

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\  
 Data File : VL035974.D  
 Acq On : 18 Nov 2020 15:36  
 Operator : SY/AP  
 Sample : L4773-02DL2 200X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL2

Quant Time: Nov 19 08:11:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Nov 04 02:40:06 2020  
 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   | 5.63  | 49   | 1079896  | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 3786548  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 3604153  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.38  | 95    | 2695538  | 10.53    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.30% |

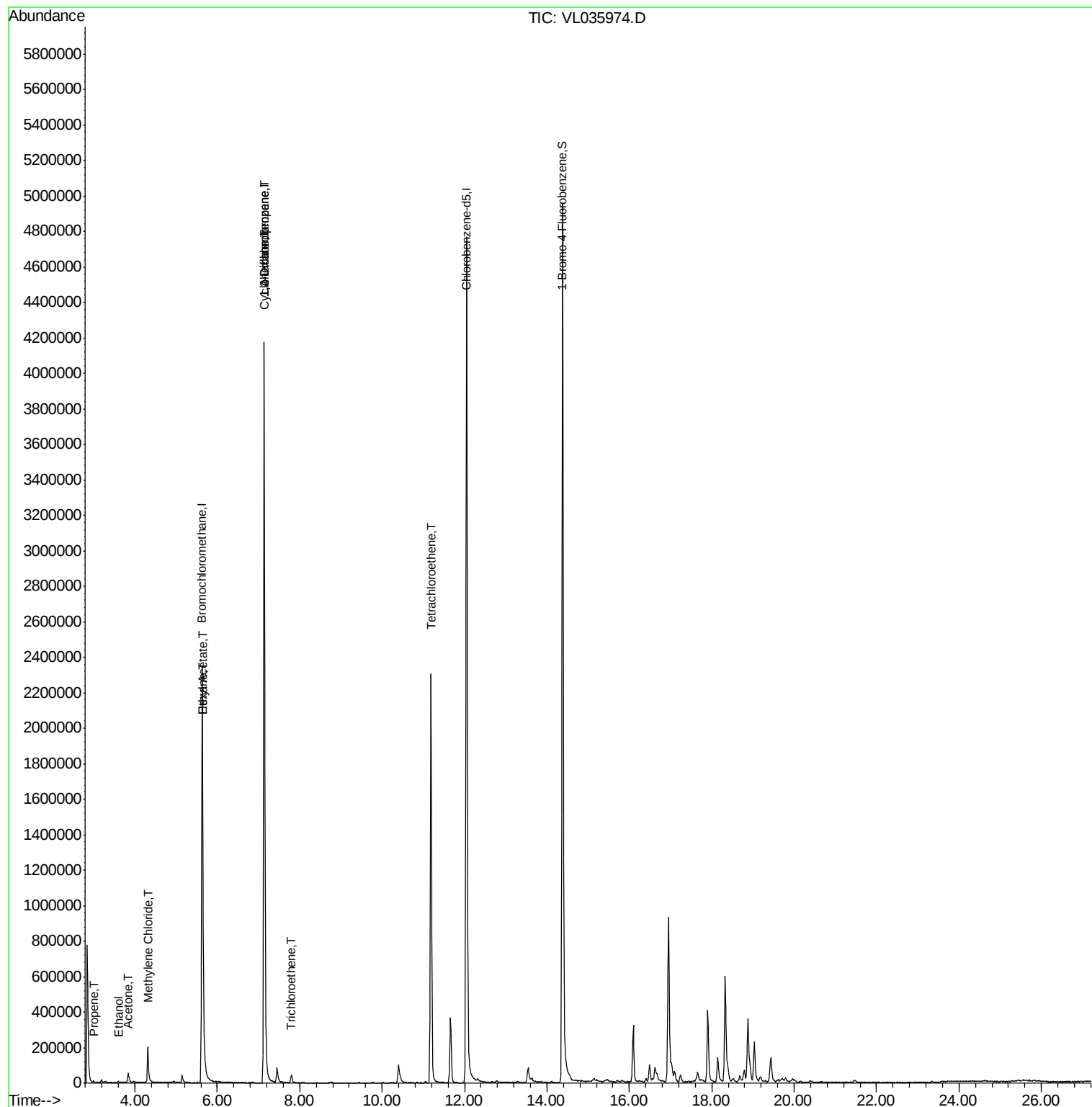
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene              | 3.00  | 41   | 3967     | 0.084 | ppbv   | 95     |
| 13) Ethanol             | 3.59  | 45   | 1680     | 0.164 | ppbv # | 35     |
| 15) Acetone             | 3.84  | 43   | 60778    | 0.526 | ppbv # | 57     |
| 20) Methylene Chloride  | 4.31  | 84   | 112585   | 1.385 | ppbv   | 94     |
| 25) Ethyl Acetate       | 5.65  | 43   | 34626    | 0.152 | ppbv # | 73     |
| 26) Hexane              | 5.65  | 57   | 58713    | 0.468 | ppbv # | 43     |
| 30) Cyclohexane         | 7.12  | 84   | 6076     | 0.044 | ppbv # | 6      |
| 38) Trichloroethene     | 7.80  | 130  | 13995    | 0.102 | ppbv   | 87     |
| 39) 1,2-Dichloropropane | 7.14  | 63   | 776064   | 8.188 | ppbv # | 30     |
| 52) Tetrachloroethene   | 11.19 | 164  | 643264   | 4.823 | ppbv   | 96     |

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

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Sample : L4773-02DL2 200X  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL2

Quant Time: Nov 19 08:11:07 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 885

