

File Names

09:53 Monday, March 21, 2005 1

File #	Original File Name
1	PAC2001_LNEL_S-L_PART-FATTY-ACIDS_20010816D15_V1.csv

Dataset Key Phrases

Data Exchange Standard Version	Principal Investigator Name--last first	Principal Investigator Affiliation	File Contents Description--short long	Sampling Interval As Reported in Main Table	Sampling Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym	Study Or Network Name	Country Code
NARSTO 2002/05/28 (2.301)	Li ; Dr. Shao-Meng	Air Quality Research Branch, Meteorological Service of Canada	PM25_FAT_ACIDS ; PM2.5 Fatty Acids	Variable interval	Variable frequency	1	ENVCAN	Environment Canada	Meteorological Service of Canada, Environment Canada, 4905 Dufferin St., Toronto, Ont. Canada M3H 5T4	PAC2001	Pacific 2001	CA (CANADA)

State Or Province Code	Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation	Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File	Companion File Name format And Version	Date This File Generated archive Version Number	Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note
BC	Dr. Shao-Meng Li, 4905 Dufferin St., Toronto ON, CANADA, M3H 5T4 Shao-Meng.Li@ec.gc.ca	Cheng ; Dr. Yu	Air Quality Research Branch, Meteorological Service of Canada	Greg Skelton, SKELTON TECHNICAL SERVICES INC	2003/09/05	MS Excel/ 2000	None ; 0	2004/10/28 ; 1	Zero values represent values less than detection limit	None	None	None

Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
None			PM25_FAT_ACIDS	Surface--fixed

Site Information

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	Site land use	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
PC01CABCLNEL	Langley	BC	49.028900	-122.602500	2.0	94.0	Agricultural	Rural	2001/08/15	2001/08/31			.

NARSTO Standard Flags

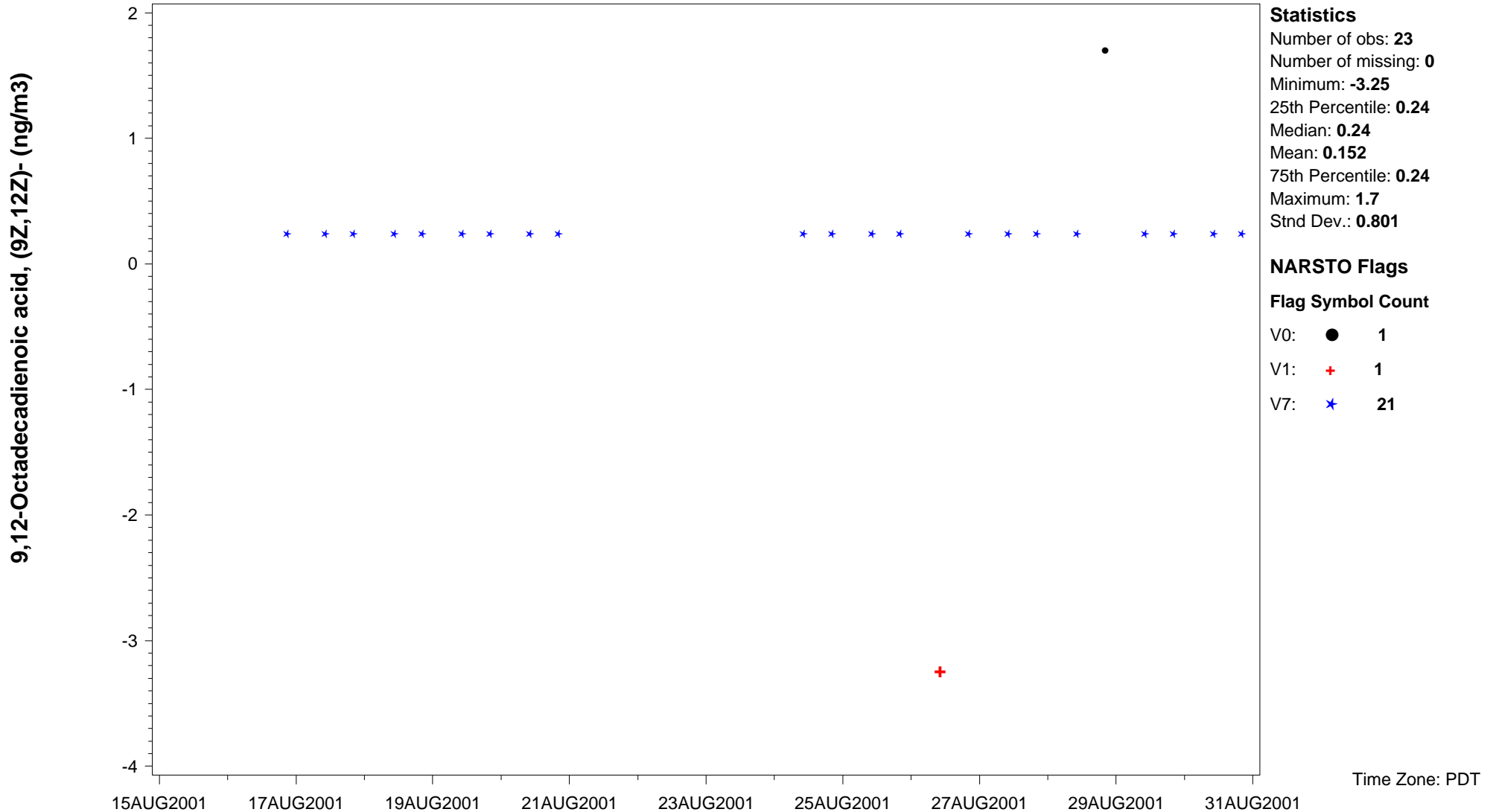
Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
V3	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **9,12-Octadecadienoic acid, (9Z,12Z)-** Common Name: **Linoleic acid** Units: **ng/m3**
 Sampling interval: **Variable interval** Sampling frequency: **Variable frequency** CAS ID: **C60-33-3** Observation type: **Particles**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone**
 Laboratory analytical method: **GC** Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure**
 Sampling Height above ground (m): **2** Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H**
 Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**



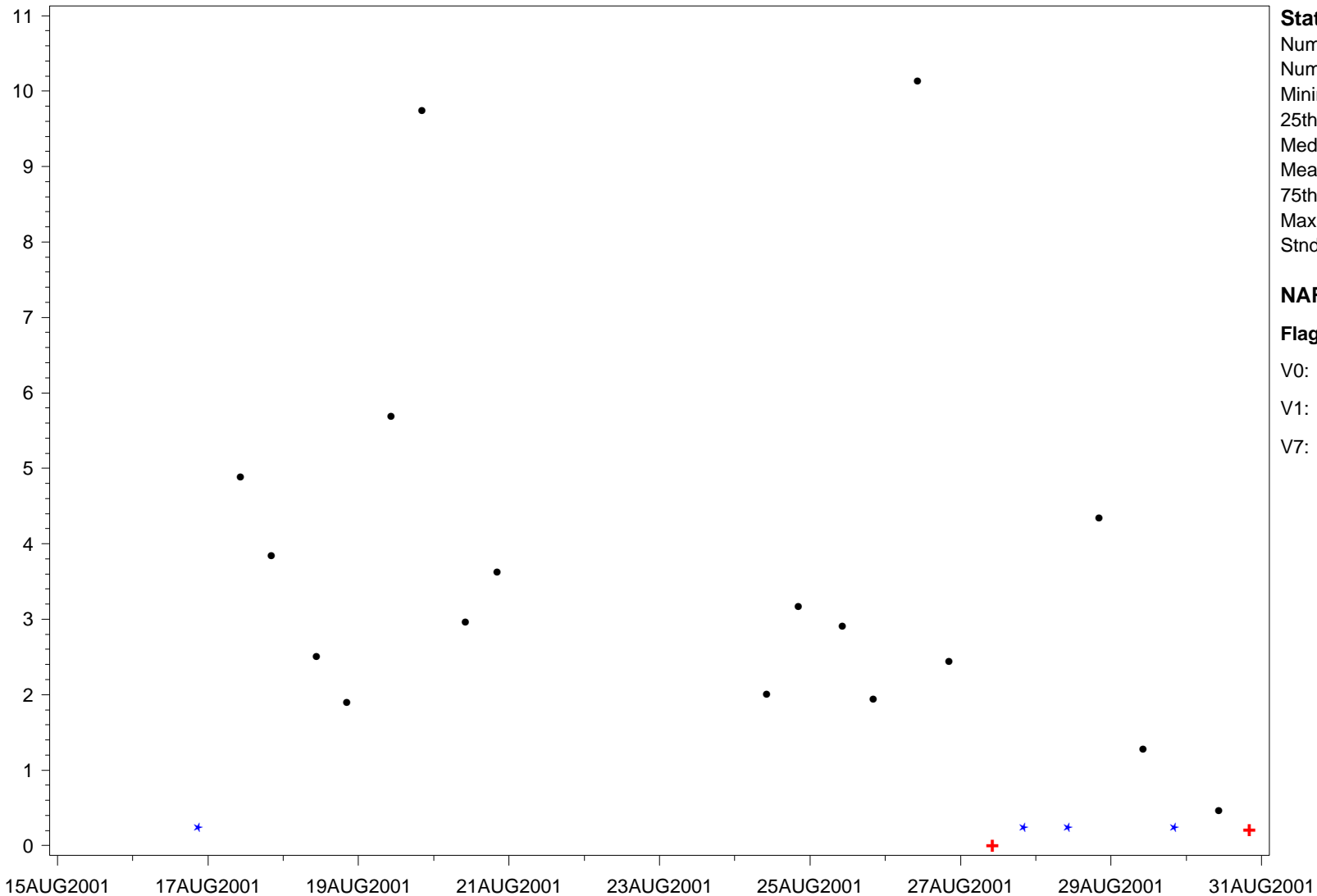
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **9-Octadecenoic acid (9Z)- and 9-Octadecenoic acid, (E)-** Common Name: **cis+trans-9-Octadecenoic acid** Units: **ng/m3**
 Sampling interval: **Variable interval** Sampling frequency: **Variable frequency** CAS ID: **C112-80-1+C112-79-8** Observation type: **Particles**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone**
 Laboratory analytical method: **GC** Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure**
 Sampling Height above ground (m): **2** Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H**
 Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

