

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\  
 Data File : VL032529.D  
 Acq On : 25 Sep 2018 4:18  
 Operator : SY/AP  
 Sample : J5039-02DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OUTDOOR-AMBIENTDL

Manual Integrations  
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Quant Time: Sep 25 07:07:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 25 07:07:56 2018  
 QLast Update : Tue Sep 25 05:17:15 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.79  | 49   | 1410766  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.32  | 114  | 3305917  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.27 | 117  | 3308579  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.61  | 95    | 2470090  | 9.90     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.00% |

| Target Compounds       | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|------------------------|------|------|----------|-------|--------|--------|
| 13) Ethanol            | 3.68 | 45   | 16930m   | 1.107 | ppbv   |        |
| 15) Acetone            | 3.93 | 43   | 113702   | 0.918 | ppbv   | 99     |
| 20) Methylene Chloride | 4.43 | 84   | 29929    | 0.499 | ppbv   | 95     |
| 26) Hexane             | 5.80 | 57   | 35295    | 0.260 | ppbv # | 42     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

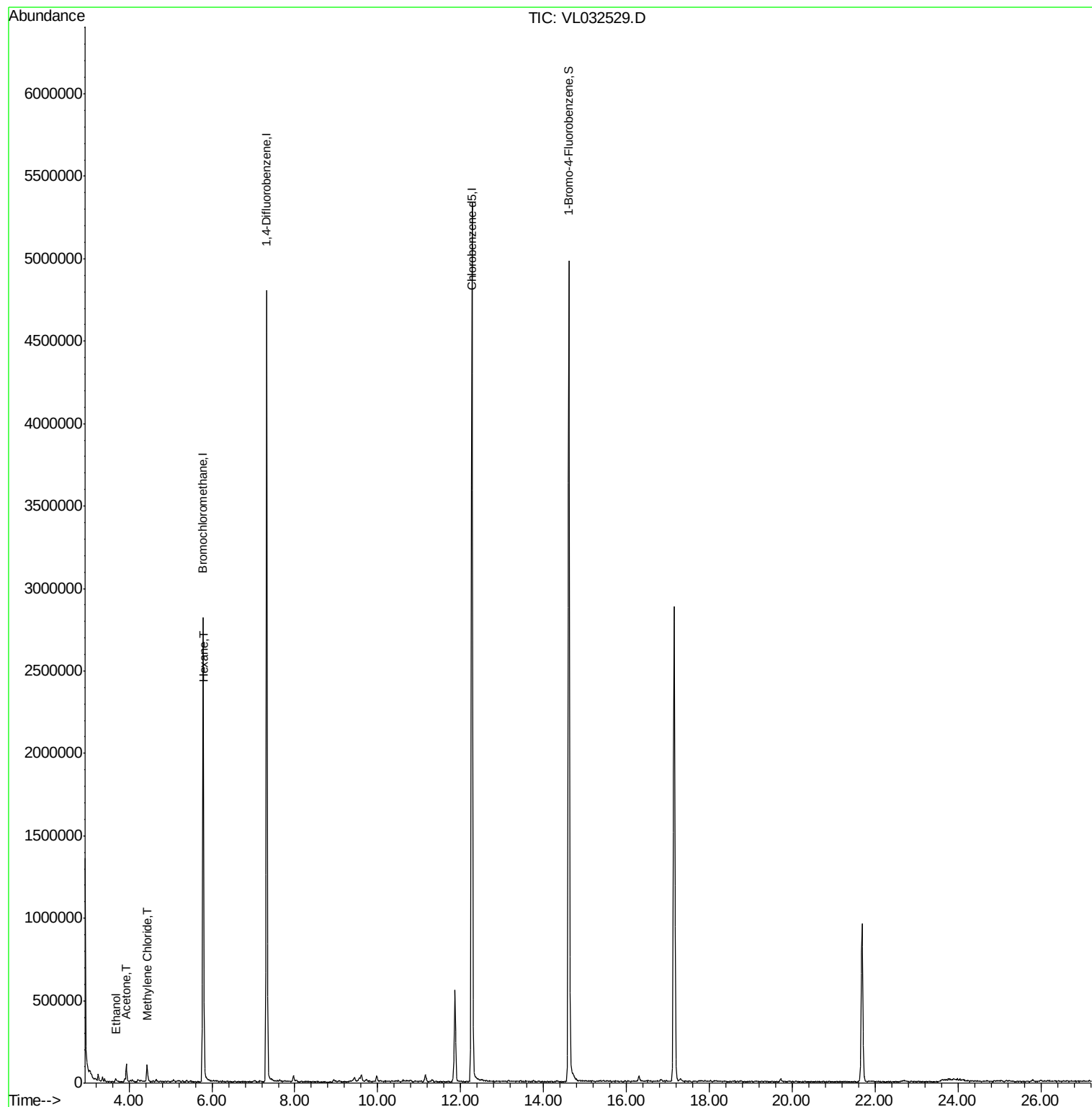
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\  
Data File : VL032529.D  
Acq On : 25 Sep 2018 4:18  
Operator : SY/AP  
Sample : J5039-02DL 10X  
Misc : 400ml/MSVOA L  
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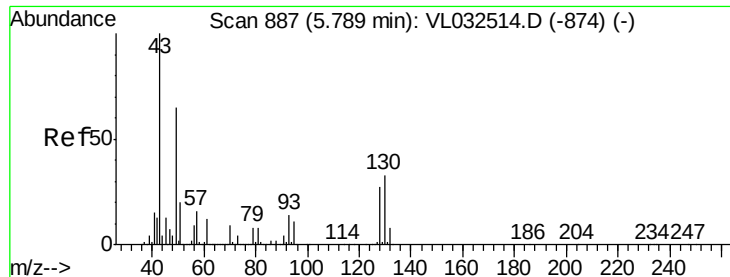
Instrument :  
MSVOA\_L  
ClientSampleId :  
OUTDOOR-AMBIENTDL