Delta R.T. -0.04 min

Lab File: VL035974.D

Acq: 18 Nov 2020 15:36

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL2

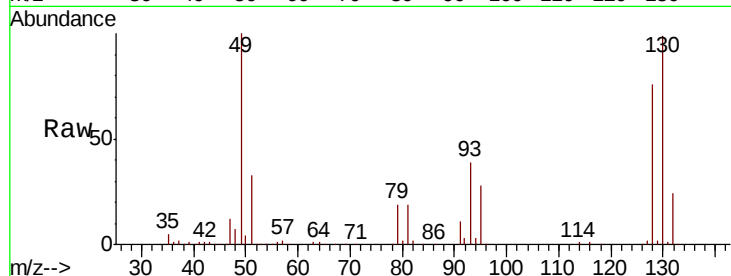
Tot Ion: 49 Resp: 1079896

Ion Ratio Lower Upper

49 100

128 77.6 41.5 124.6

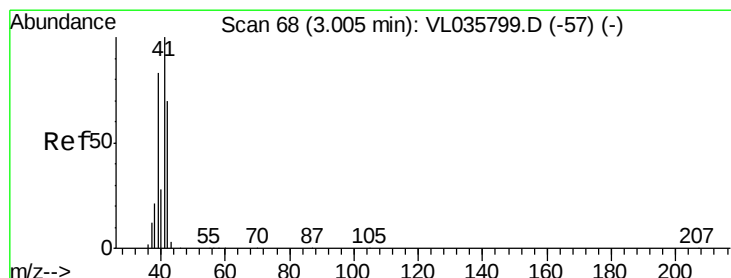
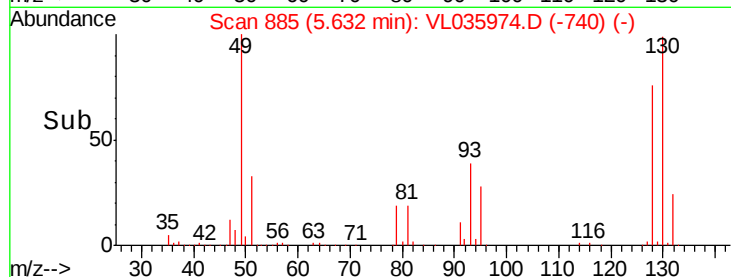
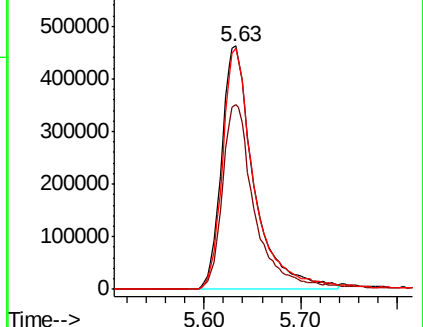
130 98.7 53.7 161.1



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



#9

Propene

Concen: 0.084 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035974.D

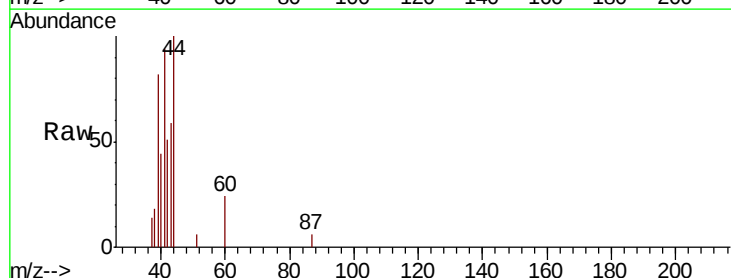
Acq: 18 Nov 2020 15:36

Tgt Ion: 41 Resp: 3967

Ion Ratio Lower Upper

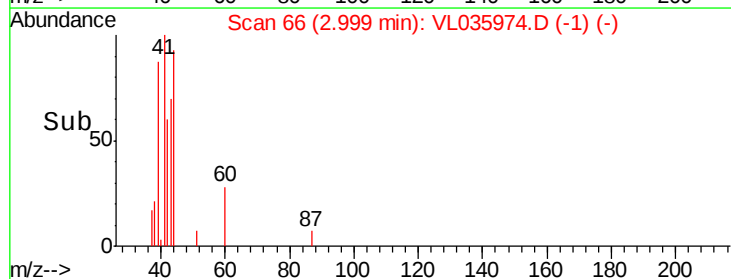
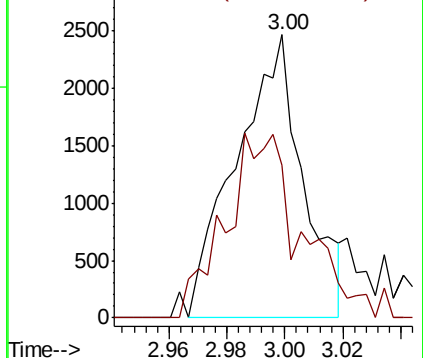
41 100

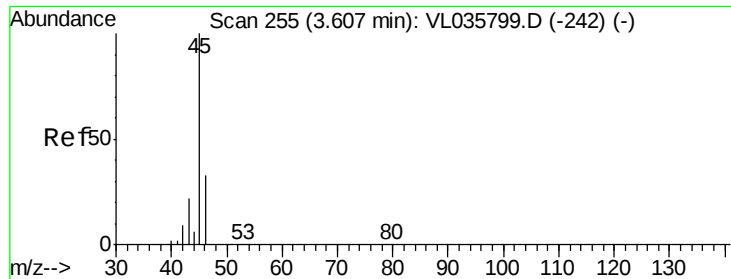
42 74.4 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.164 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL035974.D

Acq: 18 Nov 2020 15:36

Instrument :

MSVOA\_L

ClientSampleId :

