

# File Names

File #	Original File Name
1	PAC2001_LNEL_DKW_CARBOXYL_PART1_OF_1_20010813D19_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	State Or Province Code
NARSTO 2002/05/28 (2.301)	Wang ; Dr. Daniel	Analysis and Air Quality Division, EPS, EC	Carbonyl ; Carbonyl Gas Phase Measurements	3 hour	Same as sampling interval	1	ENVCAN	Environment Canada	Environment Canada, AAQD, ETC, Ottawa, ON Canada K1A 0H3	PAC2001	Pacific 2001	CA	ON

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
Dr. D. Wang, ETC, 335 River Road, Ottawa, ON K1A 0H3 daniel.wang@ec.gc.ca	Dann ; Thomas	Analysis and Air Quality Division, EPS, EC	Tom Dann, Environment Canada	2002/01/16	MS Excel/2000		2002/07/17 ; 1	No zero values or negative values appear in the data in this file.

Table Explanation Of Reported Detection Limit Values							Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
1) The laboratory reported all measured values above zero. Those values below detection limit are flagged as V1 (Valid value but comprised wholly or partially of below detection limit data).2) Zeroand negative values have been replaced by the detection limit value for that analytical run and flagged V7 (Valid value but set equal to the detection limit (DL) because the measured value was equal to or below zero).							In development					VOC SPECIES	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	3.0	80.0	Agricultural	Rural	2001/08/10	2001/09/01	None	LNE	.

## 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

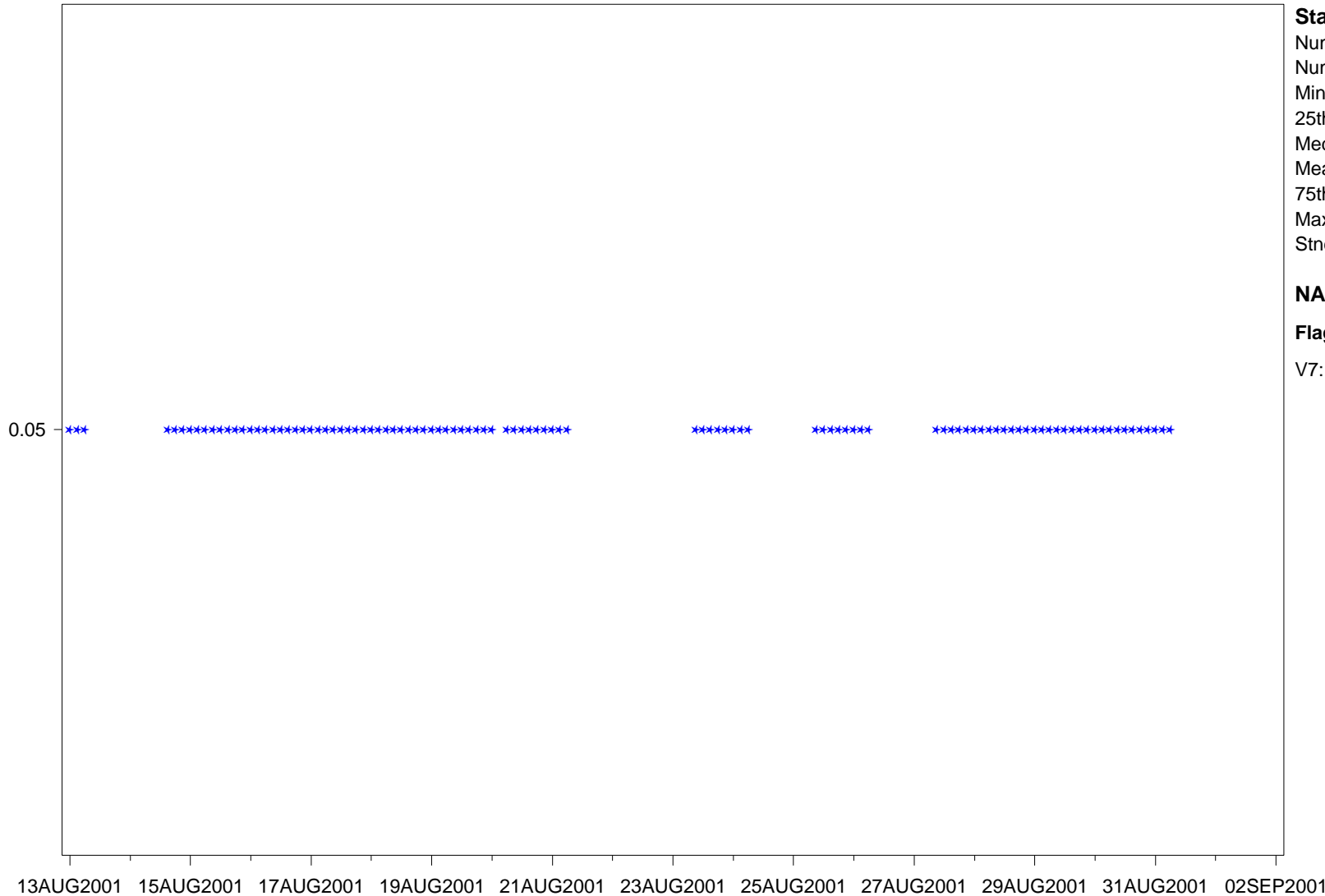
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLNEL** Variable name: **2,5-Dimethylbenzaldehyde** Common Name: **Benzaldehyde, 2,5-dimethyl** Units: **ppbv** Sampling interval: **3 hour**  
Sampling frequency: **Same as sampling interval** CAS ID: **C5779-94-2** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

2,5-Dimethylbenzaldehyde (ppbv)



**Statistics**

Number of obs: **104**  
Number of missing: **0**  
Minimum: **0.05**  
25th Percentile: **0.05**  
Median: **0.05**  
Mean: **0.050**  
75th Percentile: **0.05**  
Maximum: **0.05**  
Std Dev.: **0.000**

**NARSTO Flags**

**Flag Symbol Count**  
V7: \* 104

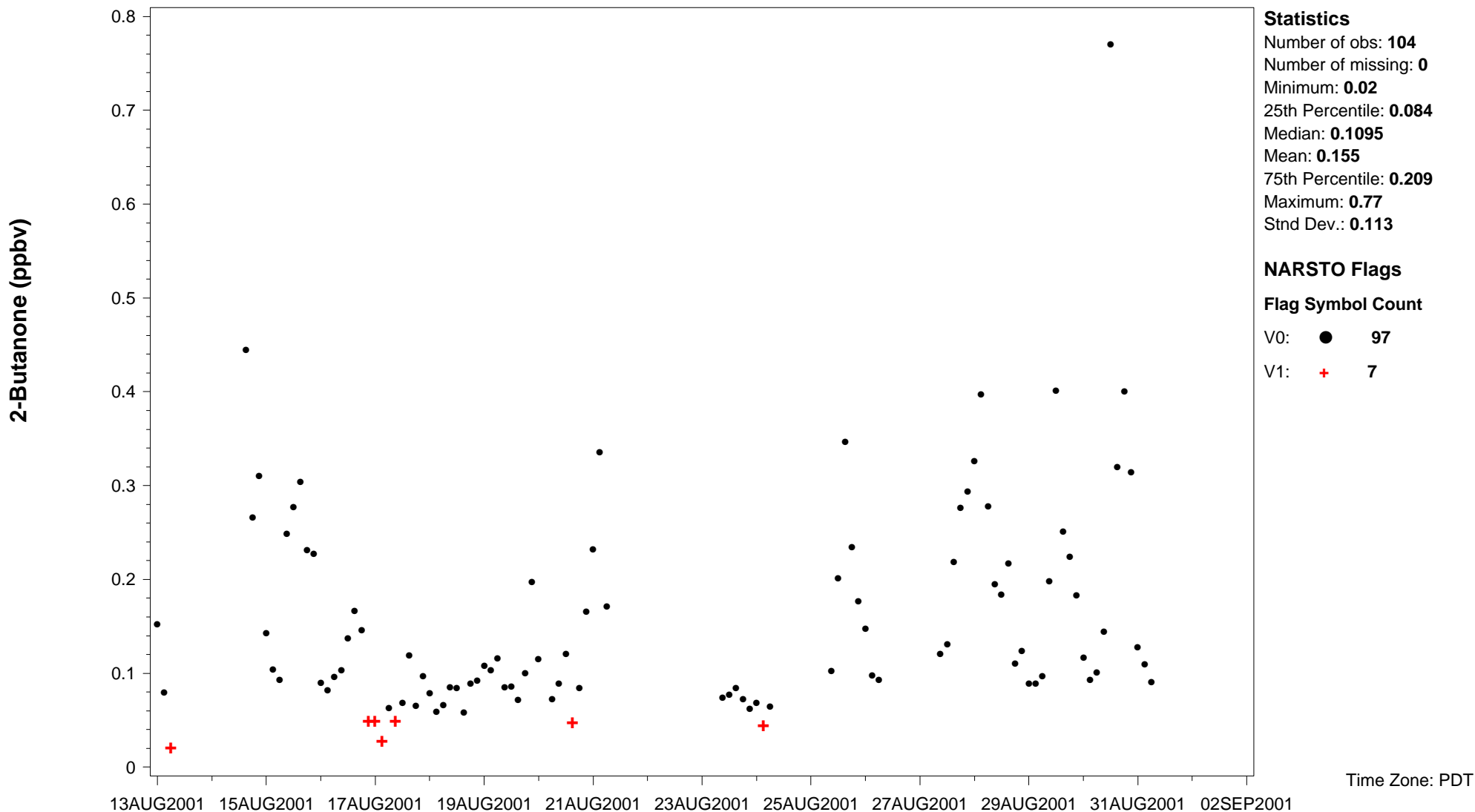
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **2-Butanone** Common Name: **Methyl Ethyl Ketone** Units: **ppbv** Sampling interval: **3 hour**  
 Sampling frequency: **Same as sampling interval** CAS ID: **C78-93-3** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
 Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
 Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
 Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