Quant Time: Sep 25 07:07:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep  
QLast Update : Tue Sep 25 05:17:15 2018  
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032529.D

Acq: 25 Sep 2018 4:18

Instrument :

MSVOA\_L

ClientSampleId :

OUTDOOR-AMBIENTDL

Tot Ion: 49 Resp: 1410766

Ion Ratio Lower Upper

49 100

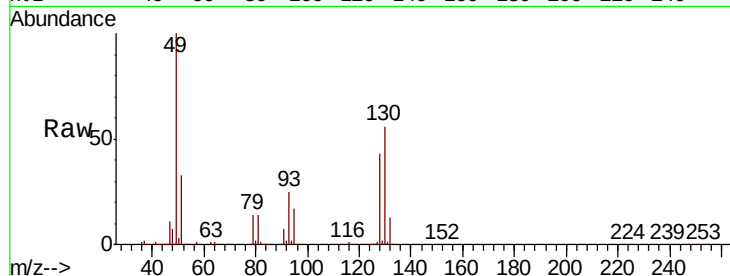
128 43.2 20.7 62.1

130 56.2 26.6 79.7

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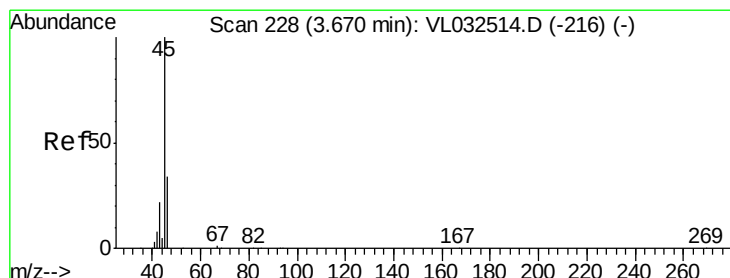
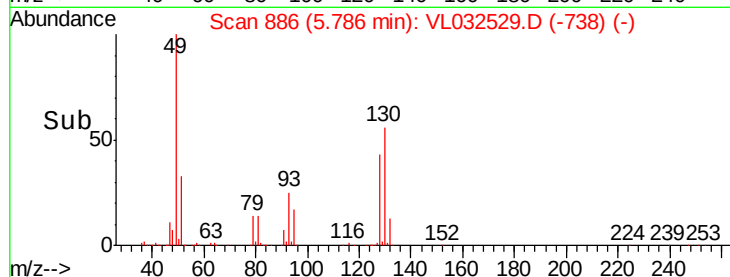
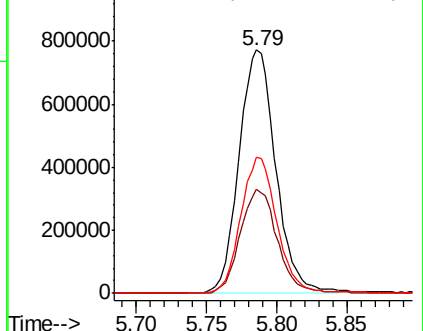
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#13

