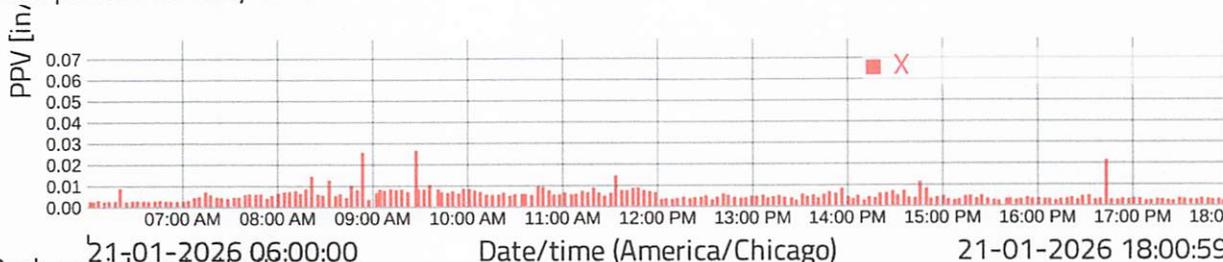
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 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

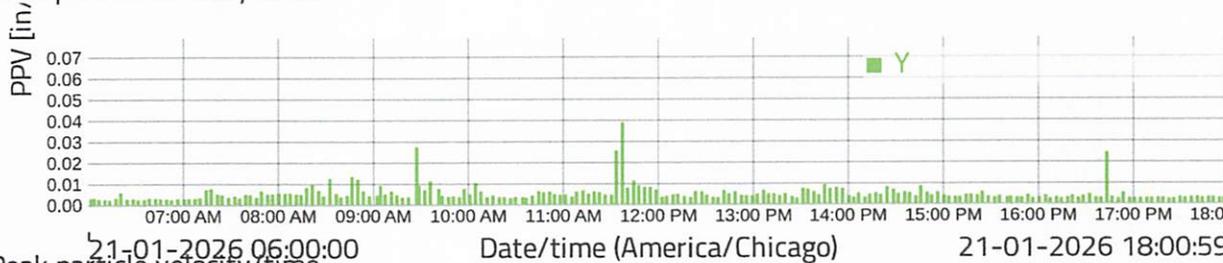


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 21, 2026 09:28:41	x	0.026	45.5
Jan. 21, 2026 11:38:41	y	0.039	10.5
Jan. 21, 2026 11:38:41	z	0.081	10.0

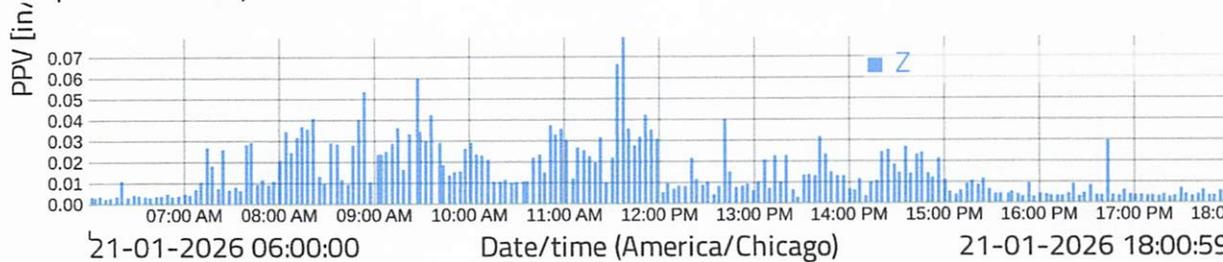
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

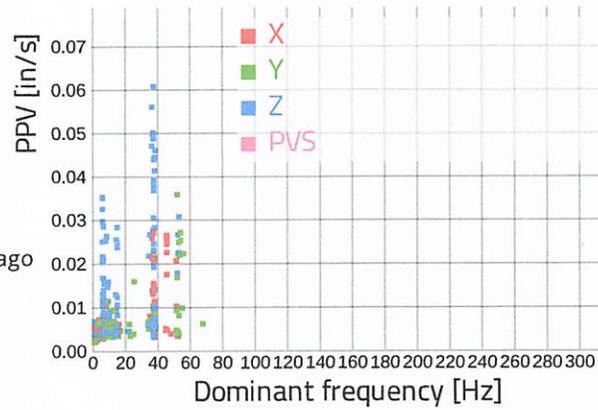


Project: LEOPARDO  
 Measuring point: 516 S BLVD  
 (YUTOQI)



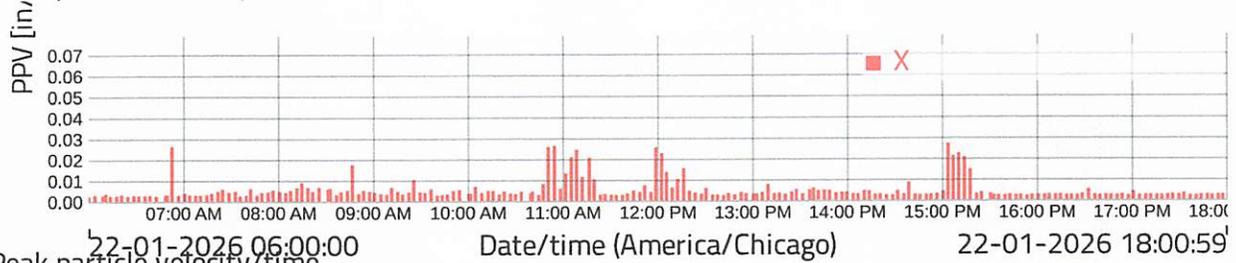
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 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

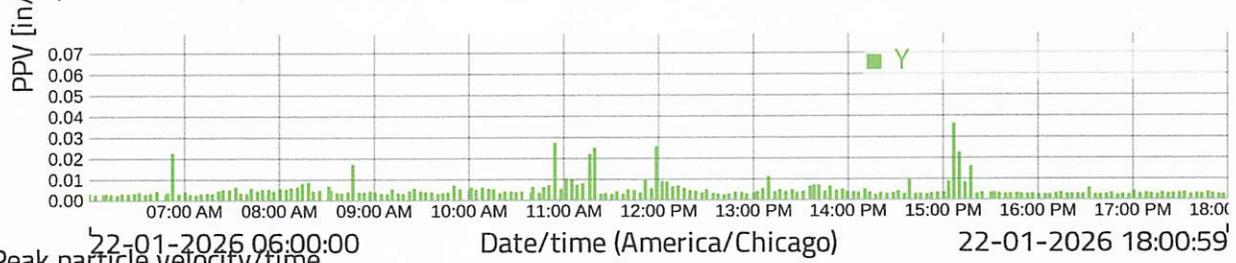


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 22, 2026 15:06:47	x	0.027	38.0
Jan. 22, 2026 15:07:53	y	0.036	52.5
Jan. 22, 2026 15:06:47	z	0.061	38.0

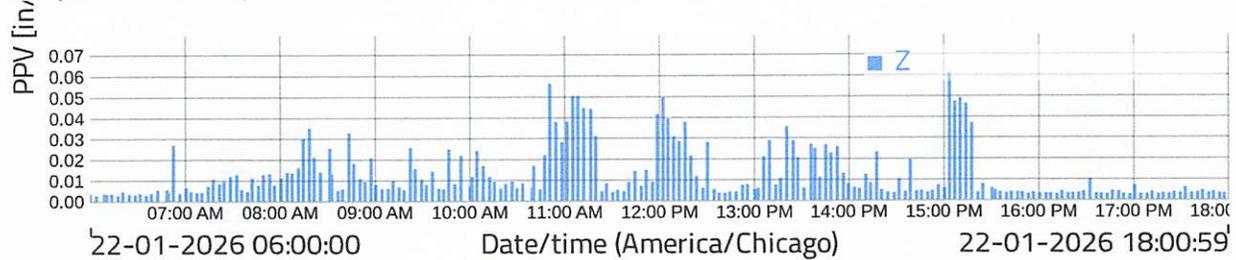
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

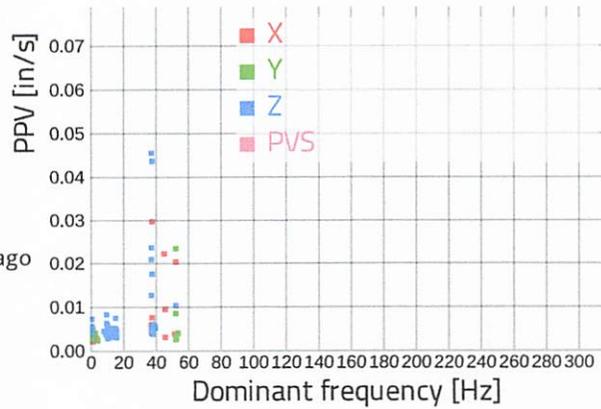


Project: LEOPARDO  
 Measuring point: 516 S BLVD  
 (YUTOQI)



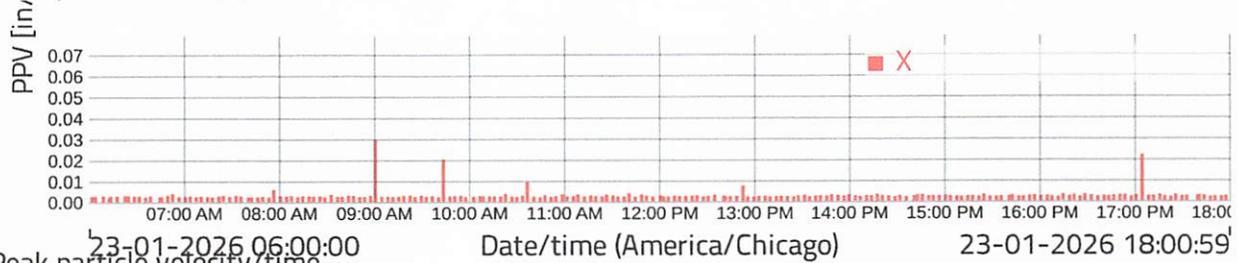
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 Storage below threshold interval 60 seconds  
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 Calculate VDV (Vibration Dose Value) Off  
 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

