

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\  
 Data File : VL035927.D  
 Acq On : 12 Nov 2020 23:57  
 Operator : SY/AP  
 Sample : L4721-02DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LA-2DL

Manual Integrations  
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 11/16/2020 2:31:19 PM

Quant Time: Nov 13 03:39:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1106019  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3871401  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3606373  | 10.00 | ppbv  | -0.01    |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2599856  | 10.15    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.50% |

| Target Compounds       | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|------------------------|------|------|----------|---------|--------|--------|
| 9) Propene             | 3.01 | 41   | 11439    | 0.236   | ppbv   | 84     |
| 13) Ethanol            | 3.60 | 45   | 2081559  | 197.923 | ppbv   | 93     |
| 15) Acetone            | 3.84 | 43   | 180125   | 1.523   | ppbv   | 96     |
| 19) Isopropyl Alcohol  | 3.96 | 45   | 808614   | 11.128  | ppbv   | 99     |
| 20) Methylene Chloride | 4.33 | 84   | 48606m   | 0.584   | ppbv   |        |
| 26) Hexane             | 5.68 | 57   | 47764    | 0.372   | ppbv # | 45     |
| 53) Toluene            | 9.80 | 91   | 76728    | 0.221   | ppbv   | 99     |

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

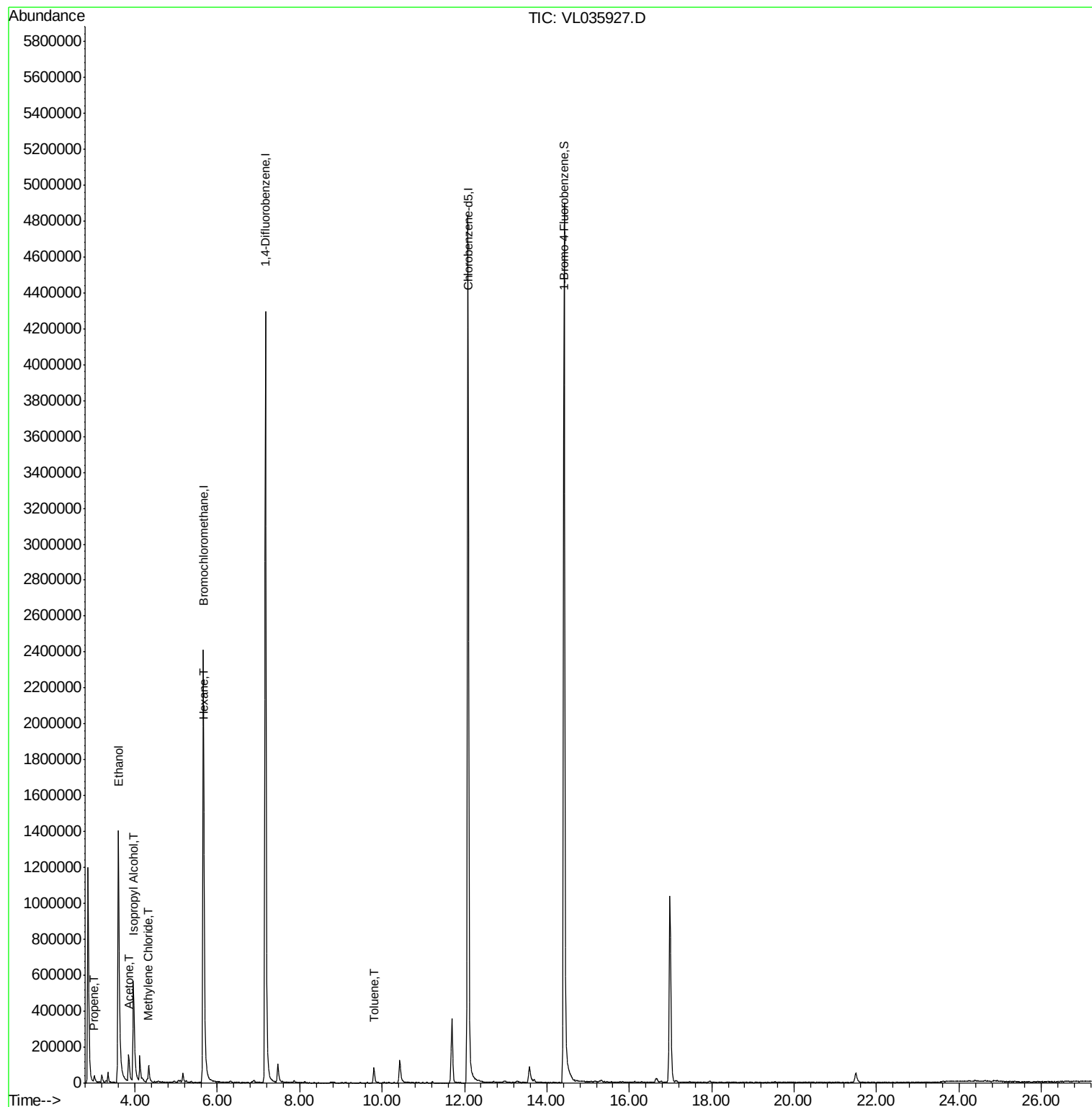
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111220\  
Data File : VL035927.D  
Acq On : 12 Nov 2020 23:57  
Operator : SY/AP  
Sample : L4721-02DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