9-Octadecenoic acid (9Z)- and 9-Octadecenoic acid, (E)- (ng/m3)



Statistics

Number of obs: **23**
 Number of missing: **0**
 Minimum: **0**
 25th Percentile: **0.24**
 Median: **2.44**
 Mean: **2.825**
 75th Percentile: **3.84**
 Maximum: **10.13**
 Std Dev.: **2.778**

NARSTO Flags

Flag Symbol Count

V0:	●	17
V1:	+	2
V7:	*	4

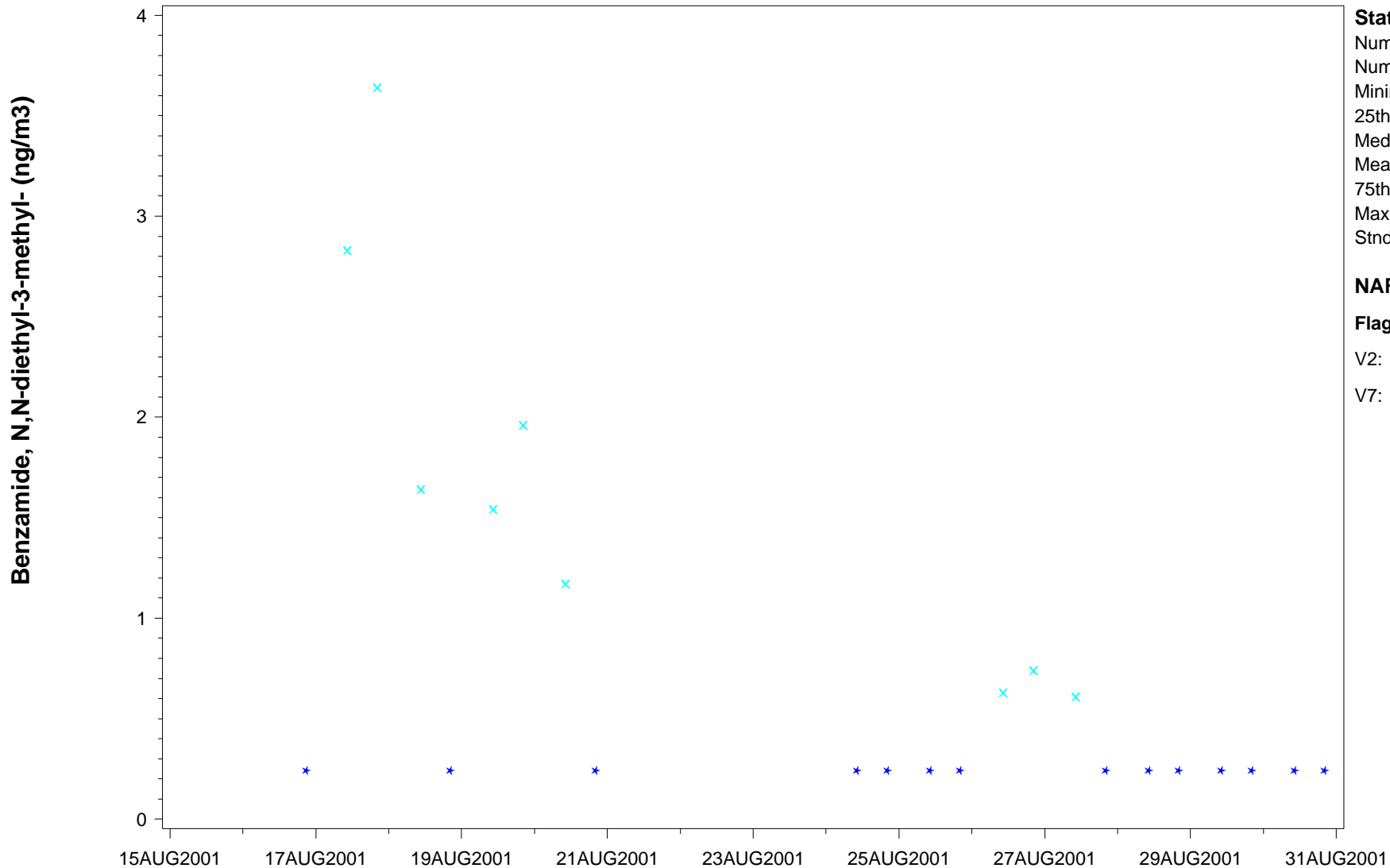
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Benzamide, N,N-diethyl-3-methyl-** Common Name: **N,N-Diethyl-m-toluamide** Units: **ng/m3**
 Sampling interval: **Variable interval** Sampling frequency: **Variable frequency** CAS ID: **C134-62-3** Observation type: **Particles**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone**
 Laboratory analytical method: **GC** Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure**
 Sampling Height above ground (m): **2** Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H**
 Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**



Statistics
 Number of obs: **23**
 Number of missing: **0**
 Minimum: **0.24**
 25th Percentile: **0.24**
 Median: **0.24**
 Mean: **0.788**
 75th Percentile: **1.17**
 Maximum: **3.64**
 Std Dev.: **0.939**

NARSTO Flags
Flag Symbol Count
 V2: **x 9**
 V7: *** 14**

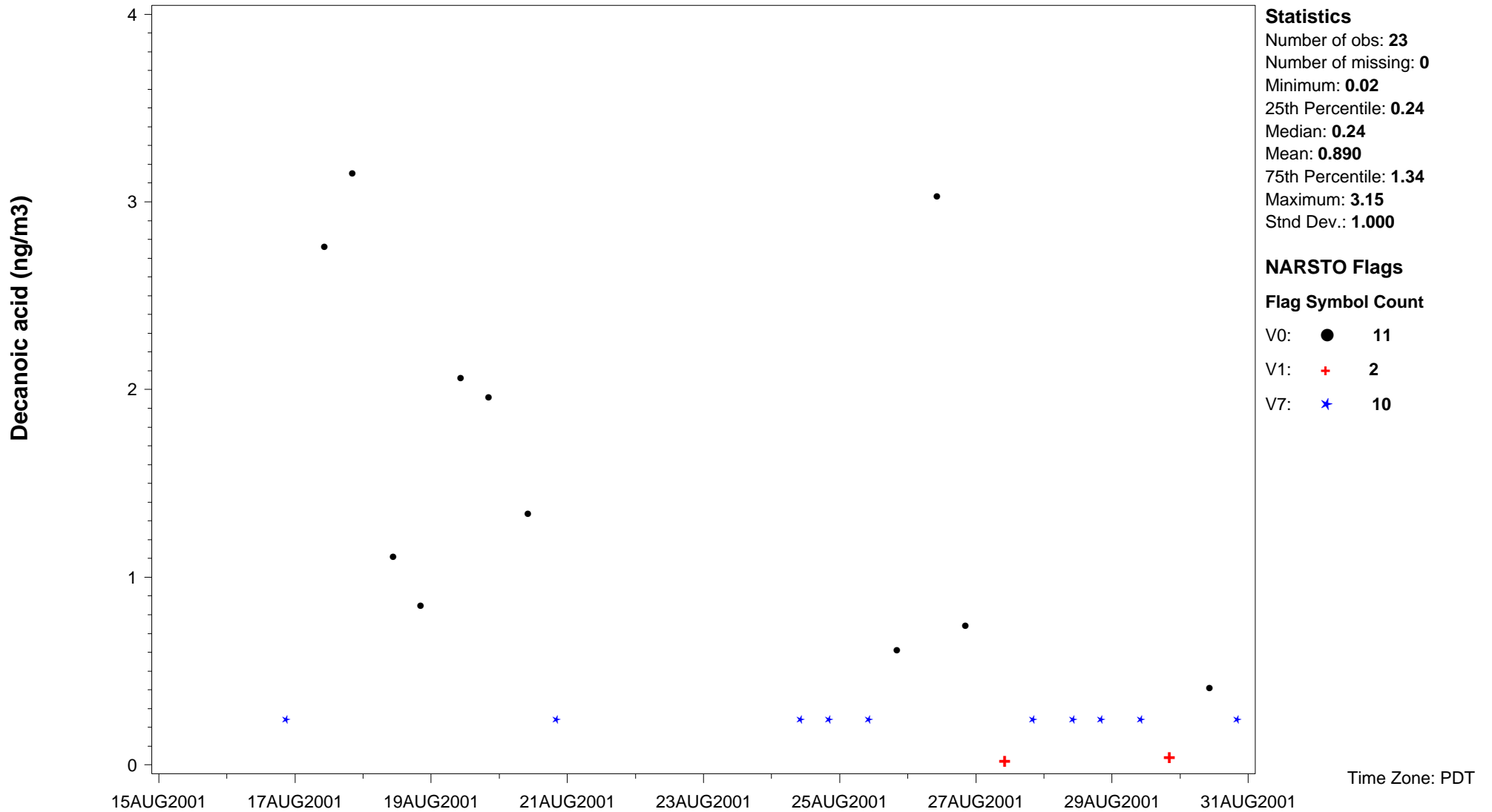
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Decanoic acid** Common Name: **n-Decanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C334-48-5** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