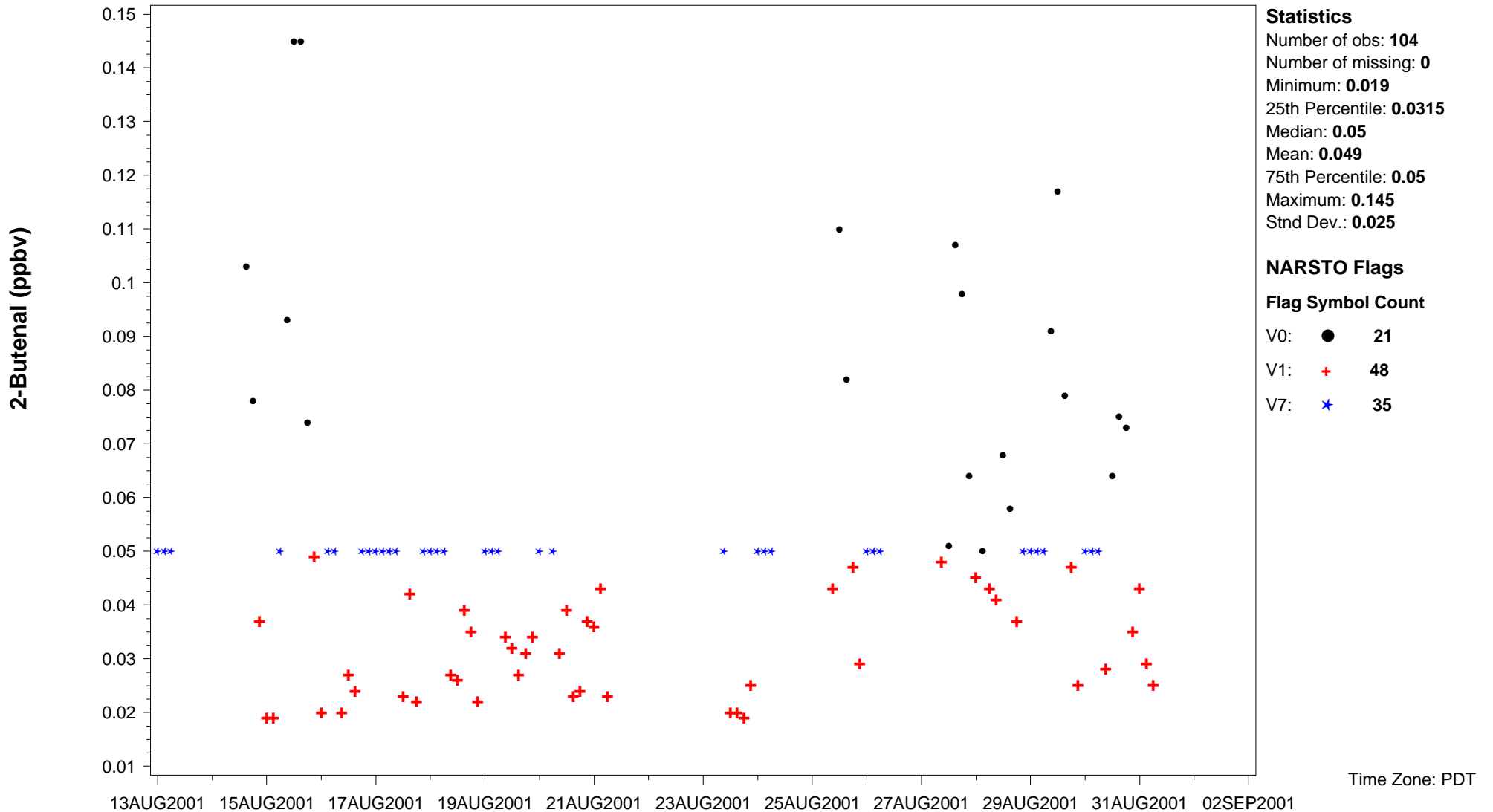


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **2-Butenal** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval** CAS ID: **C4170-30-3**  
 Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica** Coating or absorbing solution/media: **DNPH**  
 Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**  
 Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

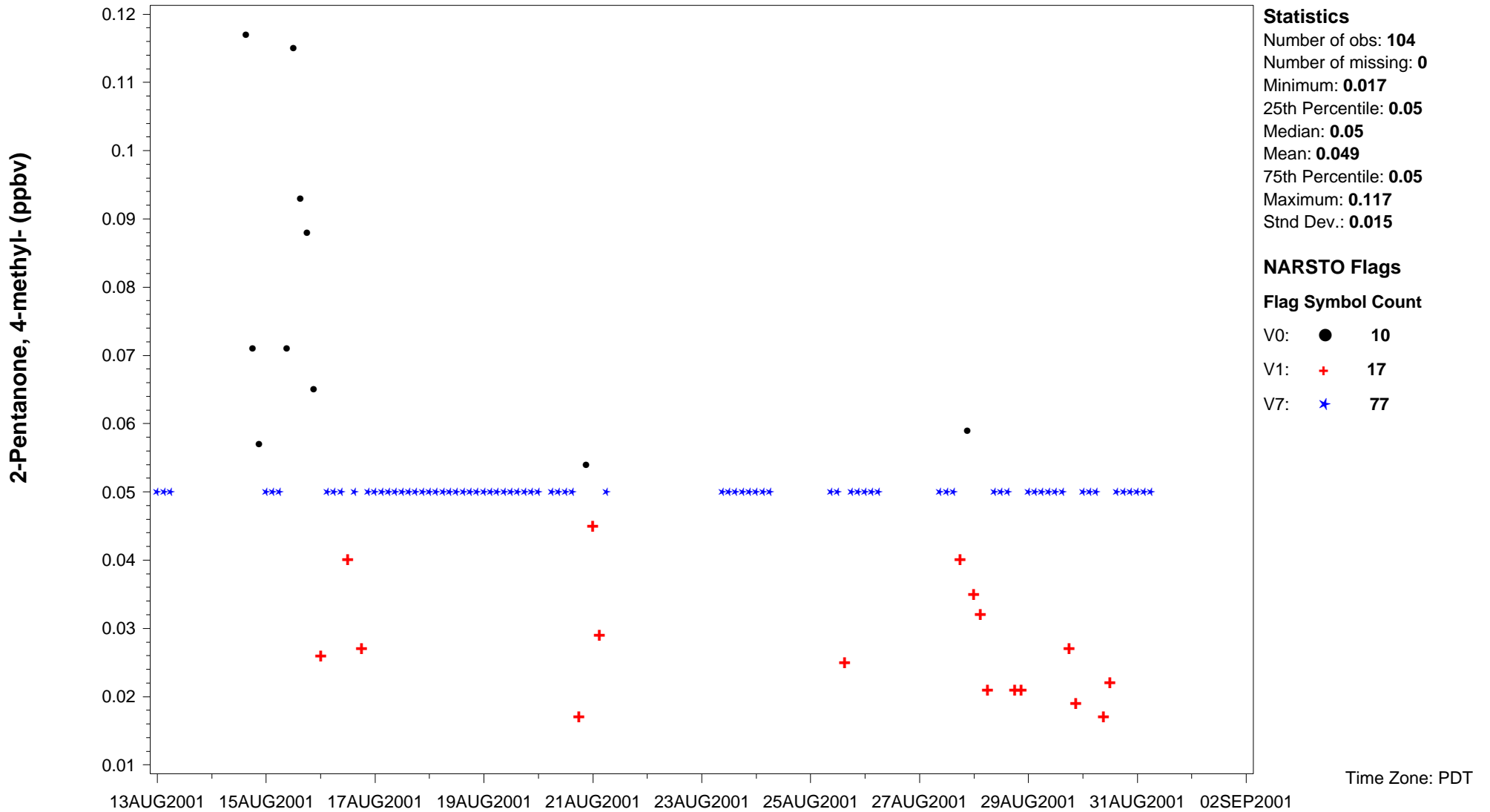


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **2-Pentanone, 4-methyl-** Common Name: **Methyl Isobutyl Ketone** Units: **ppbv** Sampling interval: **3 hour**  
 Sampling frequency: **Same as sampling interval** CAS ID: **C108-10-1** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
 Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
 Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
 Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