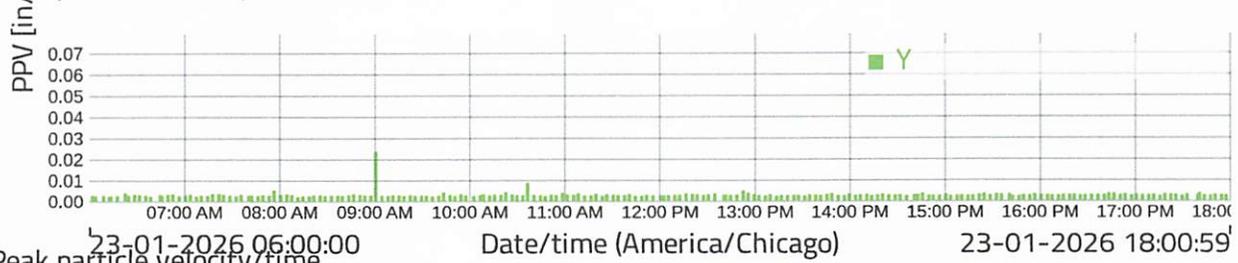


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 23, 2026 09:01:17	x	0.030	38.0
Jan. 23, 2026 09:01:17	y	0.023	52.5
Jan. 23, 2026 09:01:17	z	0.045	37.5

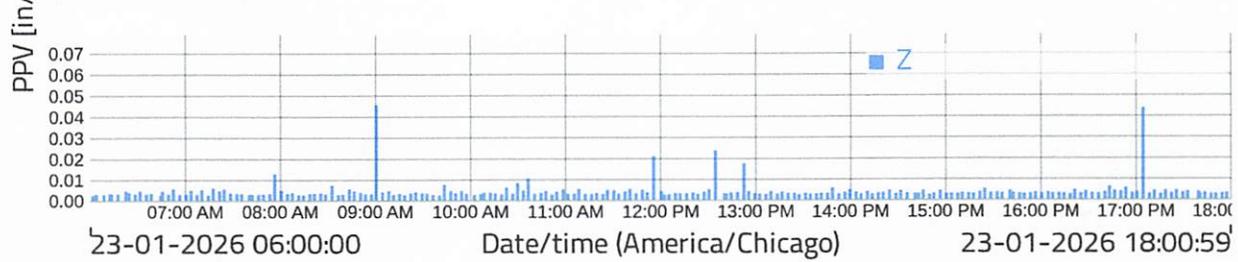
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

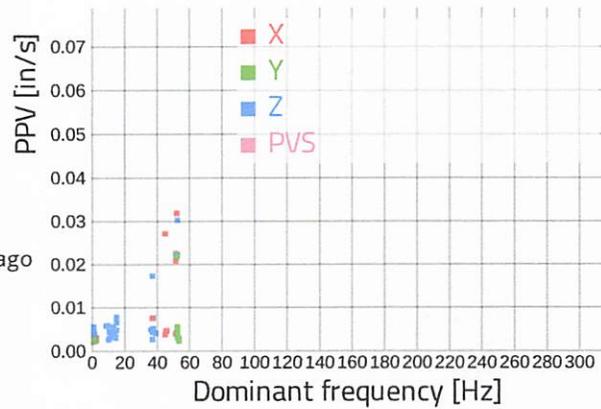


Project: LEOPARDO  
 Measuring point: 516 S BLVD  
 (YUTOQI)



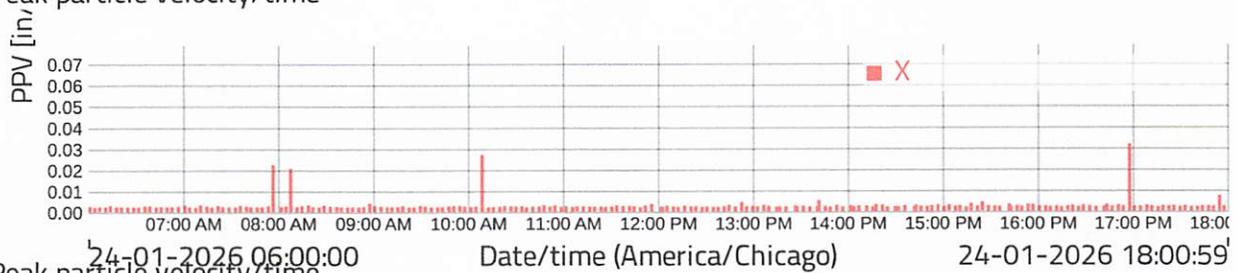
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Evaluation type	Unspecified
Threshold for measurement storage	0.02 in/s
PPV flat line threshold	0.5 in/s
Guideline	ISEE 250Hz
Measuring interval	6 seconds
Storage below threshold interval	60 seconds
Store values below threshold	On
Timezone	America/Chicago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

Peak particle velocity/frequency

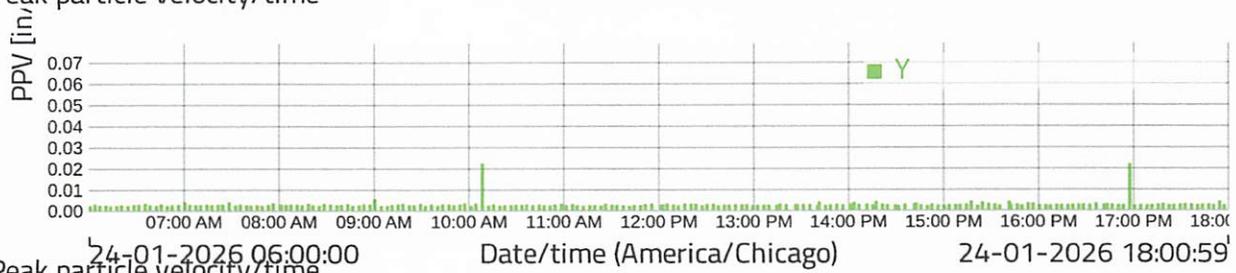


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 24, 2026 16:59:35	x	0.032	52.5
Jan. 24, 2026 10:09:23	y	0.022	53.0
Jan. 24, 2026 16:59:35	z	0.030	53.0

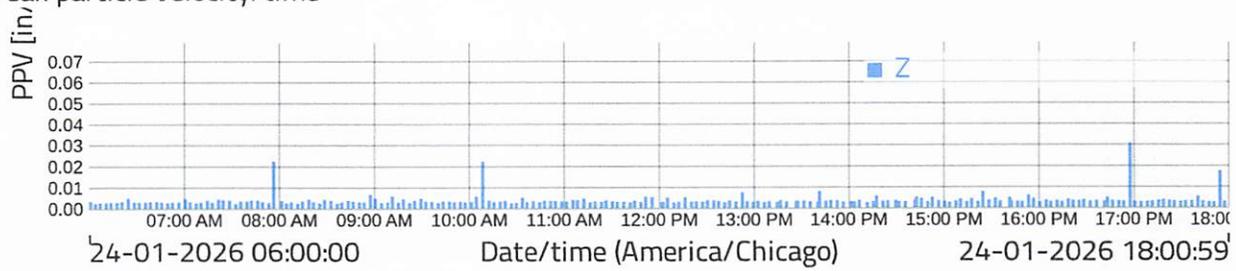
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

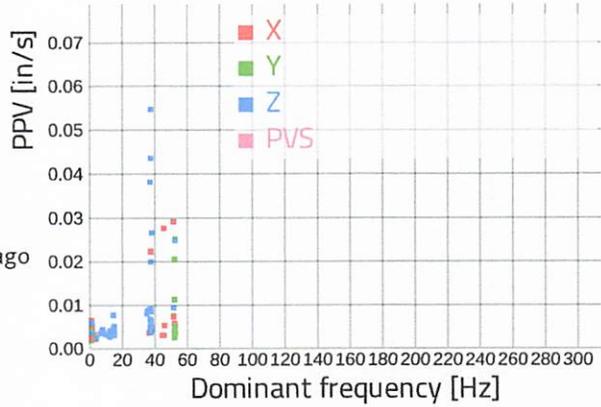


Project: LEOPARDO  
 Measuring point: 516 S BLVD  
 (YUTOQI)



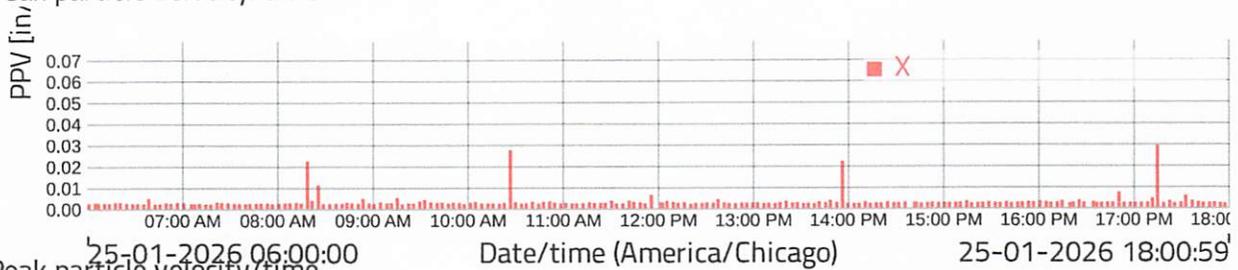
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 Guideline ISEE 250Hz  
 Measuring interval 6 seconds  
 Storage below threshold interval 60 seconds  
 Store values below threshold On  
 Timezone America/Chicago  
 Calculate VDV (Vibration Dose Value) Off  
 Calculate PVS (Peak Vector Sum) Off 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