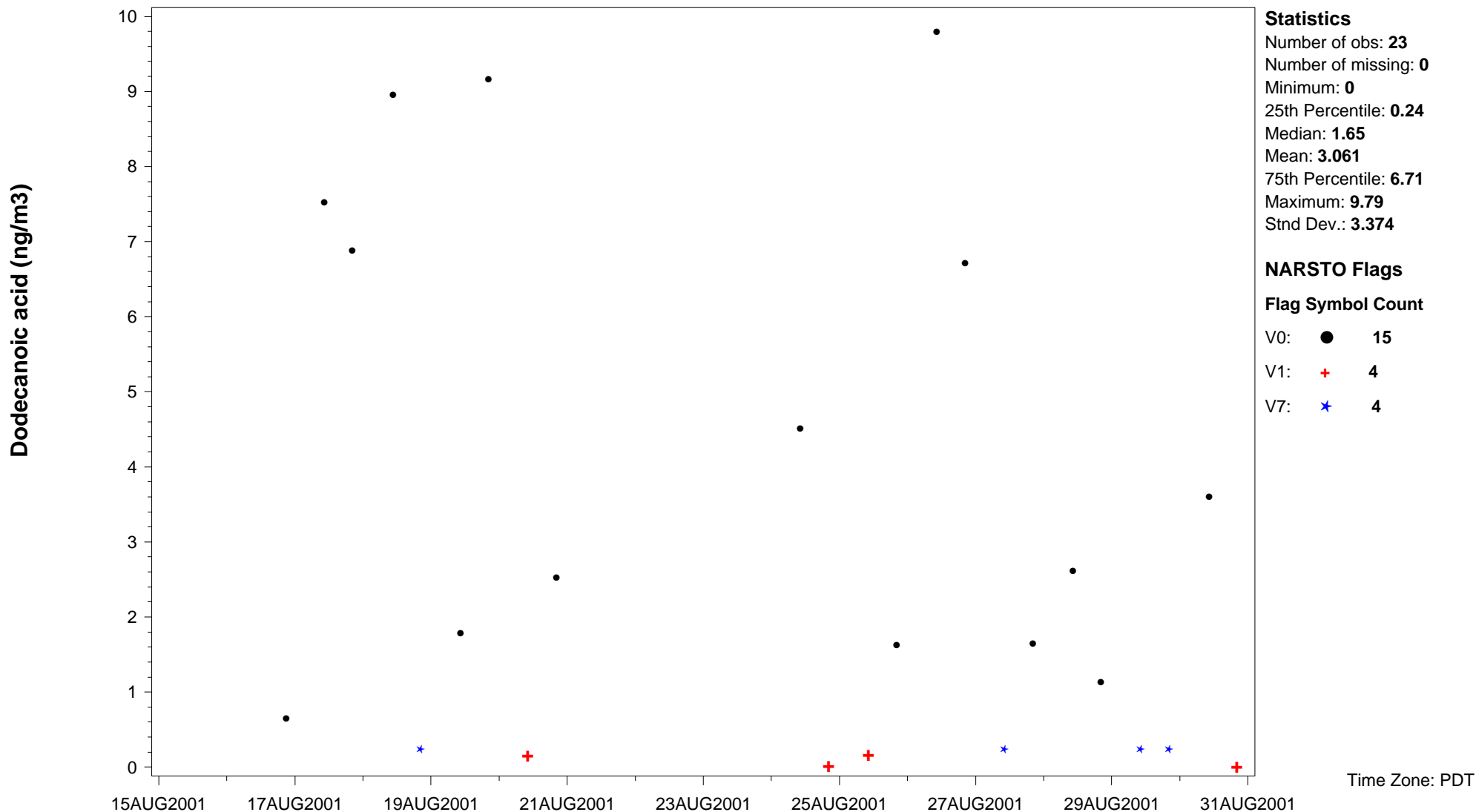


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Dodecanoic acid** Common Name: **n-Dodecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C143-07-7** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

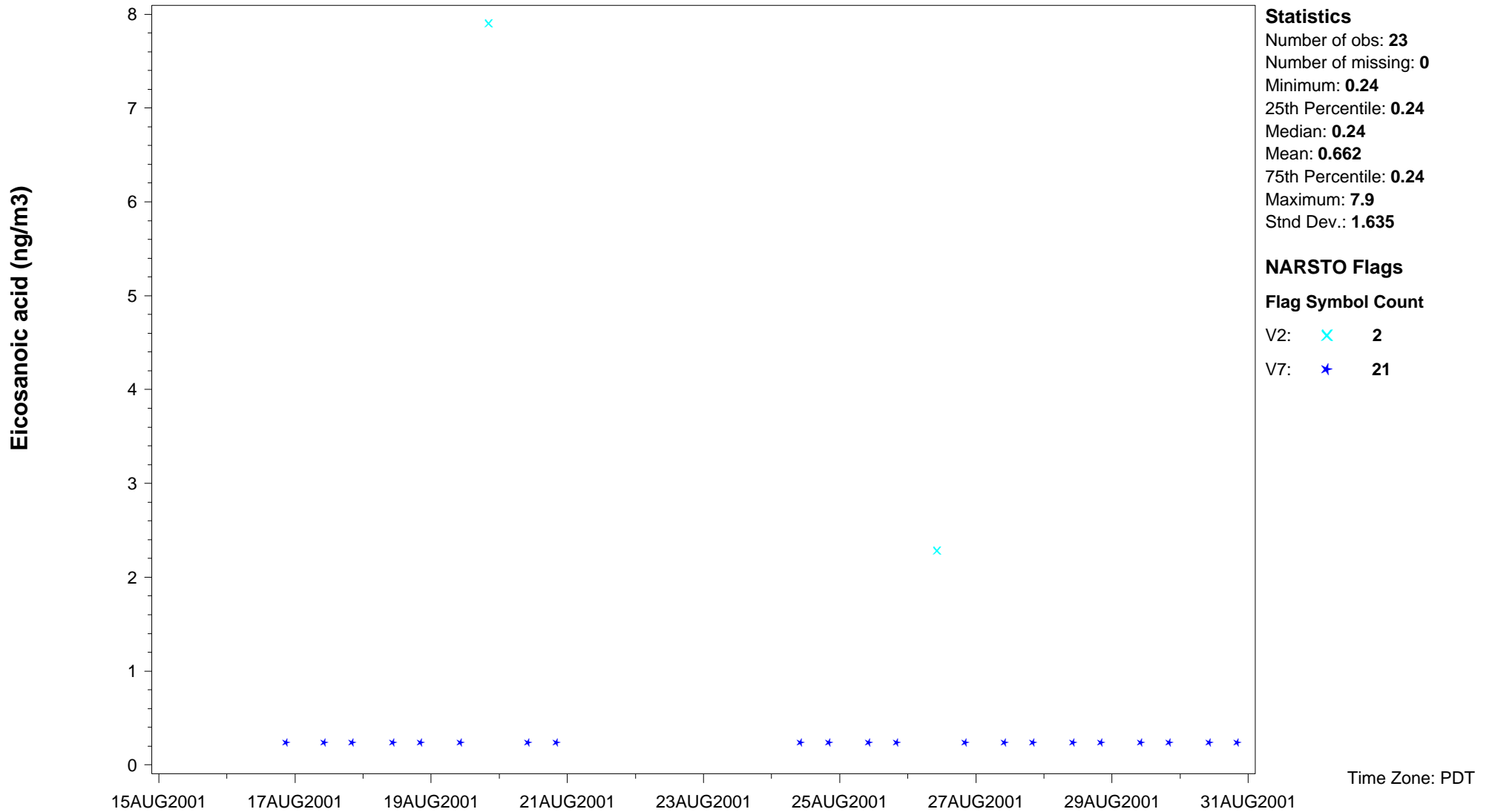


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Eicosanoic acid** Common Name: **n-Eicosanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C506-30-9** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