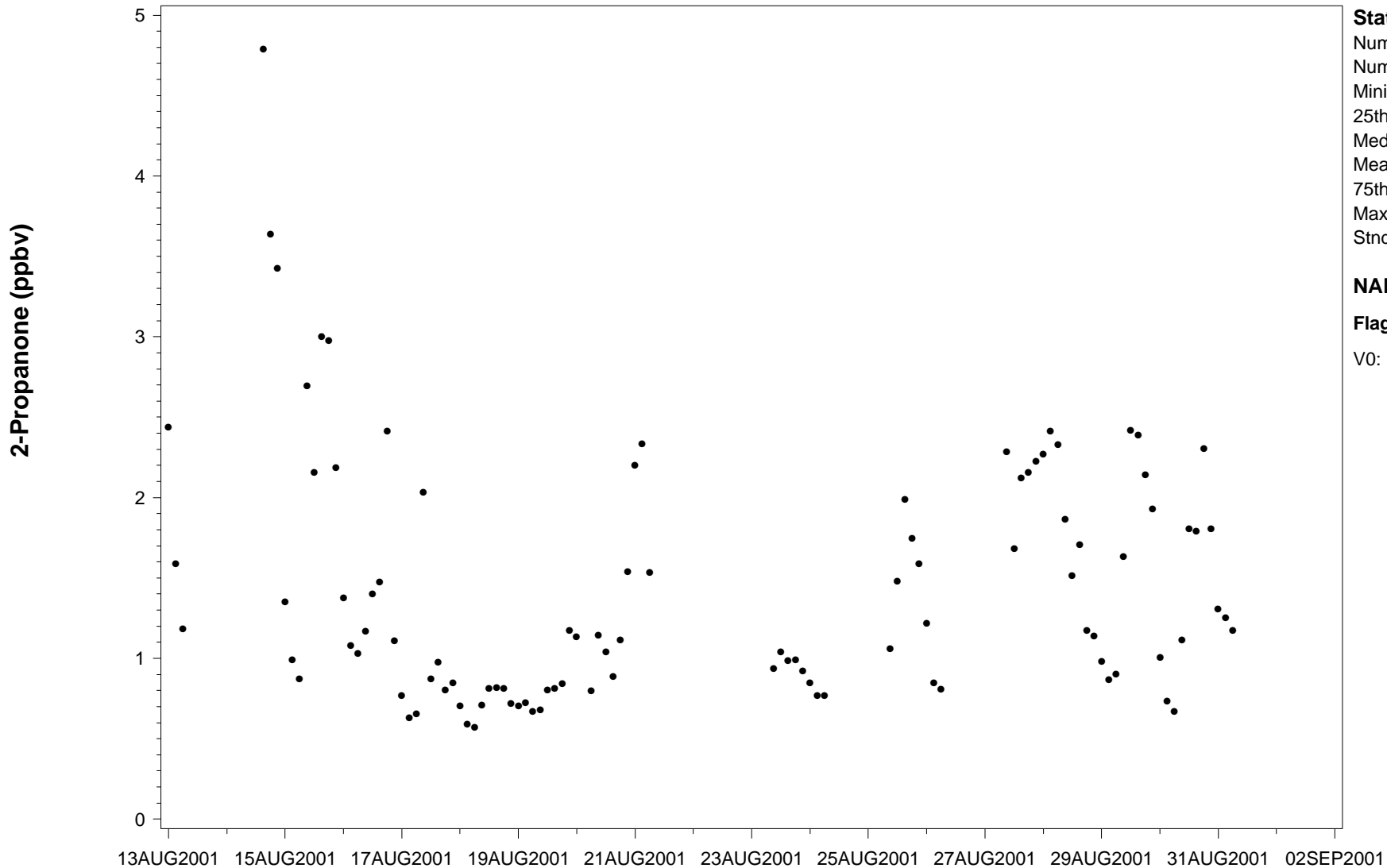


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **2-Propanone** Common Name: **Acetone** Units: **ppbv** Sampling interval: **3 hour**  
 Sampling frequency: **Same as sampling interval** CAS ID: **C67-64-1** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
 Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
 Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
 Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
 Number of obs: **104**  
 Number of missing: **0**  
 Minimum: **0.572**  
 25th Percentile: **0.8475**  
 Median: **1.156**  
 Mean: **1.432**  
 75th Percentile: **1.8985**  
 Maximum: **4.789**  
 Stnd Dev.: **0.757**

**NARSTO Flags**  
**Flag Symbol Count**  
 V0: ● 104

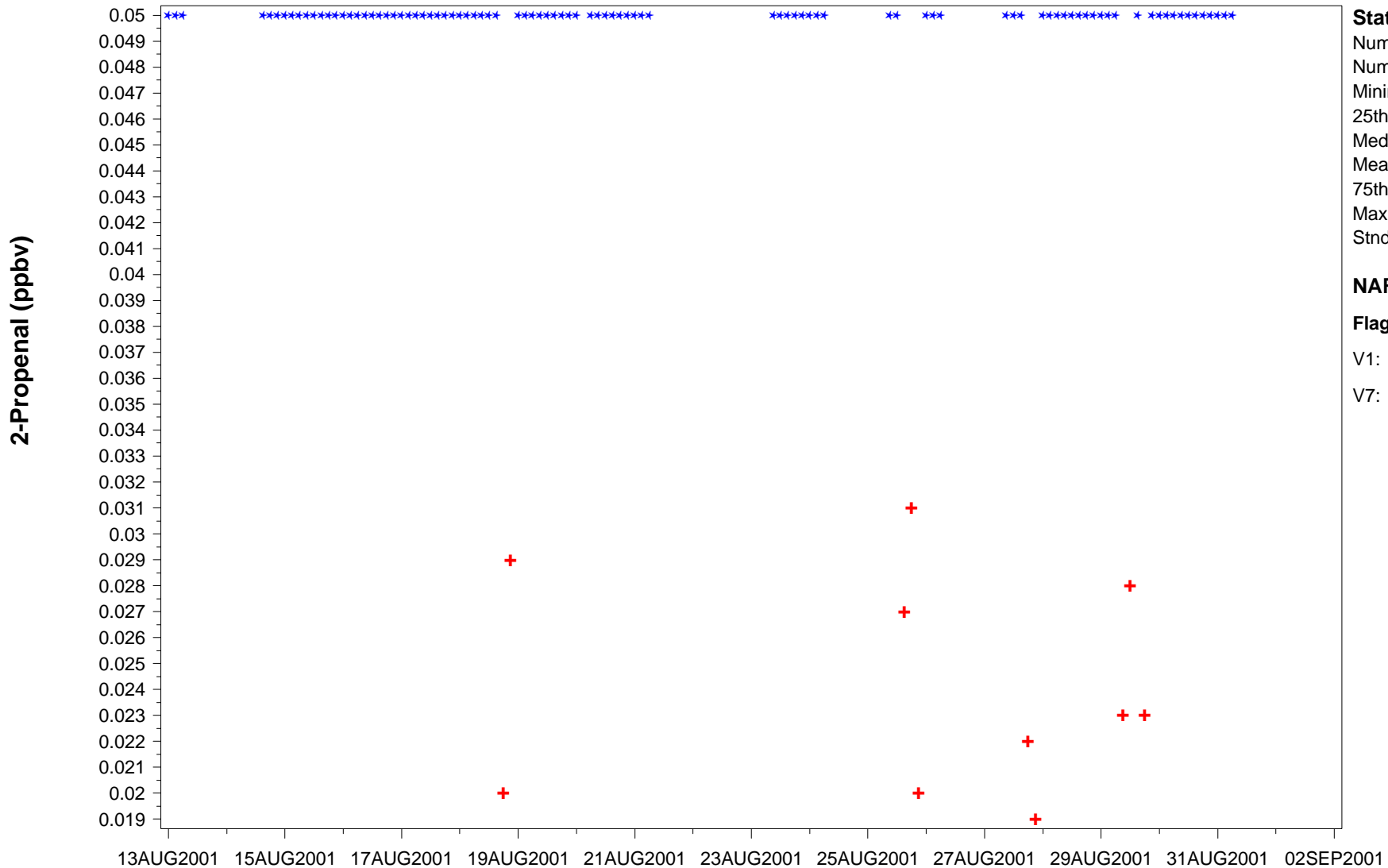
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **2-Propenal** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval** CAS ID: **C107-02-8**  
 Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica** Coating or absorbing solution/media: **DNPH**  
 Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**  
 Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
 Number of obs: **104**  
 Number of missing: **0**  
 Minimum: **0.019**  
 25th Percentile: **0.05**  
 Median: **0.05**  
 Mean: **0.048**  
 75th Percentile: **0.05**  
 Maximum: **0.05**  
 Std Dev.: **0.008**