Ethanol

Concen: 1.107 ppbv m

RT: 3.68 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL032529.D

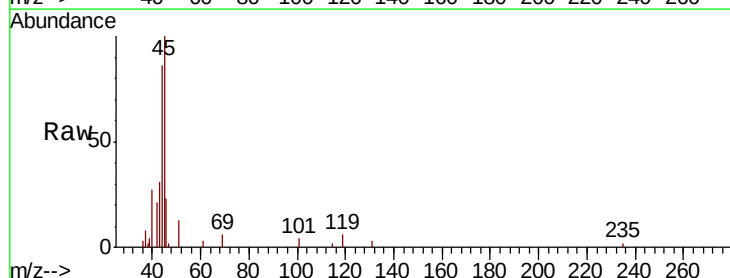
Acq: 25 Sep 2018 4:18

Tgt Ion: 45 Resp: 16930

Ion Ratio Lower Upper

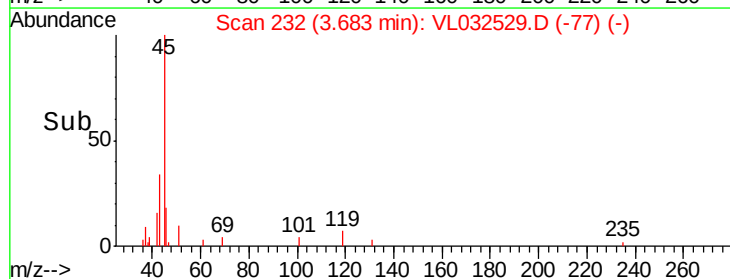
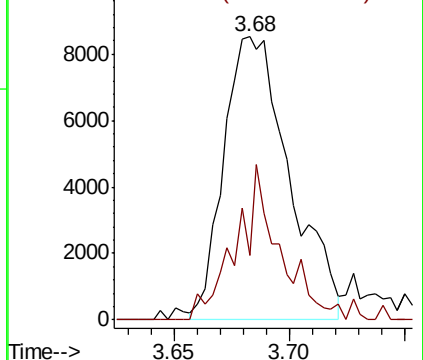
45 100

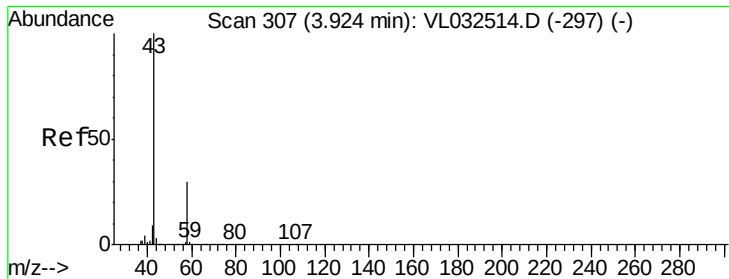
46 0.0 14.2 56.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.918 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032529.D

Acq: 25 Sep 2018 4:18

Instrument :

MSVOA\_L

ClientSampleId :