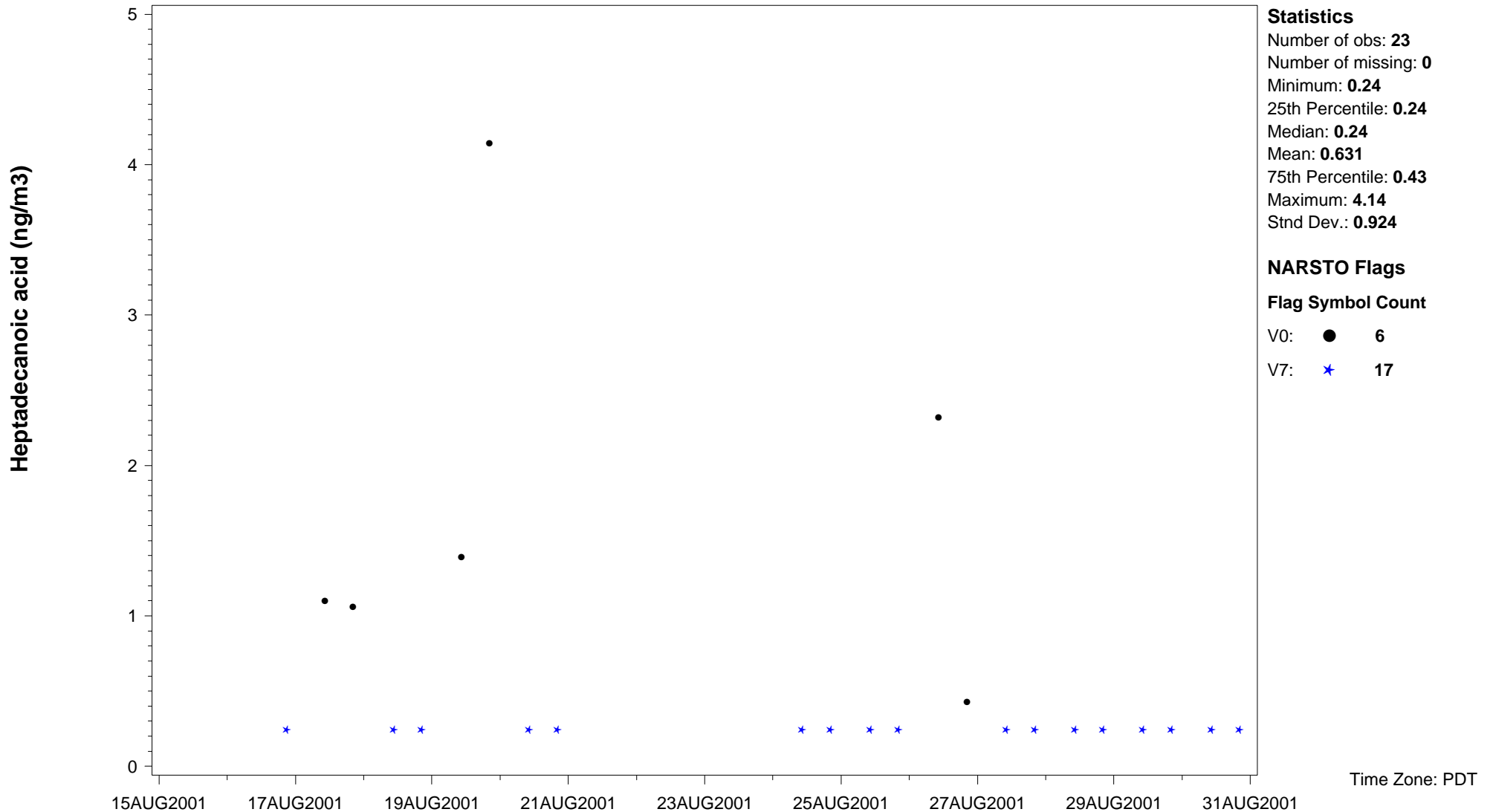


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Heptadecanoic acid** Common Name: **n-Heptadecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C506-12-7** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

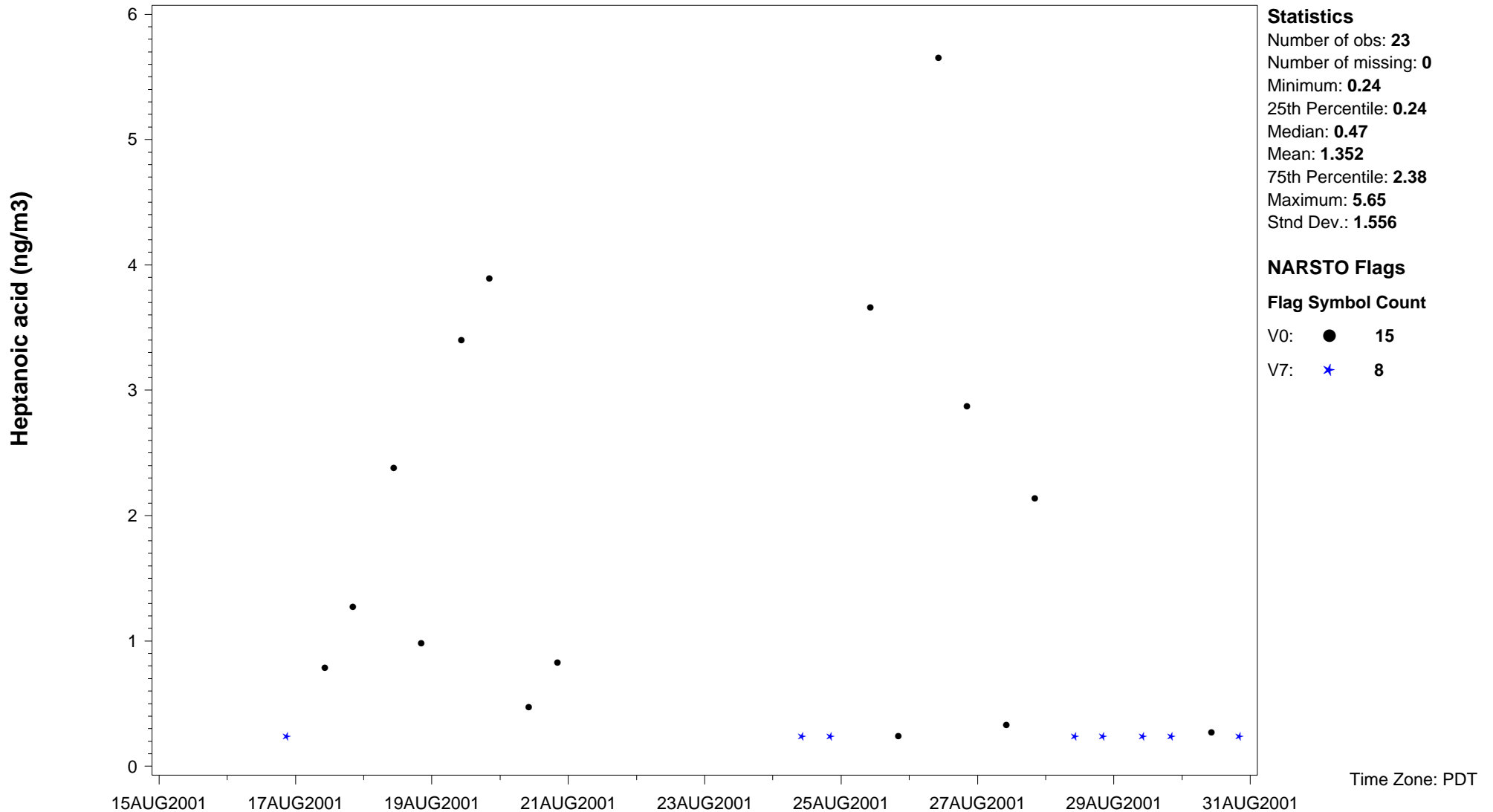


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Heptanoic acid** Common Name: **Heptanoic acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C111-14-8** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

