

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL021419\  
 Data File : VL033209.D  
 Acq On : 14 Feb 2019 22:16  
 Operator : SY/AP  
 Sample : K1483-04  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:19:26 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 06 09:13:11 2019

QLast Update : Wed Feb 06 09:13:11 2019

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 956048   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 2168643  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2208433  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1749840  | 10.29    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.90% |

#### Target Compounds

|                                |       |     |          |        |        | Qvalue |
|--------------------------------|-------|-----|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08  | 85  | 29395    | 0.161  | ppbv   | 95     |
| 3) Chlorodifluoromethane       | 3.01  | 51  | 36877    | 0.320  | ppbv   | 94     |
| 4) Chloromethane               | 3.17  | 50  | 7522     | 0.124  | ppbv   | 91     |
| 7) Chloroethane                | 3.60  | 64  | 127895   | 6.164  | ppbv   | 97     |
| 9) Propene                     | 3.24  | 41  | 84123    | 1.513  | ppbv   | 91     |
| 10) Heptane                    | 8.26  | 43  | 16418    | 0.098  | ppbv   | 93     |
| 11) Trichlorofluoromethane     | 4.00  | 101 | 115134   | 0.778  | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55  | 101 | 321744   | 3.137  | ppbv   | 99     |
| 13) Ethanol                    | 3.66  | 45  | 54433    | 2.935  | ppbv   | 97     |
| 15) Acetone                    | 3.91  | 43  | 696974   | 6.471  | ppbv # | 86     |
| 16) 1,3-Butadiene              | 3.39  | 39  | 62560    | 1.224  | ppbv # | 7      |
| 17) tert-Butyl alcohol         | 4.37  | 59  | 49906    | 2.430  | ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.35  | 96  | 184920   | 4.028  | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 4.03  | 45  | 84688    | 1.159  | ppbv # | 1      |
| 20) Methylene Chloride         | 4.41  | 84  | 75565    | 1.764  | ppbv # | 86     |
| 21) Allyl Chloride             | 4.44  | 41  | 4478     | 0.063  | ppbv # | 1      |
| 22) trans-1,2-Dichloroethene   | 4.96  | 96  | 18722    | 0.420  | ppbv # | 83     |
| 23) Vinyl Acetate              | 5.14  | 43  | 29392    | 0.157  | ppbv # | 1      |
| 24) 1,1-Dichloroethane         | 5.09  | 63  | 6454477  | 48.882 | ppbv   | 98     |
| 25) Ethyl Acetate              | 5.77  | 43  | 22782    | 0.094  | ppbv # | 75     |
| 26) Hexane                     | 5.78  | 57  | 77052    | 0.678  | ppbv # | 41     |
| 29) Chloroform                 | 5.85  | 83  | 14154    | 0.081  | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.64  | 61  | 31654    | 0.278  | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane      | 6.62  | 97  | 18175502 | 94.741 | ppbv   | 89     |
| 34) 2-Butanone                 | 5.35  | 43  | 32126    | 0.234  | ppbv   | 98     |
| 36) Benzene                    | 7.01  | 78  | 45964    | 0.209  | ppbv   | 96     |
| 37) 1,2-Dichloroethane         | 6.42  | 62  | 25680    | 0.211  | ppbv # | 82     |
| 38) Trichloroethene            | 7.96  | 130 | 31619    | 0.336  | ppbv   | 83     |
| 39) 1,2-Dichloropropane        | 7.30  | 63  | 579747   | 6.679  | ppbv # | 26     |
| 40) 1,4-Dioxane                | 7.98  | 88  | 18415    | 0.584  | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane     | 7.99  | 57  | 39264    | 0.105  | ppbv # | 51     |
| 47) 1,1,2-Trichloroethane      | 9.61  | 97  | 16770    | 0.186  | ppbv   | 91     |
| 52) Tetrachloroethene          | 11.37 | 164 | 113594   | 1.345  | ppbv   | 90     |
| 53) Toluene                    | 9.95  | 91  | 48012    | 0.184  | ppbv # | 43     |
| 56) 1,1,1,2-Tetrachloroethane  | 11.84 | 131 | 8417     | 0.083  | ppbv # | 1      |
| 58) Ethyl Benzene              | 12.87 | 91  | 92074    | 0.258  | ppbv   | 89     |
| 59) m/p-Xylene                 | 13.15 | 91  | 109707   | 0.368  | ppbv # | 100    |
| 60) o-Xylene                   | 13.85 | 91  | 99354    | 0.343  | ppbv   | 99     |
| 74) 1,2,4-Trimethylbenzene     | 16.93 | 105 | 44047    | 0.133  | ppbv # | 79     |

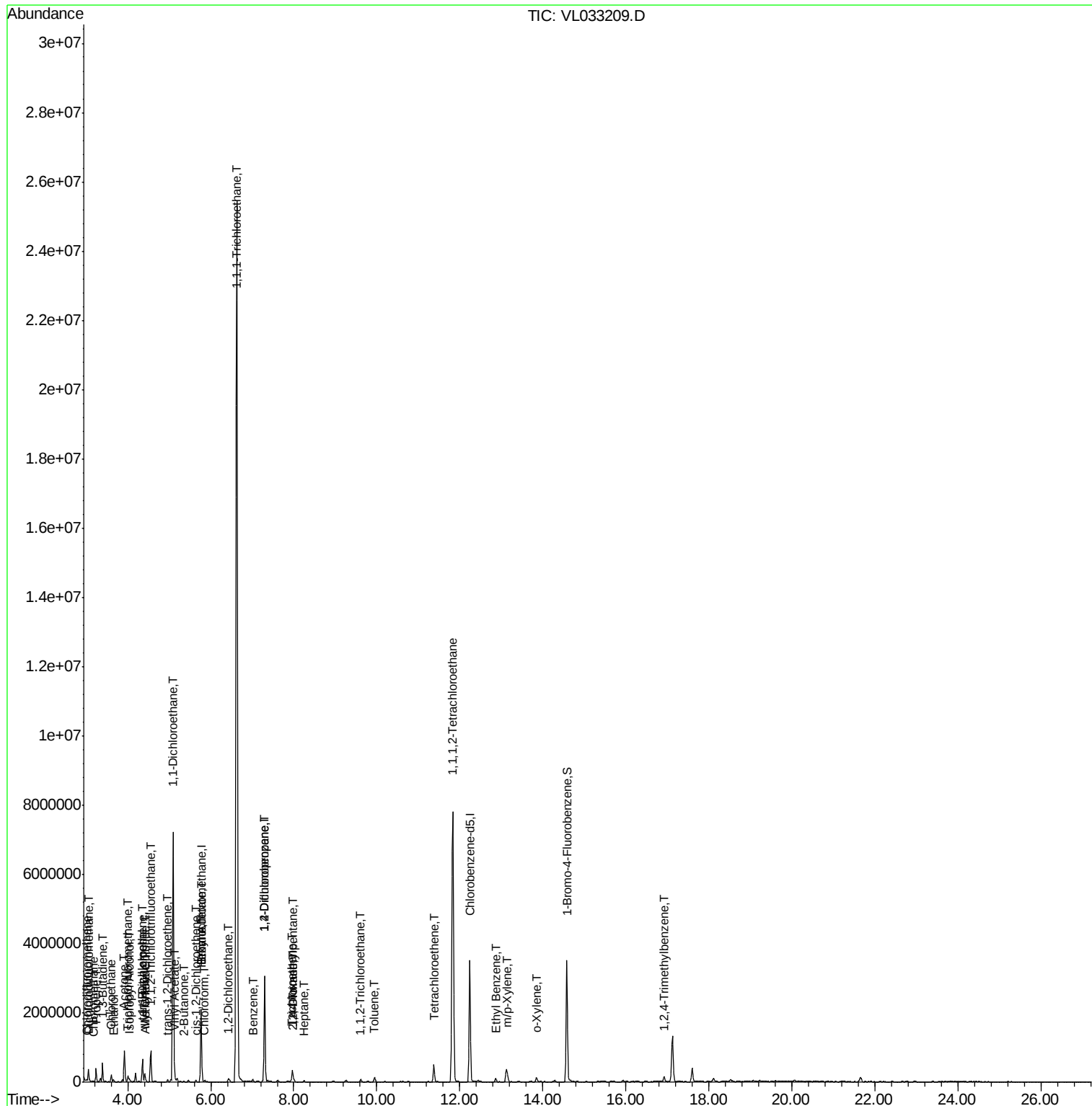
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL021419\  
Data File : VL033209.D  
Acq On : 14 Feb 2019 22:16  
Operator : SY/AP  
Sample : K1483-04  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

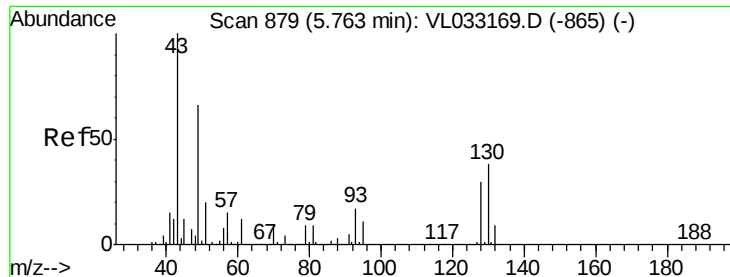
Quant Time: Feb 15 04:19:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 06 09:13:11 2019  
QLast Update : Wed Feb 06 09:13:11 2019  
Response via : Initial Calibration

| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

```
Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_L\DATA\VL021419\  
Data File : VL033209.D  
Acq On    : 14 Feb 2019   22:16  
Operator  : SY/AP  
Sample    : K1483-04  
Misc      : 400ml/MSV0A_L  
ALS Vial  : 1    Sample Multiplier: 1
```

Quant Time: Feb 15 04:19:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 06 09:13:11 2019  
QLast Update : Wed Feb 06 09:13:11 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

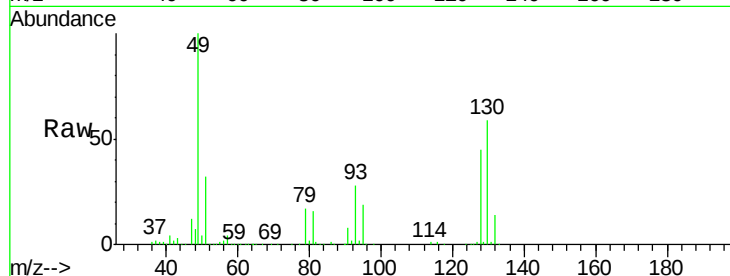
Tgt Ion: 49 Resp: 956048

Ion Ratio Lower Upper

49 100

128 45.9 23.6 71.0

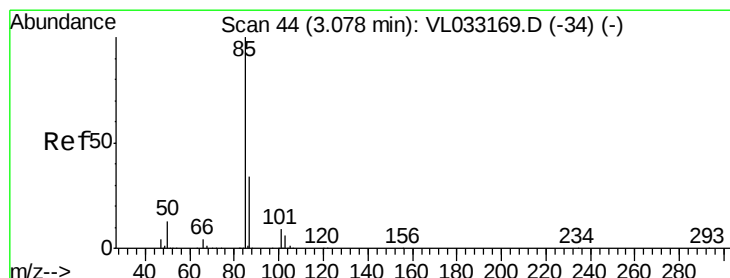
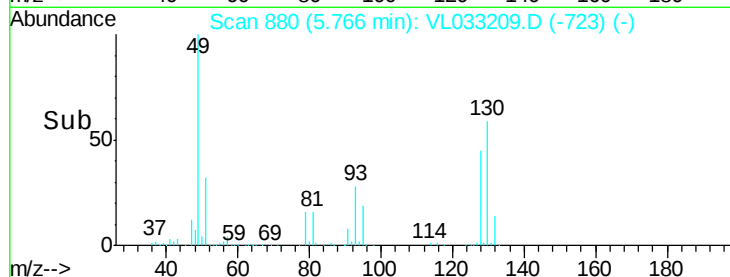
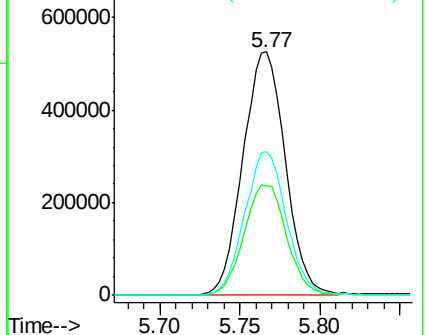
130 58.8 30.3 91.0



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



#2

Dichlorodifluoromethane

Concen: 0.161 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033209.D

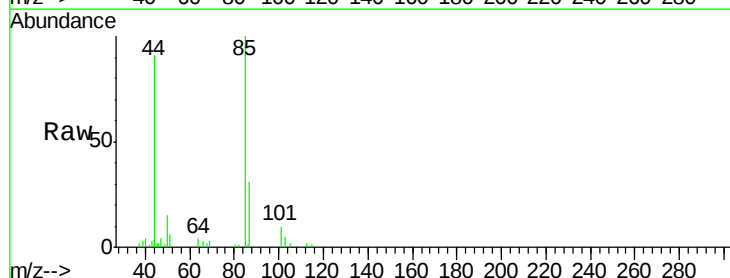
Acq: 14 Feb 2019 22:16

Tgt Ion: 85 Resp: 29395

Ion Ratio Lower Upper

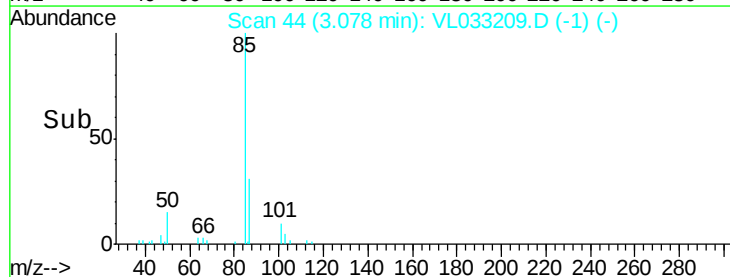
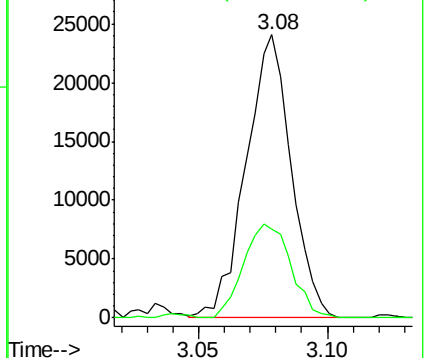
85 100

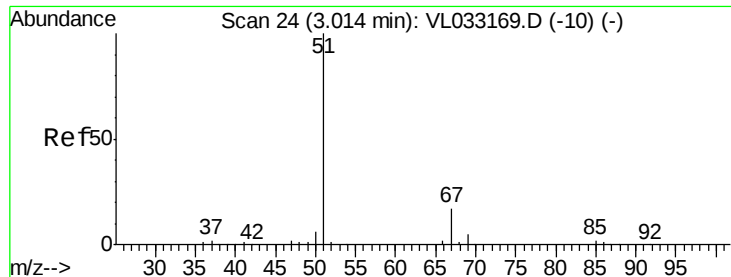
87 31.5 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.320 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033209.D