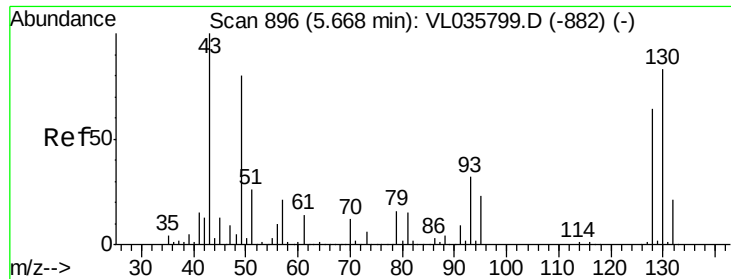
Instrument :  
MSVOA\_L  
ClientSampleId :  
LA-2DL

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Quant Time: Nov 13 03:39:16 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA\_L

ClientSampled :

LA-2DL

Tot Ion: 49 Resp: 1106019

Ion Ratio Lower Upper

49 100

128 77.5 41.5 124.6

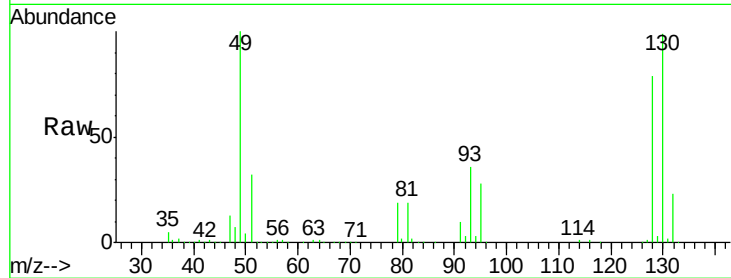
130 99.7 53.7 161.1

Manual Integrations

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

600000

500000

400000

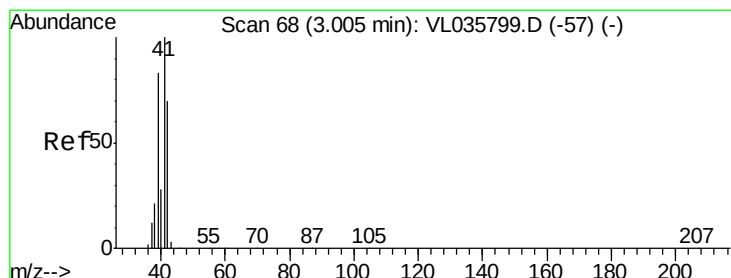
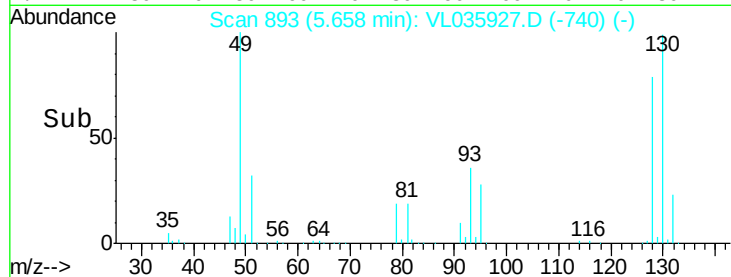
300000