Peak particle velocity/frequency

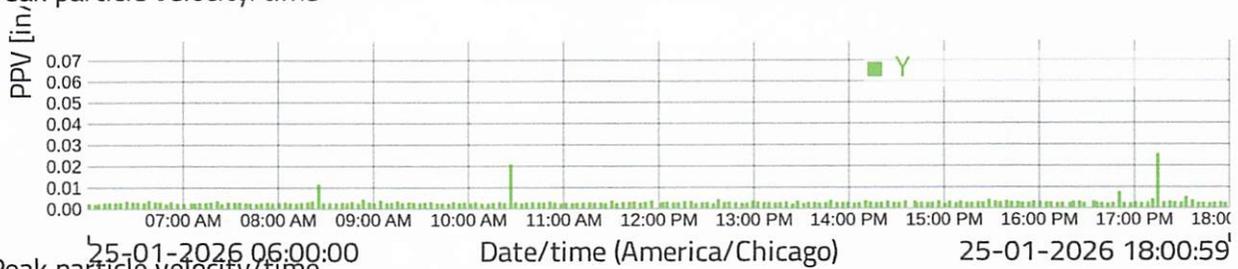


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 25, 2026 17:15:17	x	0.029	52.0
Jan. 25, 2026 17:15:17	y	0.025	53.0
Jan. 25, 2026 13:56:41	z	0.055	38.0

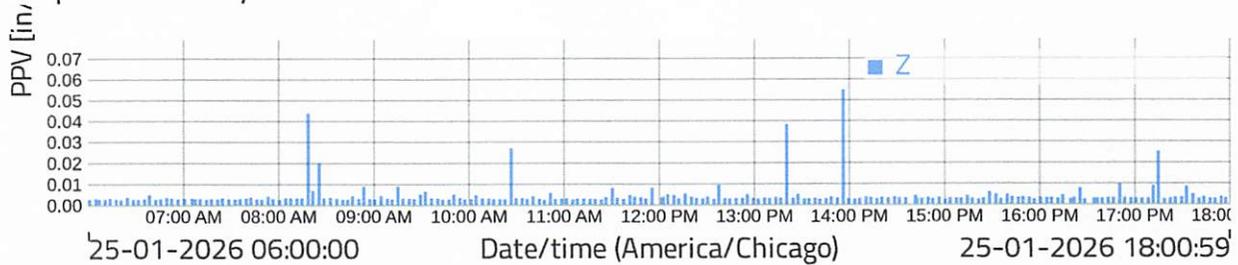
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

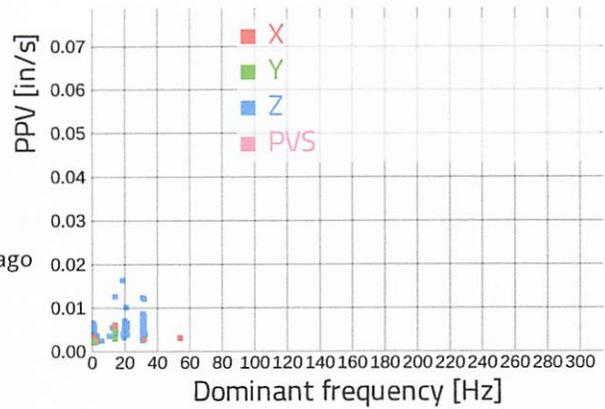


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



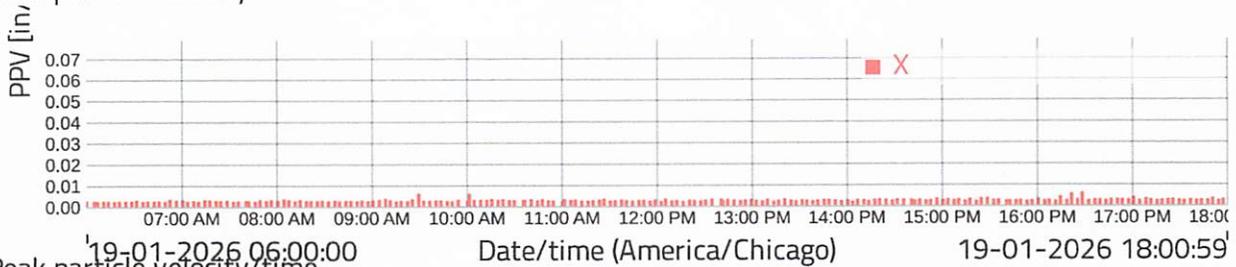
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 Storage below threshold interval 60 seconds  
 Store values below threshold On  
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 Calculate VDV (Vibration Dose Value) Off  
 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle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

Peak particle velocity/frequency

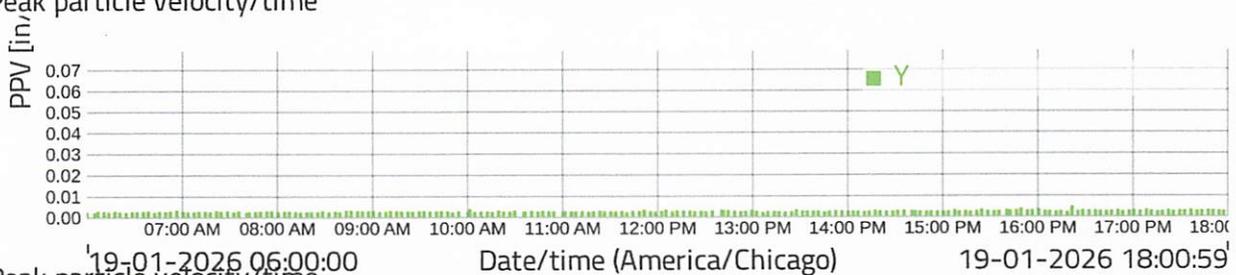


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 19, 2026 09:29:59	x	0.006	32.5
Jan. 19, 2026 16:23:59	y	0.004	14.5
Jan. 19, 2026 10:03:59	z	0.016	19.0

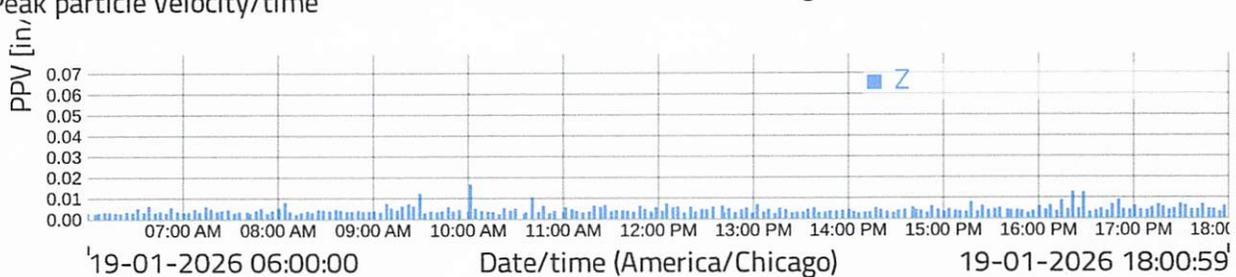
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

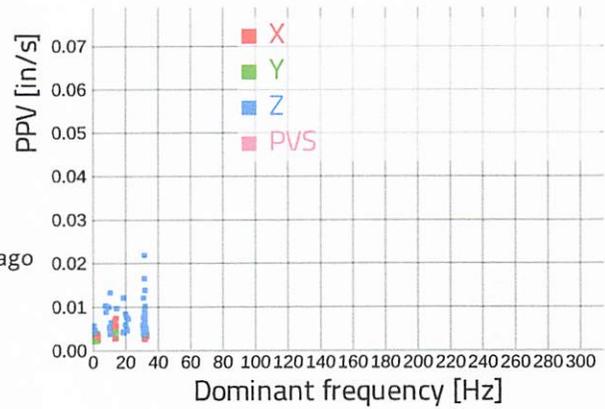


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



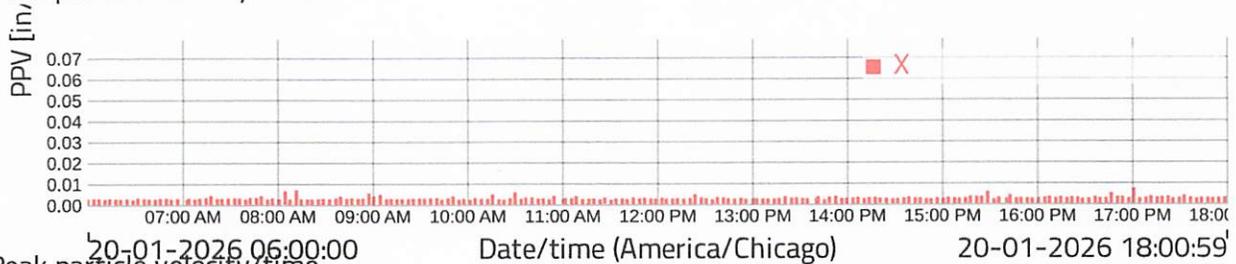
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 Calculate VDV (Vibration Dose Value) Off  
 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

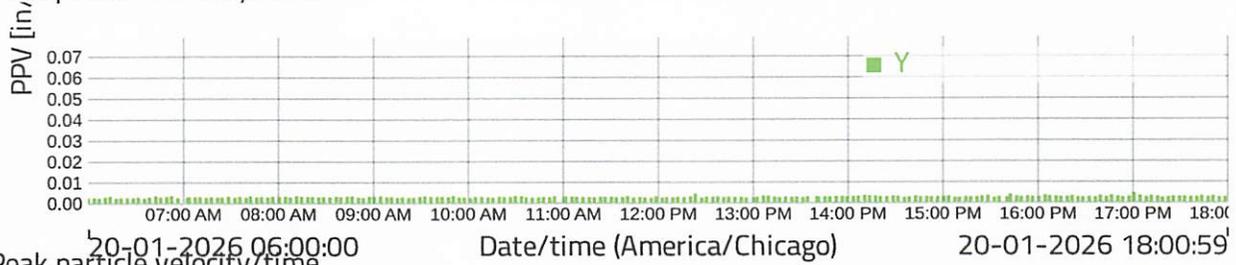


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 20, 2026 17:03:59	x	0.007	14.5
Jan. 20, 2026 17:03:59	y	0.004	14.5
Jan. 20, 2026 13:23:35	z	0.022	32.0