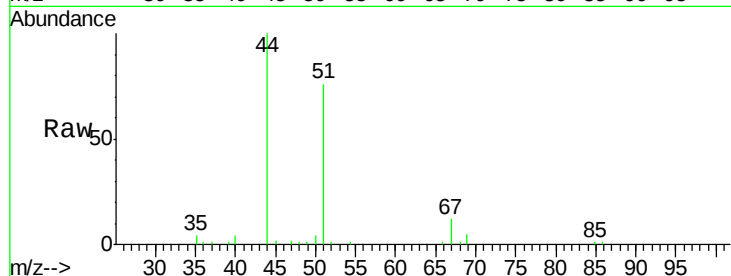
Acq: 14 Feb 2019 22:16

Tgt Ion: 51 Resp: 36877

Ion Ratio Lower Upper

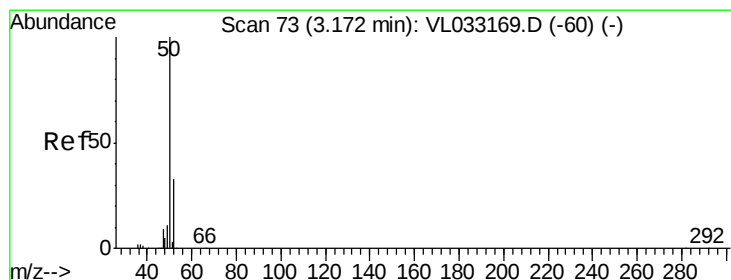
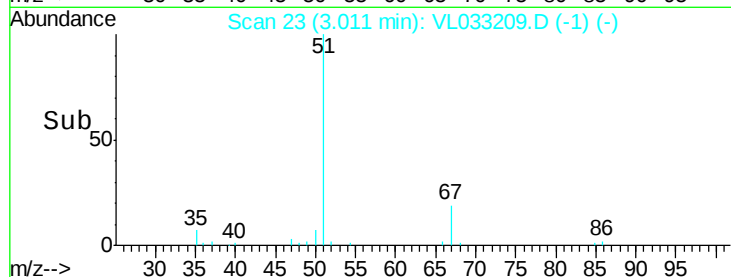
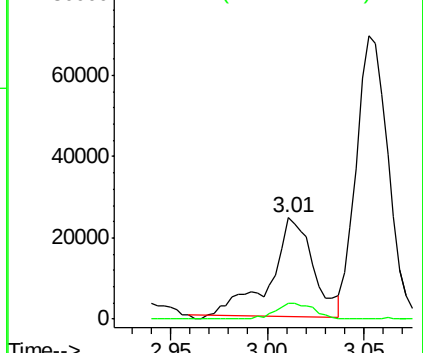
51 100

67 15.0 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.124 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033209.D

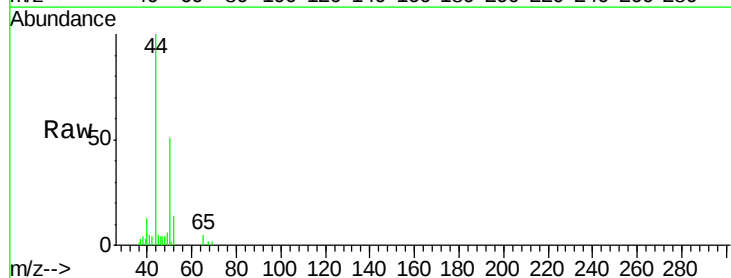
Acq: 14 Feb 2019 22:16

Tgt Ion: 50 Resp: 7522

Ion Ratio Lower Upper

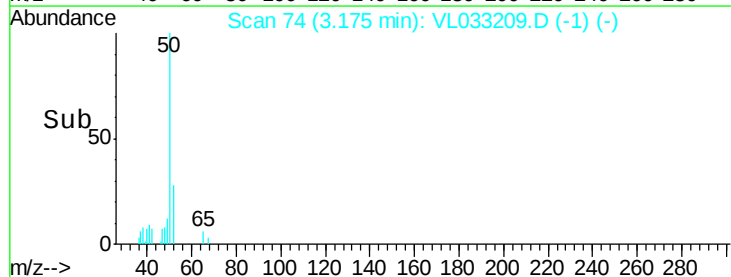
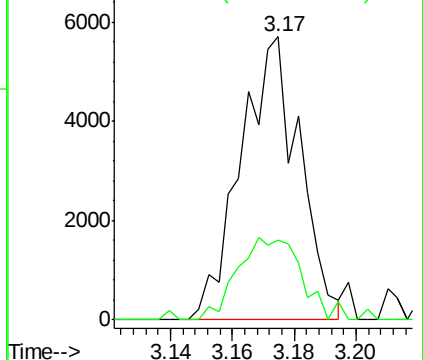
50 100

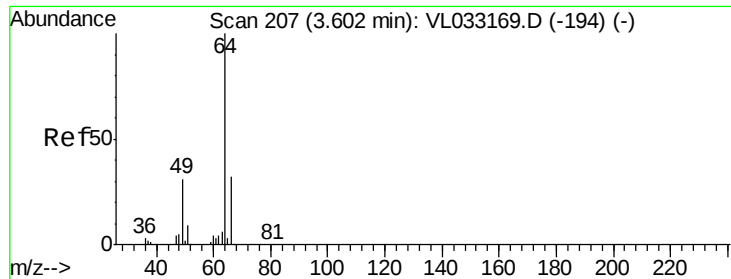
52 28.1 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 6.164 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033209.D

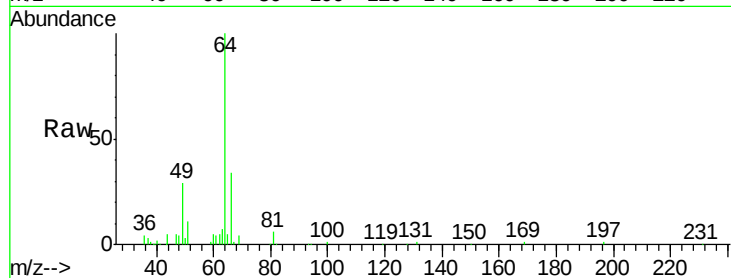
Acq: 14 Feb 2019 22:16

Tgt Ion: 64 Resp: 127895

Ion Ratio Lower Upper

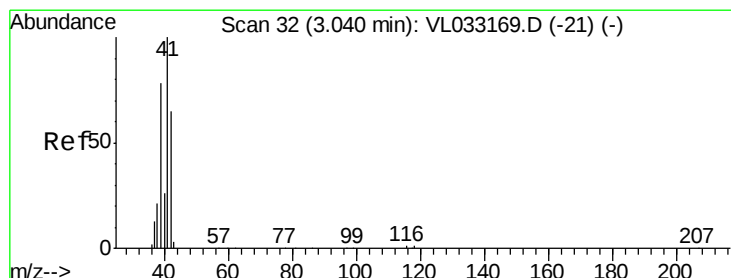
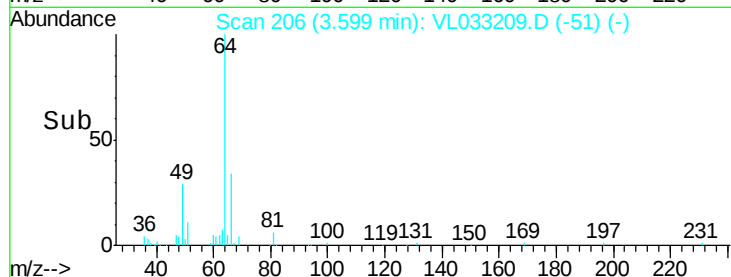
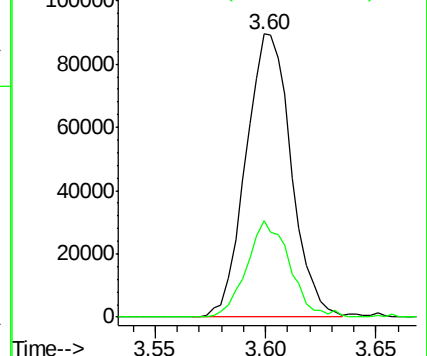
64 100

66 34.1 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.513 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033209.D

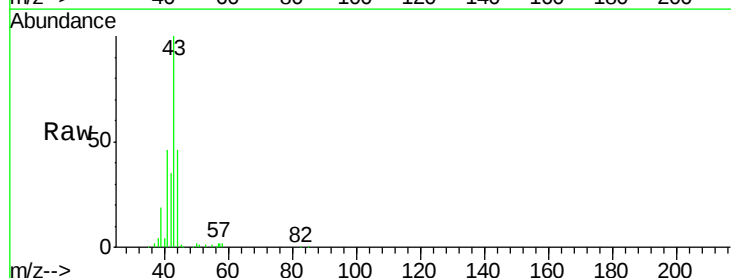
Acq: 14 Feb 2019 22:16

Tgt Ion: 41 Resp: 84123

Ion Ratio Lower Upper

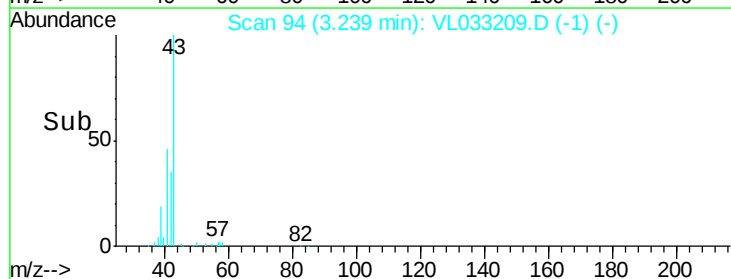
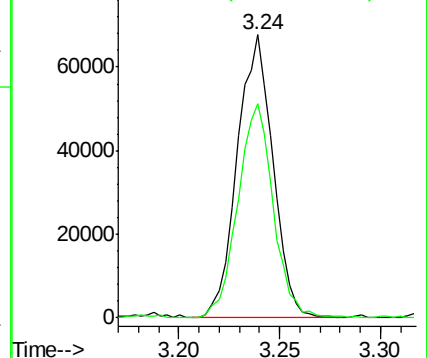
41 100

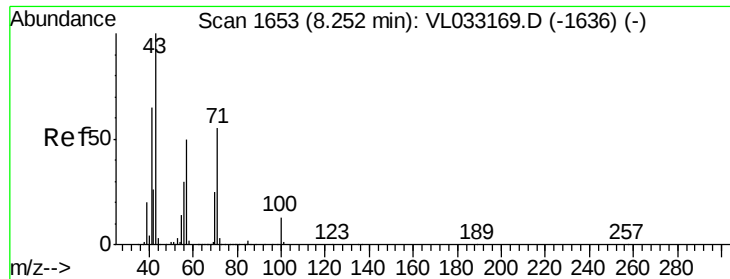
42 76.3 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.098 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL033209.D

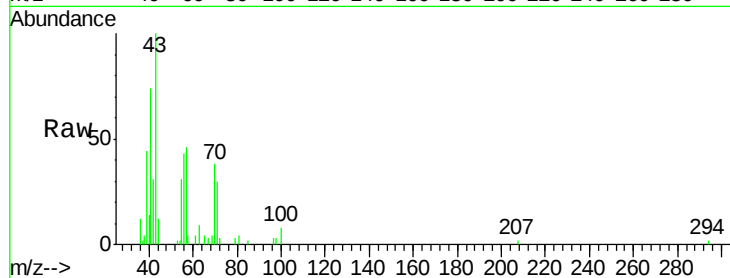
Acq: 14 Feb 2019 22:16

Tgt Ion: 43 Resp: 16418

Ion Ratio Lower Upper

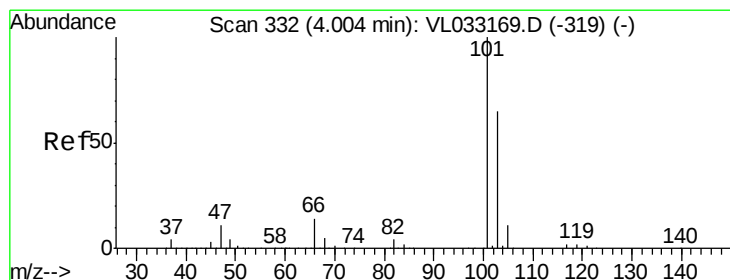
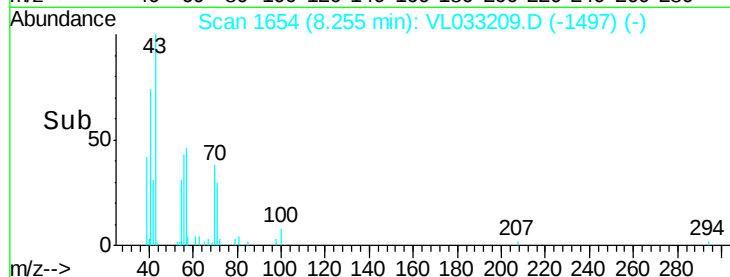
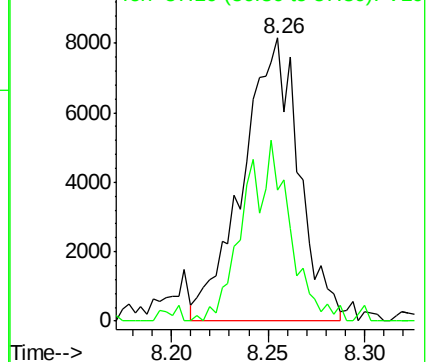
43 100

57 54.2 39.5 59.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.778 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033209.D

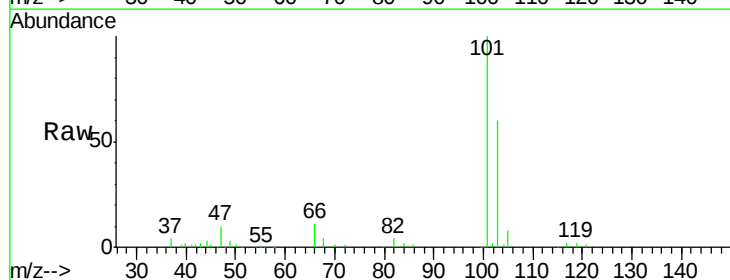
Acq: 14 Feb 2019 22:16

Tgt Ion: 101 Resp: 115134

Ion Ratio Lower Upper

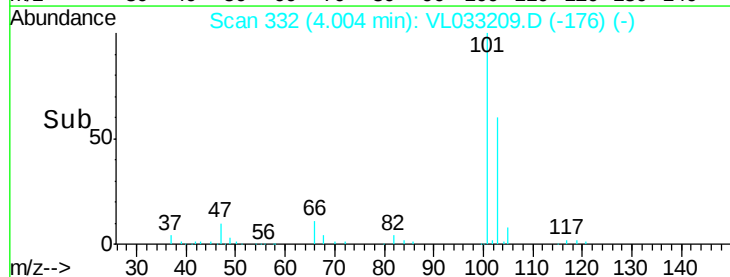
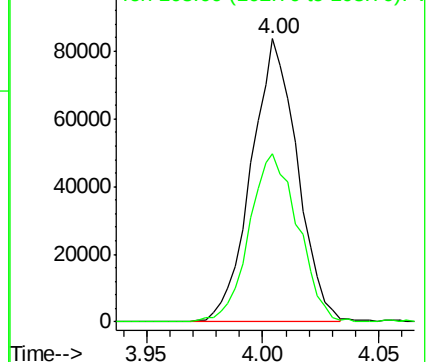
101 100

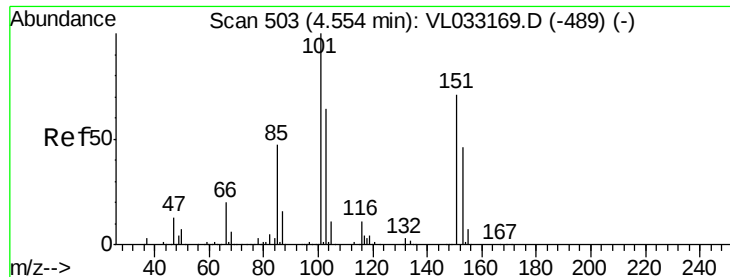
103 59.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