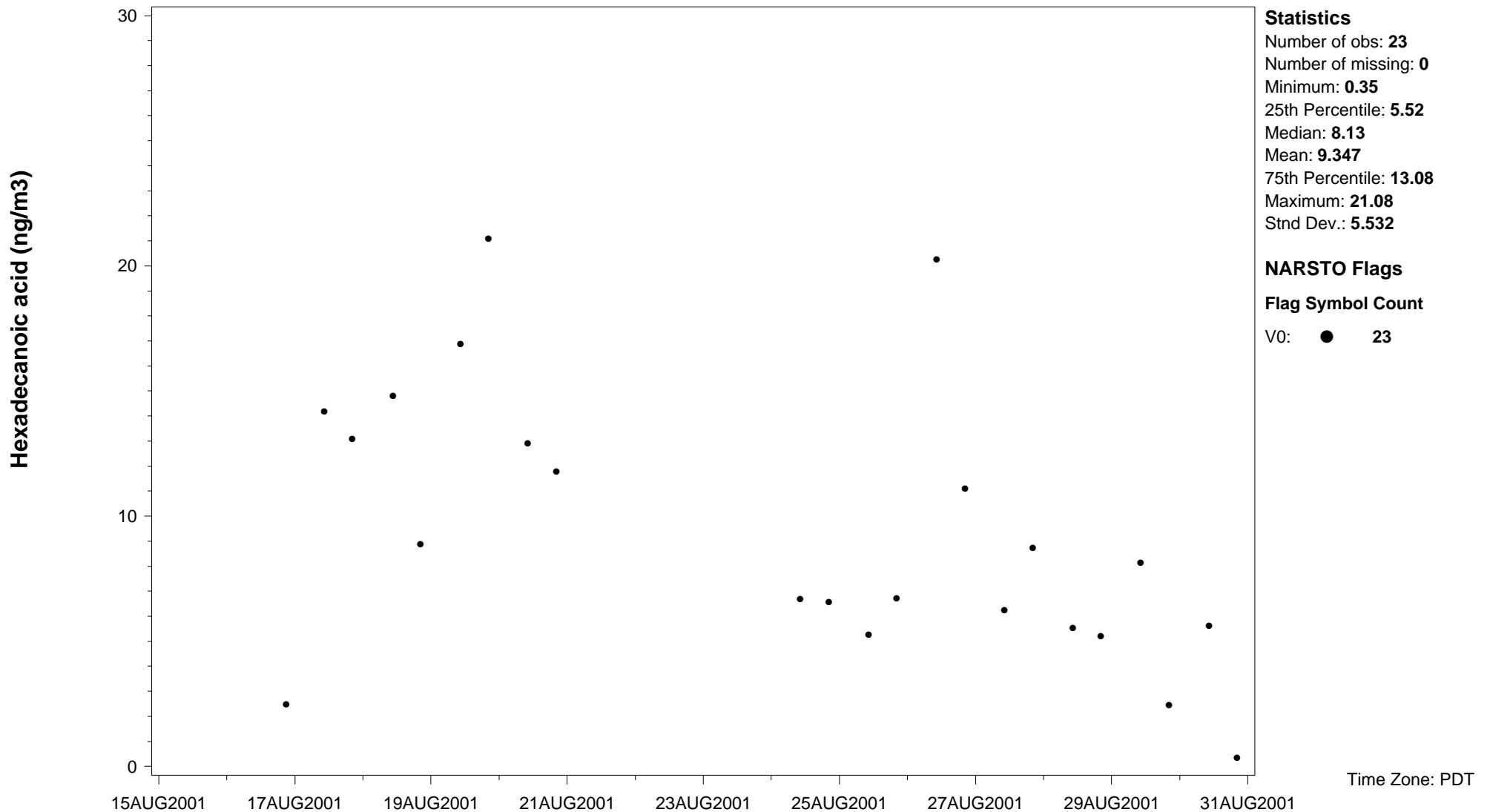


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Hexadecanoic acid** Common Name: **n-Hexadecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C57-10-3** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

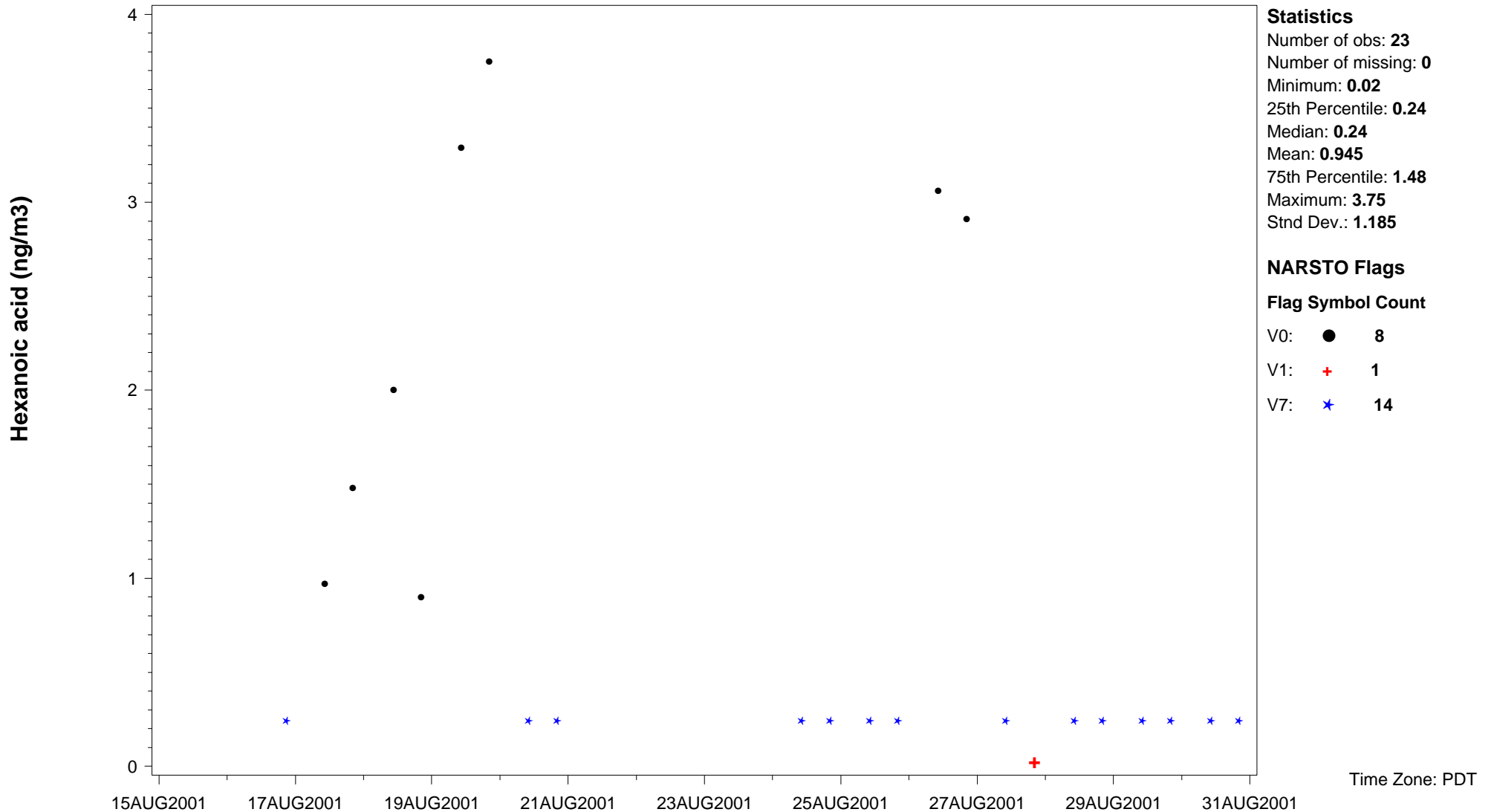


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Hexanoic acid** Units: **ng/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C142-62-1** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter**
 Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