**NARSTO Flags**  
**Flag Symbol Count**  
 V1: **+** **10**  
 V7: **\*** **94**

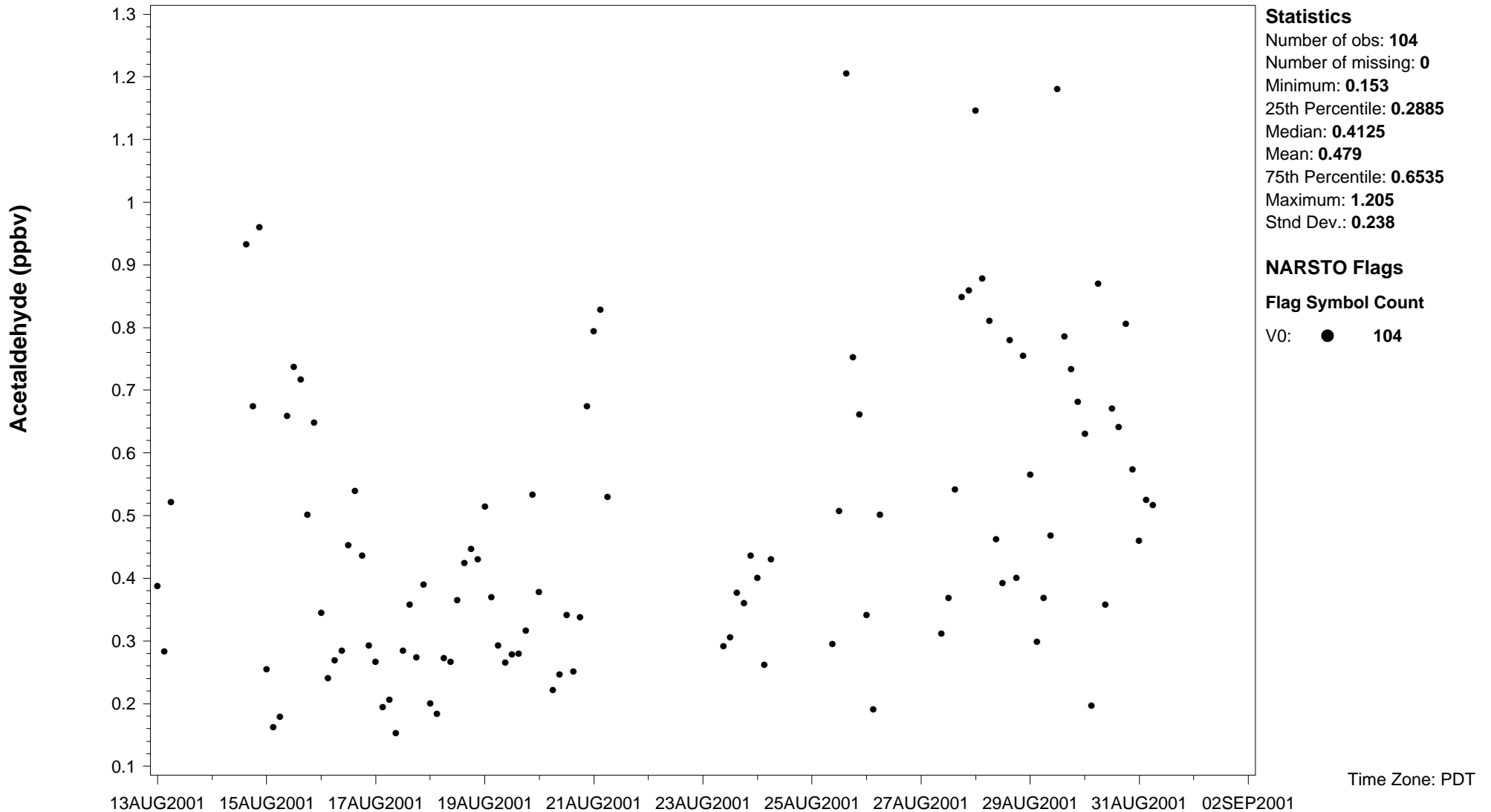
Time Zone: PDT

### NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLNEL** Variable name: **Acetaldehyde** Common Name: **Acetaldehyde** Units: **ppbv** Sampling interval: **3 hour**  
Sampling frequency: **Same as sampling interval** CAS ID: **C75-07-0** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

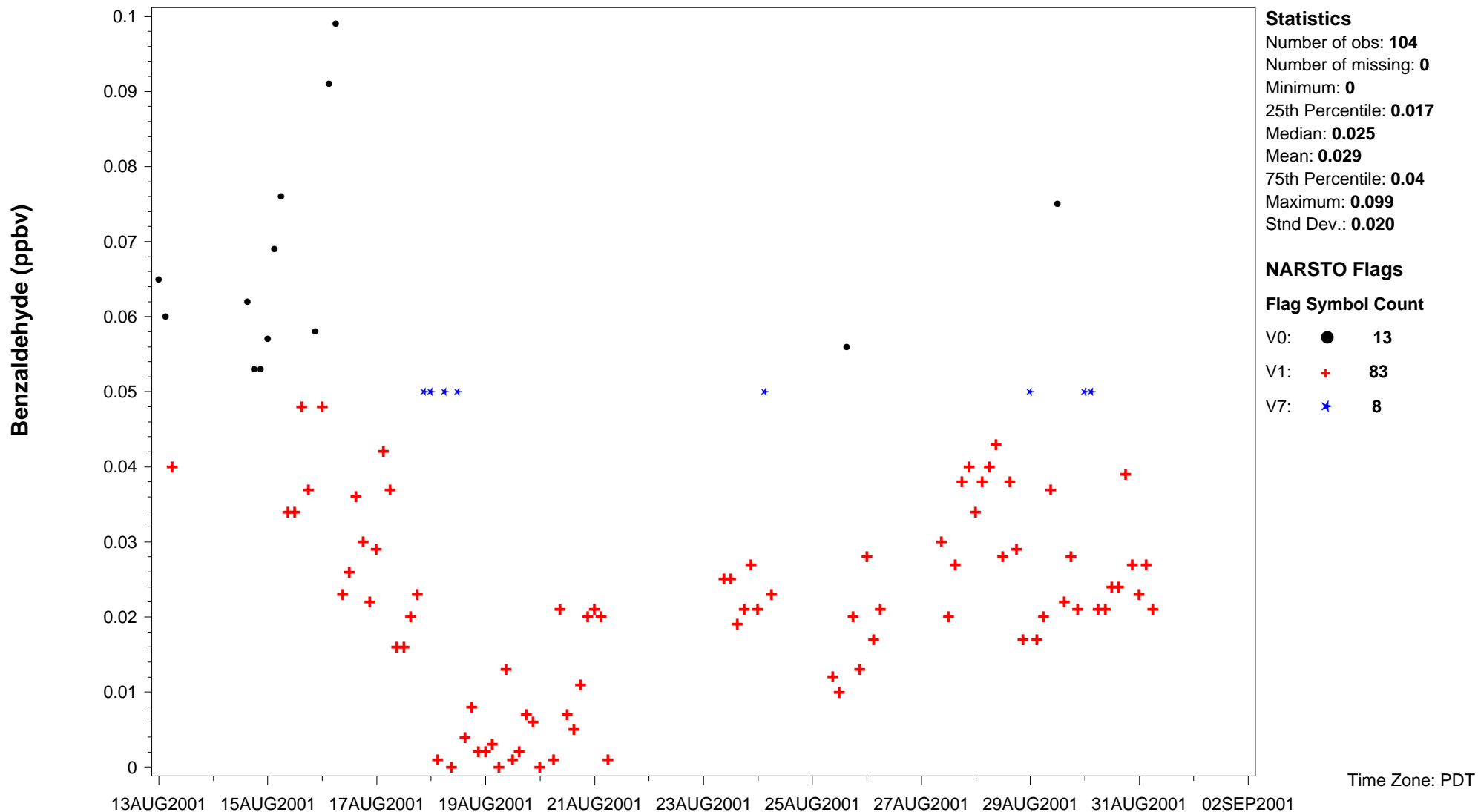


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLNEL** Variable name: **Benzaldehyde** Common Name: **Benzealdehyde** Units: **ppbv** Sampling interval: **3 hour**  
 Sampling frequency: **Same as sampling interval** CAS ID: **C100-52-7** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
 Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
 Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
 Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