OUTDOOR-AMBIENTDL

Tot Ion: 43 Resp: 113702

Ion Ratio Lower Upper

43 100

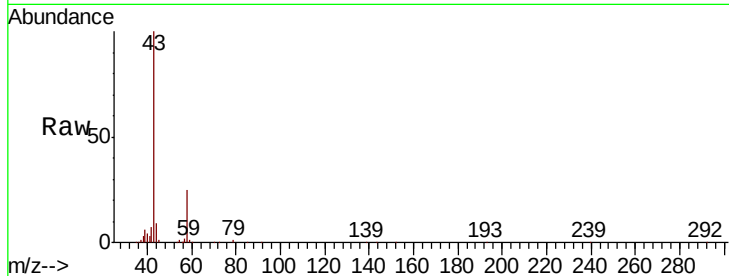
58 28.7 22.6 33.8

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.93

80000

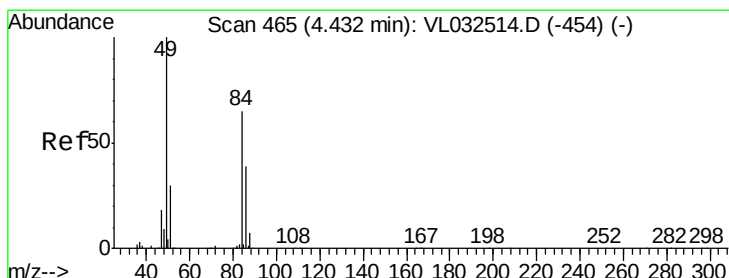
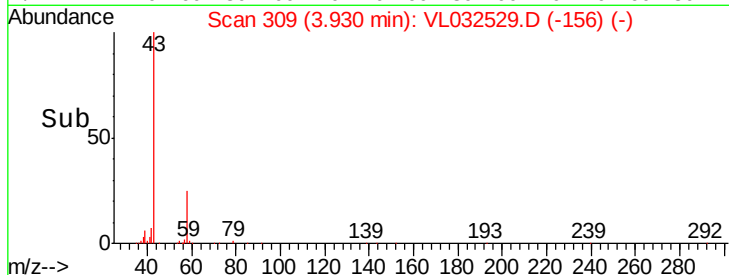
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 0.499 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032529.D

Acq: 25 Sep 2018 4:18

Tgt Ion: 84 Resp: 29929

Ion Ratio Lower Upper

84 100

49 153.6 119.1 178.7

51 45.3 35.2 52.8

86 69.3 49.4 74.2

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

40000

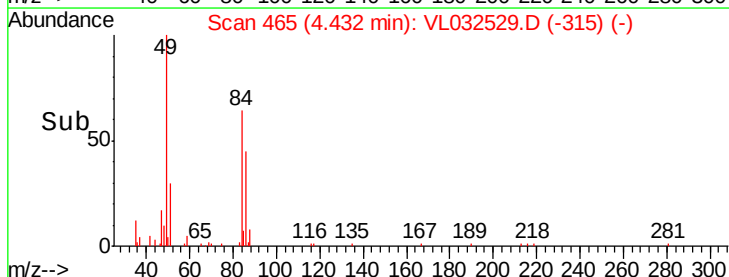
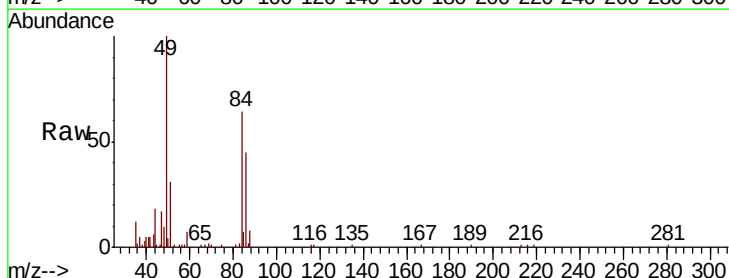
30000