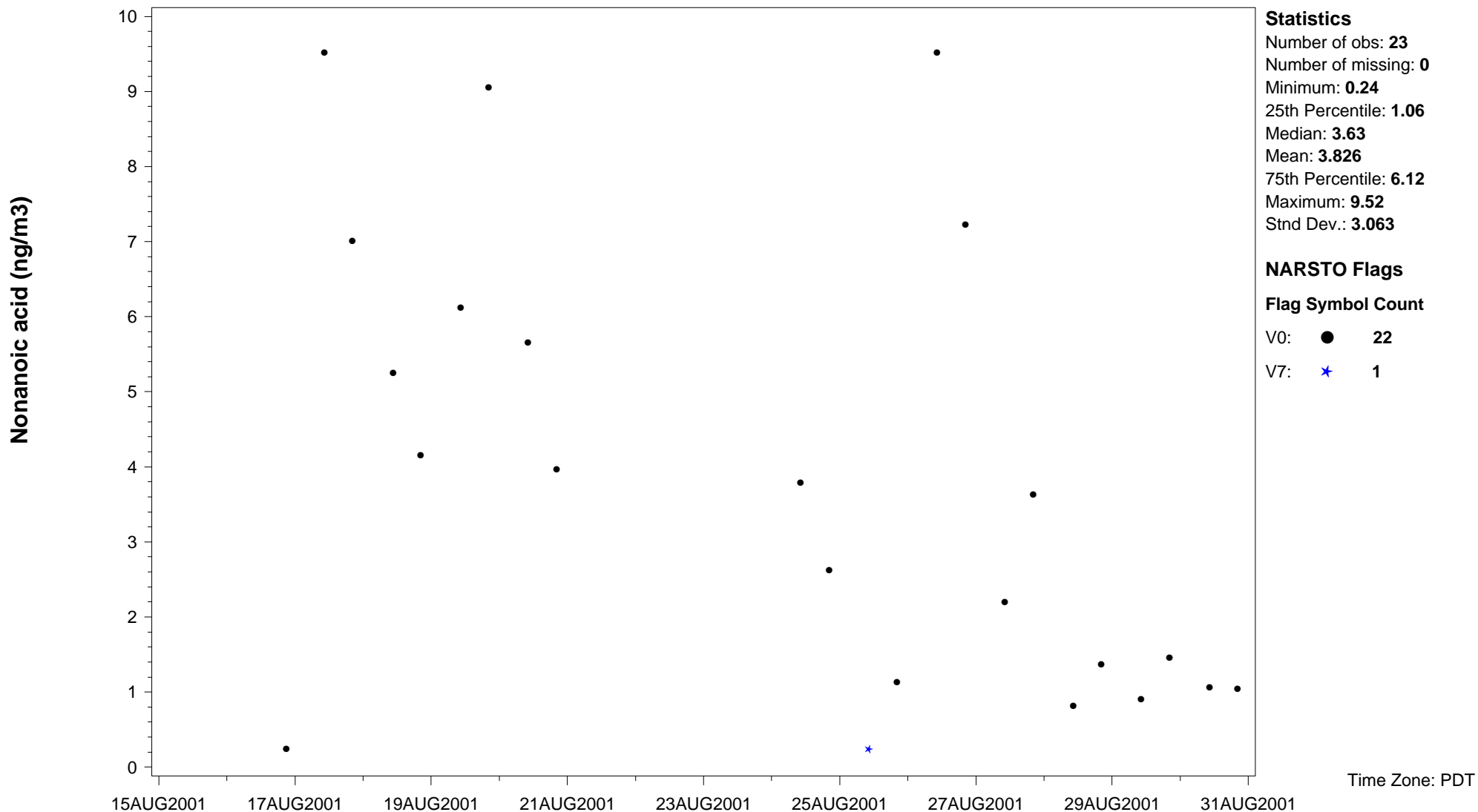


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLNEL** Variable name: **Nonanoic acid** Common Name: **n-Nonanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C112-05-0** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

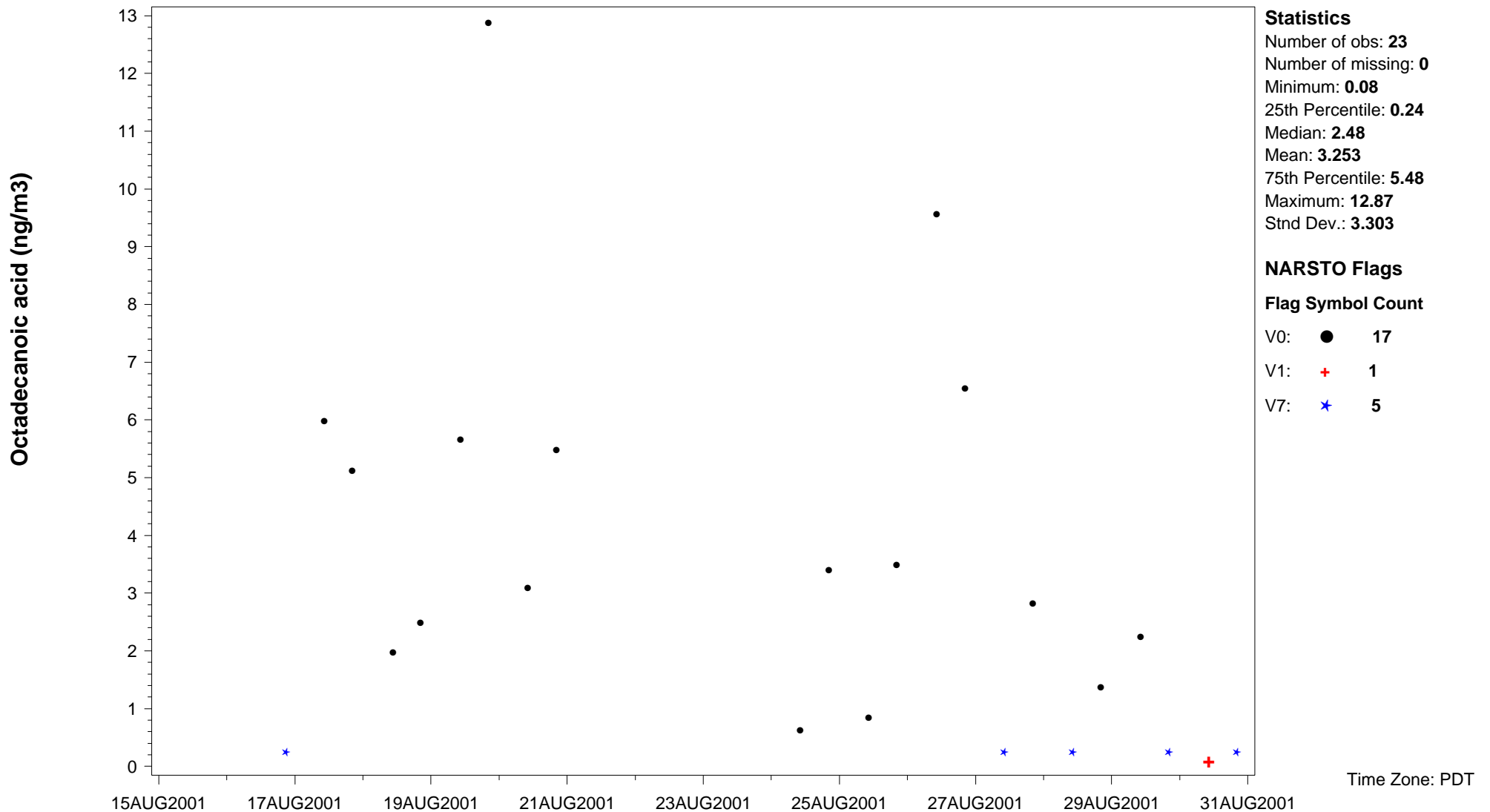


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Octadecanoic acid** Common Name: **n-Octadecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C57-11-4** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

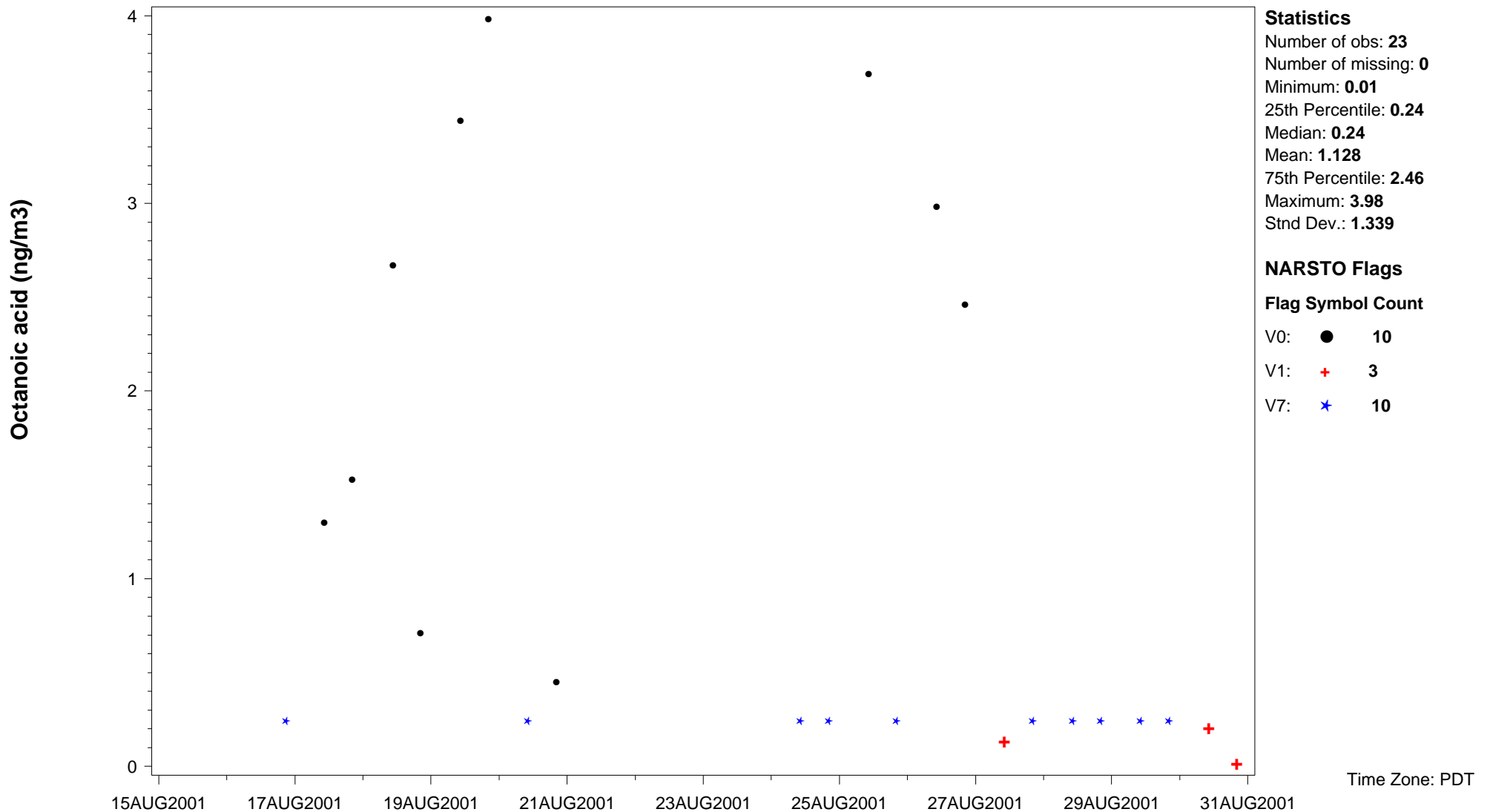


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Octanoic acid** Common Name: **n-Octanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C124-07-2** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