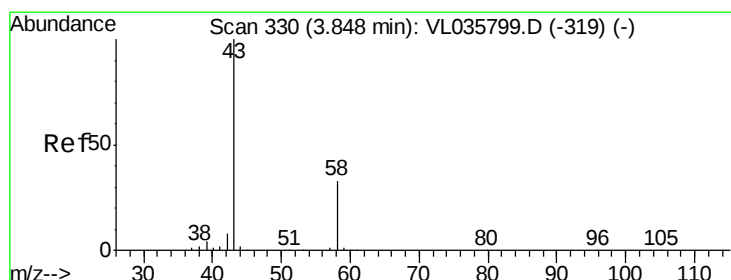
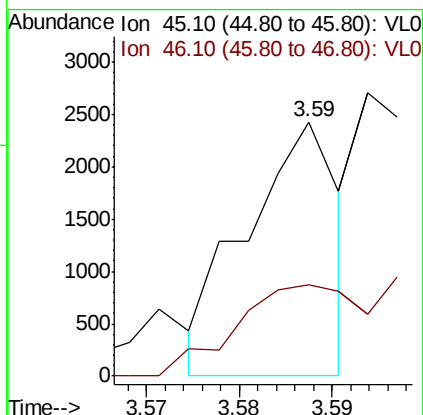
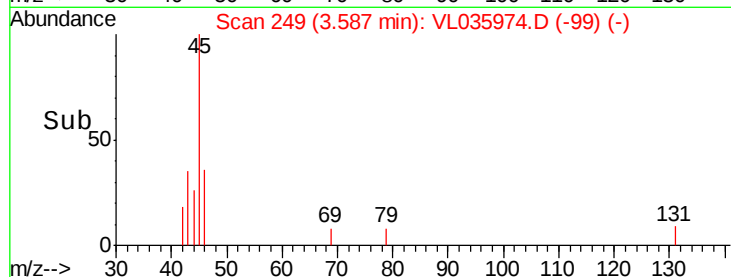
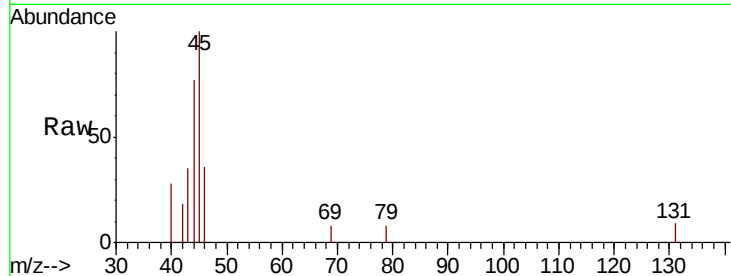
SV2DL2

Tot Ion: 45 Resp: 1680

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#



#15

Acetone

Concen: 0.526 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL035974.D

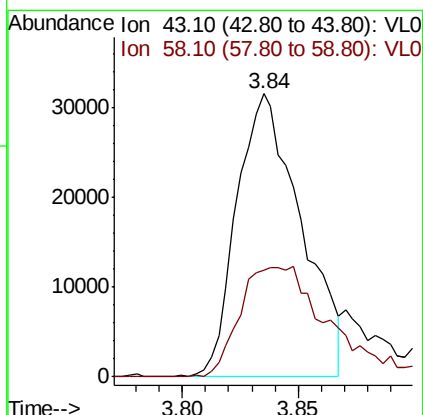
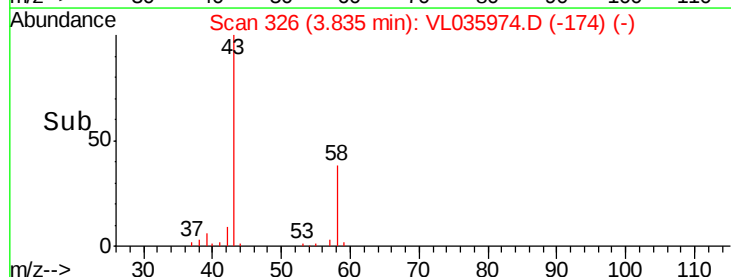
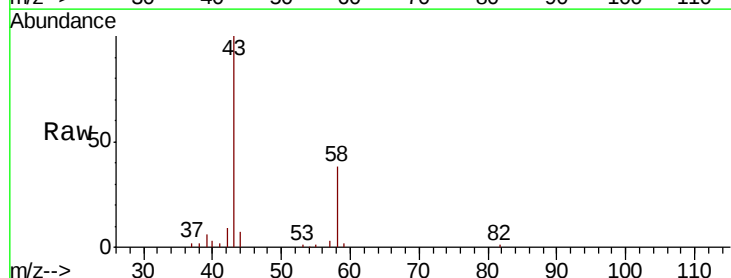
Acq: 18 Nov 2020 15:36