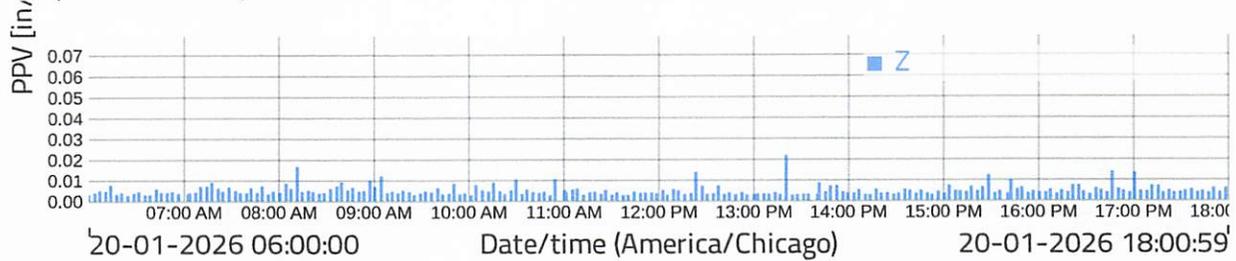
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

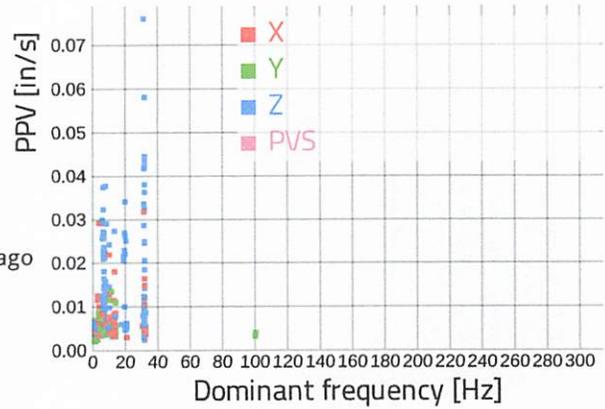


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



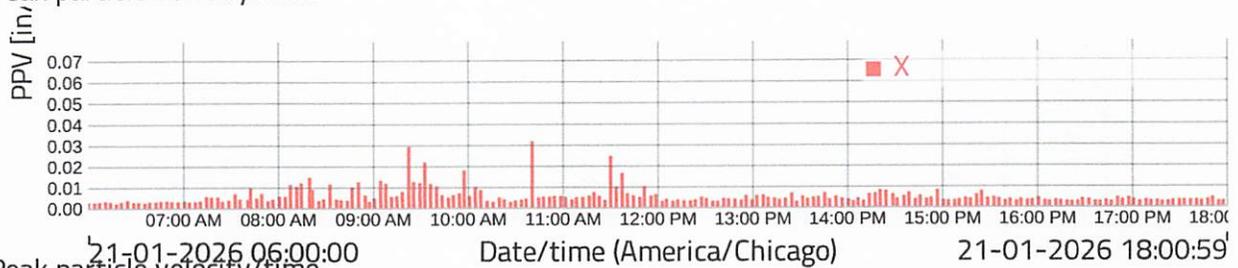
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 Calculate PVS (Peak Vector Sum) Off  
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

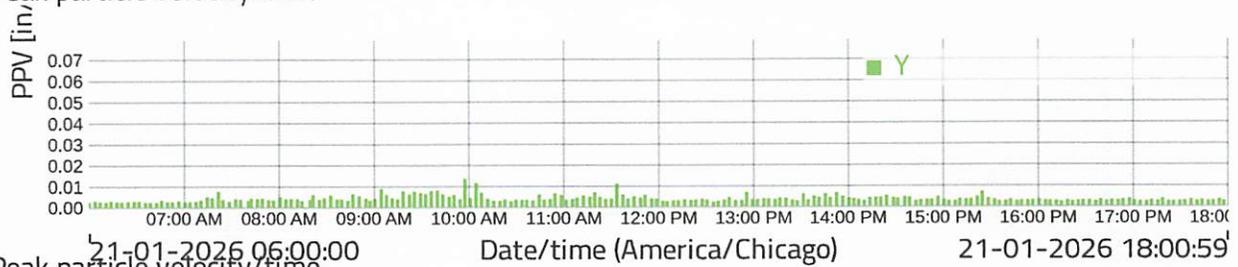


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 21, 2026 10:43:35	x	0.032	32.0
Jan. 21, 2026 09:59:59	y	0.013	12.0
Jan. 21, 2026 10:43:35	z	0.076	32.0

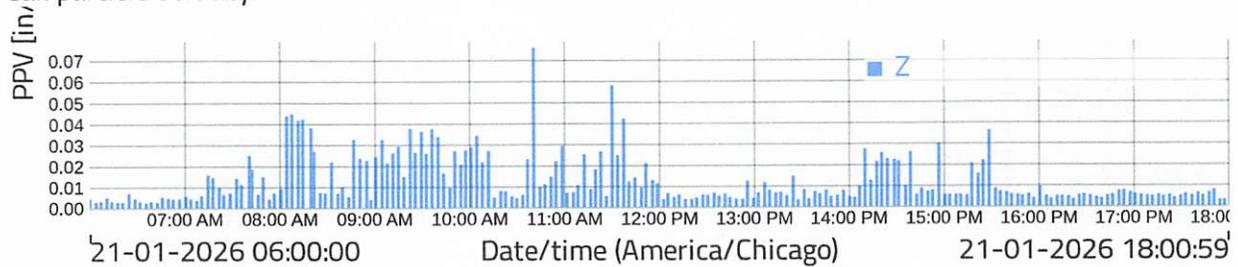
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

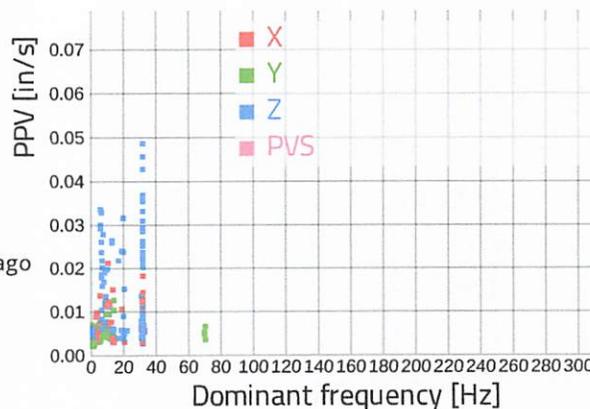


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



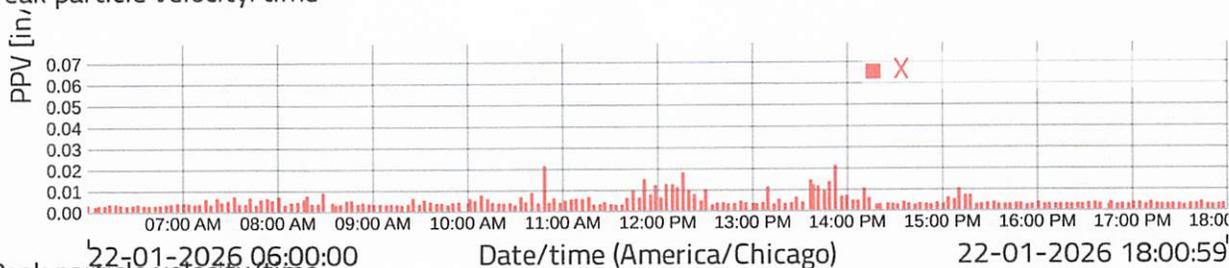
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 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

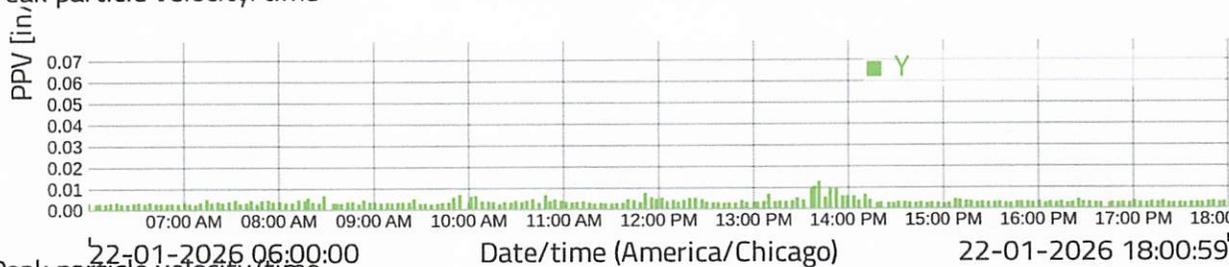


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 22, 2026 10:49:11	x	0.021	32.5
Jan. 22, 2026 13:43:59	y	0.012	14.5
Jan. 22, 2026 10:49:11	z	0.048	32.5

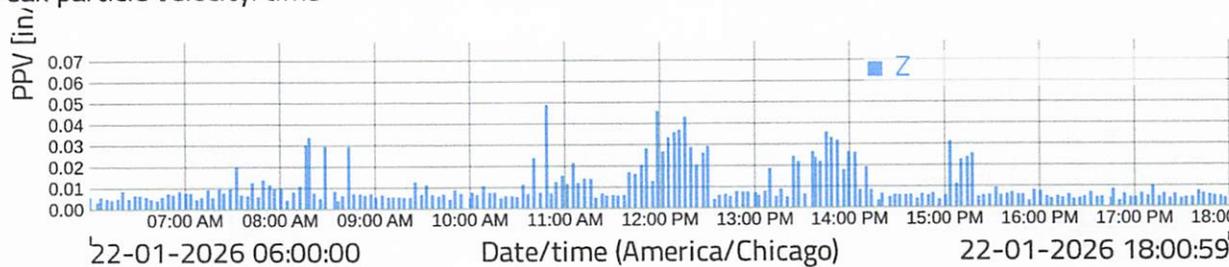
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