200000

100000

0

Time-->



#9

Propene

Concen: 0.236 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035927.D

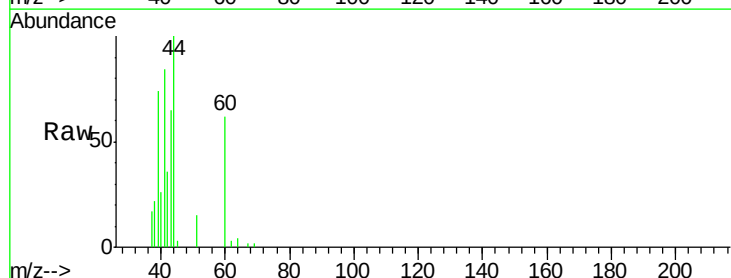
Acq: 12 Nov 2020 23:57

Tgt Ion: 41 Resp: 11439

Ion Ratio Lower Upper

41 100

42 57.1 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

8000

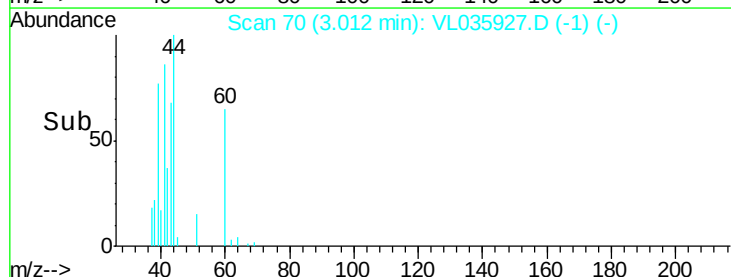
6000

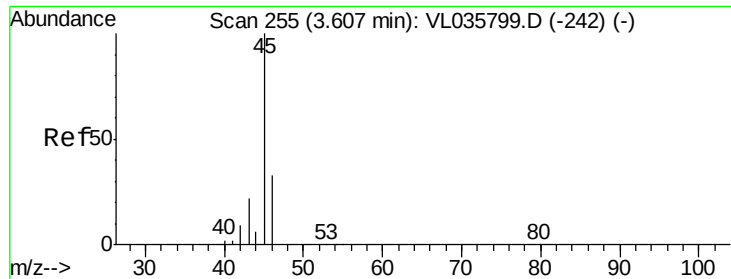
4000

2000

0

Time-->





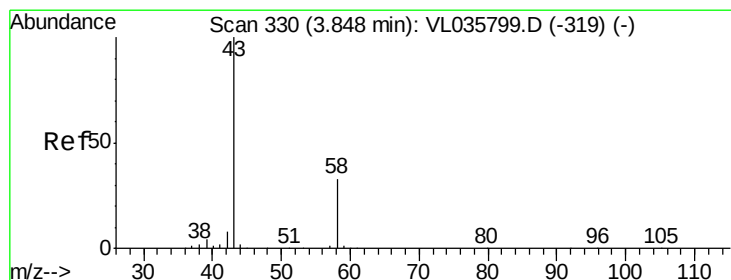
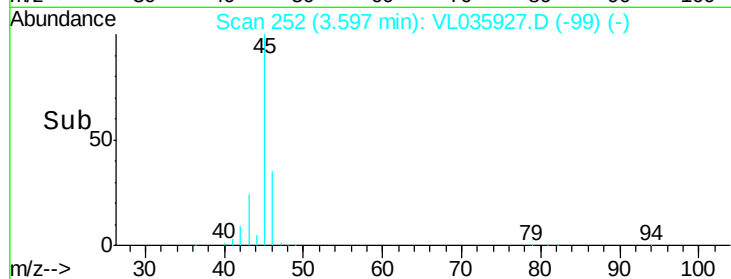
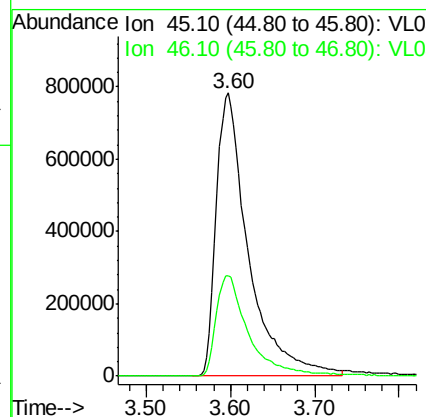
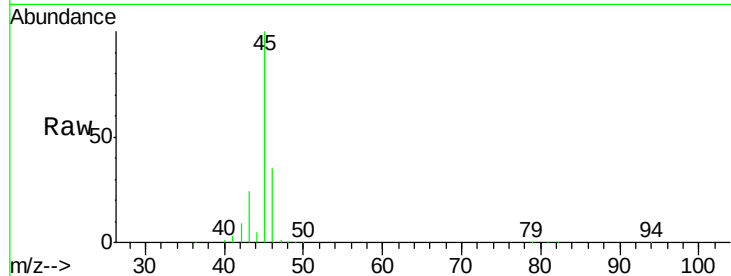
#13  
Ethanol  
Concen: 197.923 ppbv  
RT: 3.60 min Scan# 252  
Delta R.T. -0.01 min  
Lab File: VL035927.D  
Acq: 12 Nov 2020 23:57