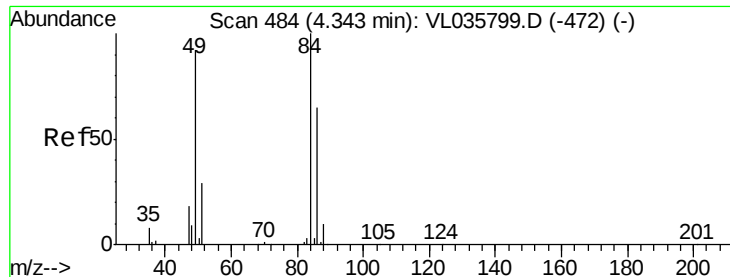
Tgt Ion: 43 Resp: 60778

Ion Ratio Lower Upper

43 100

58 59.0 27.5 41.3#

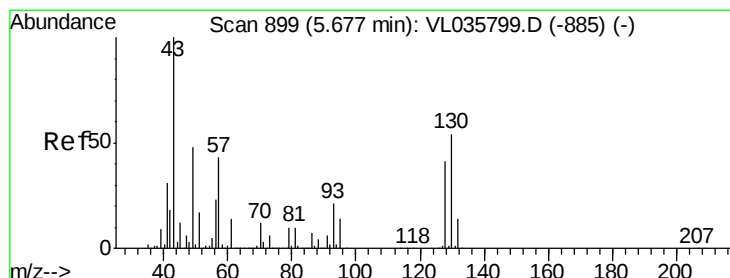
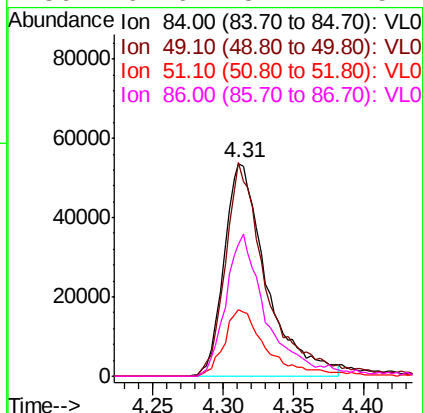
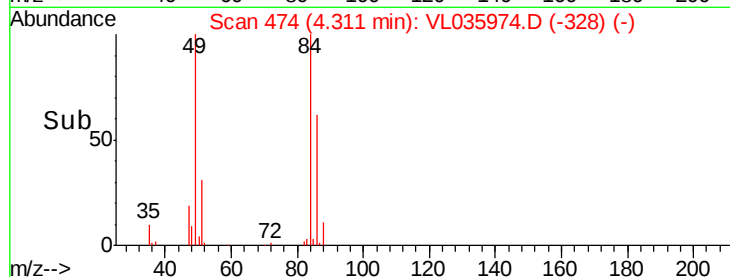
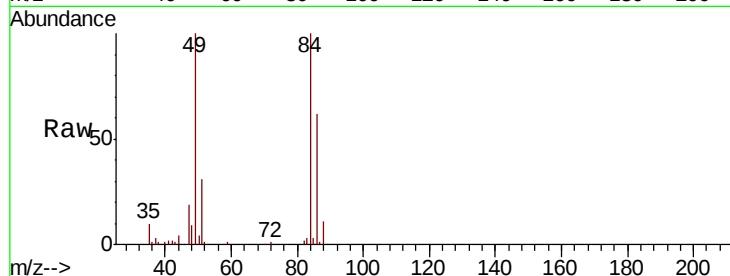




#20  
Methvlene Chloride  
Concen: 1.385 ppbv  
RT: 4.31 min Scan# 474  
Delta R.T. -0.03 min  
Lab File: VL035974.D  
Acq: 18 Nov 2020 15:36

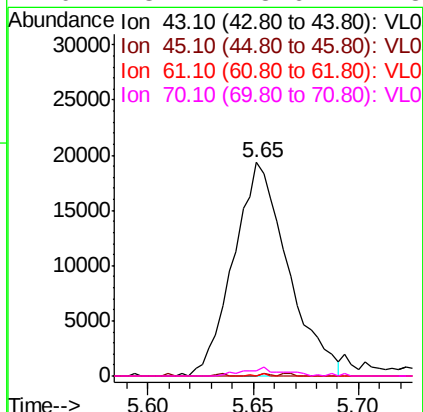
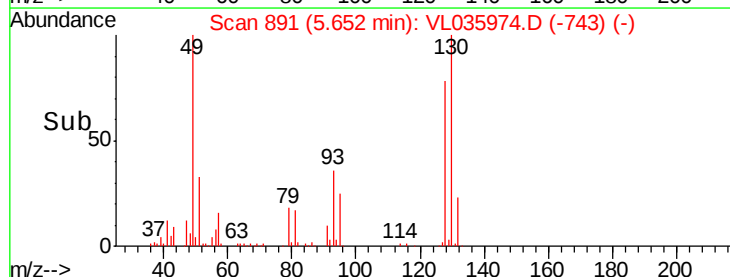
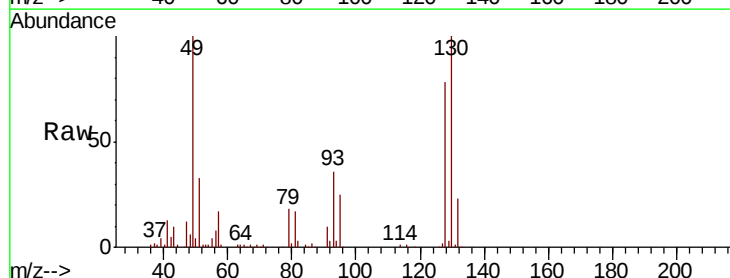
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL2

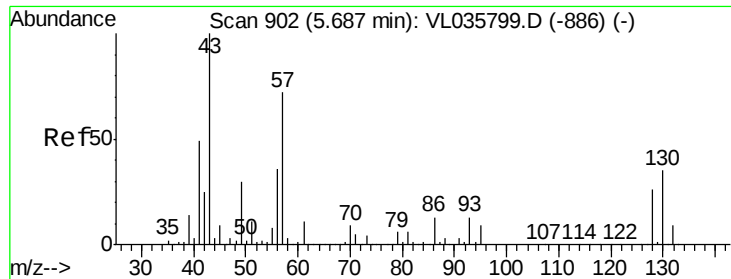
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 112585 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 100.2 | 73.8  | 110.8  |
| 51       | 31.4  | 23.0  | 34.4   |
| 86       | 61.6  | 52.1  | 78.1   |