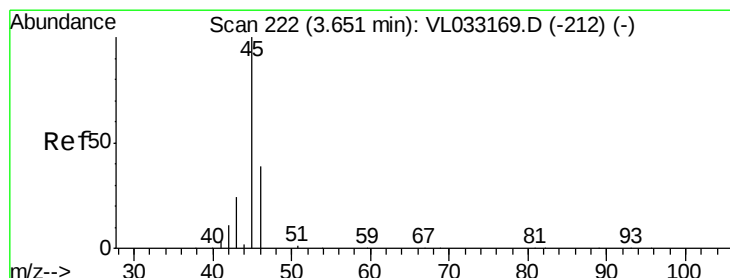
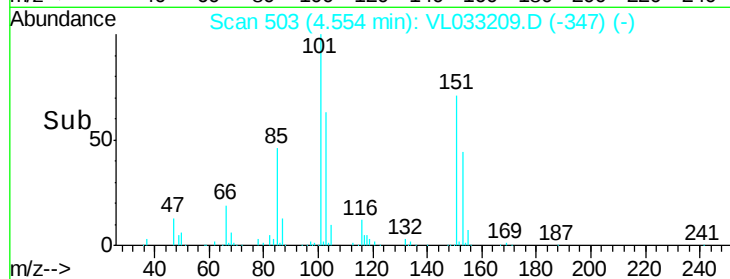
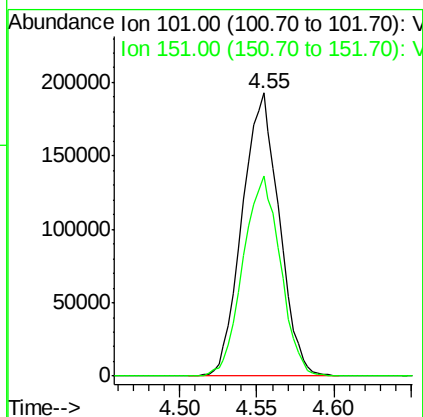
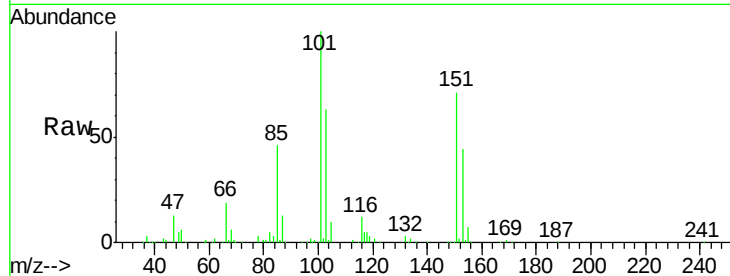
Ion 103.00 (102.70 to 103.70): V





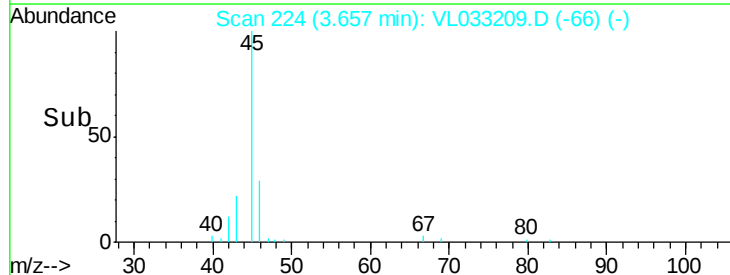
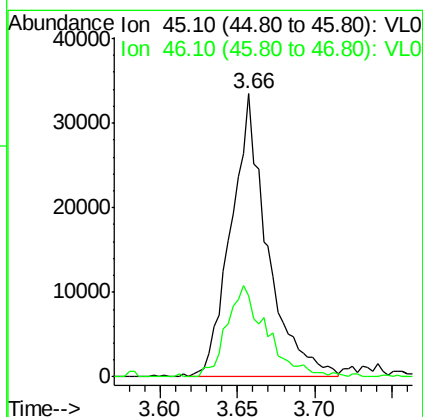
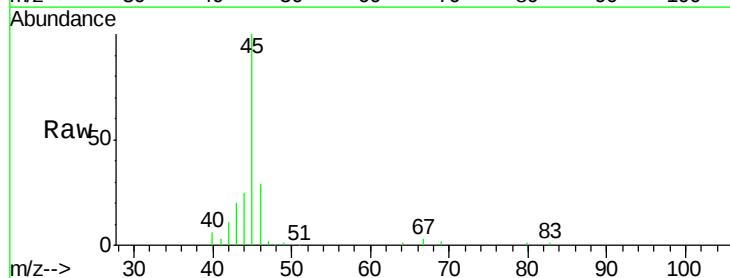
#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 3.137 ppbv  
 RT: 4.55 min Scan# 503  
 Delta R.T. 0.00 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

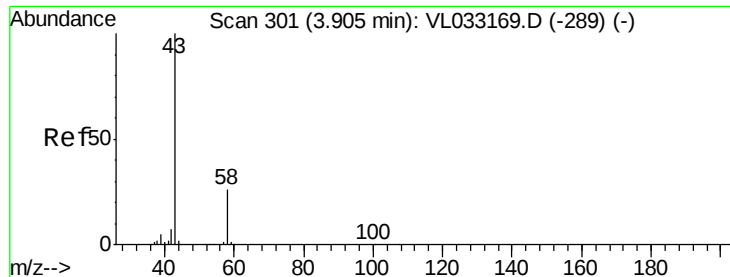
Tgt Ion: 101 Resp: 321744  
 Ion Ratio Lower Upper  
 101 100  
 151 71.2 57.4 86.0



#13  
 Ethanol  
 Concen: 2.935 ppbv  
 RT: 3.66 min Scan# 224  
 Delta R.T. 0.01 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

Tgt Ion: 45 Resp: 54433  
 Ion Ratio Lower Upper  
 45 100  
 46 35.9 15.0 60.2





#15

Acetone

Concen: 6.471 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033209.D

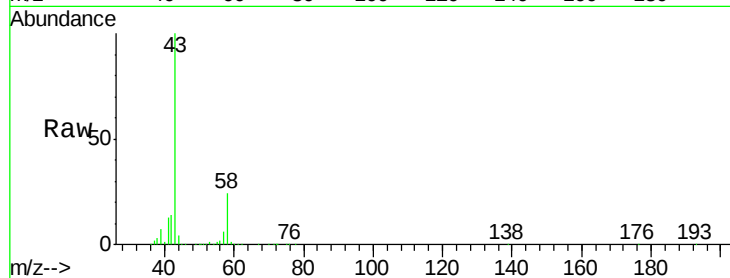
Acq: 14 Feb 2019 22:16

Tgt Ion: 43 Resp: 696974

Ion Ratio Lower Upper

43 100

58 19.4 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

300000

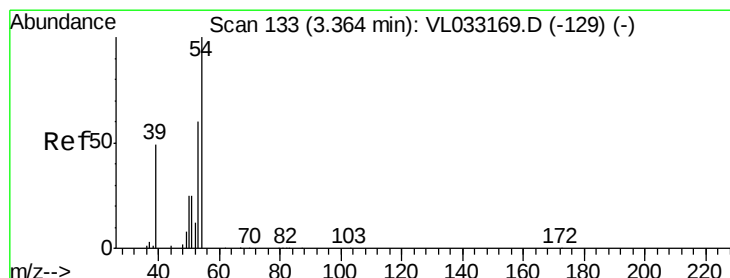
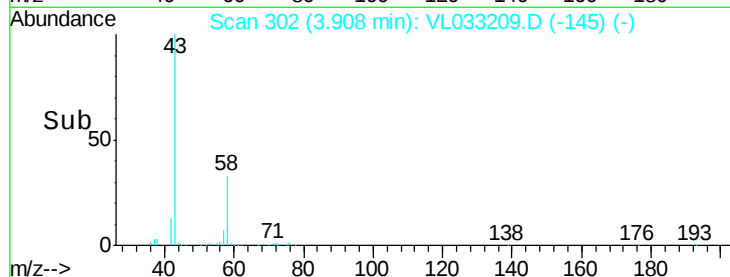
200000

100000

0

Time-->

3.85 3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 1.224 ppbv

RT: 3.39 min Scan# 142

Delta R.T. 0.03 min

Lab File: VL033209.D

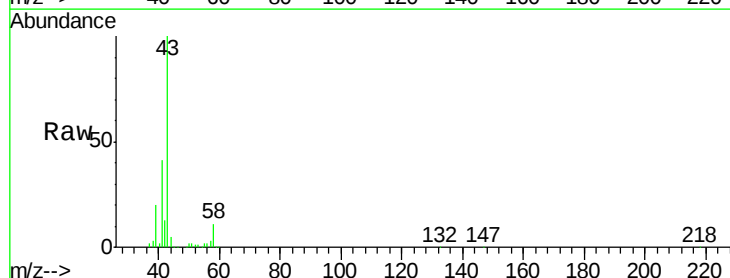
Acq: 14 Feb 2019 22:16

Tgt Ion: 39 Resp: 62560

Ion Ratio Lower Upper

39 100

54 2.2 71.3 106.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.39

60000

50000

40000

30000

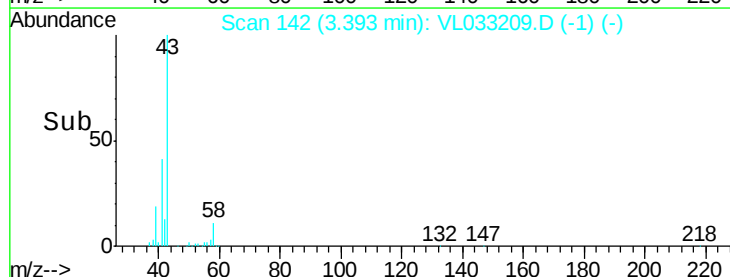
20000

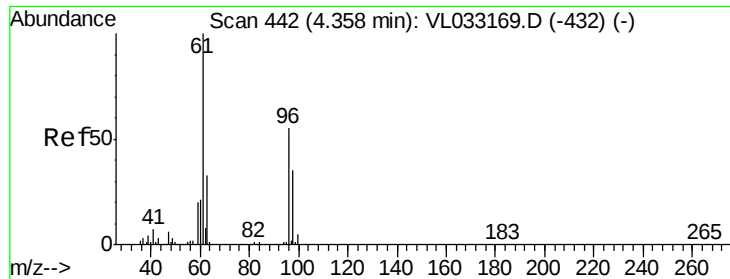
10000

0

Time-->

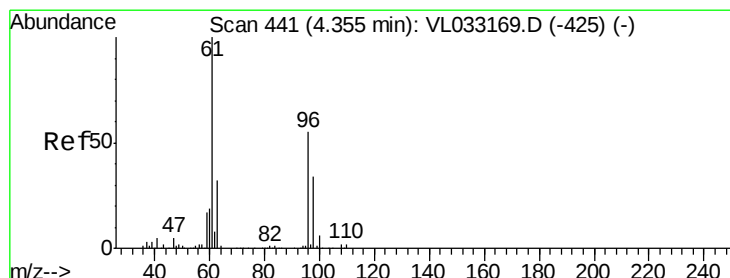
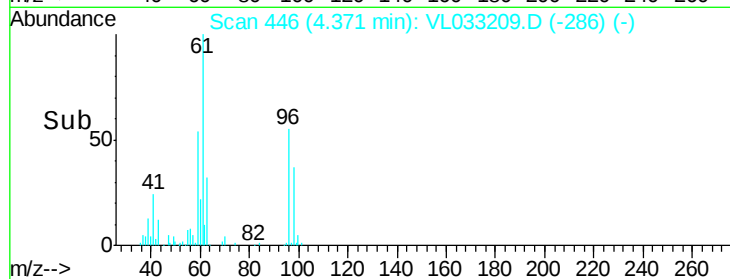
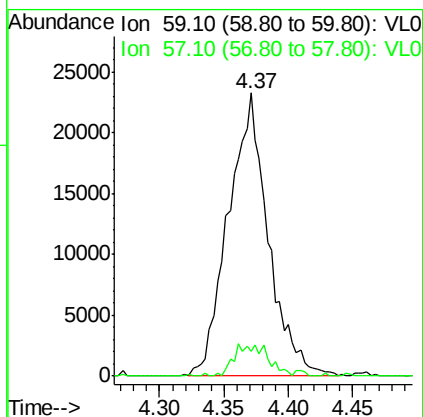
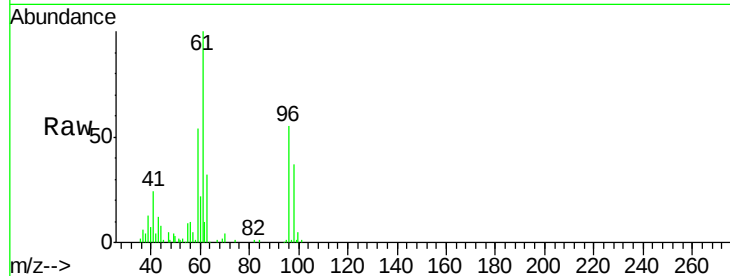
3.35 3.40





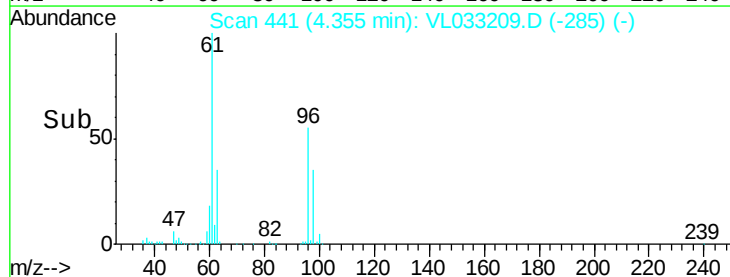
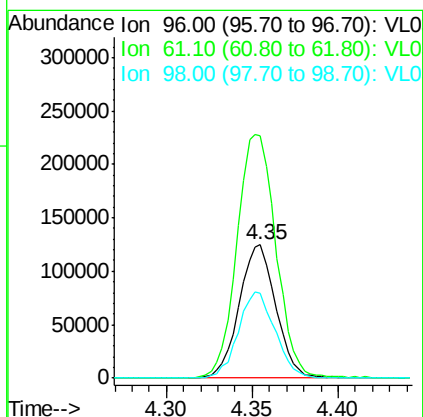
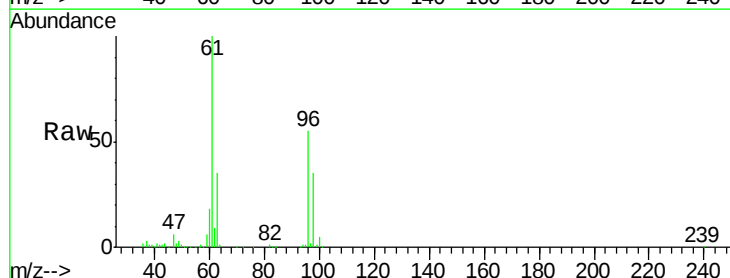
#17  
 tert-Butyl alcohol  
 Concen: 2.430 ppbv  
 RT: 4.37 min Scan# 446  
 Delta R.T. 0.01 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

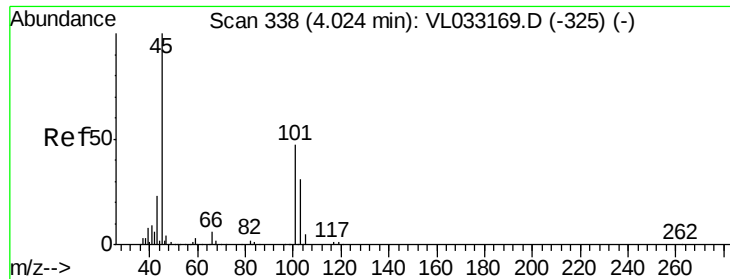
Tgt Ion: 59 Resp: 49906  
 Ion Ratio Lower Upper  
 59 100  
 57 10.4 7.6 11.4



#18  
 1,1-Dichloroethene  
 Concen: 4.028 ppbv  
 RT: 4.35 min Scan# 441  
 Delta R.T. 0.00 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