Instrument :  
MSVOA\_L  
ClientSampled :  
LA-2DL

Tot Ion: 45 Resp: 2081559  
Ion Ratio Lower Upper  
45 100  
46 36.1 16.1 64.5

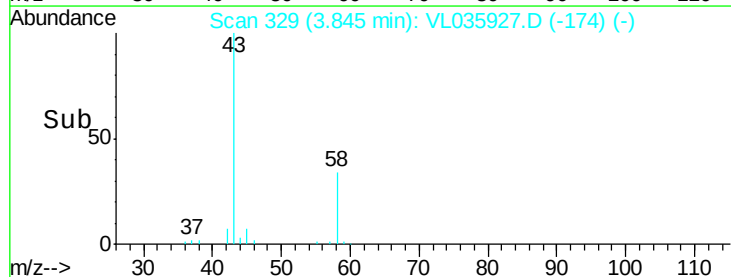
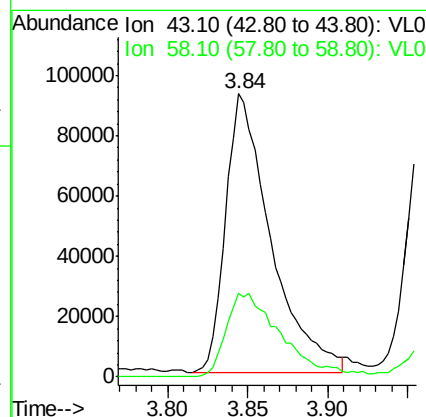
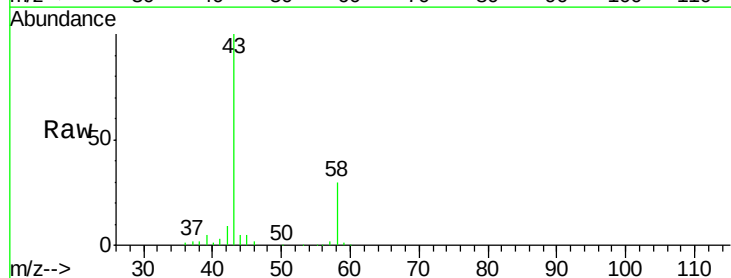
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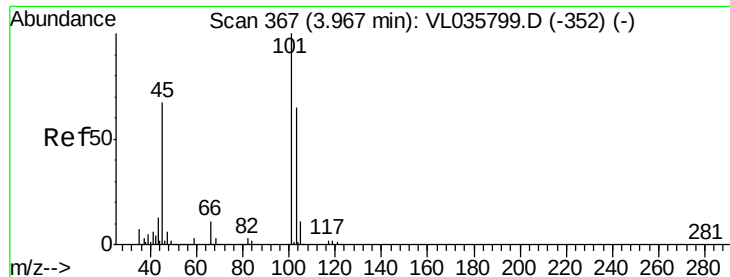
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#15  
Acetone  
Concen: 1.523 ppbv  
RT: 3.84 min Scan# 329  
Delta R.T. -0.00 min  
Lab File: VL035927.D  
Acq: 12 Nov 2020 23:57

Tgt Ion: 43 Resp: 180125  
Ion Ratio Lower Upper  
43 100  
58 36.7 27.5 41.3





#19

Isopropyl Alcohol

Concen: 11.128 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA\_L

ClientSampled :