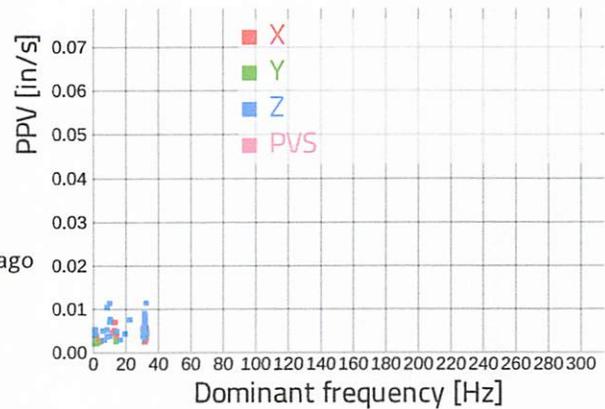


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



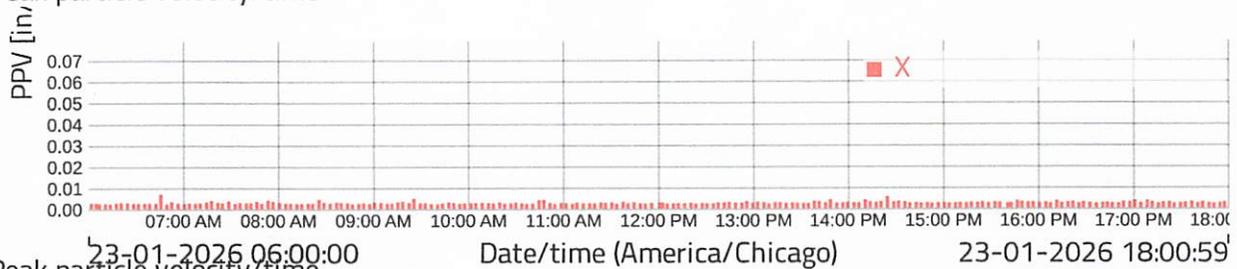
Calculate PPA (Peak particle acceleration) Off  
 Evaluation type Unspecified  
 Threshold for measurement storage 0.02 in/s  
 PPV flat line threshold 0.5 in/s  
 Guideline ISEE 250Hz  
 Measuring interval 6 seconds  
 Storage below threshold interval 60 seconds  
 Store values below threshold On  
 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

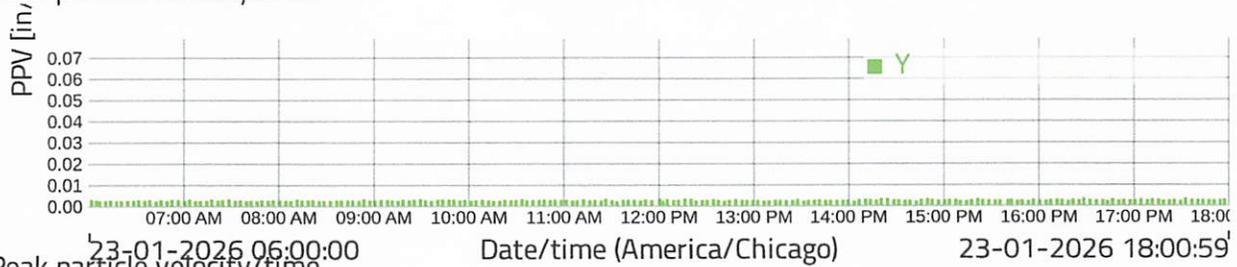


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 23, 2026 06:46:59	x	0.007	14.0
Jan. 23, 2026 16:28:59	y	0.003	1.5
Jan. 23, 2026 14:27:59	z	0.011	33.0

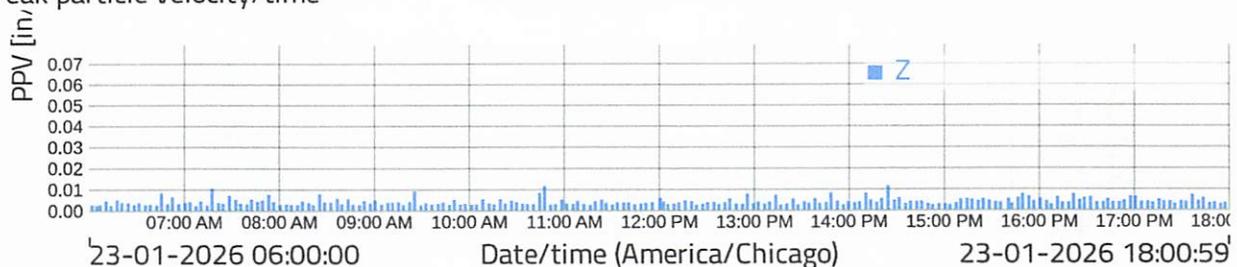
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

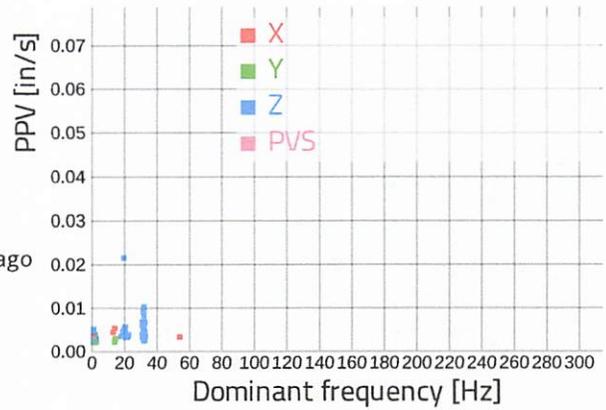


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



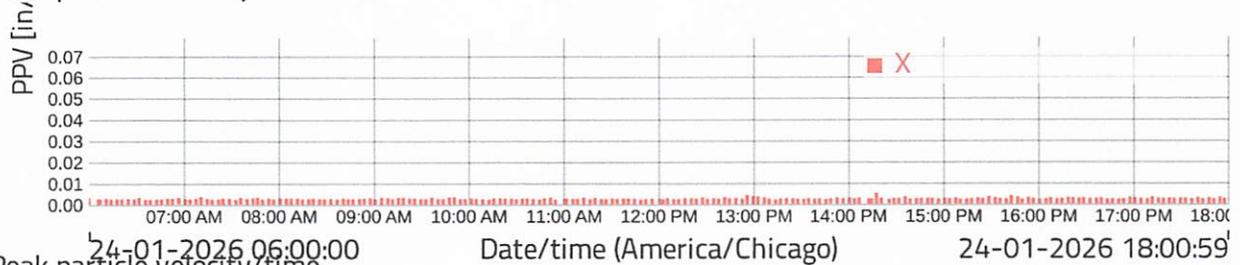
Calculate PPA (Peak particle acceleration) Off  
 Evaluation type Unspecified  
 Threshold for measurement storage 0.02 in/s  
 PPV flat line threshold 0.5 in/s  
 Guideline ISEE 250Hz  
 Measuring interval 6 seconds  
 Storage below threshold interval 60 seconds  
 Store values below threshold On  
 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

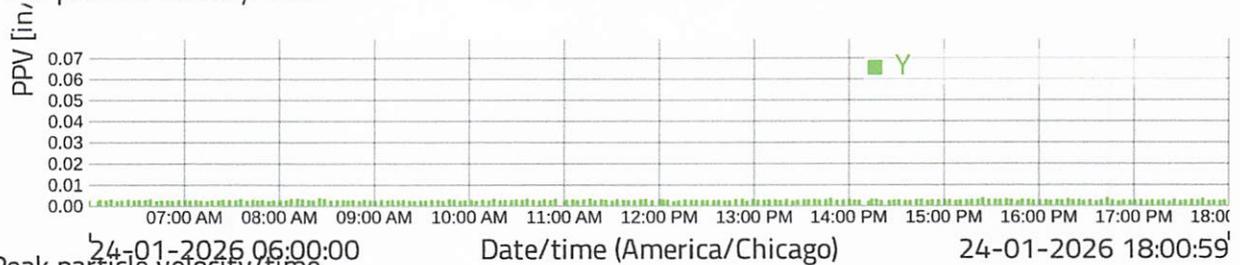


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 24, 2026 14:19:59	x	0.005	14.5
Jan. 24, 2026 16:44:59	y	0.003	1.5
Jan. 24, 2026 06:27:11	z	0.021	20.0

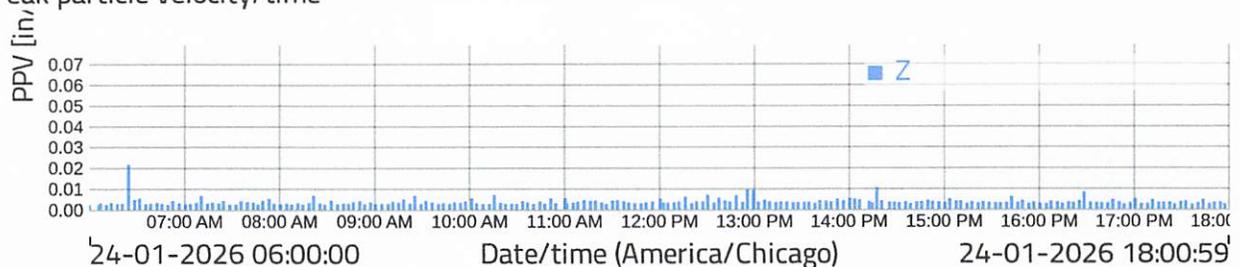
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

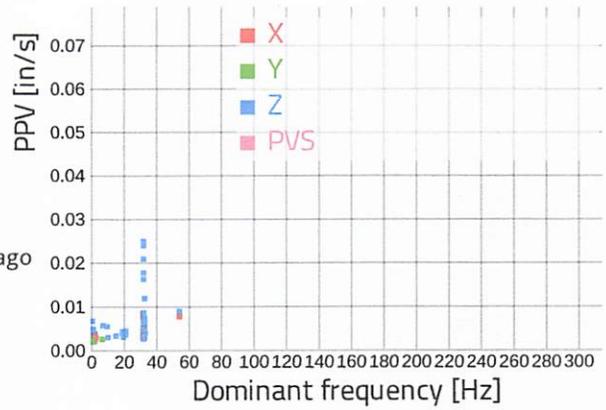


Project: LEOPARDO  
 Measuring point: 507 S BLVD  
 (SAPUGU)