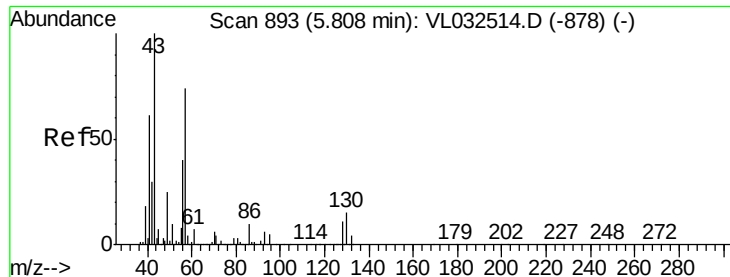
20000

10000

0

Time-->





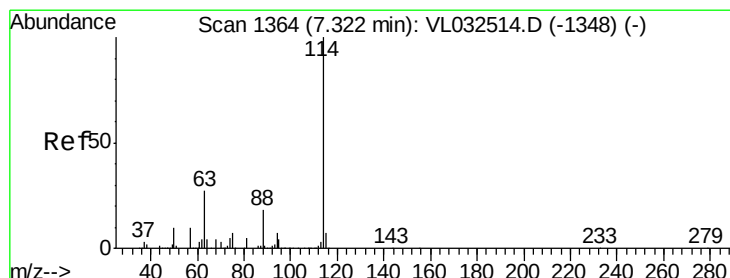
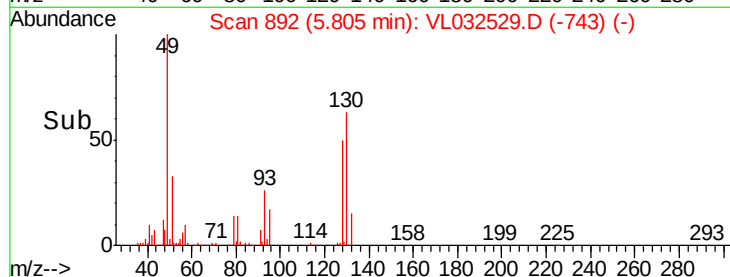
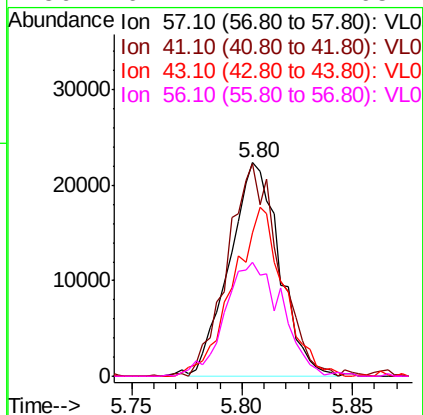
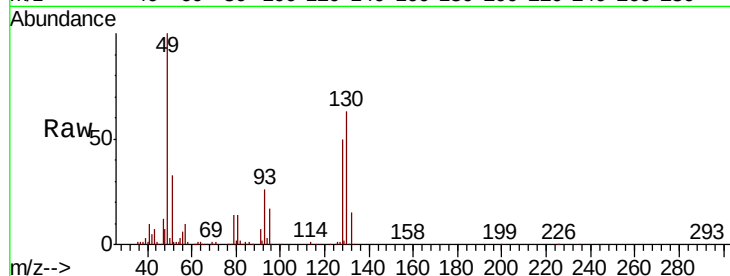
#26  
Hexane  
Concen: 0.260 ppbv  
RT: 5.80 min Scan# 892  
Delta R.T. -0.02 min  
Lab File: VL032529.D  
Acq: 25 Sep 2018 4:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
OUTDOOR-AMBIENTDL

| Tot Ion | 57    | Resp  | 35295  |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 57      | 100   |       |        |
| 41      | 103.3 | 69.0  | 103.4  |
| 43      | 80.1  | 172.1 | 258.1# |
| 56      | 61.2  | 42.2  | 63.2   |

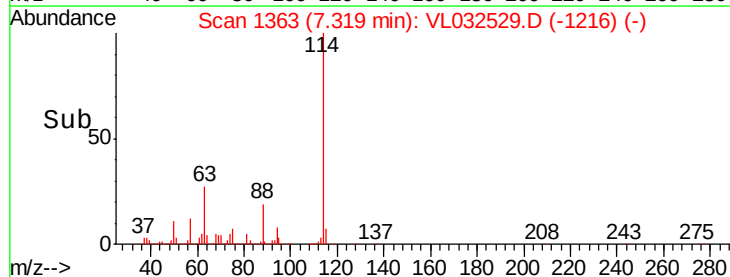
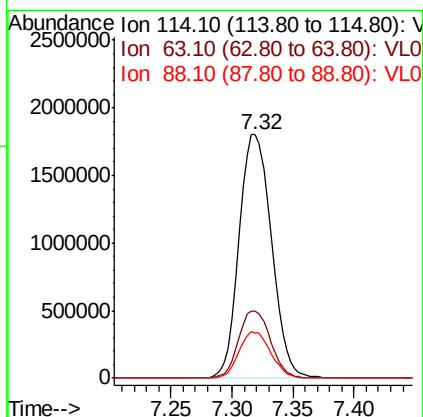
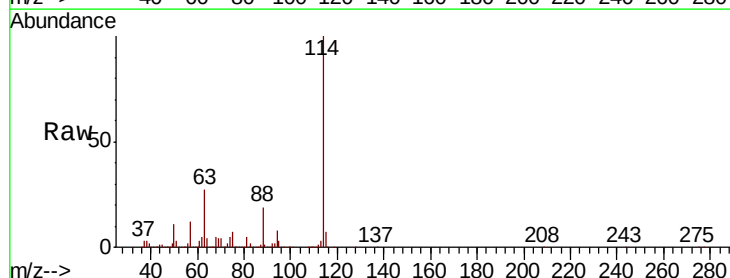
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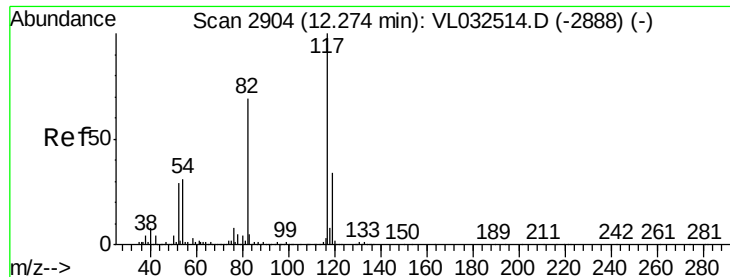
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.32 min Scan# 1363  
Delta R.T. -0.03 min  
Lab File: VL032529.D  
Acq: 25 Sep 2018 4:18