#25  
Ethyl Acetate  
Concen: 0.152 ppbv  
RT: 5.65 min Scan# 891  
Delta R.T. -0.03 min  
Lab File: VL035974.D  
Acq: 18 Nov 2020 15:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 34626 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 0.6   | 8.5   | 12.7# |
| 61       | 0.2   | 10.7  | 16.1# |
| 70       | 3.1   | 8.6   | 12.8# |

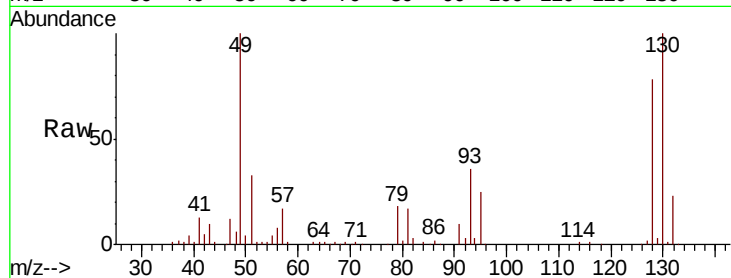




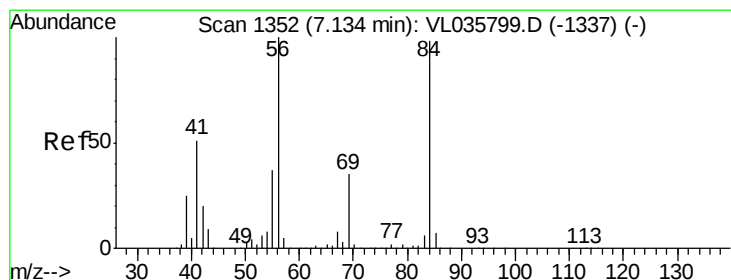
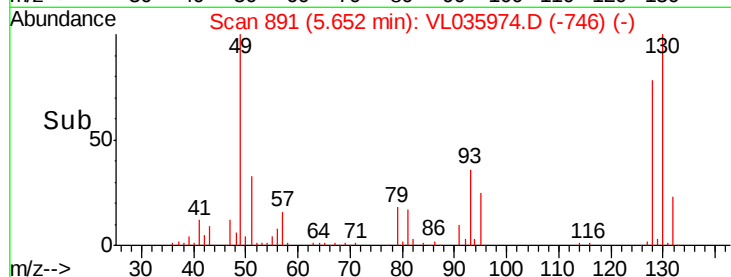
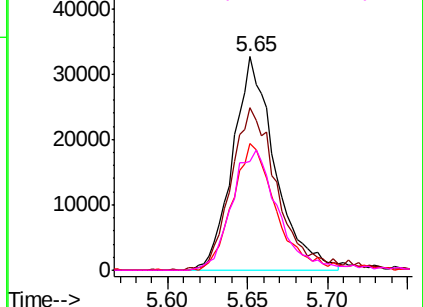
#26  
Hexane  
Concen: 0.468 ppbv  
RT: 5.65 min Scan# 891  
Delta R.T. -0.04 min  
Lab File: VL035974.D  
Acq: 18 Nov 2020 15:36

Instrument :  
MSVOA\_L  
ClientSampleID :  
SV2DL2

Tot Ion: 57 Resp: 58713  
Ion Ratio Lower Upper  
57 100  
41 86.2 58.9 88.3  
43 63.2 150.2 225.2#  
56 62.9 42.4 63.6

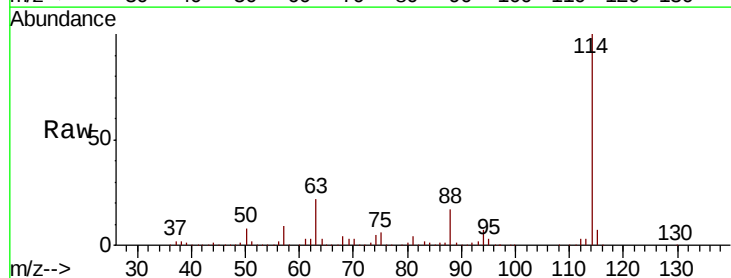


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

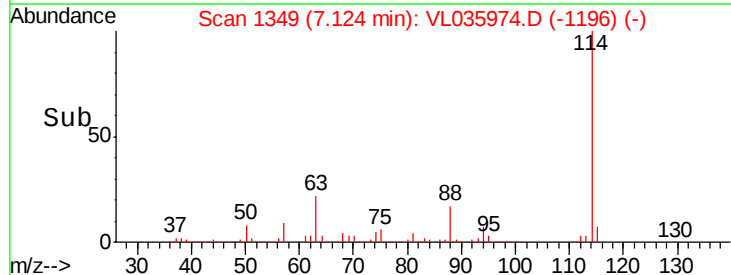
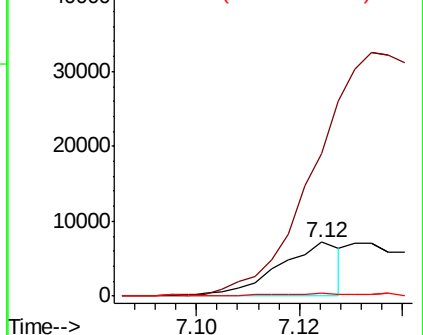