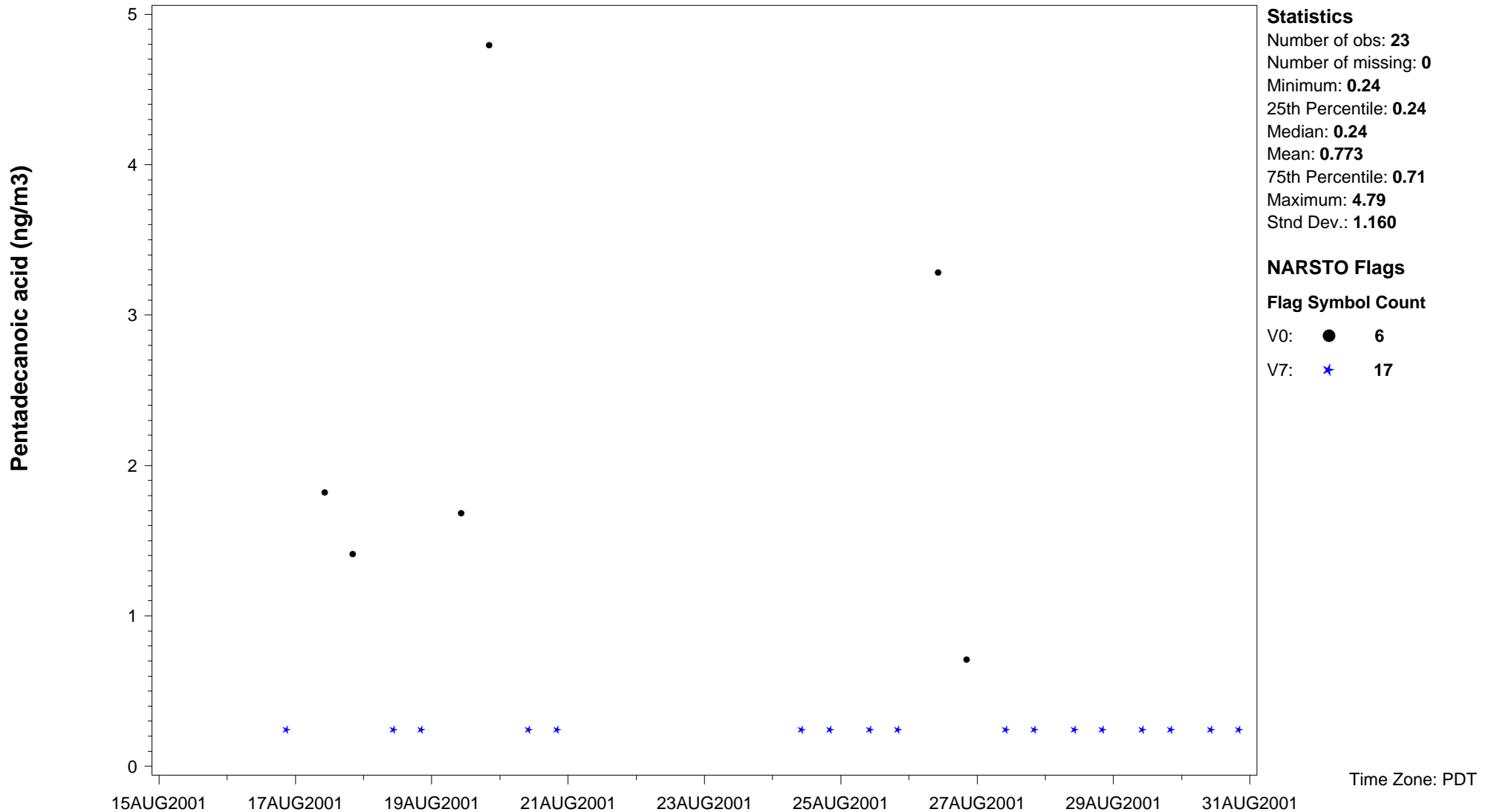


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Pentadecanoic acid** Common Name: **n-Pentadecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C1002-84-2** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

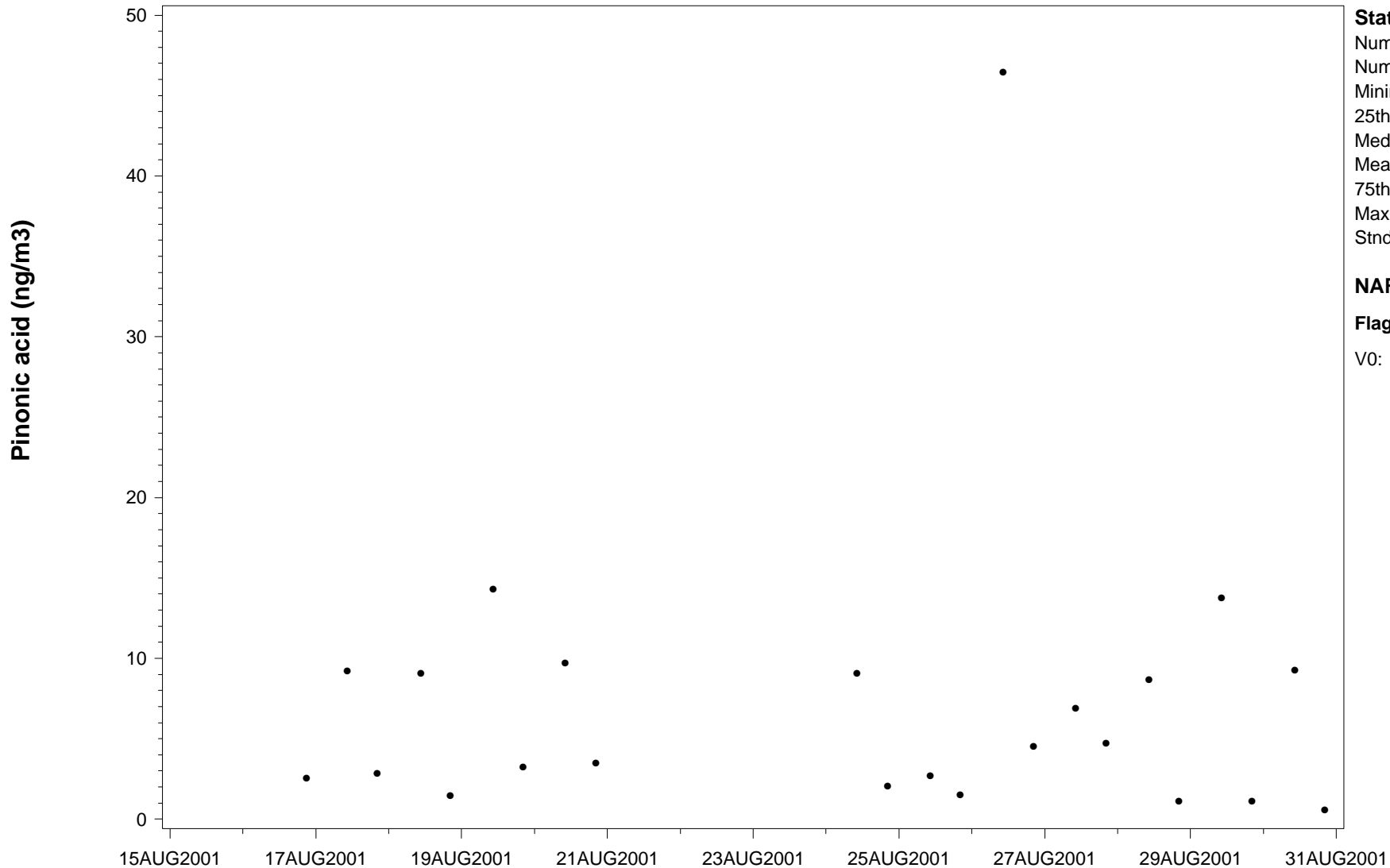


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Pinonic acid** Common Name: **cis-Pinonic acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C61826-55-9** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**