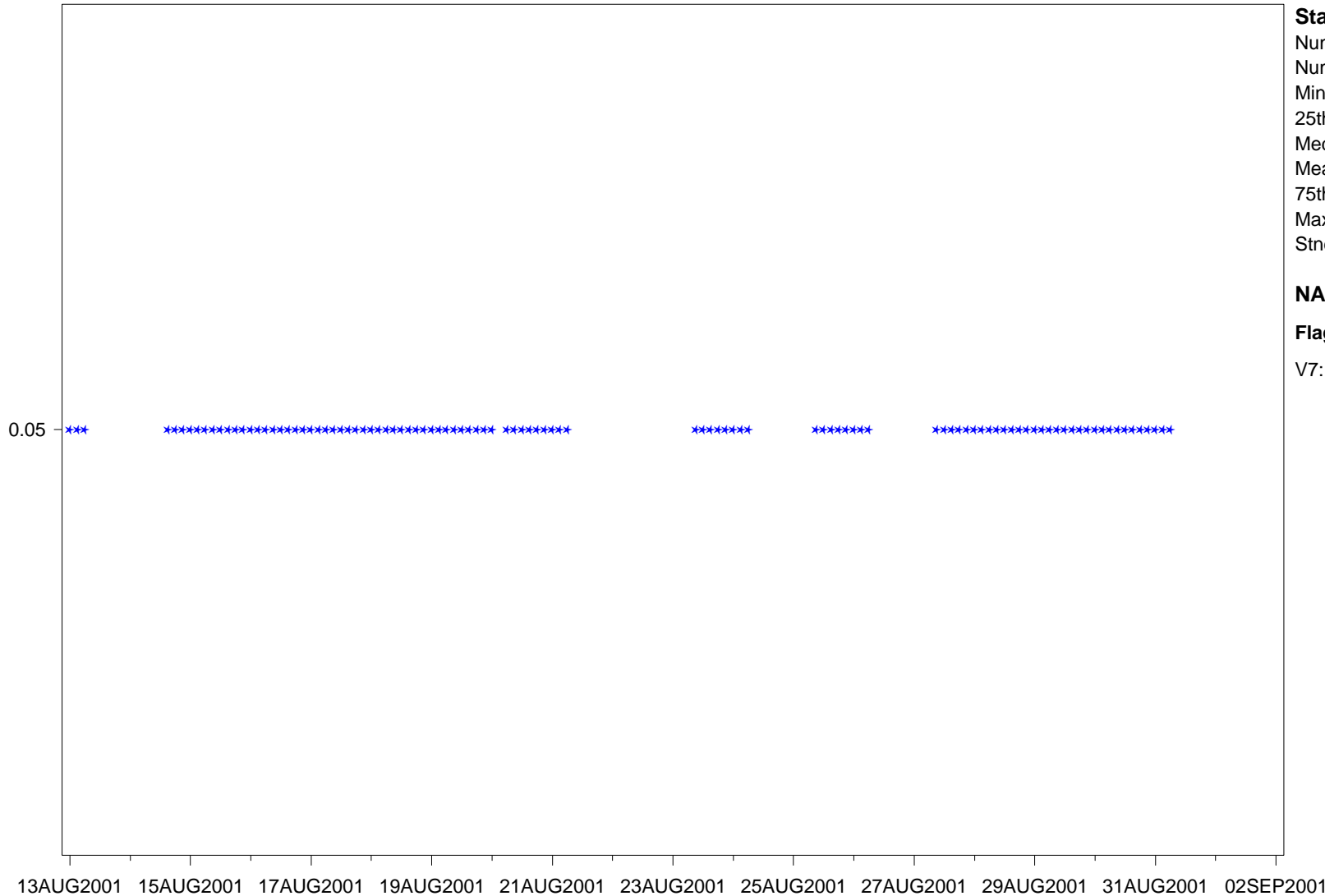


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Benzaldehyde, 3-methyl-** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval**  
CAS ID: **C620-23-5** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica**  
Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction**  
Blank Correction: **Blank corrected** Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**  
Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

Benzaldehyde, 3-methyl- (ppbv)



**Statistics**

Number of obs: **104**  
Number of missing: **0**  
Minimum: **0.05**  
25th Percentile: **0.05**  
Median: **0.05**  
Mean: **0.050**  
75th Percentile: **0.05**  
Maximum: **0.05**  
Std Dev.: **0.000**

**NARSTO Flags**

**Flag Symbol Count**  
V7: \* 104

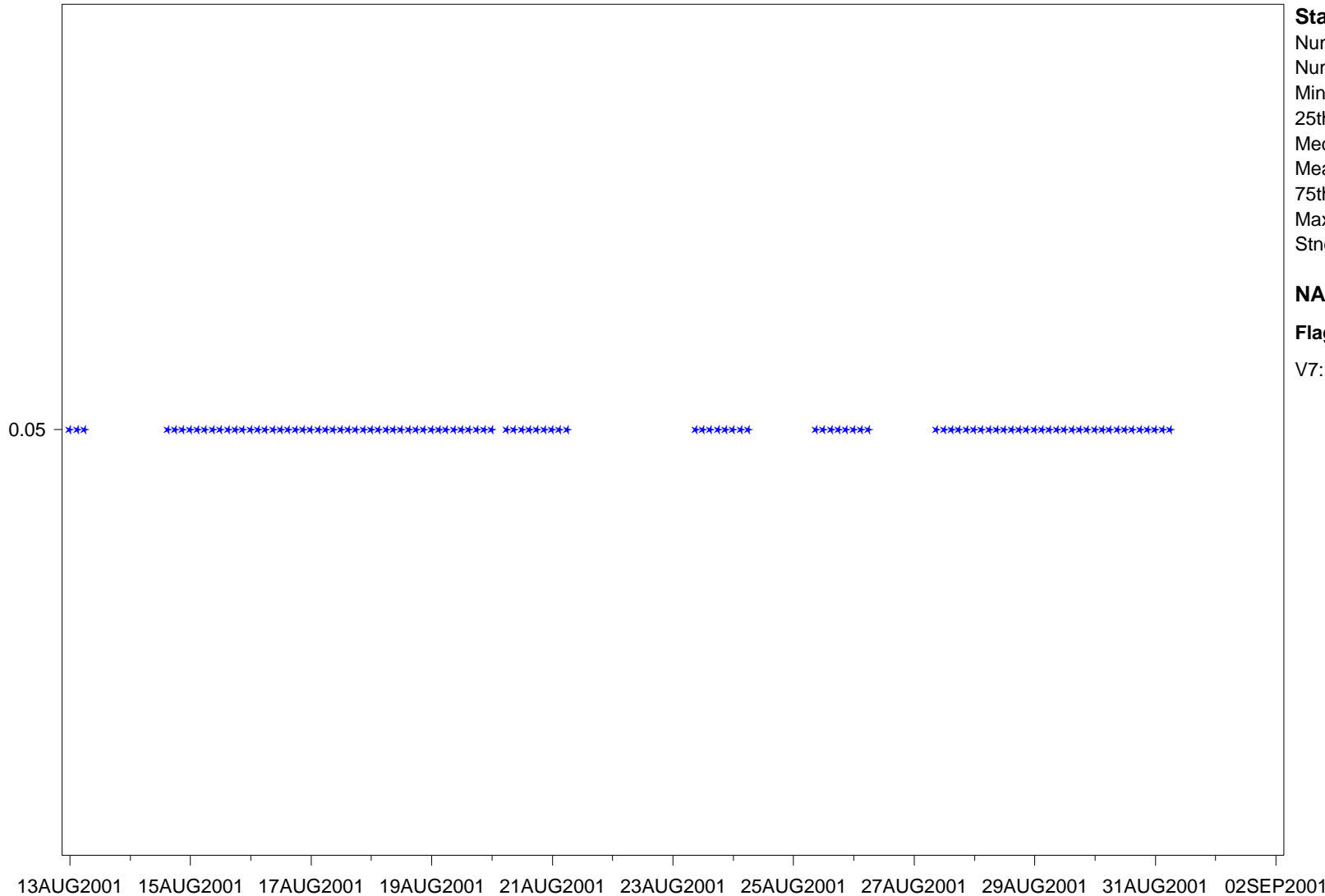
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Benzaldehyde, 4-methyl-** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval**  
CAS ID: **C104-87-0** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica**  
Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction**  
Blank Correction: **Blank corrected** Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**  
Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