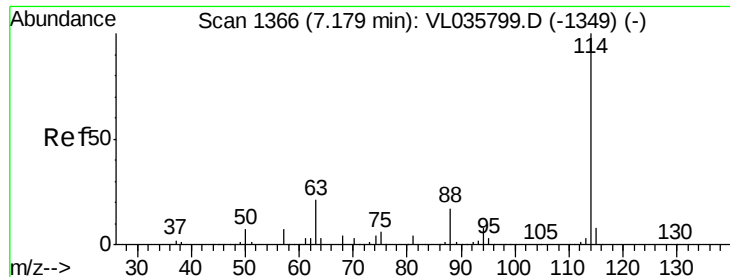
#30  
Cyclohexane  
Concen: 0.044 ppbv  
RT: 7.12 min Scan# 1349  
Delta R.T. -0.01 min  
Lab File: VL035974.D  
Acq: 18 Nov 2020 15:36

Tgt Ion: 84 Resp: 6076  
Ion Ratio Lower Upper  
84 100  
56 0.0 86.4 129.6#  
41 0.0 42.1 63.1#



Abundance Ion 84.20 (83.90 to 84.90): VL0  
Ion 56.10 (55.80 to 56.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0

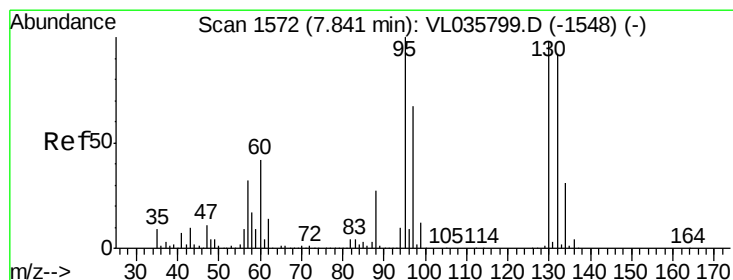
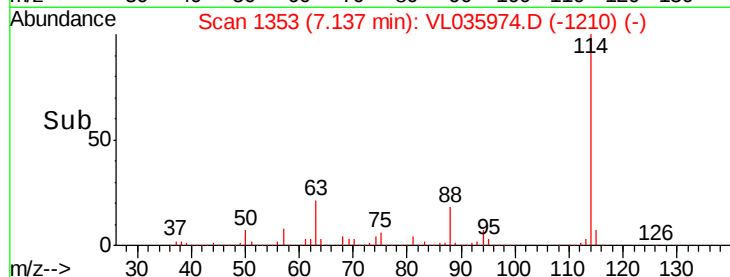
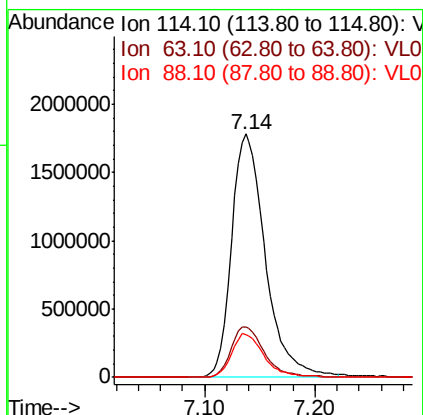
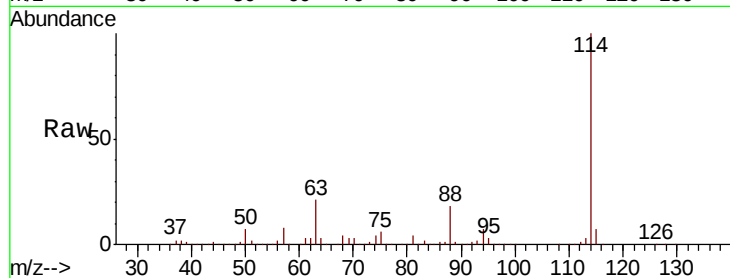




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.14 min Scan# 1353  
 Delta R.T. -0.04 min  
 Lab File: VL035974.D  
 Acq: 18 Nov 2020 15:36

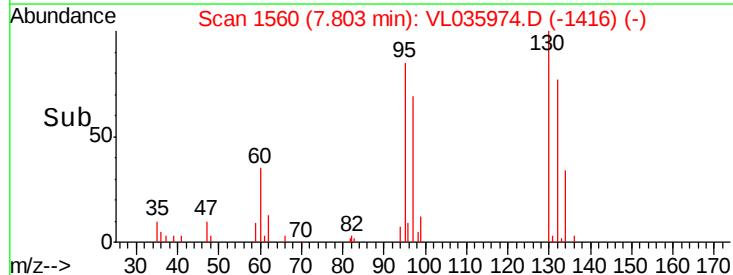
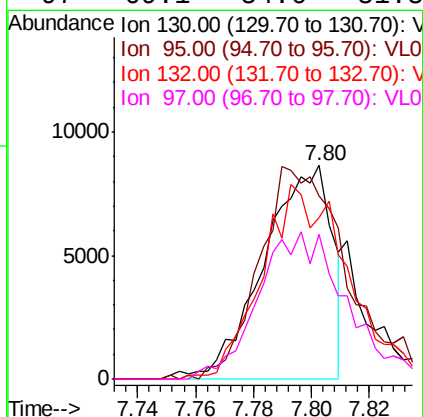
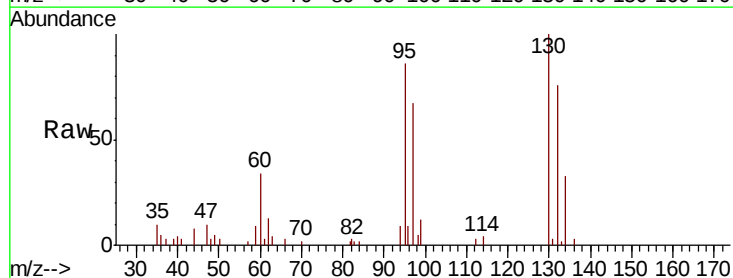
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL2