Statistics
 Number of obs: **23**
 Number of missing: **0**
 Minimum: **0.58**
 25th Percentile: **2.06**
 Median: **4.51**
 Mean: **7.323**
 75th Percentile: **9.24**
 Maximum: **46.45**
 Stnd Dev.: **9.464**

NARSTO Flags
Flag Symbol Count
 V0: ● **23**

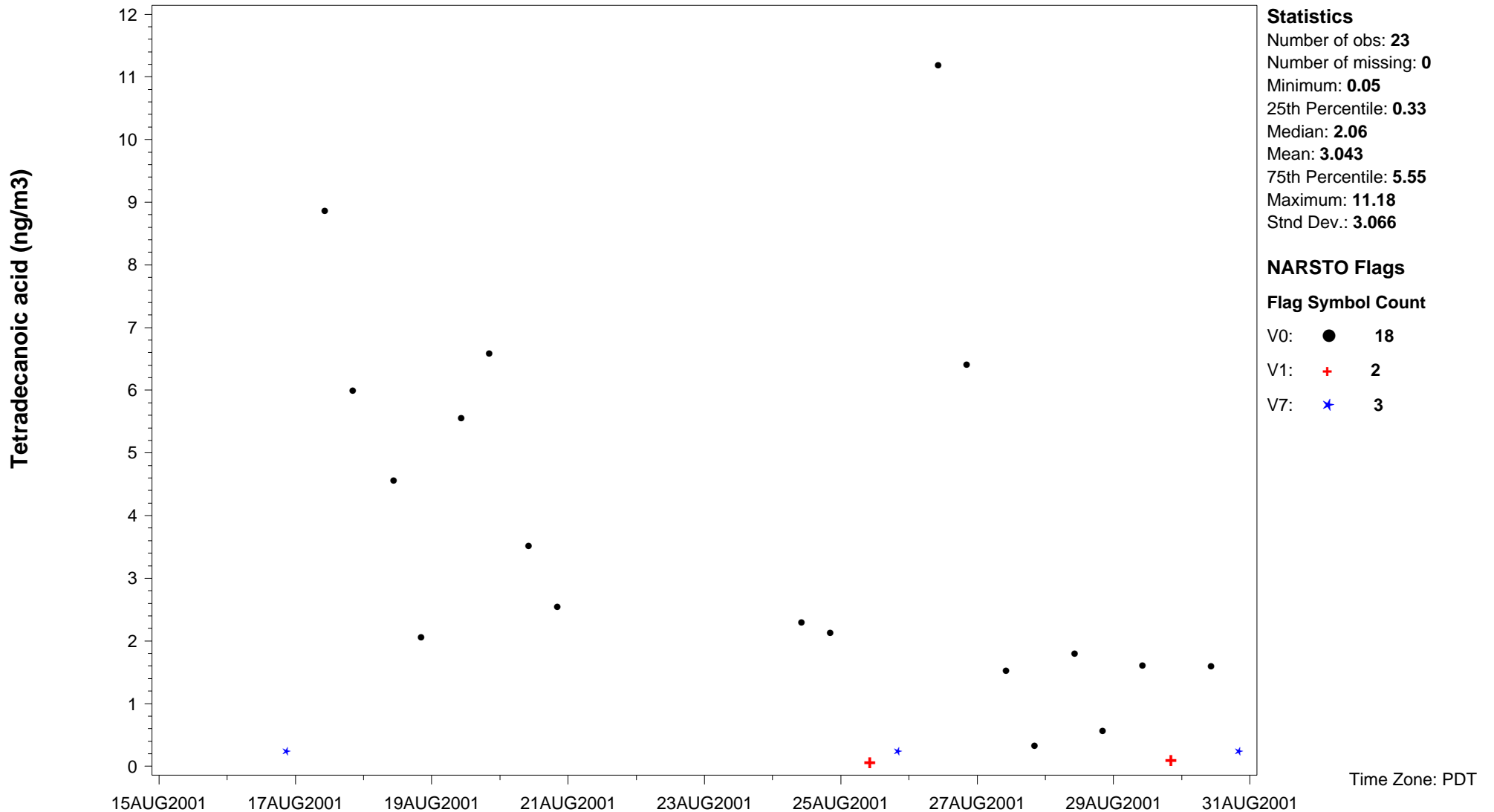
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Tetradecanoic acid** Common Name: **n-Tetradecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C544-63-8** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

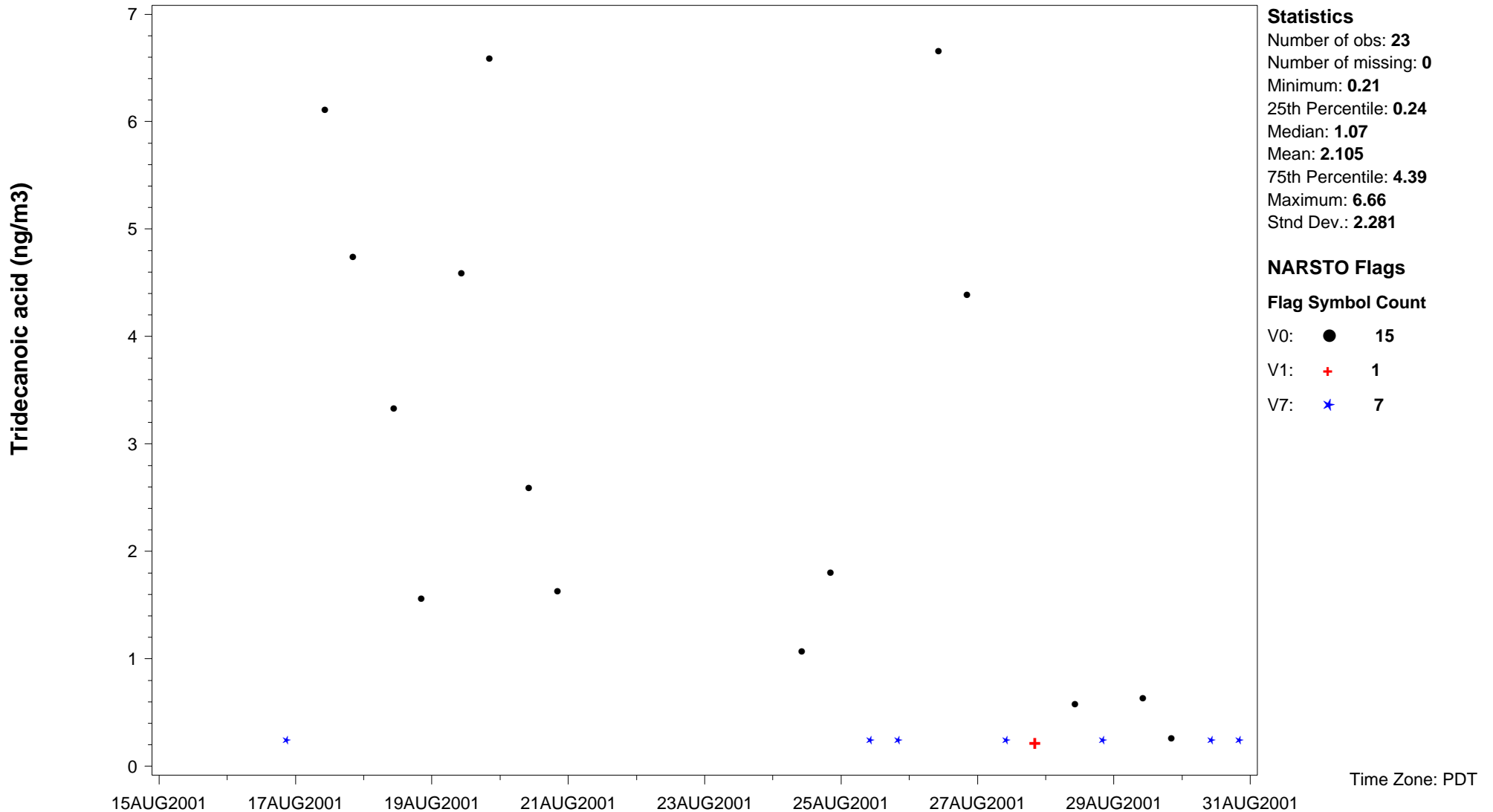


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Tridecanoic acid** Common Name: **n-Tridecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C638-53-9** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**



NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Undecanoic acid** Common Name: **n-Undecanoic Acid** Units: **ng/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C112-37-8** Observation type: **Particles** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Quartz** Inlet type: **Cyclone** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **2**
 Instrument name and model number: **Hivol sampler: General Metal Works Model 2000H** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **0.24**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-15** End Date: **2001-08-31**