Benzaldehyde, 4-methyl- (ppbv)



**Statistics**

Number of obs: **104**  
Number of missing: **0**  
Minimum: **0.05**  
25th Percentile: **0.05**  
Median: **0.05**  
Mean: **0.050**  
75th Percentile: **0.05**  
Maximum: **0.05**  
Std Dev.: **0.000**

**NARSTO Flags**

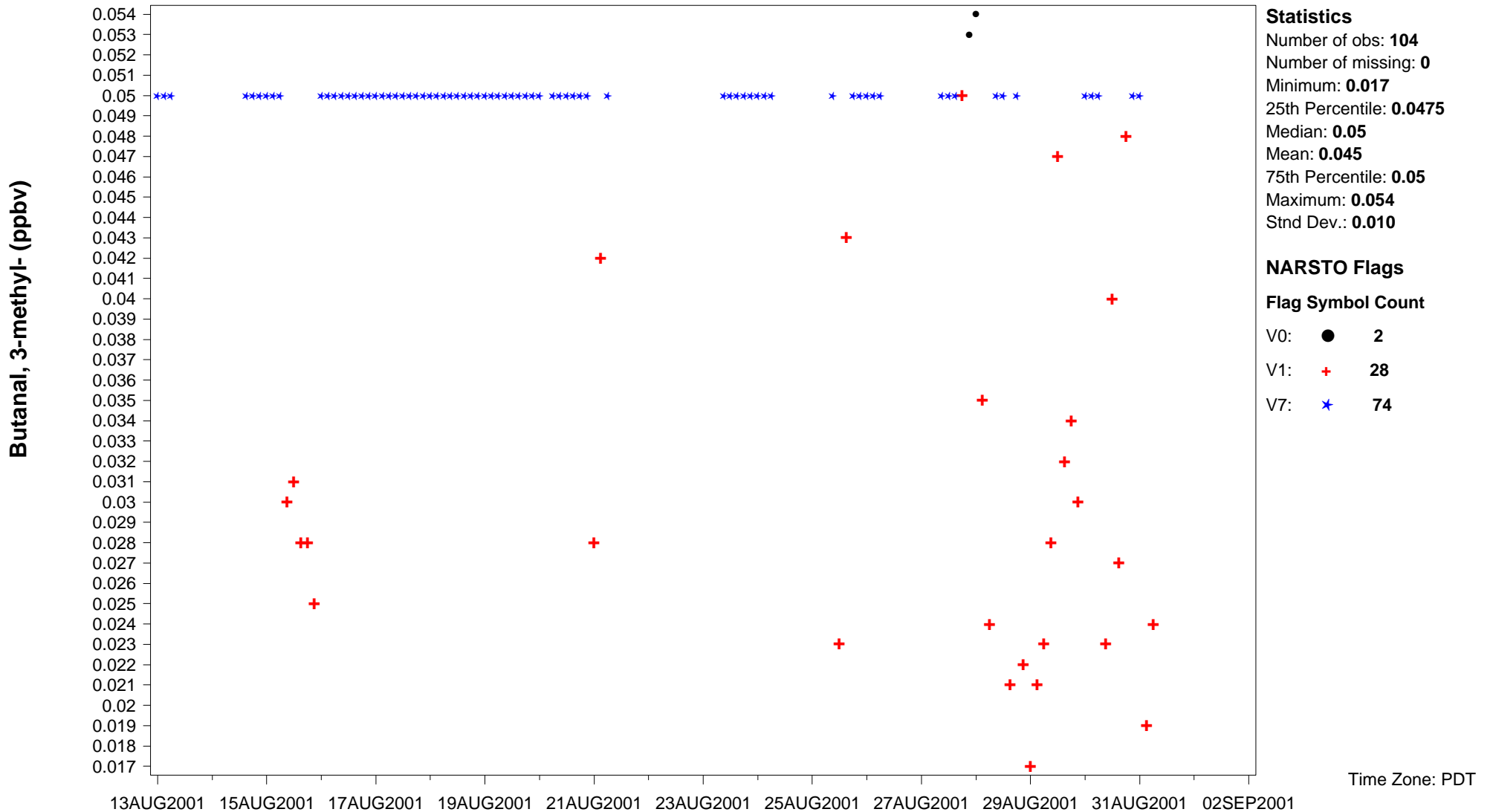
**Flag Symbol Count**  
V7: \* 104

Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Butanal, 3-methyl-** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval**  
 CAS ID: **C590-86-3** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica**  
 Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction**  
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**  
 Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

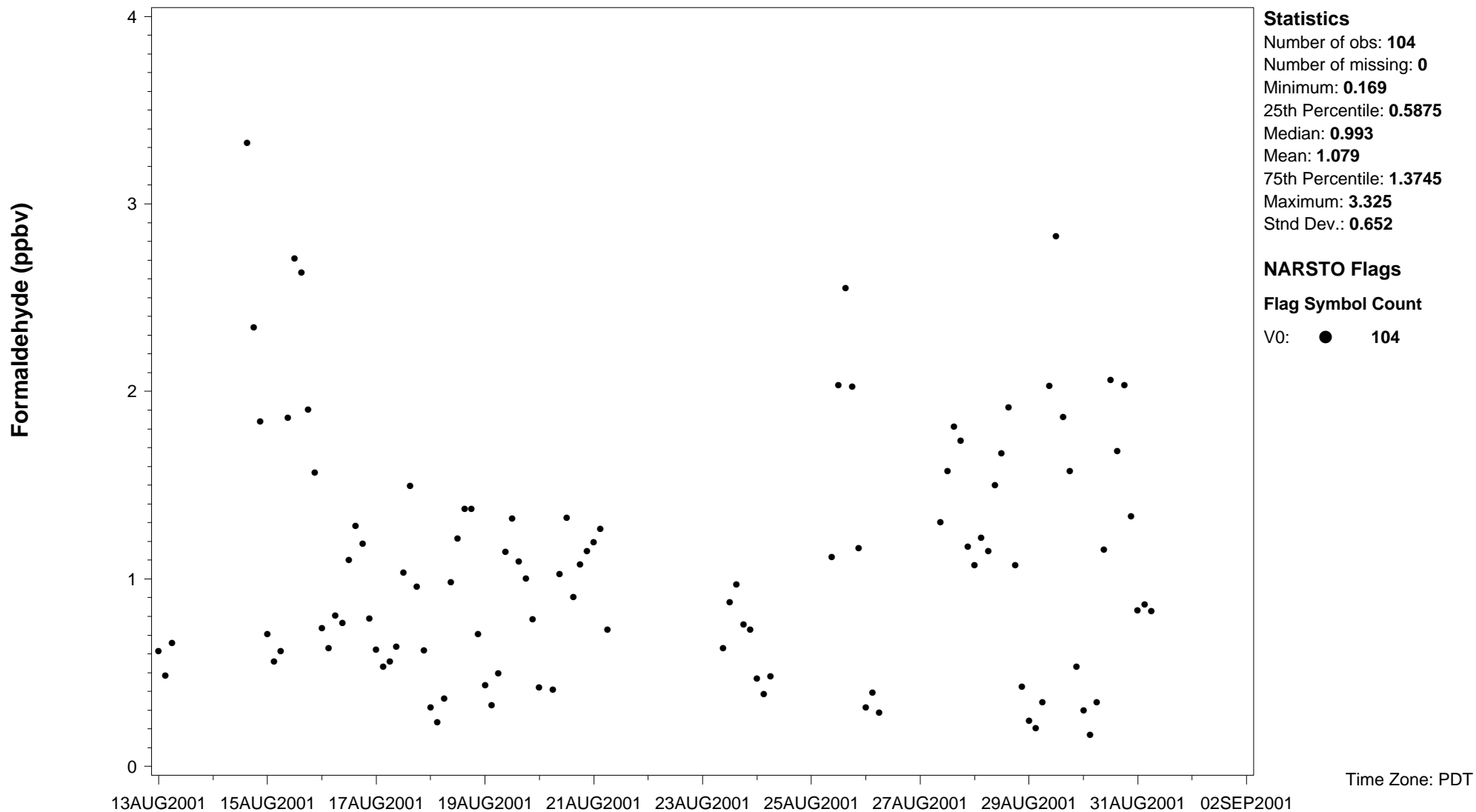


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Formaldehyde** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval** CAS ID: **C50-00-0**  
 Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica** Coating or absorbing solution/media: **DNPH**  
 Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**  
 Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