Tgt Ion: 96 Resp: 184920  
 Ion Ratio Lower Upper  
 96 100  
 61 182.1 145.0 217.6  
 98 63.4 50.0 75.0





#19

Isopropyl Alcohol

Concen: 1.159 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033209.D

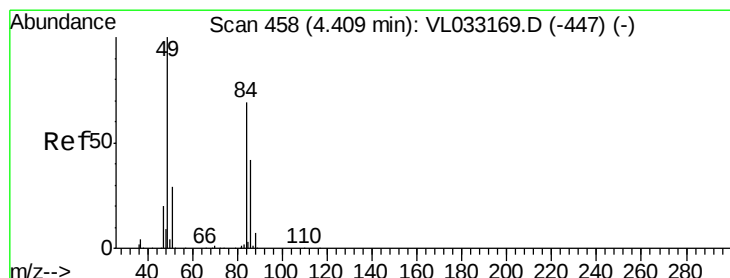
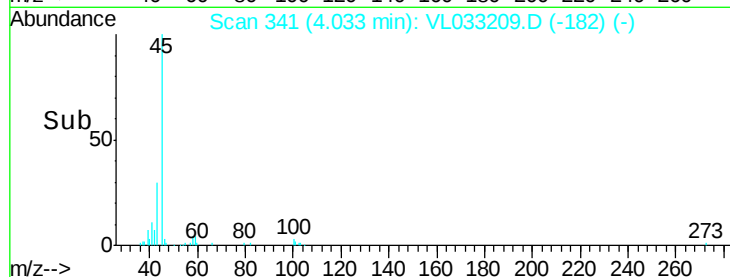
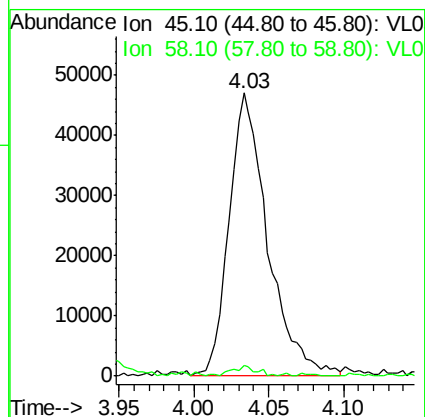
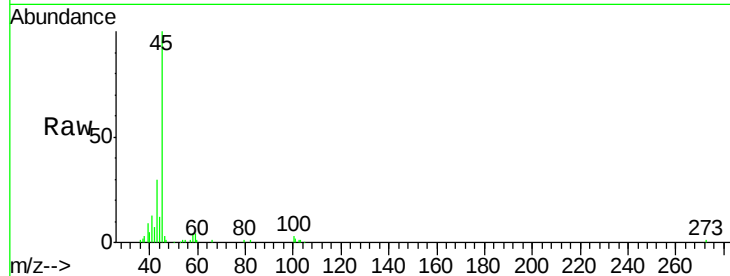
Acq: 14 Feb 2019 22:16

Tgt Ion: 45 Resp: 84688

Ion Ratio Lower Upper

45 100

58 160.6 1.5 2.3#



#20

Methylene Chloride

Concen: 1.764 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

Tgt Ion: 84 Resp: 75565

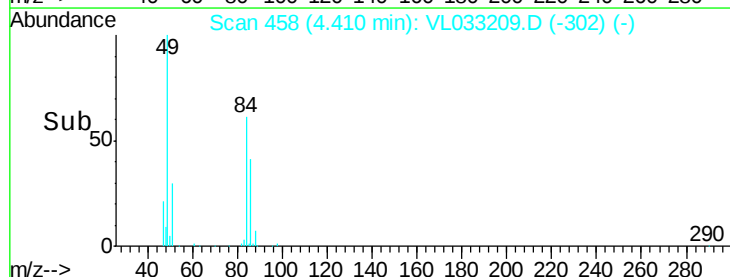
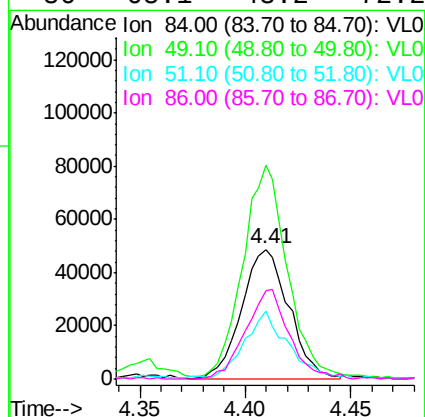
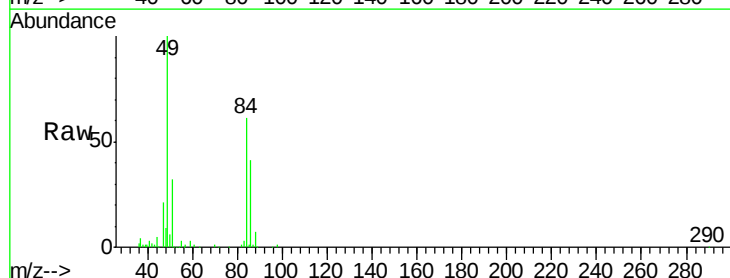
Ion Ratio Lower Upper

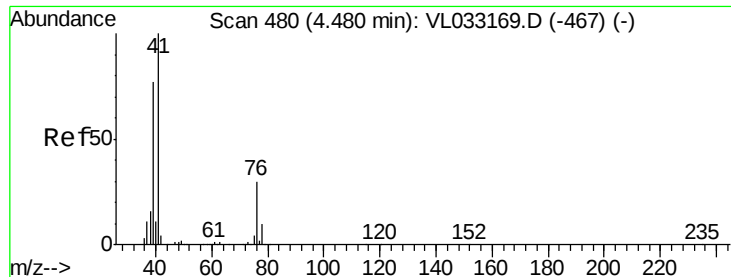
84 100

49 163.3 115.8 173.8

51 51.2 33.0 49.6#

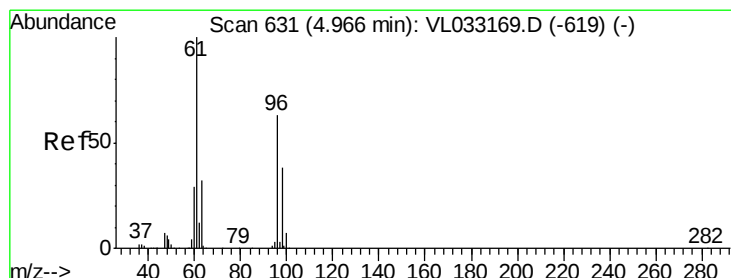
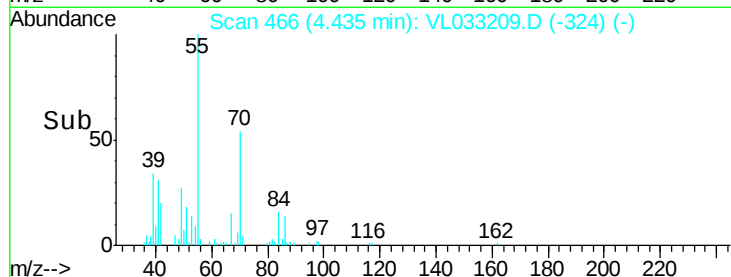
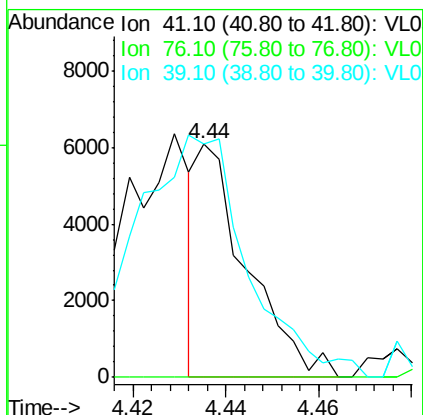
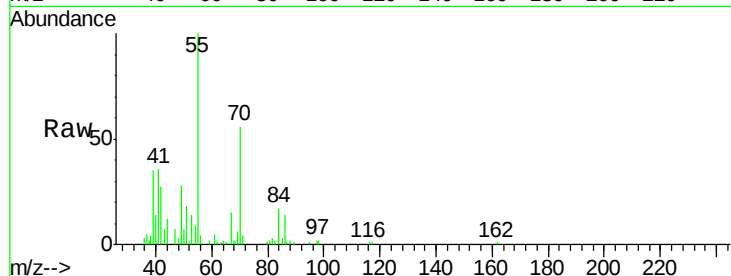
86 68.1 48.2 72.2





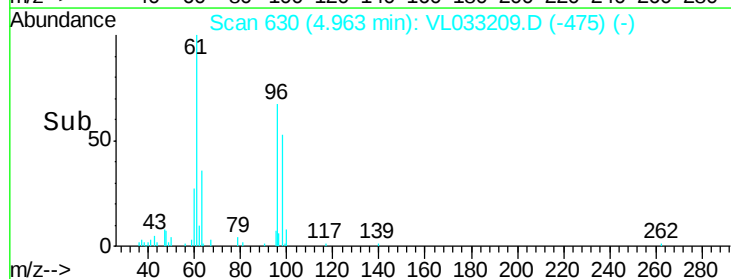
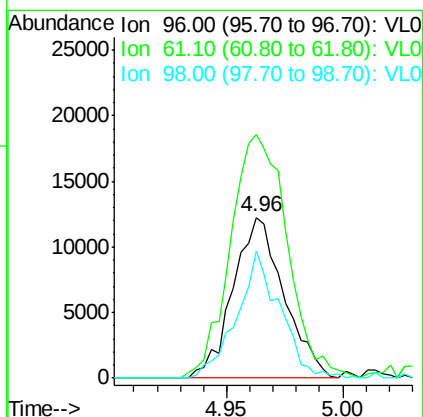
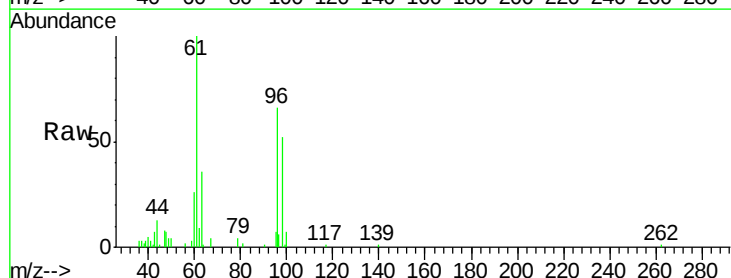
#21  
 Allyl Chloride  
 Concen: 0.063 ppbv  
 RT: 4.44 min Scan# 466  
 Delta R.T. -0.04 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

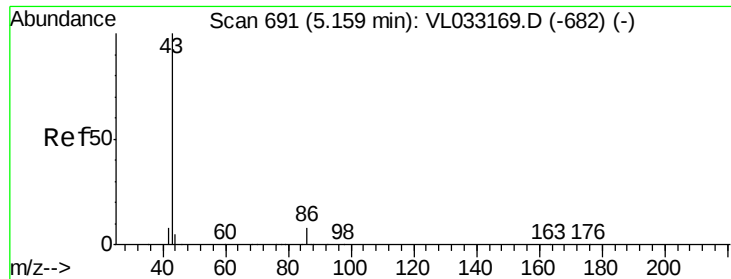
Tgt Ion: 41 Resp: 4478  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 24.5 36.7#  
 39 249.5 64.1 96.1#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.420 ppbv  
 RT: 4.96 min Scan# 630  
 Delta R.T. -0.00 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

Tgt Ion: 96 Resp: 18722  
 Ion Ratio Lower Upper  
 96 100  
 61 136.3 126.4 189.6  
 98 73.0 48.4 72.6#





#23

Vinyl Acetate

Concen: 0.157 ppbv

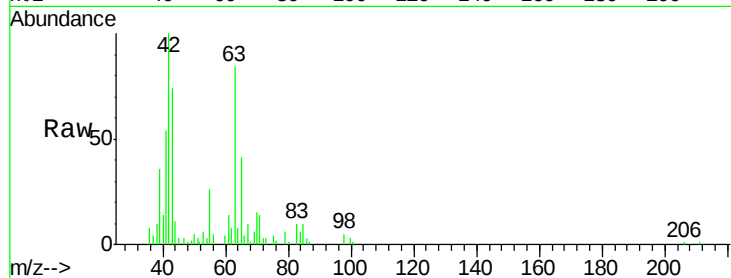
RT: 5.14 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 29392 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 5.8   | 8.8#  |
| 42       | 136.7 | 7.4   | 11.0# |
| 44       | 5.5   | 3.7   | 5.5#  |

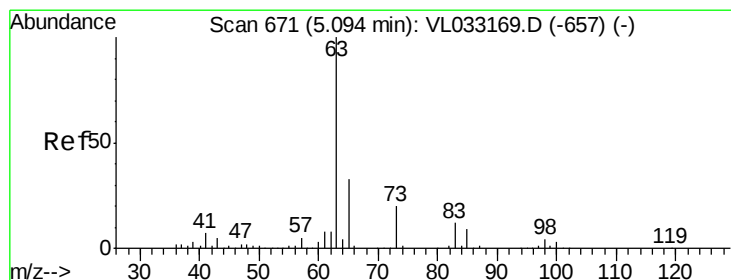
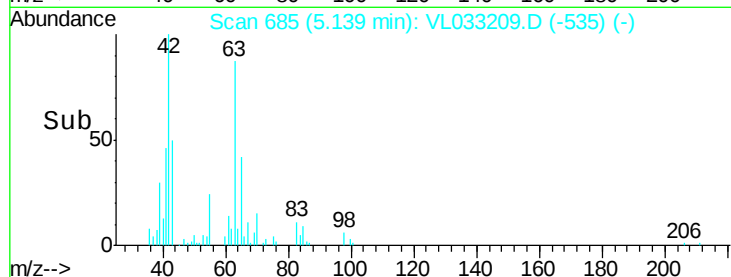
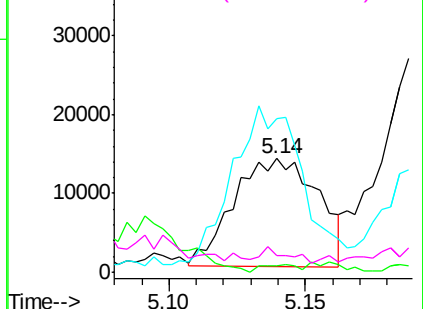


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 48.882 ppbv

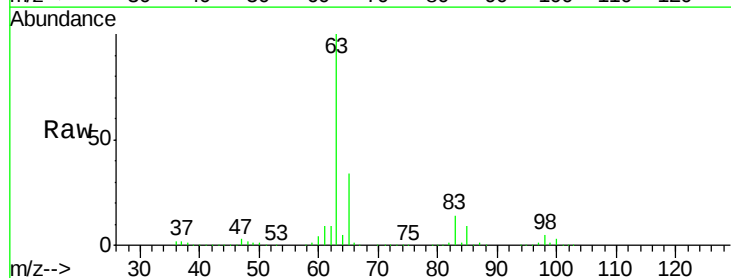
RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

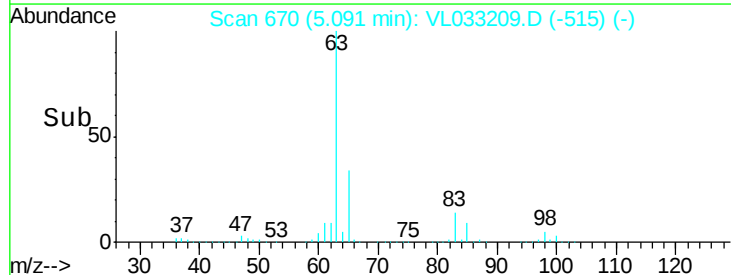
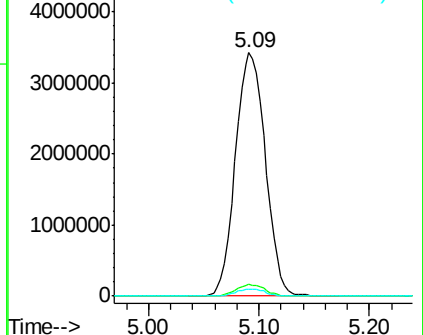
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 63    | Resp: | 6454477 |
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 5.0   | 2.1   | 6.5     |
| 100      | 3.0   | 1.4   | 4.2     |