LA-2DL

Tot Ion: 45 Resp: 808614

Ion Ratio Lower Upper

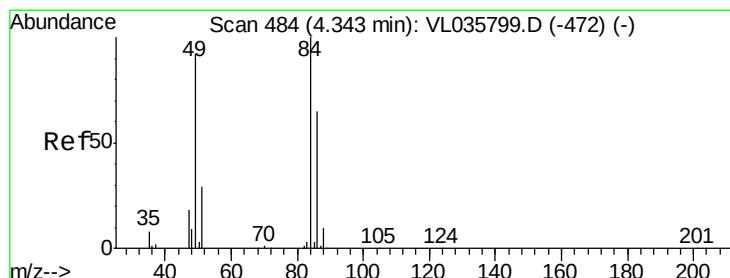
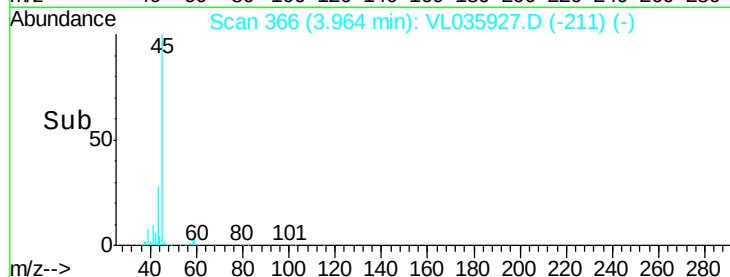
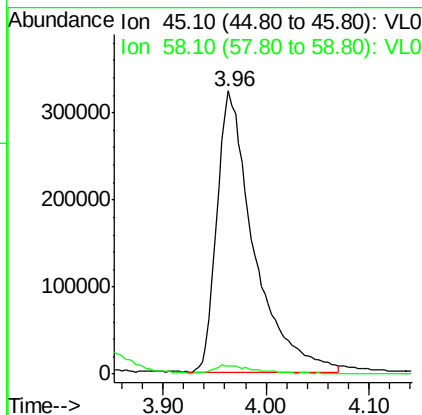
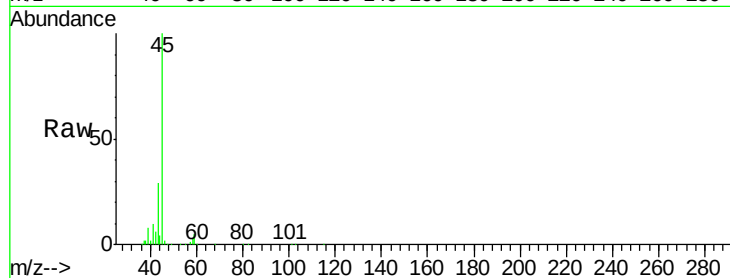
45 100

58 3.6 2.6 3.8

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#20

Methylene Chloride

Concen: 0.584 ppbv m

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Tgt Ion: 84 Resp: 48606

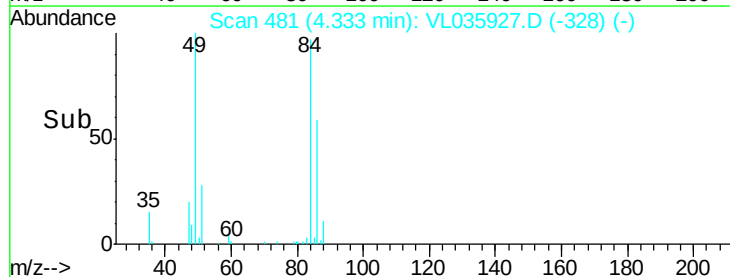
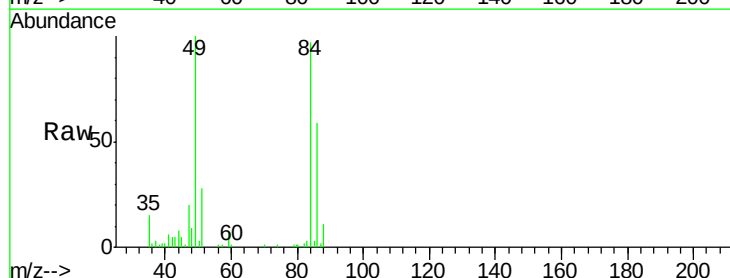
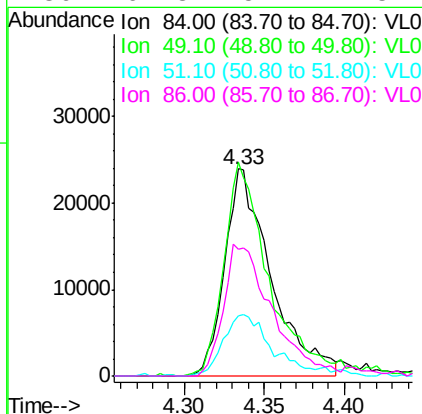
Ion Ratio Lower Upper