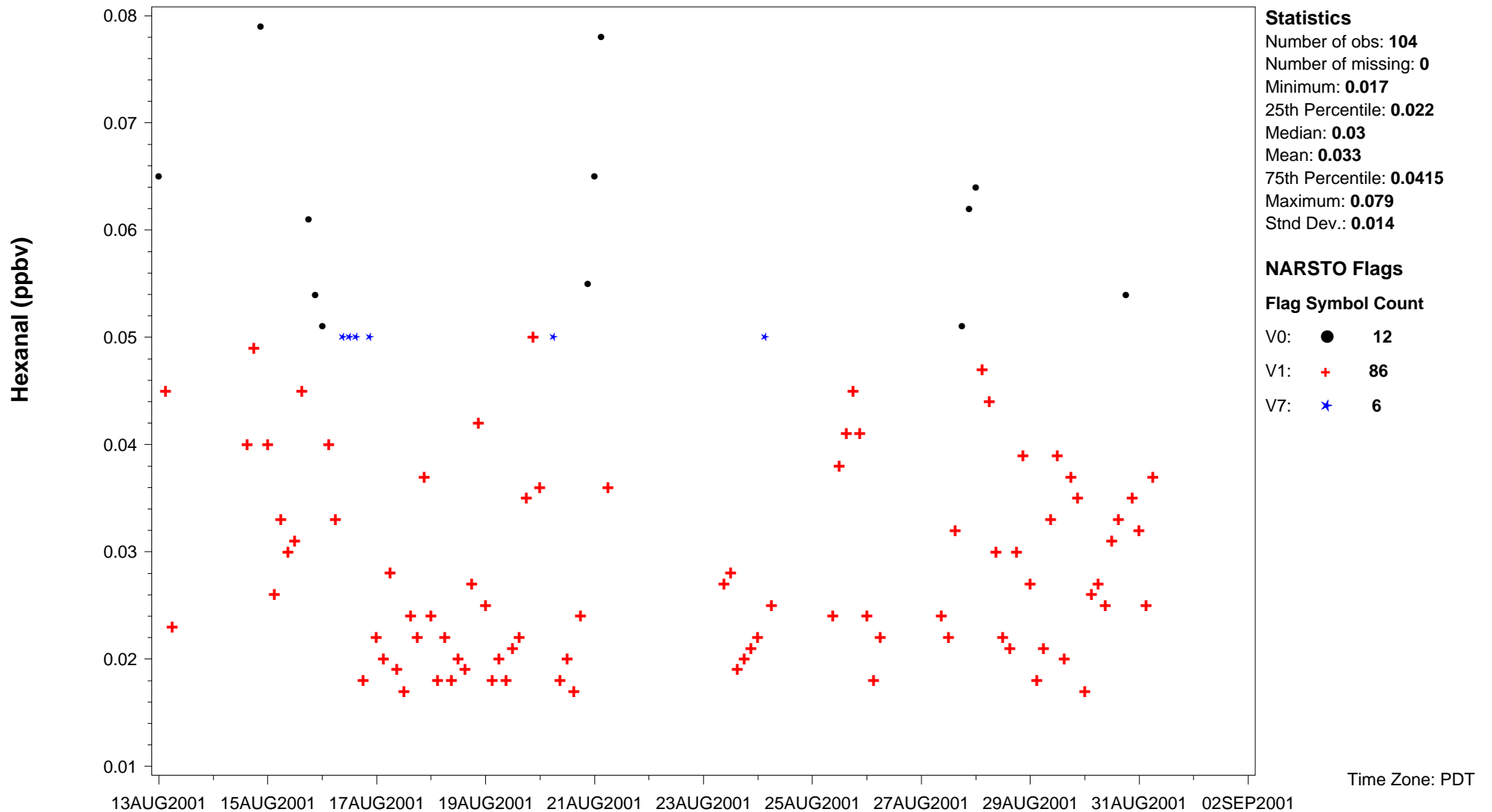




### NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Hexanal** Common Name: **Hexanal** Units: **ppbv** Sampling interval: **3 hour** Sampling frequency: **Same as sampling interval**  
 CAS ID: **C66-25-1** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber** Medium: **Silica**  
 Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC** Sample preparation: **Organic extraction**  
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **3** Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**  
 Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

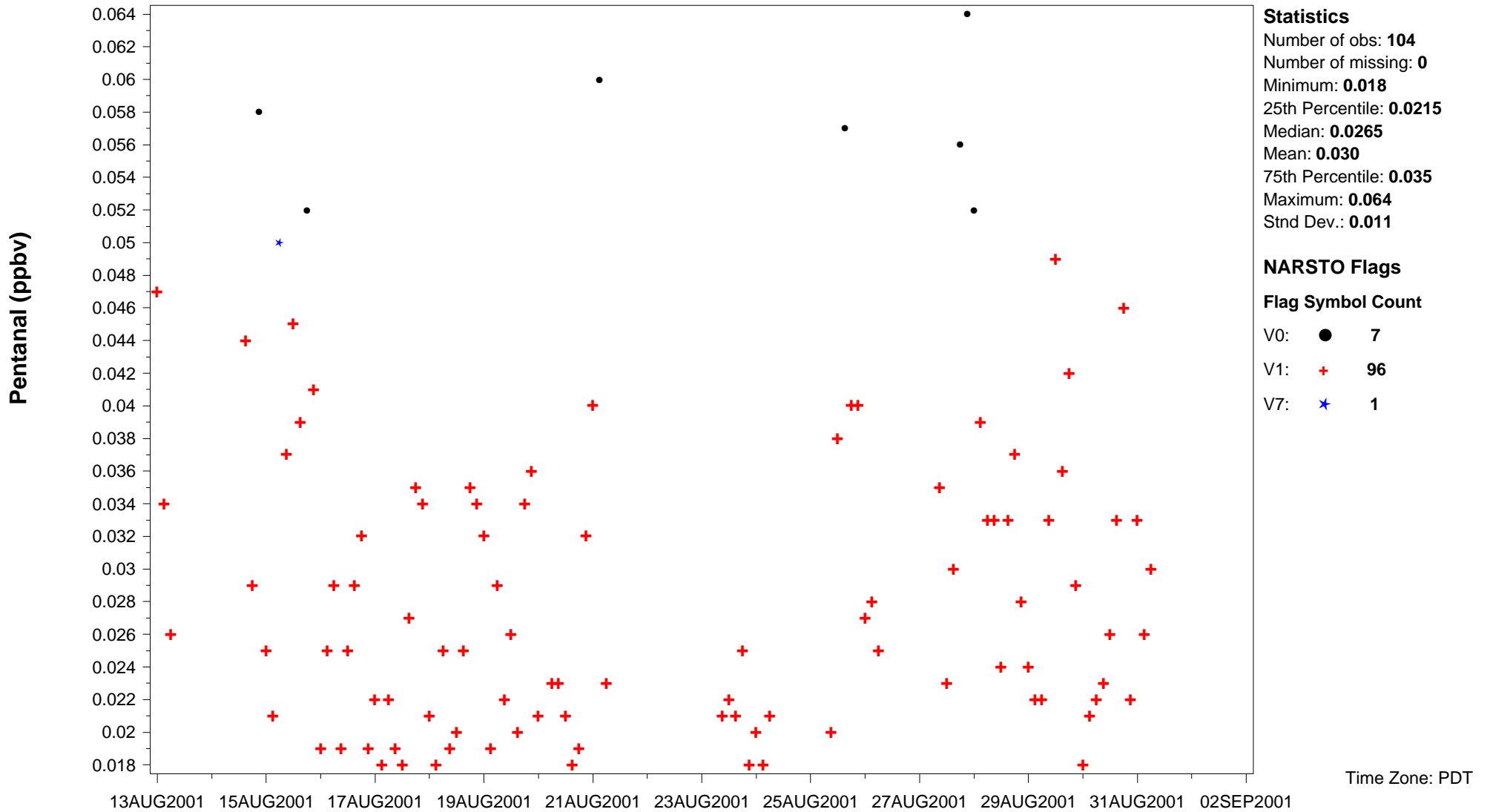


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Pentanal** Common Name: **Pentanal** Units: **ppbv** Sampling interval: **3 hour**  
 Sampling frequency: **Same as sampling interval** CAS ID: **C110-62-3** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
 Medium: **Silica** Coating or absorbing solution/media: **DNP** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
 Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
 Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