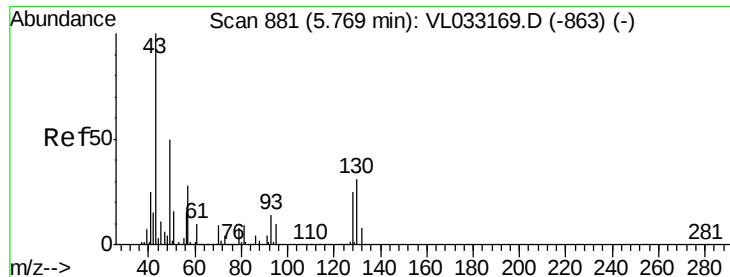


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.094 ppbv

RT: 5.77 min Scan# 882

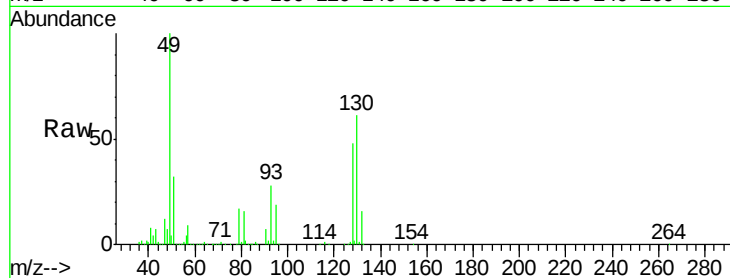
Delta R.T. 0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

Tgt Ion: 43 Resp: 22782

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 0.0   | 7.9   | 11.9# |
| 61  | 0.0   | 7.5   | 11.3# |
| 70  | 0.0   | 5.8   | 8.8#  |



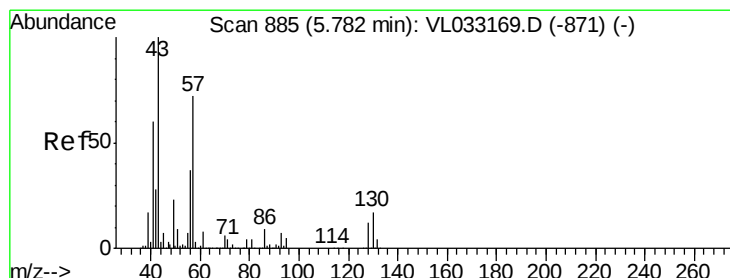
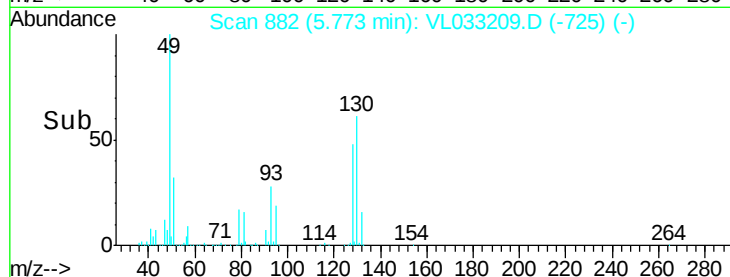
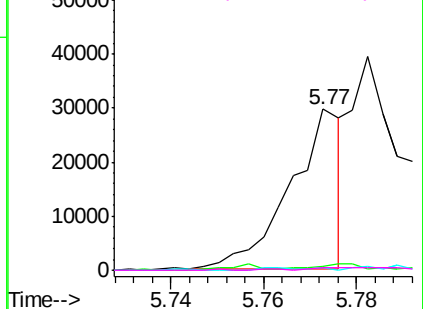
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.678 ppbv

RT: 5.78 min Scan# 884

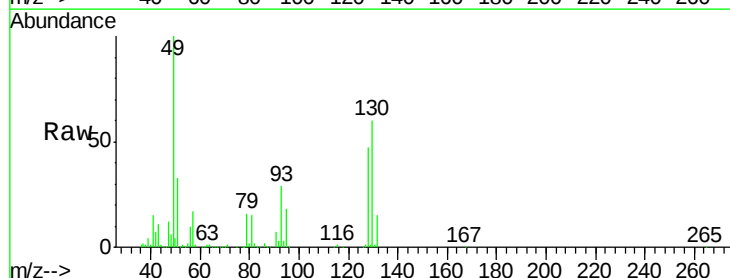
Delta R.T. -0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

Tgt Ion: 57 Resp: 77052

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 95.9  | 69.4  | 104.2  |
| 43  | 74.9  | 176.7 | 265.1# |
| 56  | 54.5  | 41.4  | 62.0   |



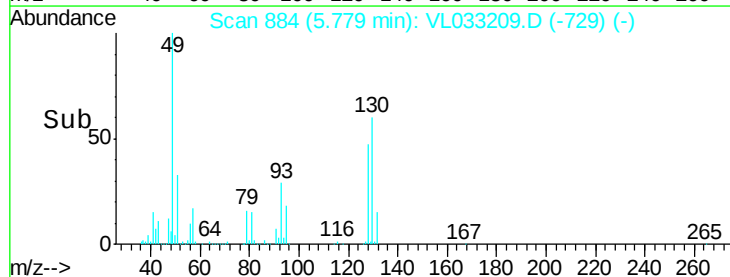
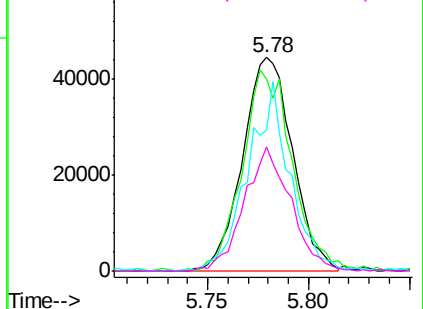
Abundance

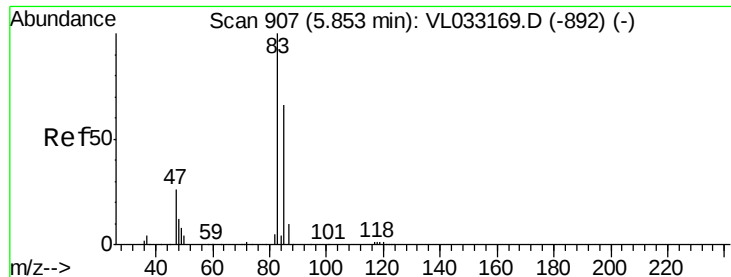
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

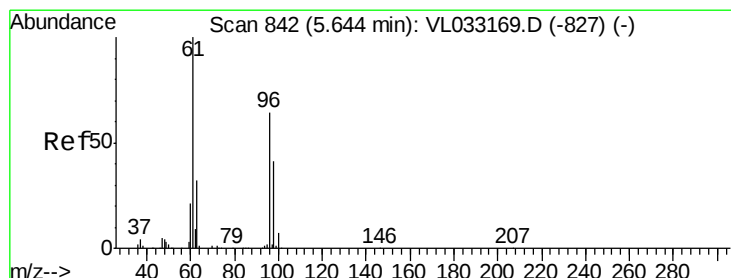
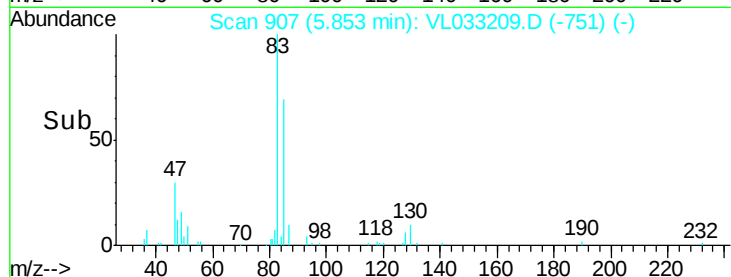
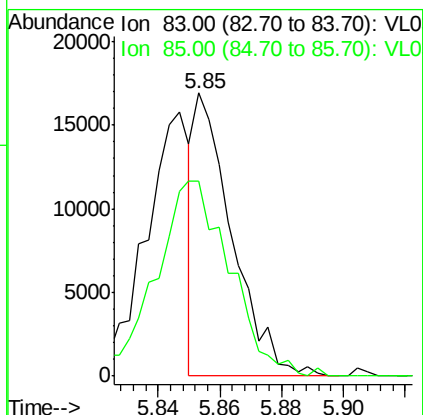
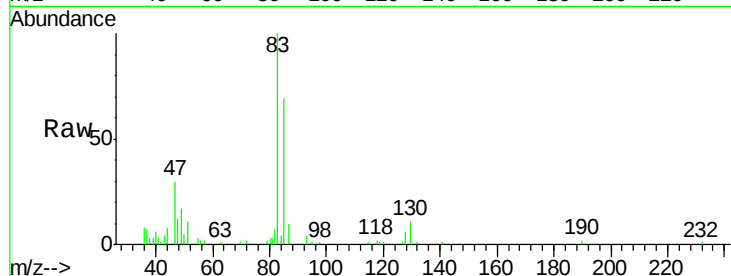
Ion 56.10 (55.80 to 56.80): VL0





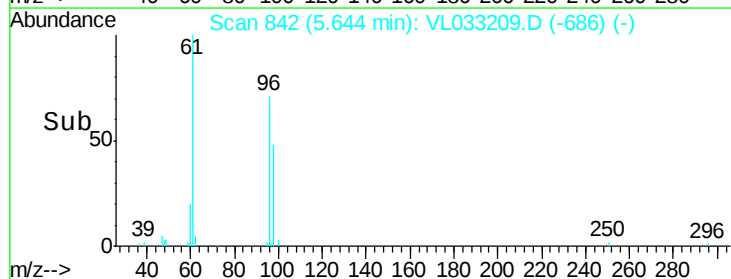
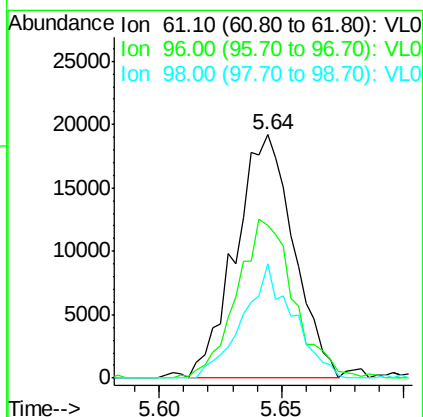
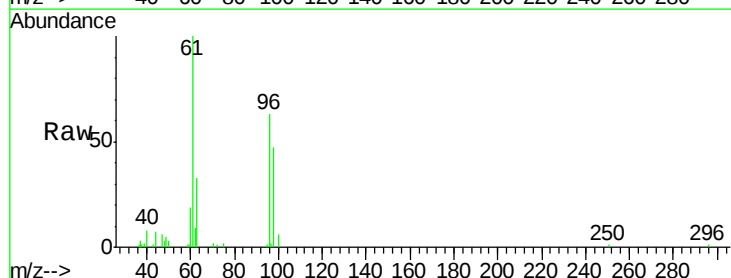
#29  
Chloroform  
Concen: 0.081 ppbv  
RT: 5.85 min Scan# 907  
Delta R.T. 0.00 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

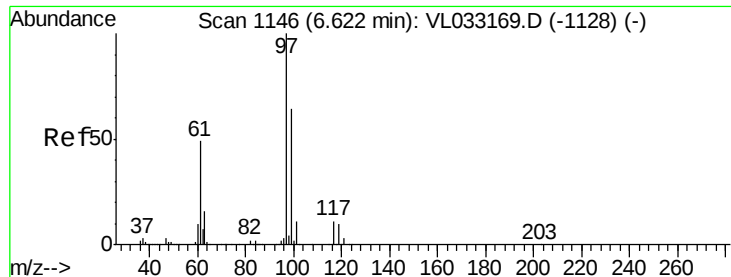
Tgt Ion: 83 Resp: 14154  
Ion Ratio Lower Upper  
83 100  
85 68.8 52.6 78.8



#31  
cis-1,2-Dichloroethene  
Concen: 0.278 ppbv  
RT: 5.64 min Scan# 842  
Delta R.T. 0.00 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

Tgt Ion: 61 Resp: 31654  
Ion Ratio Lower Upper  
61 100  
96 61.8 51.2 76.8  
98 47.0 32.8 49.2





#32

1,1,1-Trichloroethane

Concen: 94.741 ppbv

RT: 6.62 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

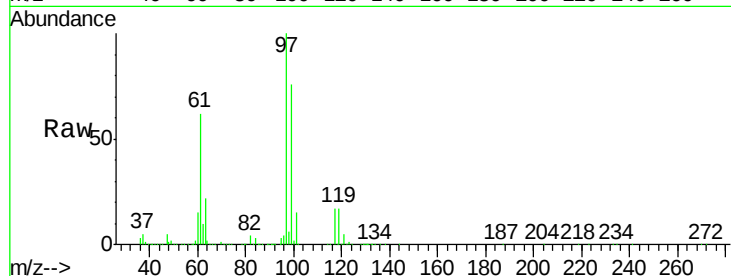
Tgt Ion: 97 Resp:18175502

Ion Ratio Lower Upper

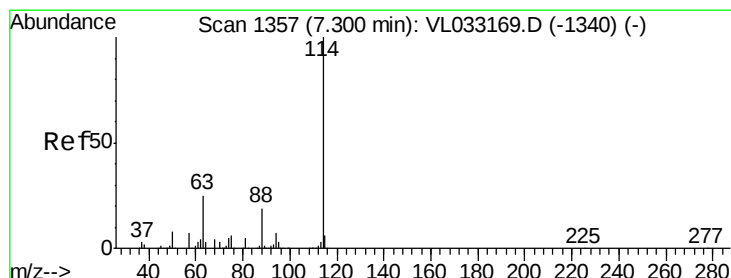
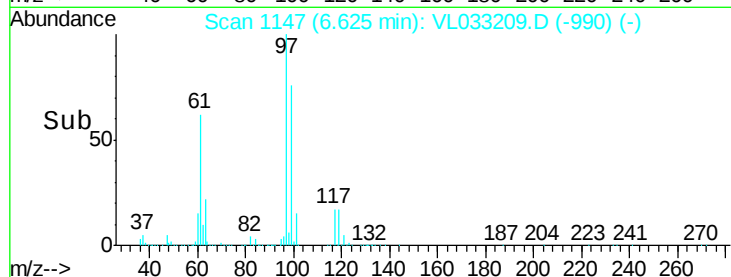
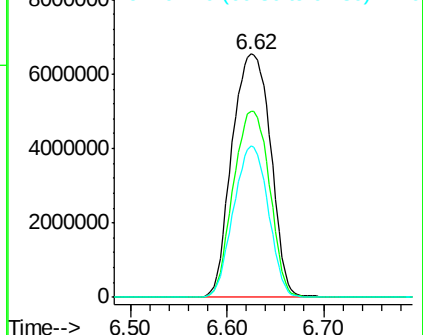
97 100