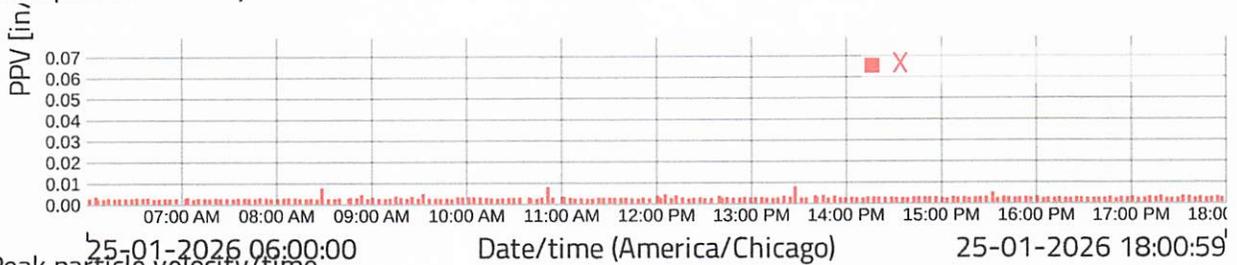
Calculate PPA (Peak particle acceleration) Off  
 Evaluation type Unspecified  
 Threshold for measurement storage 0.02 in/s  
 PPV flat line threshold 0.5 in/s  
 Guideline ISEE 250Hz  
 Measuring interval 6 seconds  
 Storage below threshold interval 60 seconds  
 Store values below threshold On  
 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

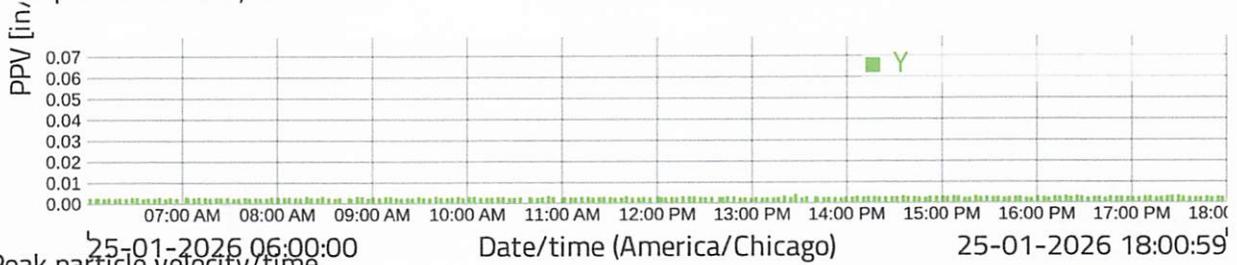


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Jan. 25, 2026 13:28:59	x	0.008	32.0
Jan. 25, 2026 13:28:59	y	0.004	1.5
Jan. 25, 2026 12:17:11	z	0.025	32.5

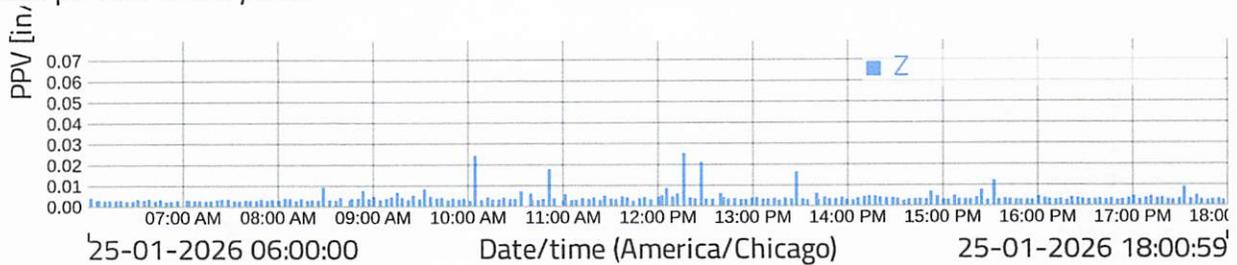
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time



**SN:** 3806 v3.22  
**Date:** 01/19/2026 **Time:** 14:13:00  
**Event:** 180  
**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
<b>PPV (in/s)</b>	0.013	0.013	0.013
<b>FREQ (Hz)</b>	5.1	3.8	2.9
<b>Peak Air Pressure:</b>	110 db		

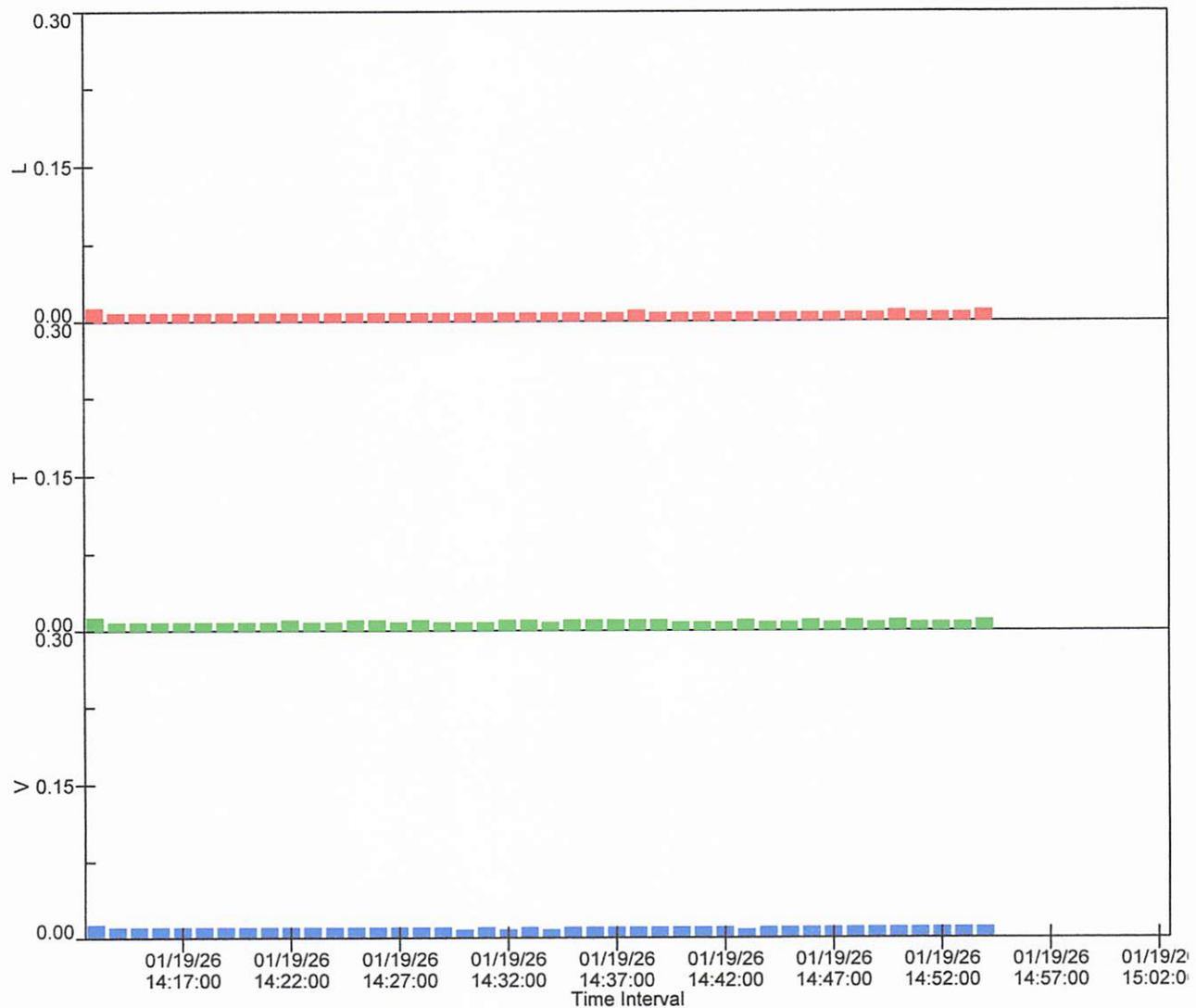
**Recording Time:** 42 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**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: 180

Record Max PPV: 0.013 in/s Record Max DB: 110 db



**SN:** 3806 v3.22  
**Date:** 01/20/2026 **Time:** 06:01:00  
**Event:** 181  
**Client:** LEOPARDO  
**Operation:** CONSTRUCTION  
**Location:** 504 S BLVD  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 424 S BLVD