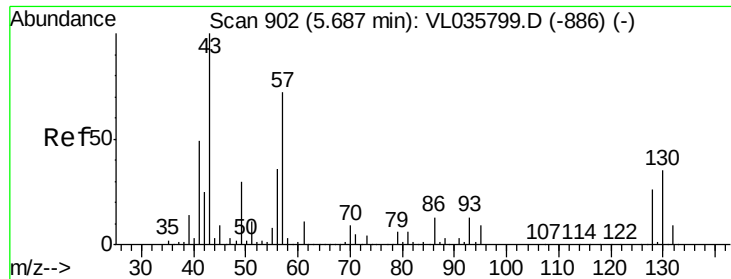
84 100

49 103.2 73.8 110.8

51 29.3 23.0 34.4

86 61.3 52.1 78.1





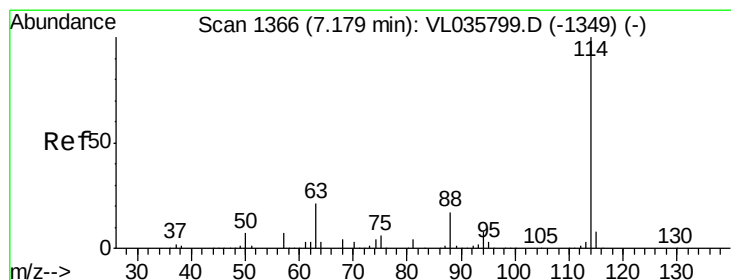
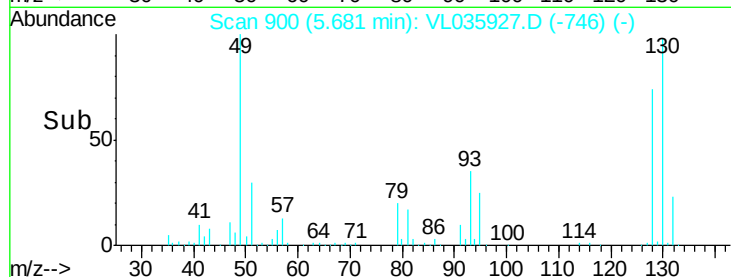
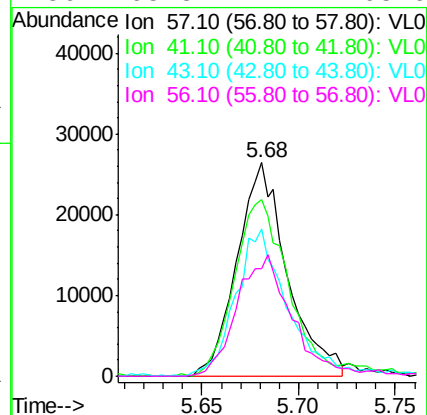
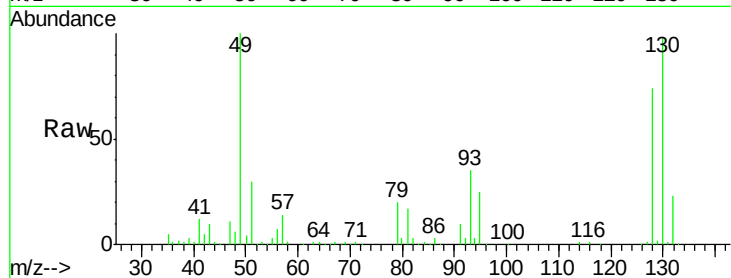
#26  
Hexane  
Concen: 0.372 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: VL035927.D  
Acq: 12 Nov 2020 23:57

Instrument :  
MSVOA\_L  
ClientSampled :  
LA-2DL

| Tot Ion | Ion  | Ratio | Lower  | Upper |
|---------|------|-------|--------|-------|
| 57      | 100  |       |        |       |
| 41      | 93.1 | 58.9  | 88.3#  |       |
| 43      | 72.9 | 150.2 | 225.2# |       |
| 56      | 63.3 | 42.4  | 63.6   |       |