99 72.1 51.4 77.2

61 56.3 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

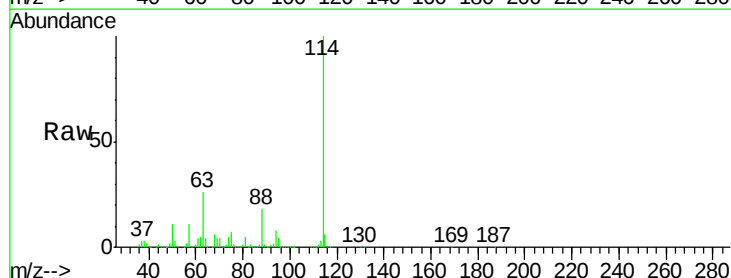
Tgt Ion:114 Resp: 2168643

Ion Ratio Lower Upper

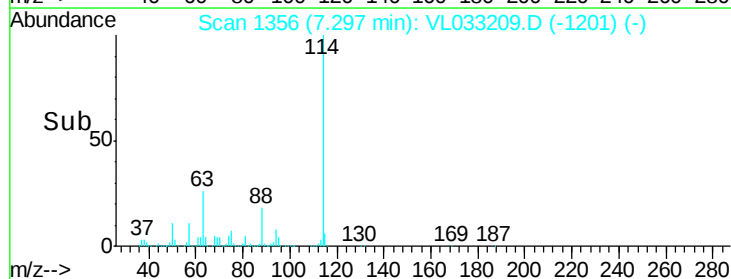
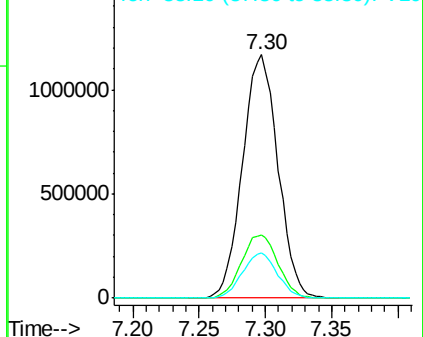
114 100

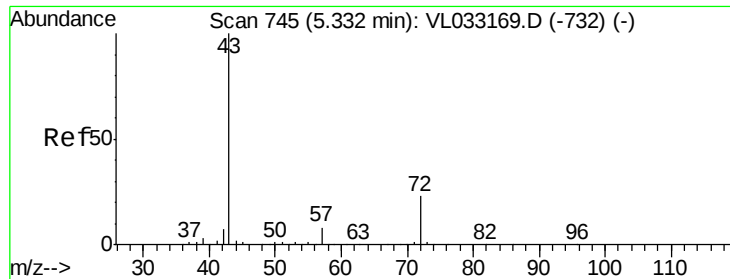
63 26.9 20.8 31.2

88 18.5 14.6 22.0



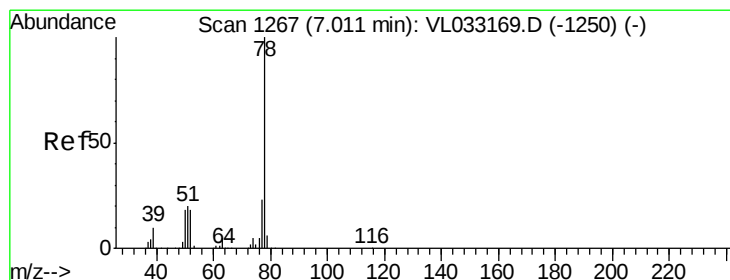
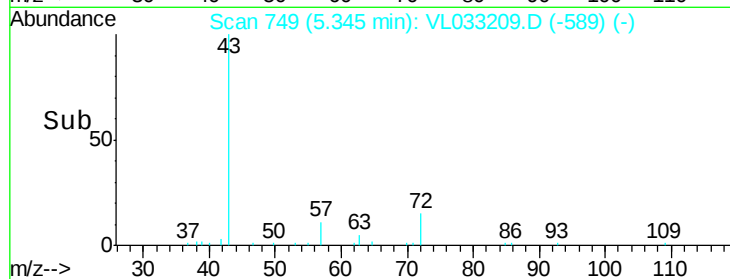
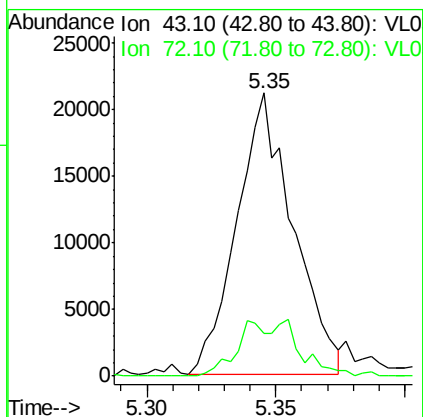
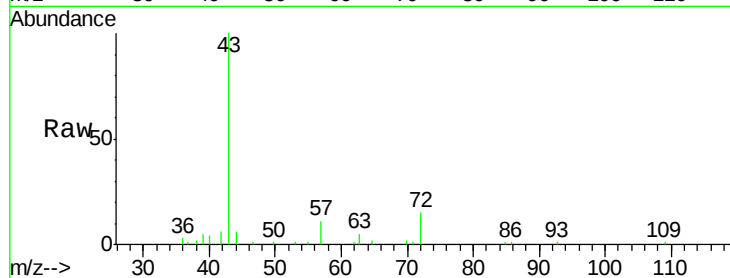
Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0





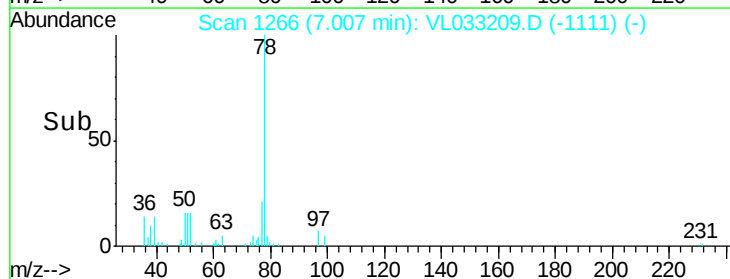
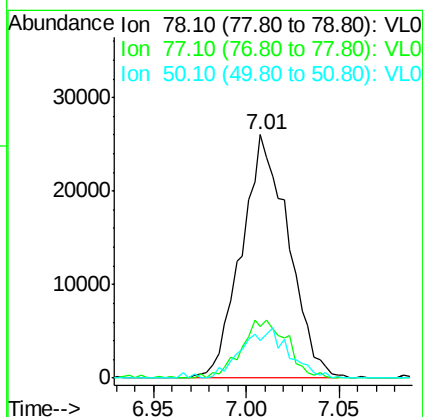
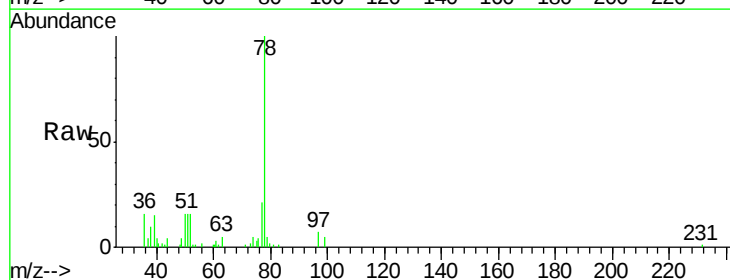
#34  
2-Butanone  
Concen: 0.234 ppbv  
RT: 5.35 min Scan# 749  
Delta R.T. 0.01 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

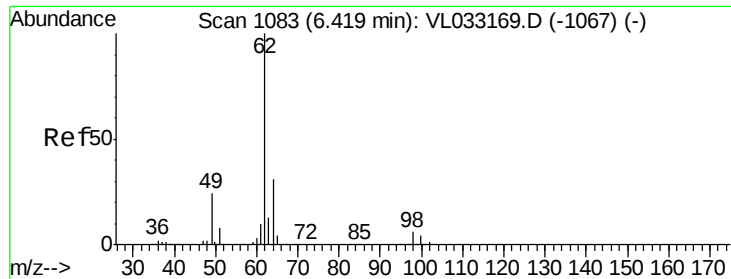
Tgt Ion: 43 Resp: 32126  
Ion Ratio Lower Upper  
43 100  
72 21.1 17.8 26.6



#36  
Benzene  
Concen: 0.209 ppbv  
RT: 7.01 min Scan# 1266  
Delta R.T. -0.00 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

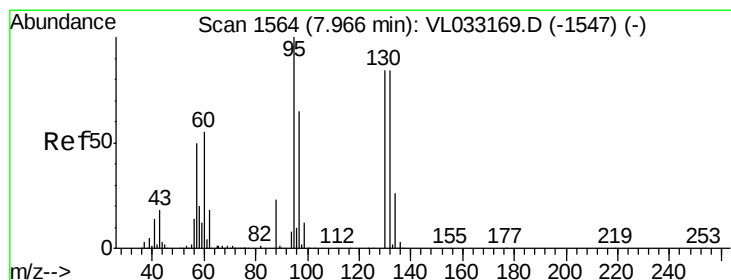
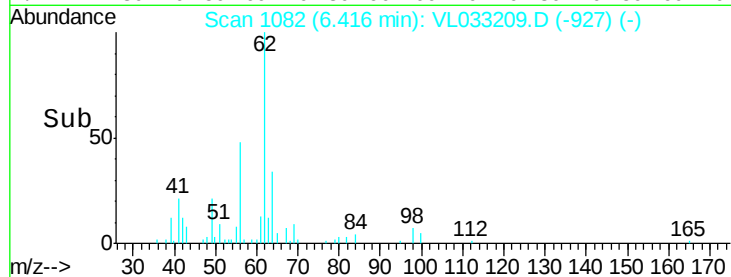
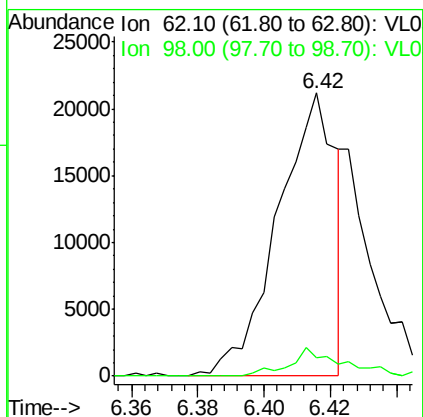
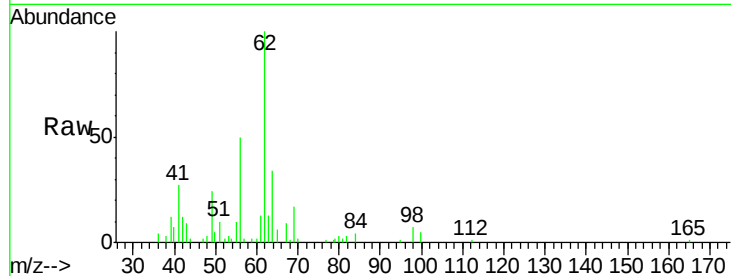
Tgt Ion: 78 Resp: 45964  
Ion Ratio Lower Upper  
78 100  
77 21.3 18.0 27.0  
50 15.6 14.2 21.2





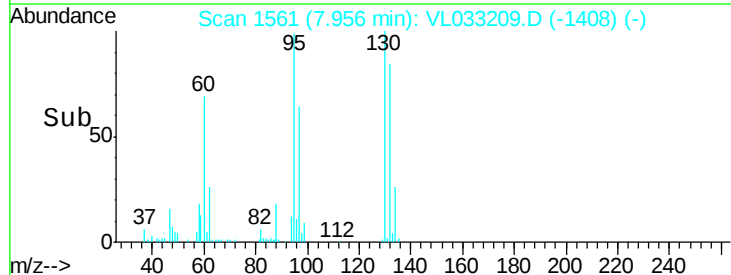
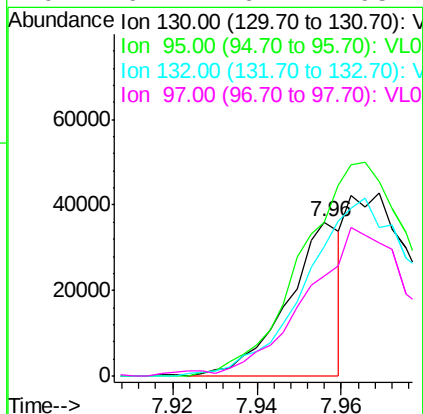
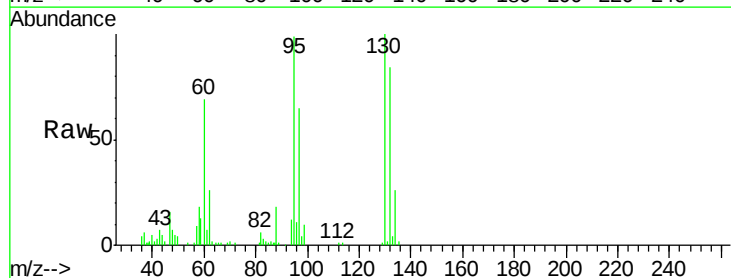
#37  
 1,2-Dichloroethane  
 Concen: 0.211 ppbv  
 RT: 6.42 min Scan# 1082  
 Delta R.T. -0.00 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

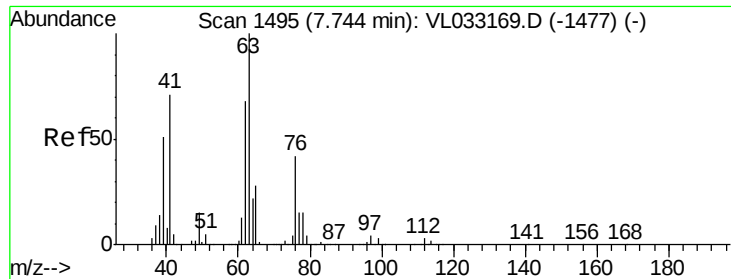
Tgt Ion: 62 Resp: 25680  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 4.7 7.1#



#38  
 Trichloroethene  
 Concen: 0.336 ppbv  
 RT: 7.96 min Scan# 1561  
 Delta R.T. -0.01 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

Tgt Ion: 130 Resp: 31619  
 Ion Ratio Lower Upper  
 130 100  
 95 99.4 95.5 143.3  
 132 85.7 80.0 120.0  
 97 62.2 62.2 93.2





#39

1,2-Dichloropropane

Concen: 6.679 ppbv

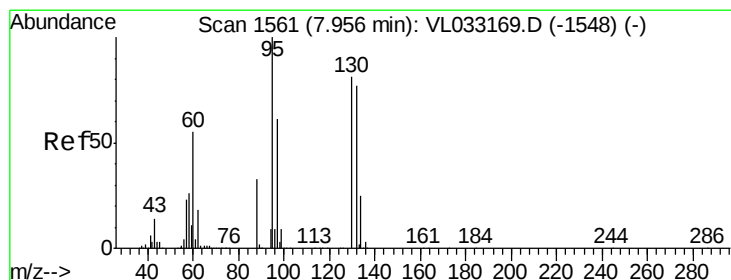
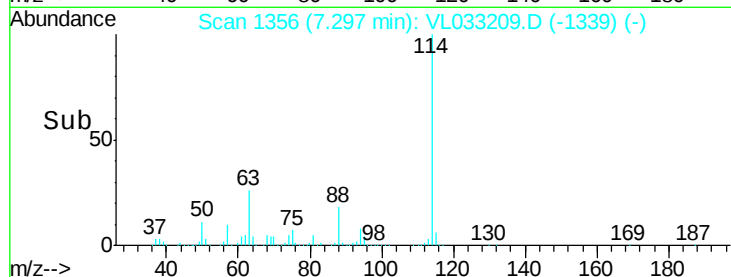
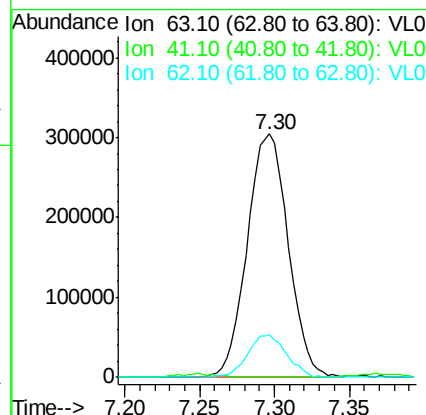
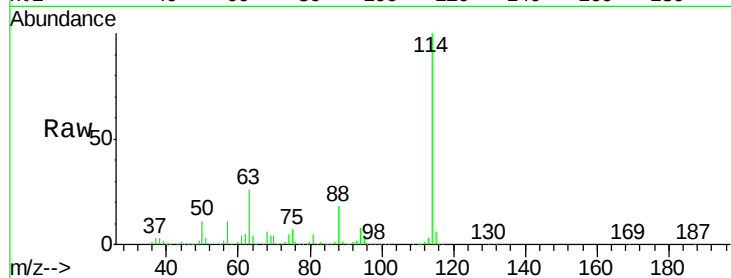
RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 579747 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 0.0   | 56.4  | 84.6#  |
| 62       | 17.5  | 54.2  | 81.4#  |