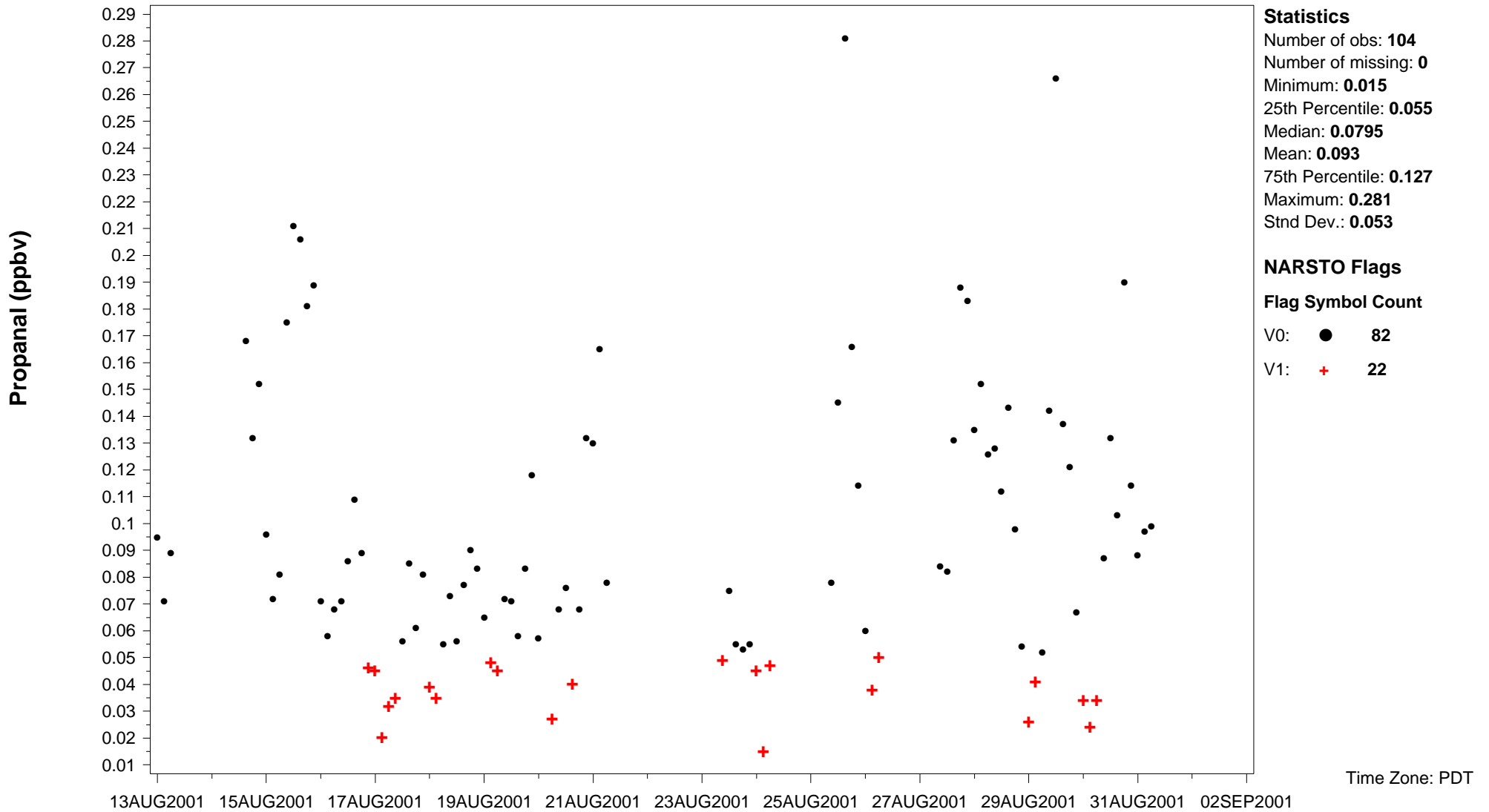


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Propanal** Common Name: **Propanal** Units: **ppbv** Sampling interval: **3 hour**  
 Sampling frequency: **Same as sampling interval** CAS ID: **C123-38-6** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
 Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
 Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
 Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

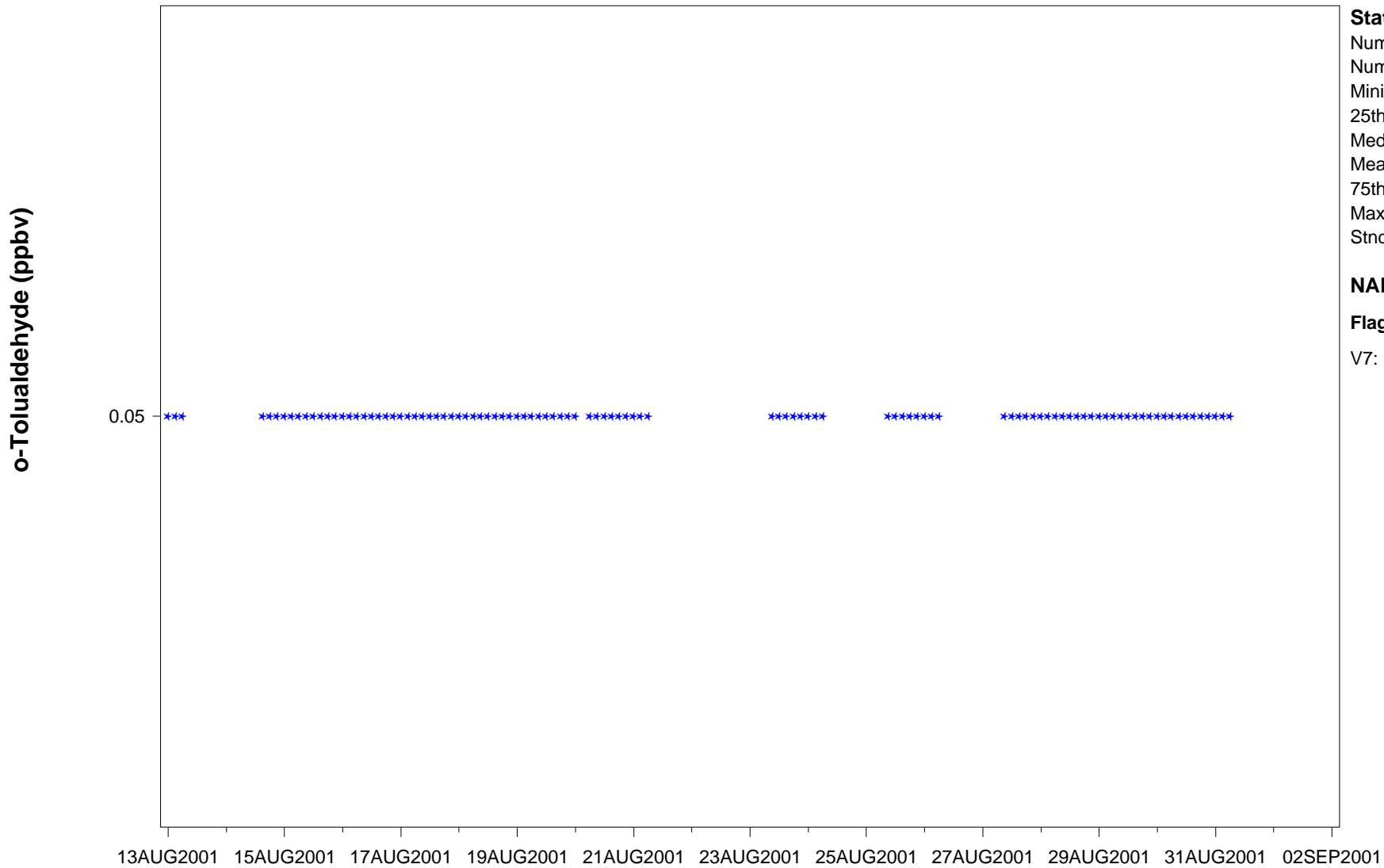


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLNEL** Variable name: **o-Tolualdehyde** Common Name: **Benzaldehyde, 2-methyl-** Units: **ppbv** Sampling interval: **3 hour**  
Sampling frequency: **Same as sampling interval** CAS ID: **C529-20-4** Observation type: **Gas** Field sampling or measurement principle: **Cartridge+scrubber**  
Medium: **Silica** Coating or absorbing solution/media: **DNPH** Inlet type: **Open sampling line** Laboratory analytical method: **LC**  
Sample preparation: **Organic extraction** Blank Correction: **Blank corrected** Sampling Height above ground (m): **3**  
Instrument name and model number: **Carbonyl Sampler** Detection Limit: **0.050**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
Number of obs: **104**  
Number of missing: **0**  
Minimum: **0.05**  
25th Percentile: **0.05**  
Median: **0.05**  
Mean: **0.050**  
75th Percentile: **0.05**  
Maximum: **0.05**  
Std Dev.: **0.000**

**NARSTO Flags**  
**Flag Symbol Count**  
V7: \* 104

Time Zone: PDT