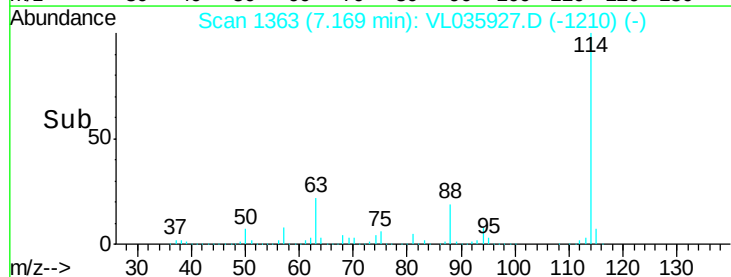
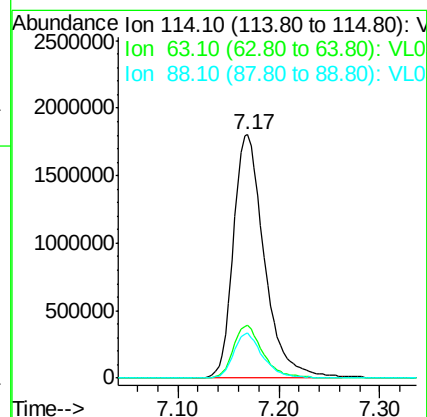
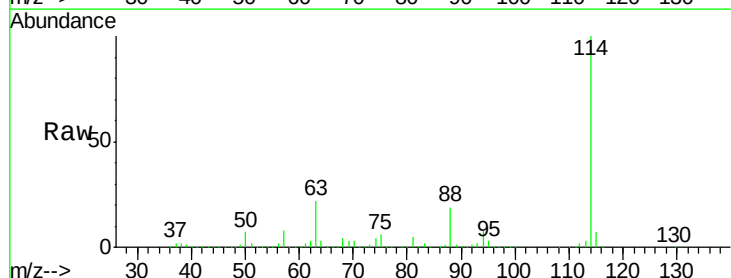
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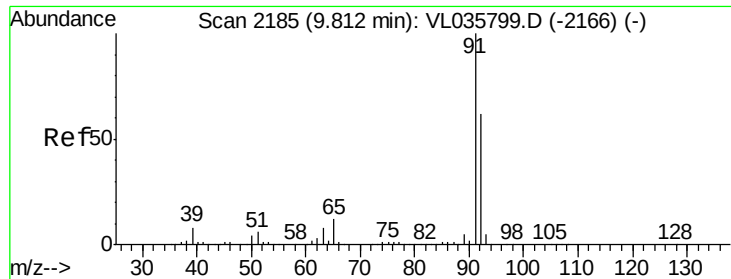
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1363  
Delta R.T. -0.01 min  
Lab File: VL035927.D  
Acq: 12 Nov 2020 23:57

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 114     | 100  |       |       |       |
| 63      | 21.1 | 16.1  | 24.1  |       |
| 88      | 17.6 | 13.7  | 20.5  |       |





#53

Toluene

Concen: 0.221 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA\_L

ClientSampleId :

LA-2DL

Tot Ion: 91 Resp: 76728

Ion Ratio Lower Upper

91 100

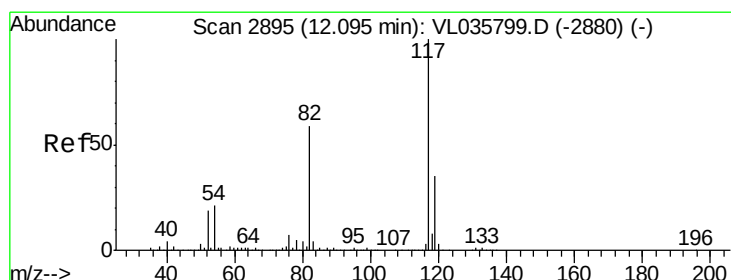
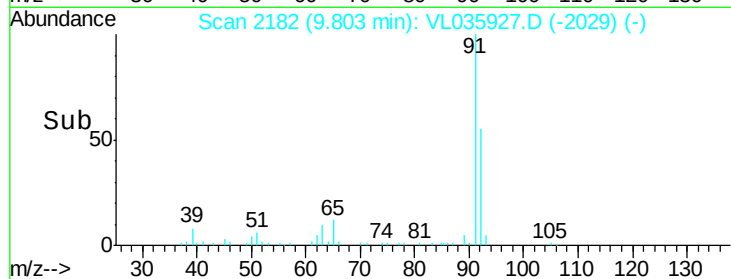
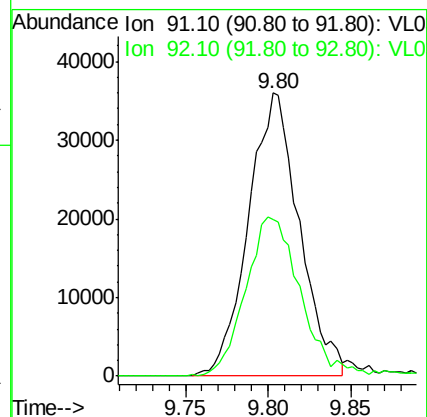
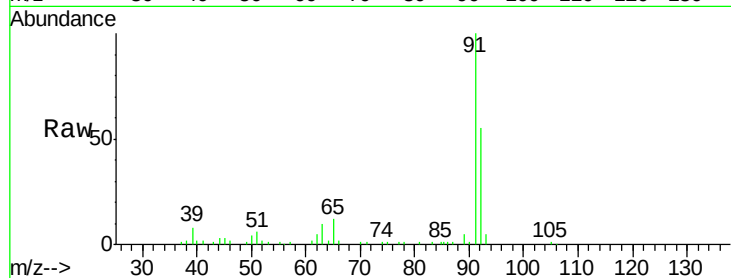
92 61.3 49.8 74.6