#40

1,4-Dioxane

Concen: 0.584 ppbv

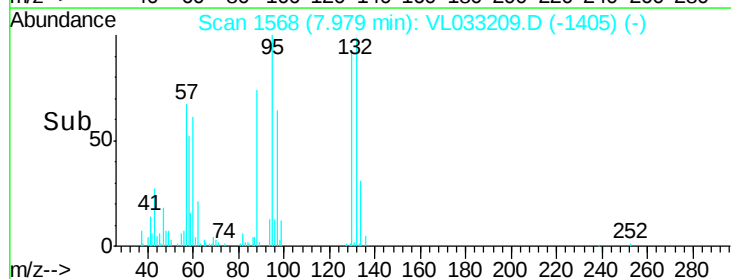
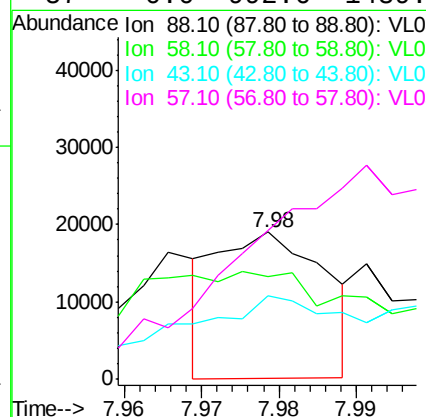
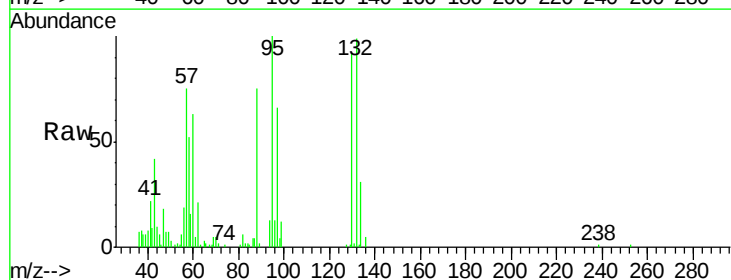
RT: 7.98 min Scan# 1568

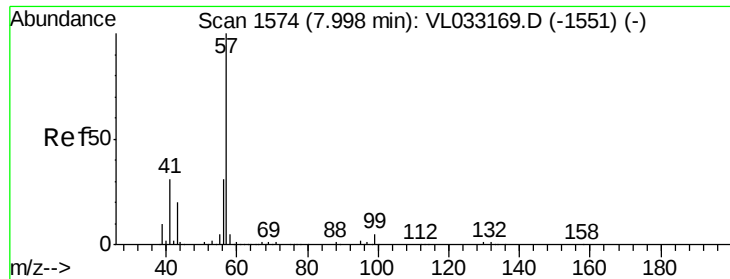
Delta R.T. 0.02 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 88    | Resp: | 18415   |
| Ion      | Ratio | Lower | Upper   |
| 88       | 100   |       |         |
| 58       | 232.5 | 106.6 | 160.0#  |
| 43       | 168.1 | 220.2 | 330.2#  |
| 57       | 0.0   | 992.6 | 1489.0# |





#44

2,2,4-Trimethylpentane

Concen: 0.105 ppbv

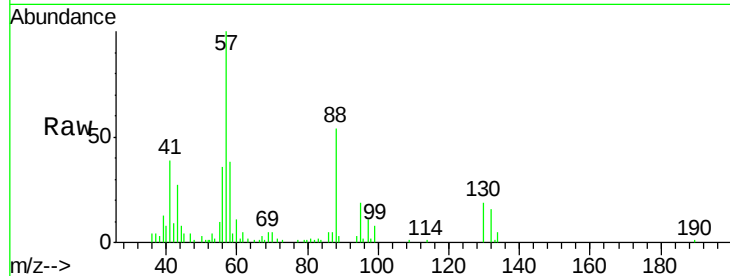
RT: 7.99 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

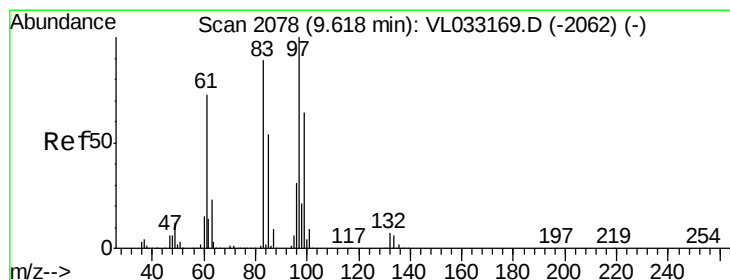
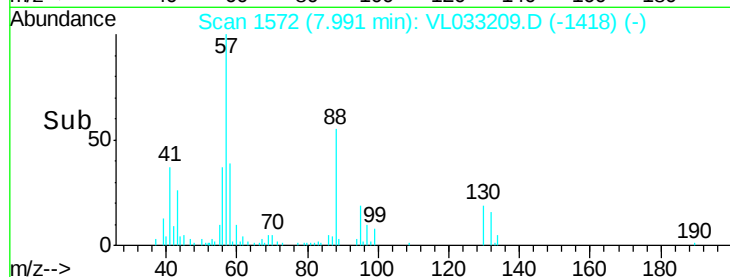
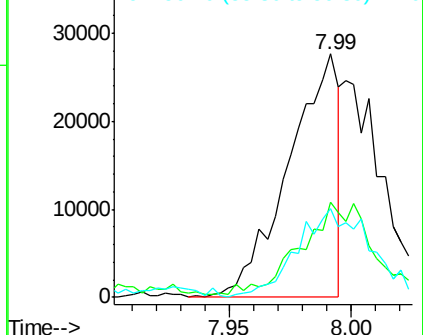
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 39264 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 59.9  | 25.1  | 37.7# |
| 56       | 55.8  | 24.5  | 36.7# |



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.186 ppbv

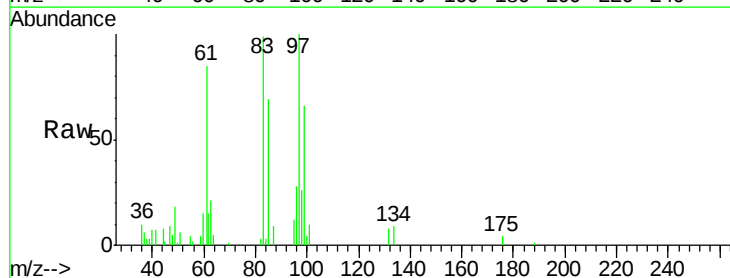
RT: 9.61 min Scan# 2076

Delta R.T. -0.01 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 16770 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 99.5  | 71.4  | 107.2 |
| 85       | 64.6  | 43.5  | 65.3  |
| 99       | 65.6  | 51.4  | 77.0  |

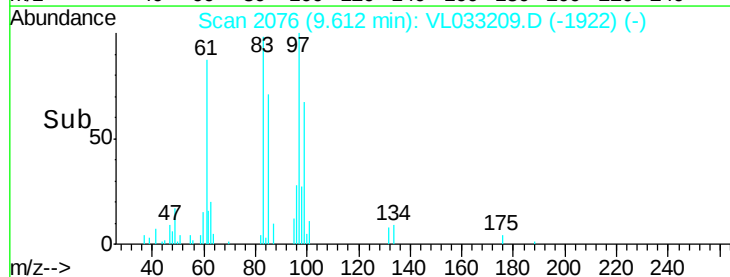
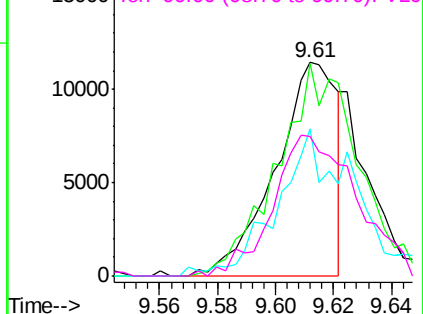


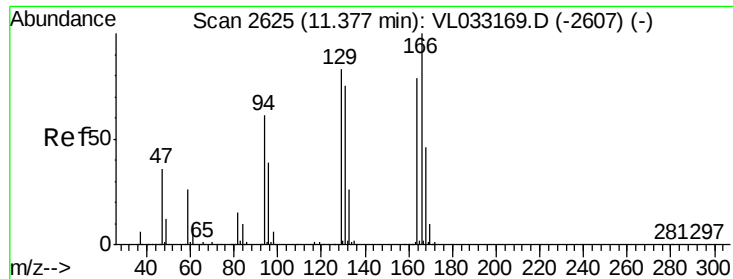
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#52

Tetrachloroethene

Concen: 1.345 ppbv

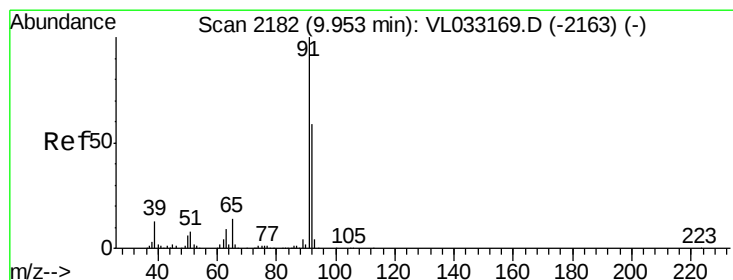
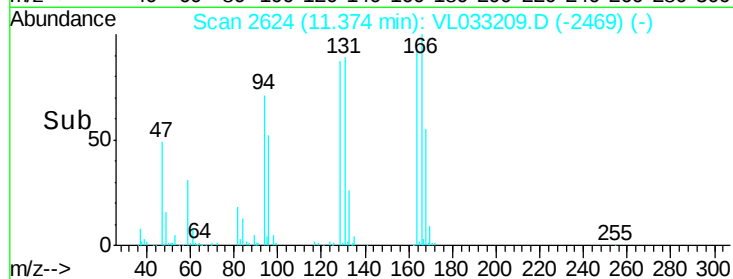
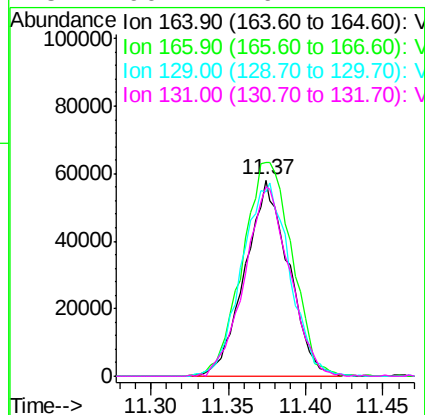
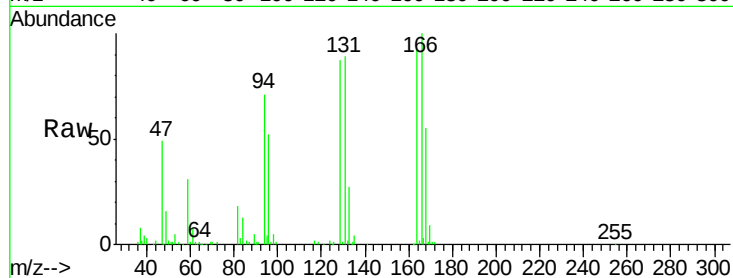
RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 113594 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 166      | 108.2 | 100.9 | 151.3  |
| 129      | 94.1  | 83.9  | 125.9  |
| 131      | 96.2  | 76.2  | 114.2  |



#53

Toluene

Concen: 0.184 ppbv

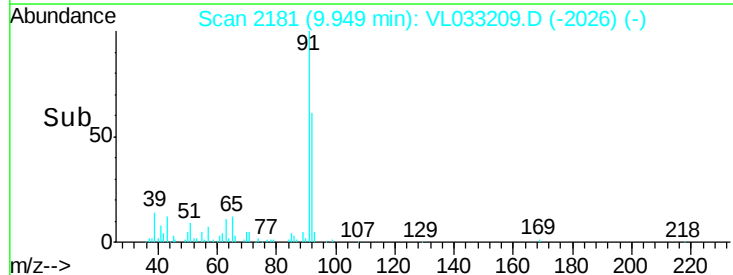
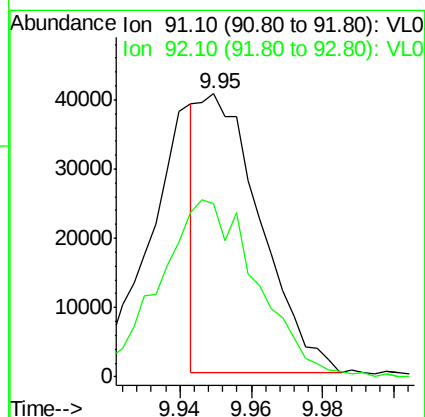
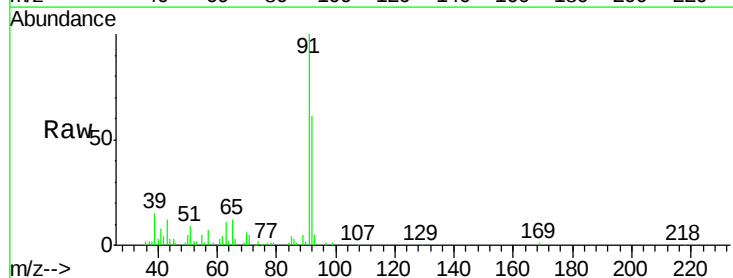
RT: 9.95 min Scan# 2181

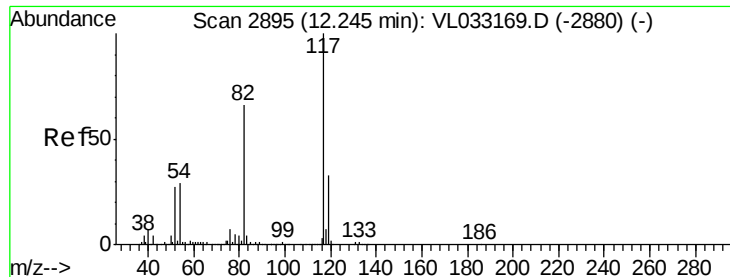
Delta R.T. -0.00 min

Lab File: VL033209.D

Acq: 14 Feb 2019 22:16

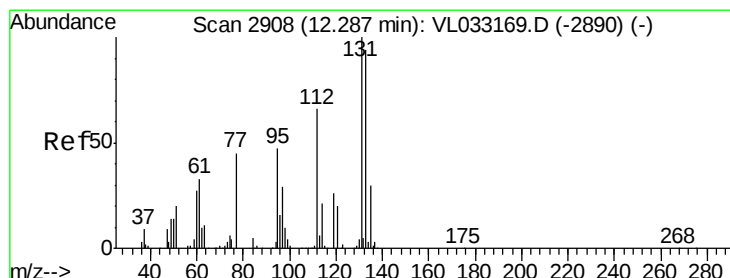
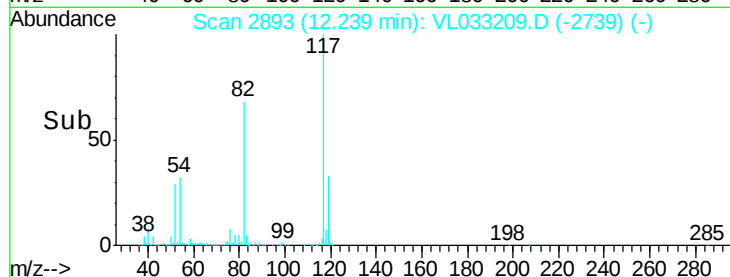
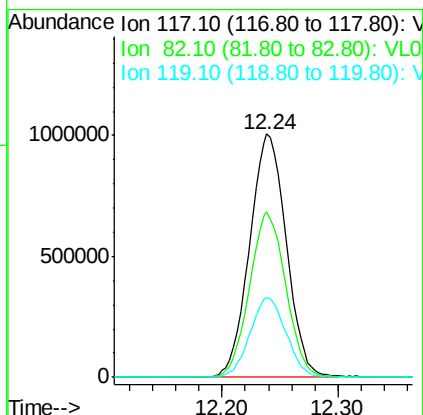
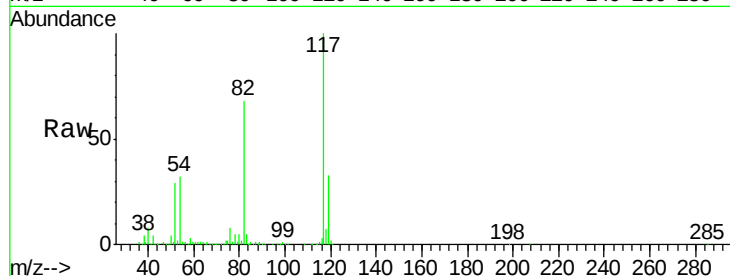
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 48012 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 102.7 | 48.0  | 72.0# |