**Continuous Monitor Recording  
Summary Data**

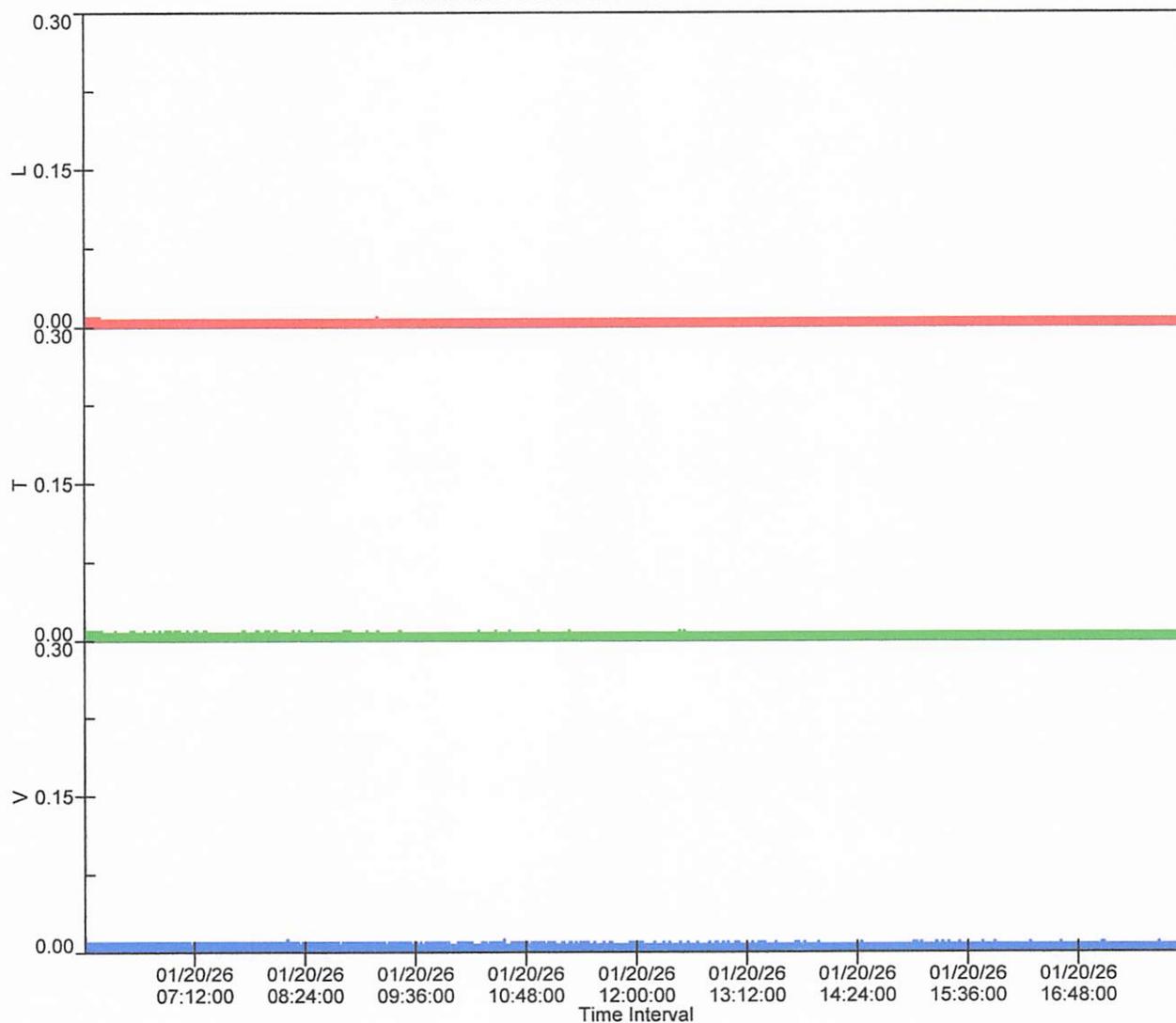
	L	T	V
<b>PPV (in/s)</b>	0.015	0.015	0.015
<b>FREQ (Hz)</b>	1.3	22.7	.6
<b>Peak Air Pressure:</b>	110 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**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: 181

Record Max PPV: 0.015 in/s Record Max DB: 110 db



**SN:** 3806 v3.22  
**Date:** 01/21/2026 **Time:** 06:01:00  
**Event:** 182  
**Client:** LEOPARDO  
**Operation:** CONSTRUCTION  
**Location:** 504 S BLVD  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 424 S BLVD

**Continuous Monitor Recording  
Summary Data**

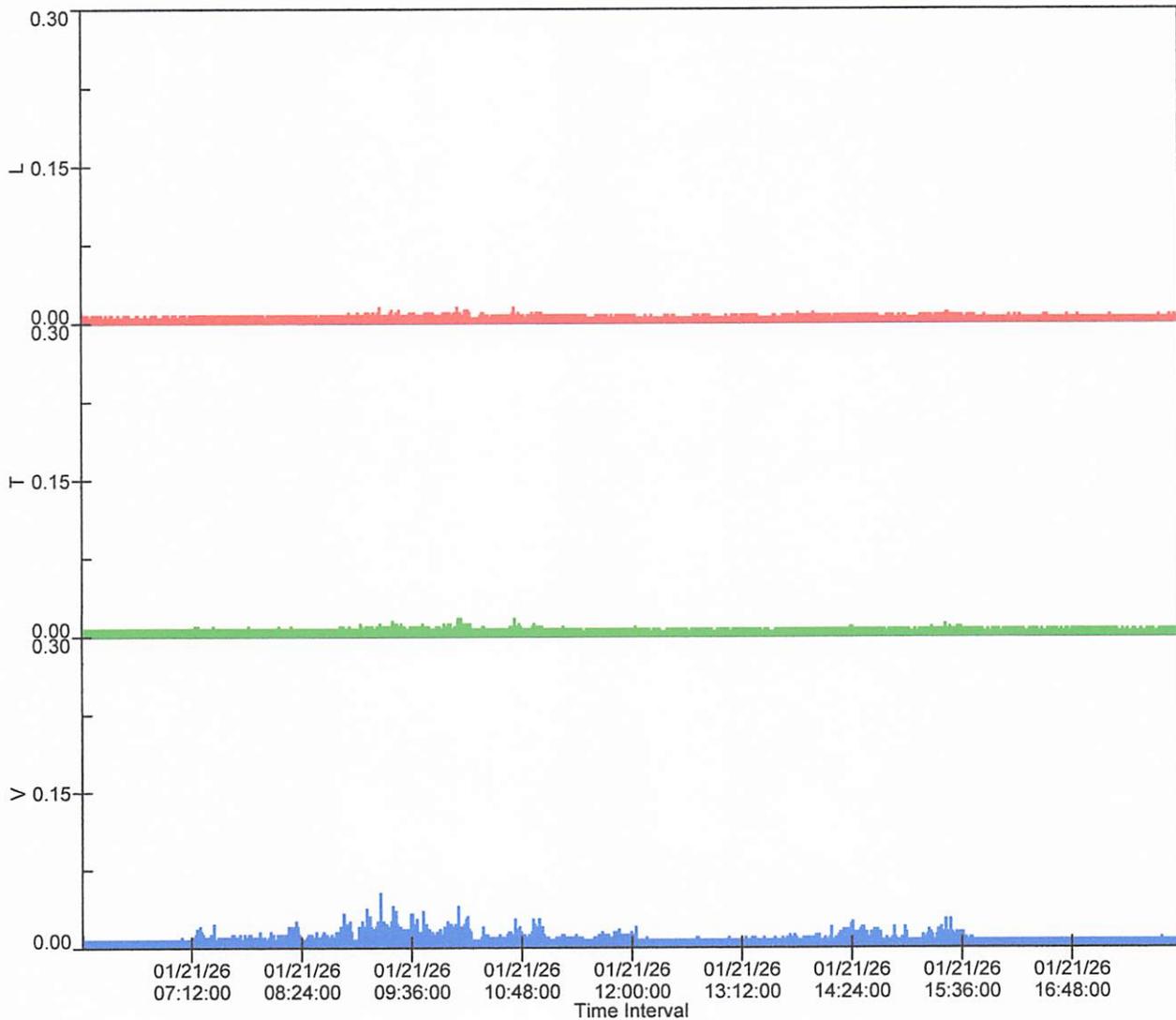
	L	T	V
<b>PPV (in/s)</b>	0.015	0.018	0.053
<b>FREQ (Hz)</b>	23.8	16.7	33.3
<b>Peak Air Pressure:</b>	103 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**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: 182

Record Max PPV: 0.053 in/s Record Max DB: 103 db



**SN:** 3806 v3.22  
**Date:** 01/22/2026 **Time:** 06:01:00  
**Event:** 183  
**Client:** LEOPARDO  
**Operation:** CONSTRUCTION  
**Location:** 504 S BLVD  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 424 S BLVD

**Continuous Monitor Recording  
Summary Data**

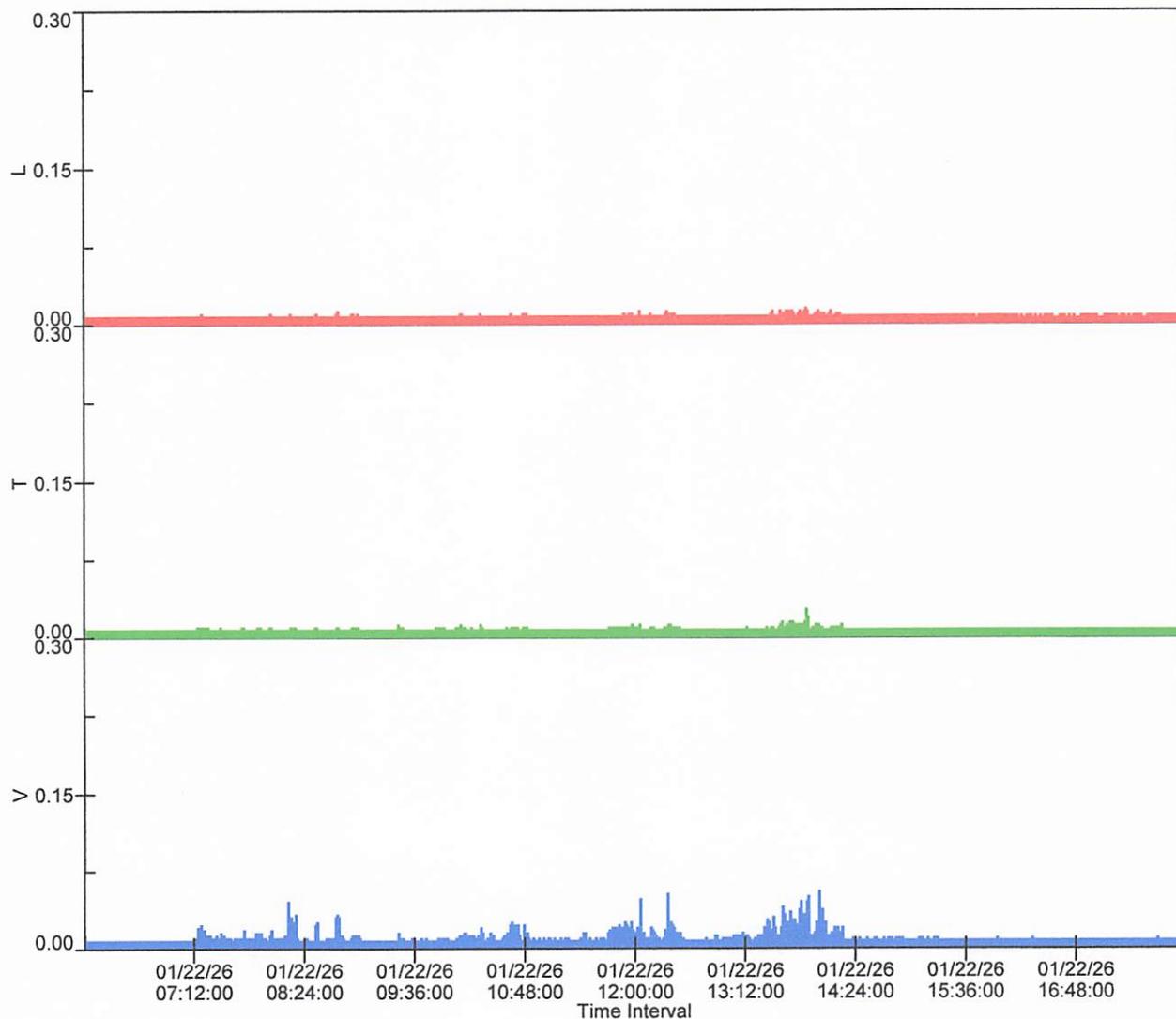
	L	T	V
<b>PPV (in/s)</b>	0.015	0.028	0.055
<b>FREQ (Hz)</b>	8.5	18.5	17.9
<b>Peak Air Pressure:</b>	106 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**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: 183