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

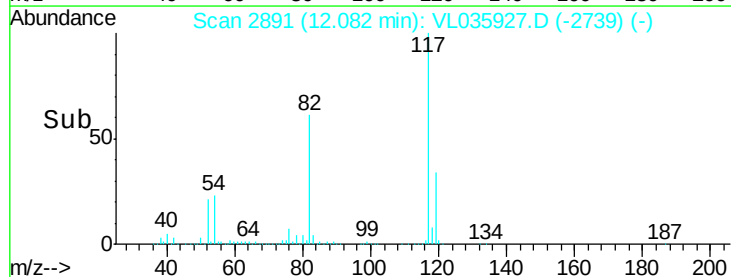
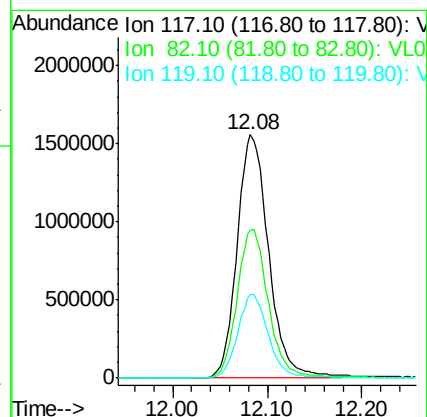
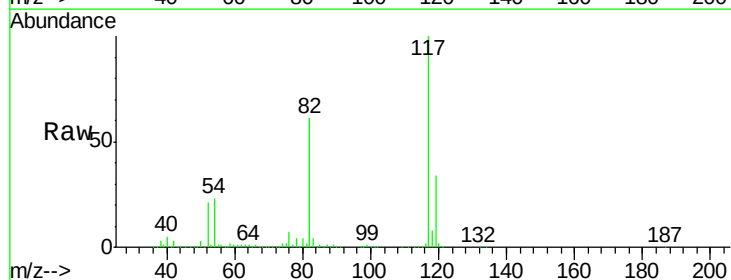
Tgt Ion: 117 Resp: 3606373

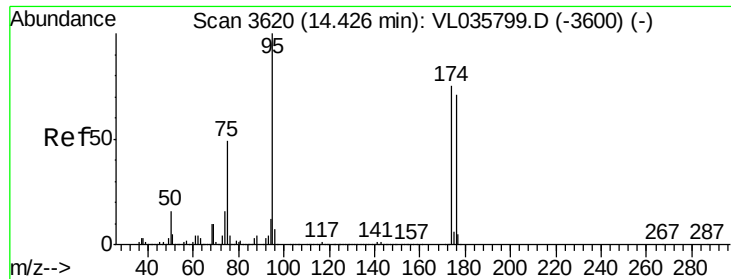
Ion Ratio Lower Upper

117 100

82 61.6 50.6 76.0

119 33.9 52.6 78.8#





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.147 ppbv  
 RT: 14.42 min Scan# 3617  
 Delta R.T. -0.01 min  
 Lab File: VL035927.D  
 Acq: 12 Nov 2020 23:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LA-2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 73.6  | 59.8  | 89.6  |
| 175     | 5.2   | 4.3   | 6.5   |

Manual Integrations  
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