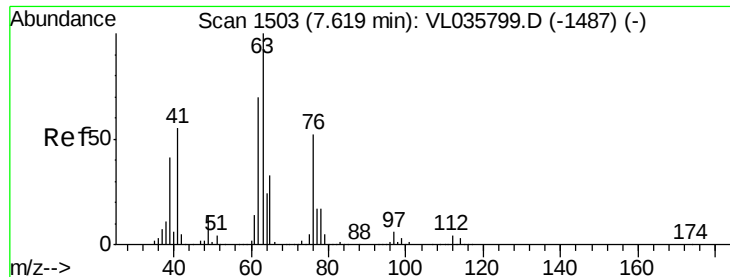
Tot Ion:114 Resp: 3786548  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 16.1 24.1  
 88 17.4 13.7 20.5



#38  
 Trichloroethene  
 Concen: 0.102 ppbv  
 RT: 7.80 min Scan# 1560  
 Delta R.T. -0.04 min  
 Lab File: VL035974.D  
 Acq: 18 Nov 2020 15:36

Tgt Ion:130 Resp: 13995  
 Ion Ratio Lower Upper  
 130 100  
 95 85.9 81.6 122.4  
 132 75.4 75.1 112.7  
 97 69.1 54.6 81.8





#39

1,2-Dichloropropane

Concen: 8.188 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.48 min

Lab File: VL035974.D

Acq: 18 Nov 2020 15:36

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL2

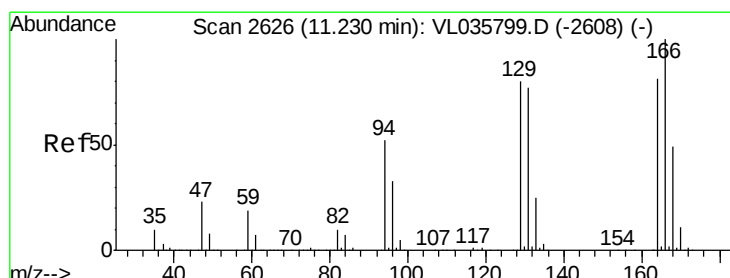
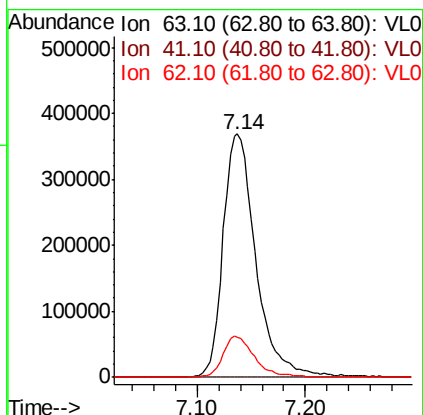
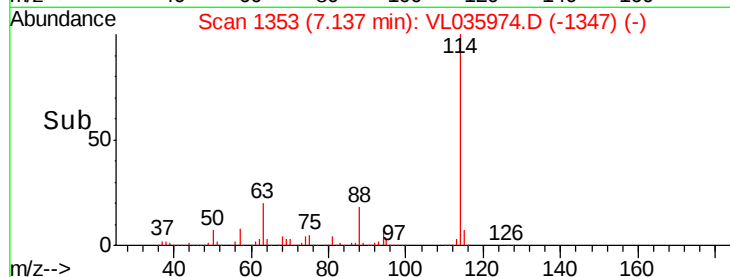
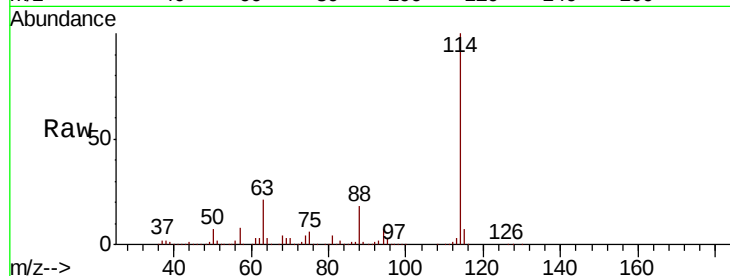
Tot Ion: 63 Resp: 776064

Ion Ratio Lower Upper

63 100

41 0.1 43.8 65.6#

62 16.7 56.2 84.2#



#52

Tetrachloroethene

Concen: 4.823 ppbv

RT: 11.19 min Scan# 2613

Delta R.T. -0.04 min

Lab File: VL035974.D

Acq: 18 Nov 2020 15:36

Tgt Ion: 164 Resp: 643264

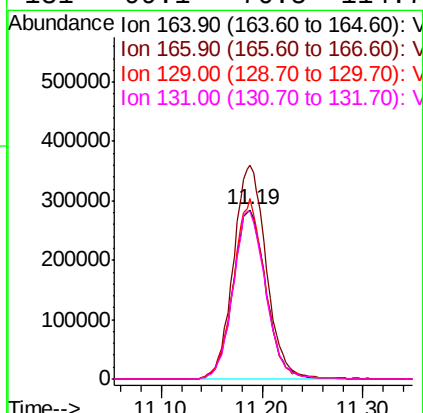
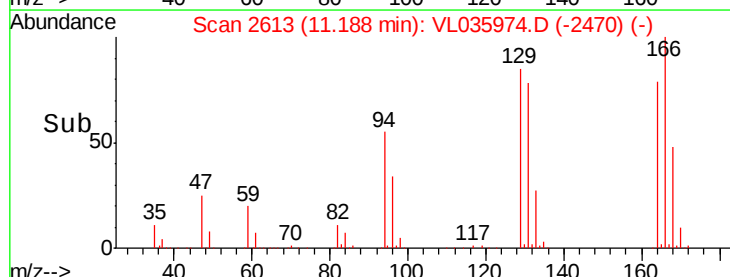
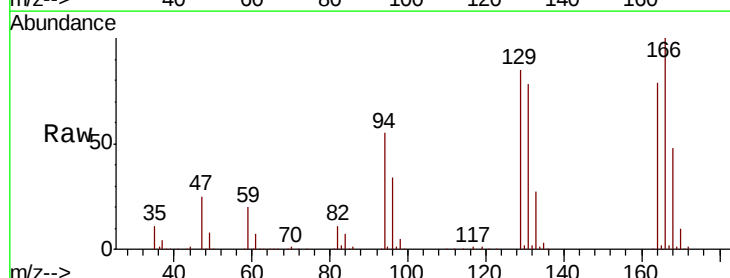
Ion Ratio Lower Upper