| Tgt Ion | 114   | Resp  | 3305917 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 114     | 100   |       |         |
| 63      | 27.4  | 22.2  | 33.4    |
| 88      | 18.7  | 15.0  | 22.4    |





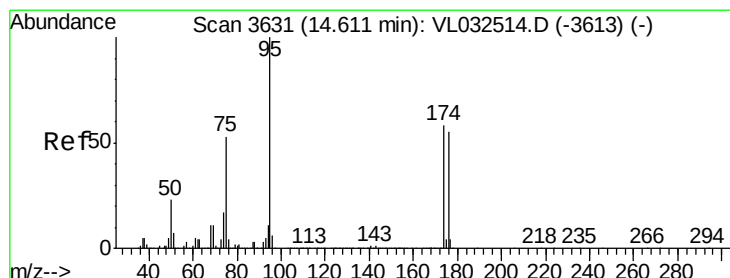
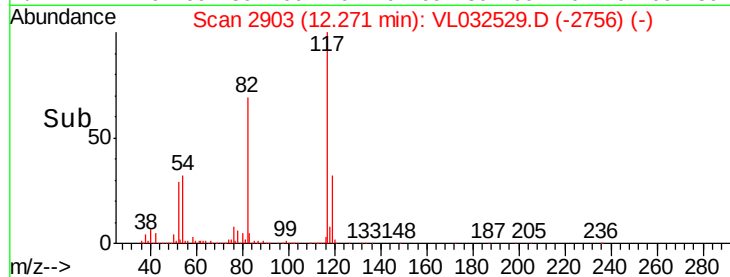
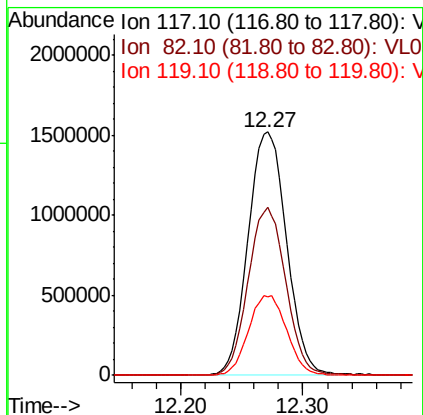
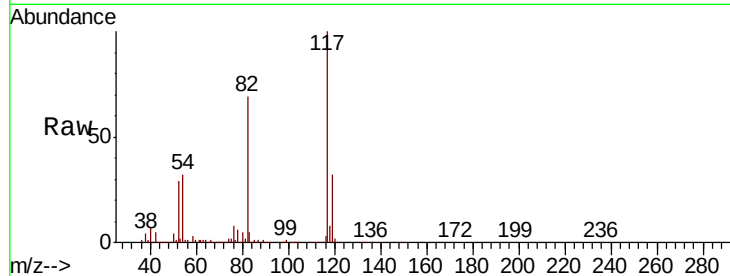
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.27 min Scan# 2903  
Delta R.T. -0.03 min  
Lab File: VL032529.D  
Acq: 25 Sep 2018 4:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
OUTDOOR-AMBIENTDL

Tot Ion:117 Resp: 3308579  
Ion Ratio Lower Upper  
117 100  
82 68.0 53.0 79.6  
119 32.7 45.9 68.9#

Manual Integrations  
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.900 ppbv  
RT: 14.61 min Scan# 3630  
Delta R.T. -0.03 min  
Lab File: VL032529.D  
Acq: 25 Sep 2018 4:18

Tgt Ion: 95 Resp: 2470090  
Ion Ratio Lower Upper  
95 100  
174 59.1 46.3 69.5  
175 4.1 3.4 5.0