Record Max PPV: 0.055 in/s Record Max DB: 106 db



**SN:** 3806 v3.22  
**Date:** 01/23/2026 **Time:** 06:01:00  
**Event:** 184  
**Client:** LEOPARDO  
**Operation:** CONSTRUCTION  
**Location:** 504 S BLVD  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 424 S BLVD

**Continuous Monitor Recording  
Summary Data**

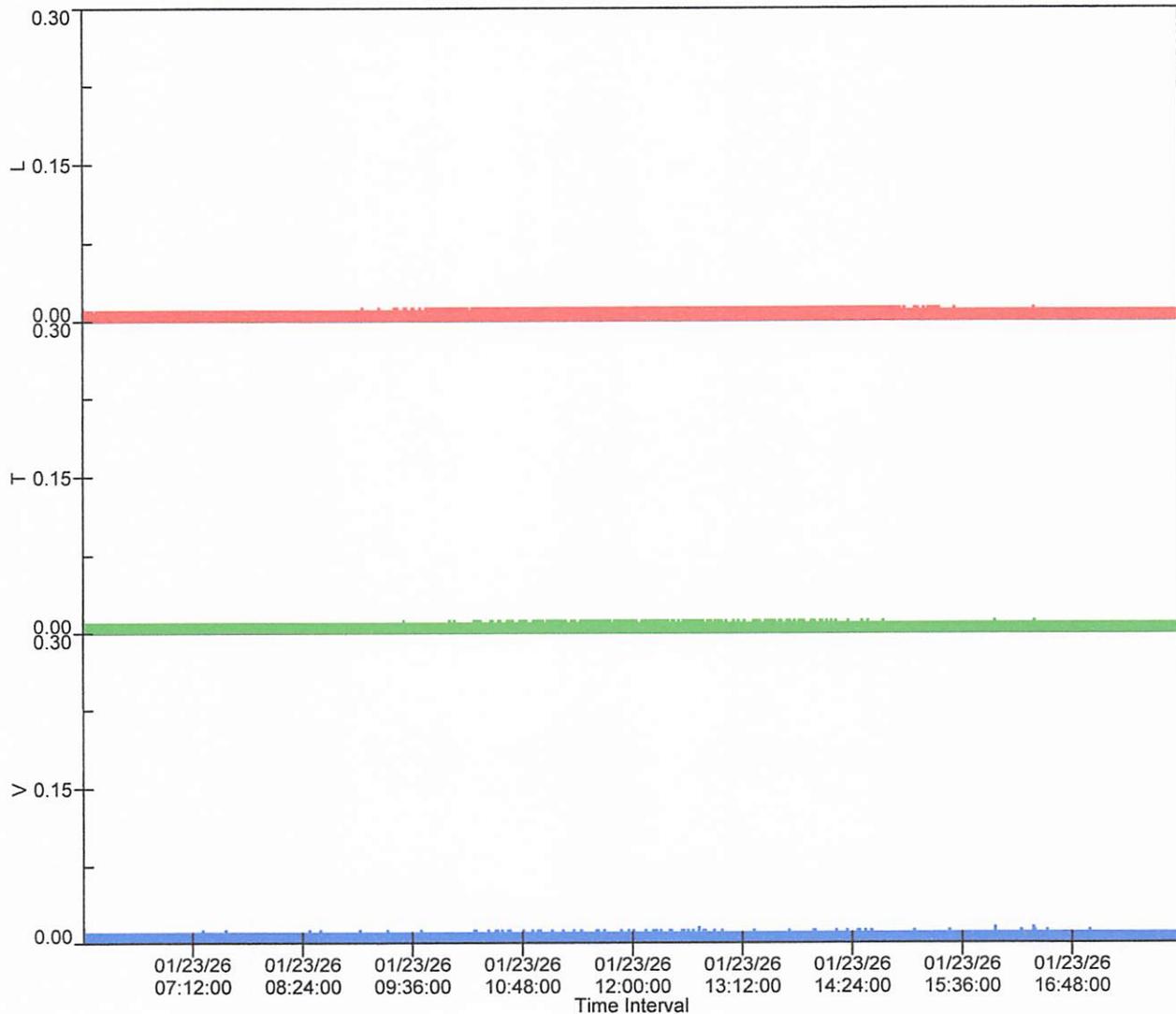
	L	T	V
<b>PPV (in/s)</b>	0.013	0.015	0.015
<b>FREQ (Hz)</b>	38.5	17.2	.3
<b>Peak Air Pressure:</b>	112 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**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: 184

Record Max PPV: 0.015 in/s Record Max DB: 112 db



**SN:** 3806 v3.22  
**Date:** 01/24/2026 **Time:** 06:01:00  
**Event:** 185  
**Client:** LEOPARDO  
**Operation:** CONSTRUCTION  
**Location:** 504 S BLVD  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 424 S BLVD

**Continuous Monitor Recording  
Summary Data**

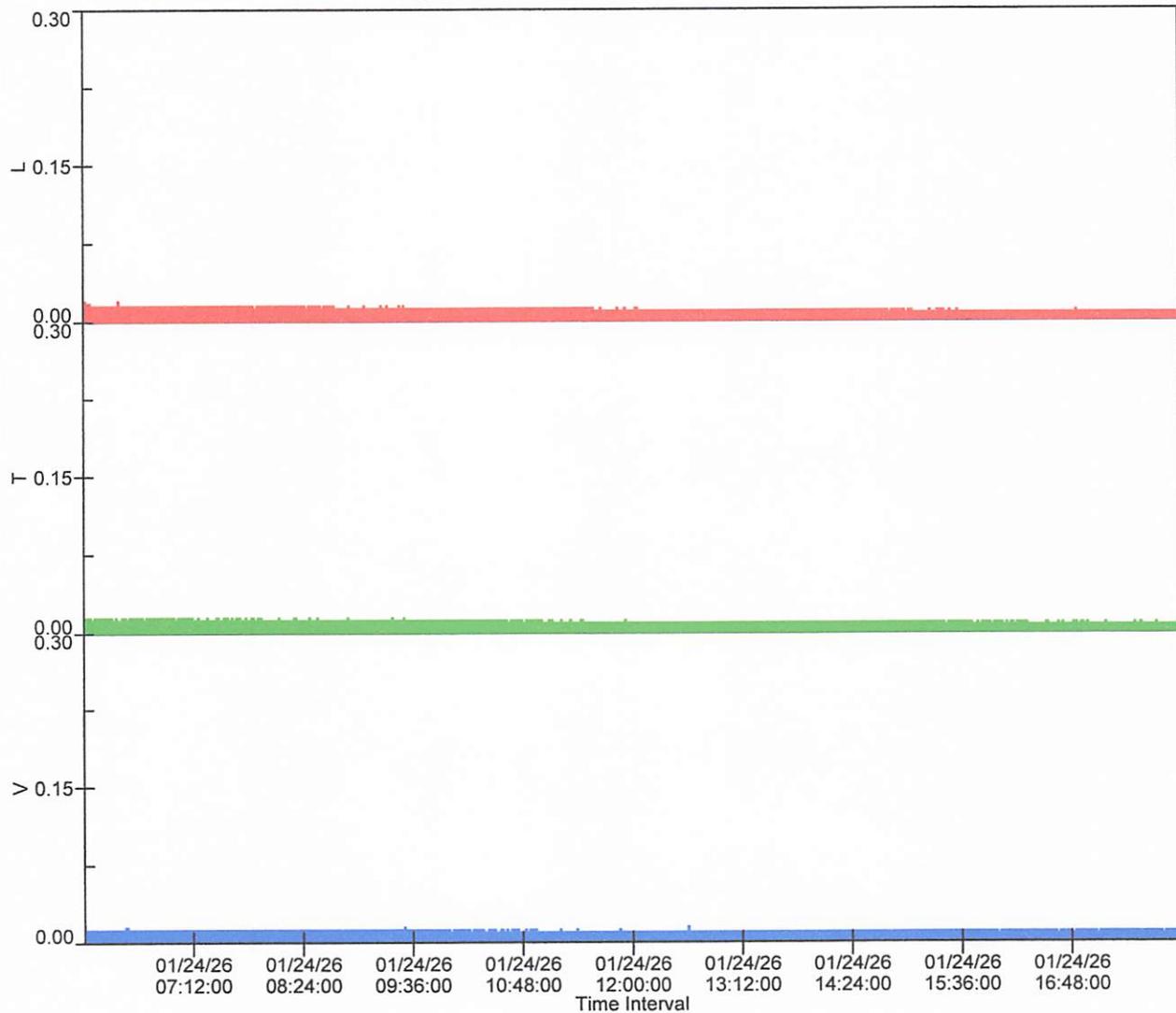
	L	T	V
<b>PPV (in/s)</b>	0.020	0.015	0.018
<b>FREQ (Hz)</b>	166.7	125.0	26.3
<b>Peak Air Pressure:</b>	112 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**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: 185

Record Max PPV: 0.020 in/s Record Max DB: 112 db



**SN:** 3806 v3.22  
**Date:** 01/25/2026 **Time:** 06:01:00  
**Event:** 186  
**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
<b>PPV (in/s)</b>	0.018	0.013	0.033
<b>FREQ (Hz)</b>	125.0	2.3	166.7
<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:** 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: 186

Record Max PPV: 0.033 in/s Record Max DB: 107 db