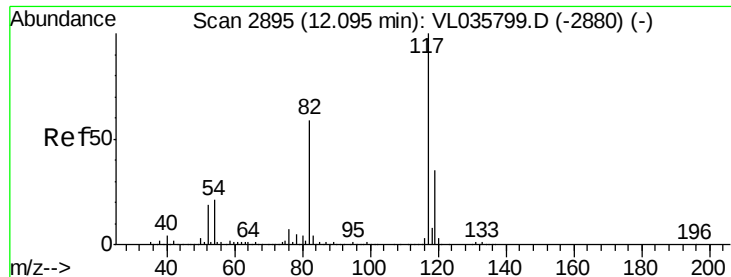
164 100

166 126.3 99.3 148.9

129 106.9 79.3 118.9

131 99.1 76.5 114.7

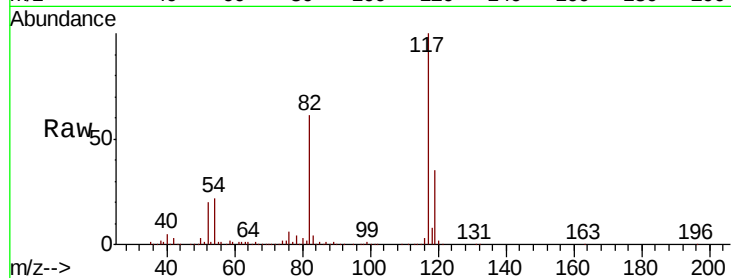




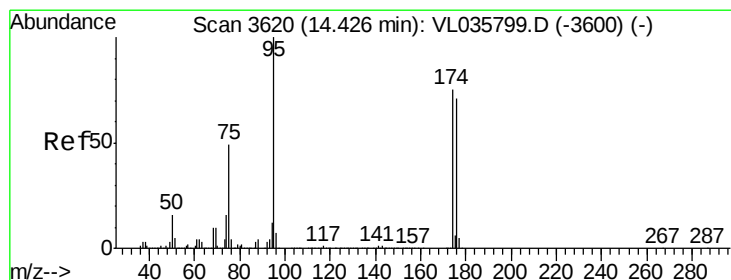
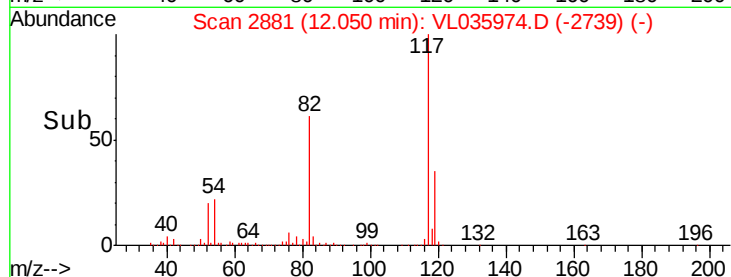
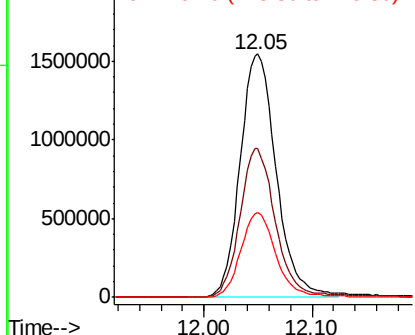
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.05 min Scan# 2881  
Delta R.T. -0.04 min  
Lab File: VL035974.D  
Acq: 18 Nov 2020 15:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL2

Tot Ion:117 Resp: 3604153  
Ion Ratio Lower Upper  
117 100  
82 61.3 50.6 76.0  
119 34.5 52.6 78.8#

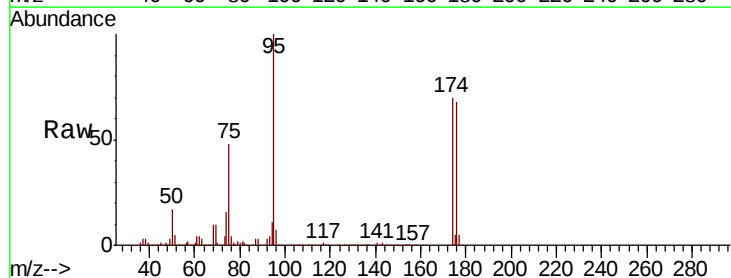


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.527 ppbv  
RT: 14.38 min Scan# 3606  
Delta R.T. -0.04 min  
Lab File: VL035974.D  
Acq: 18 Nov 2020 15:36

Tgt Ion: 95 Resp: 2695538  
Ion Ratio Lower Upper  
95 100  
174 71.5 59.8 89.6  
175 4.9 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0  
Ion 174.00 (173.70 to 174.70): V  
Ion 175.00 (174.70 to 175.70): V