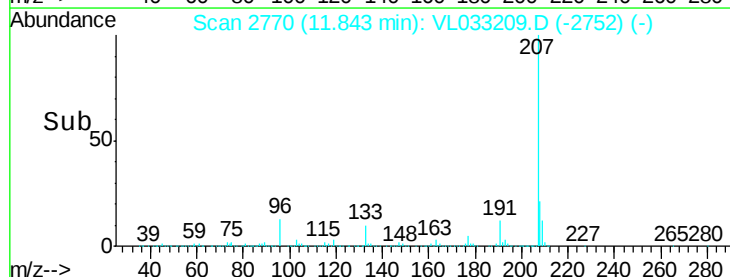
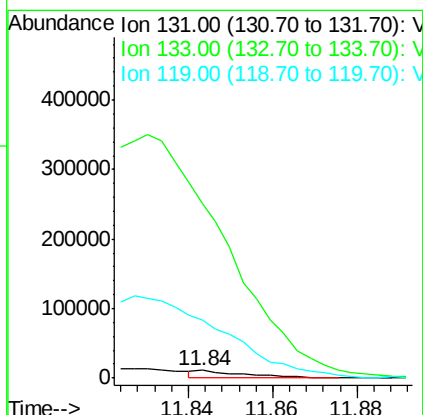
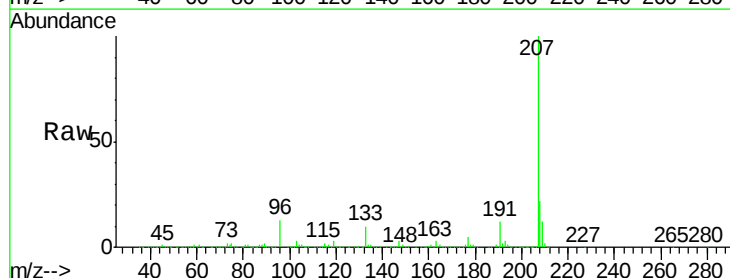
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.24 min Scan# 2893  
Delta R.T. -0.01 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

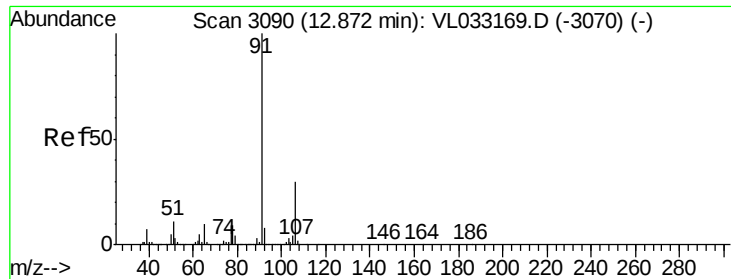
Tgt Ion:117 Resp: 2208433  
Ion Ratio Lower Upper  
117 100  
82 67.6 49.5 74.3  
119 32.6 24.4 36.6



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.083 ppbv  
RT: 11.84 min Scan# 2770  
Delta R.T. -0.44 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

Tgt Ion:131 Resp: 8417  
Ion Ratio Lower Upper  
131 100  
133 0.0 75.8 113.6#  
119 0.0 110.9 166.3#





#58

Ethyl Benzene

Concen: 0.258 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033209.D

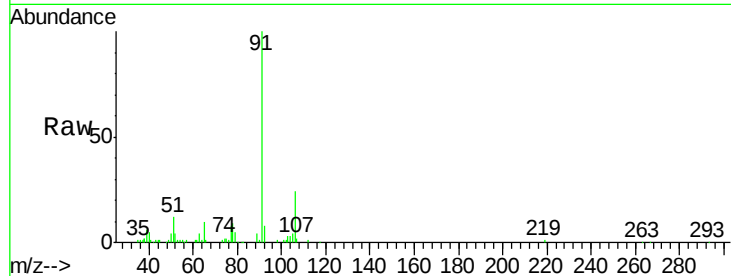
Acq: 14 Feb 2019 22:16

Tgt Ion: 91 Resp: 92074

Ion Ratio Lower Upper

91 100

106 23.9 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.87

50000

40000

30000

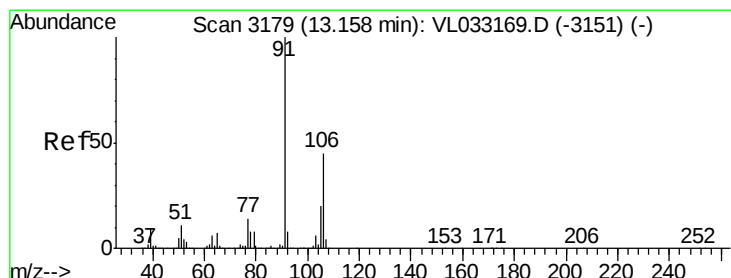
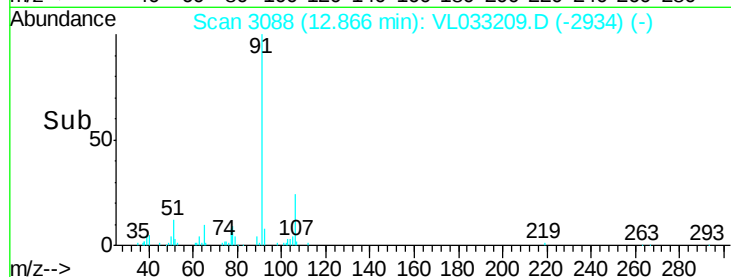
20000

10000

0

Time-->

12.80 12.85 12.90



#59

m/p-Xylene

Concen: 0.368 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. -0.01 min

Lab File: VL033209.D

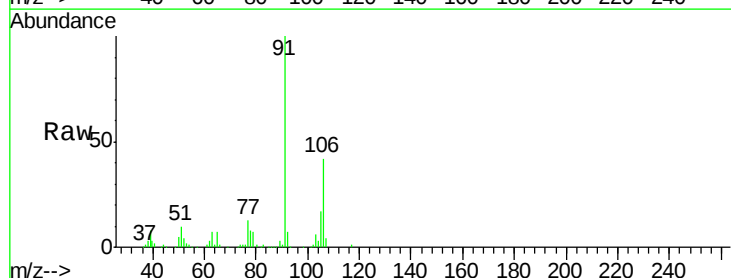
Acq: 14 Feb 2019 22:16

Tgt Ion: 91 Resp: 109707

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

150000

100000

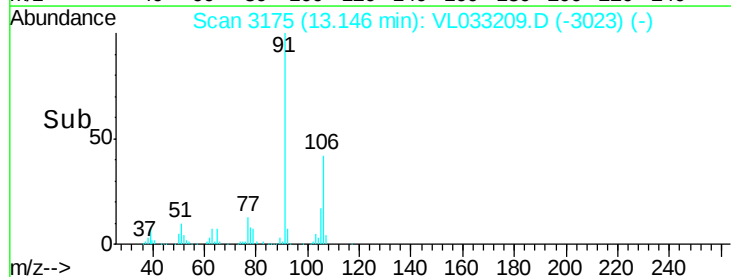
50000

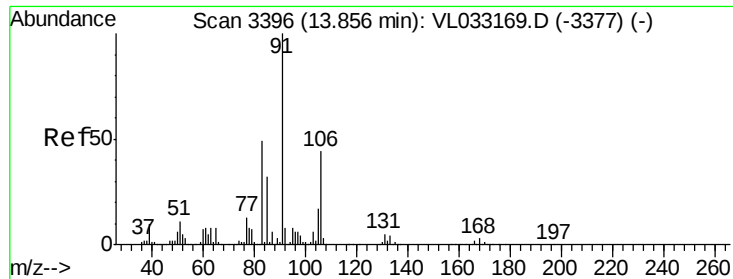
0

Time-->

13.15

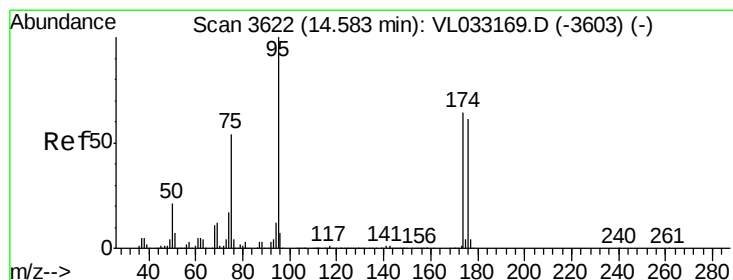
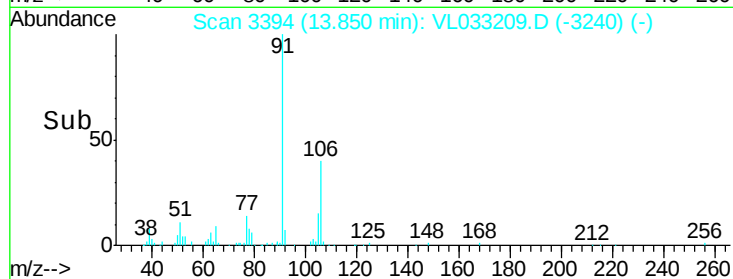
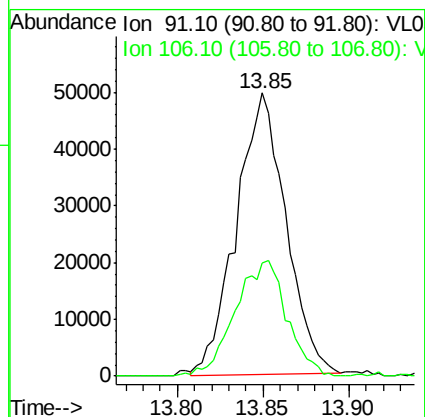
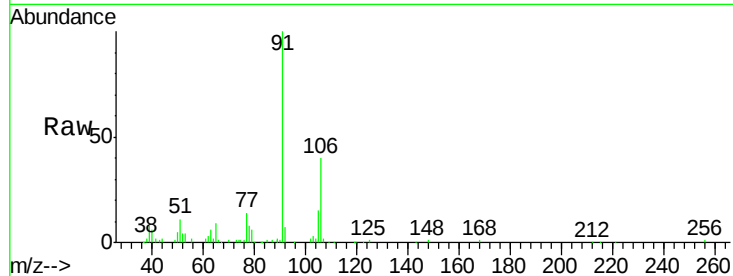
13.20





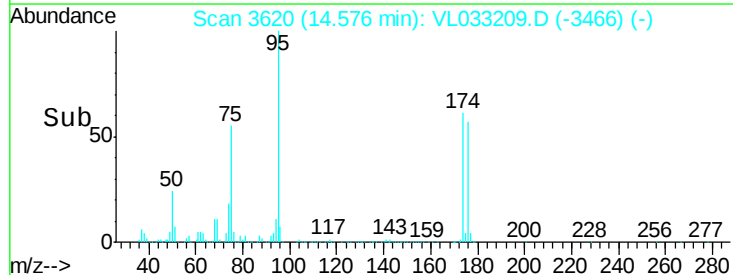
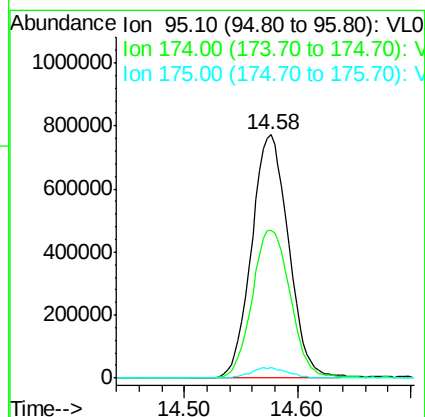
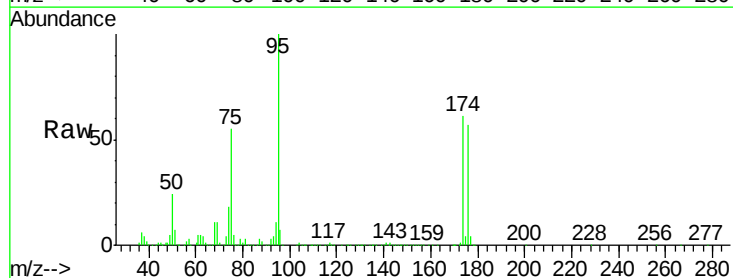
#60  
o-Xylene  
Concen: 0.343 ppbv  
RT: 13.85 min Scan# 3394  
Delta R.T. -0.01 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

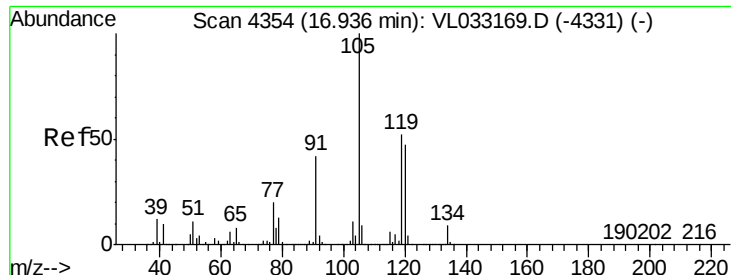
Tgt Ion: 91 Resp: 99354  
Ion Ratio Lower Upper  
91 100  
106 42.8 21.8 65.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.288 ppbv  
RT: 14.58 min Scan# 3620  
Delta R.T. -0.01 min  
Lab File: VL033209.D  
Acq: 14 Feb 2019 22:16

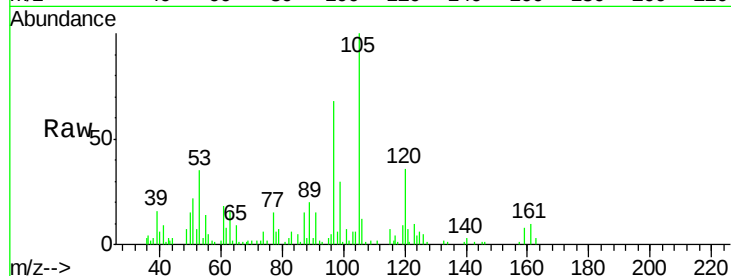
Tgt Ion: 95 Resp: 1749840  
Ion Ratio Lower Upper  
95 100  
174 63.4 51.2 76.8  
175 4.4 3.8 5.6





#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.133 ppbv  
 RT: 16.93 min Scan# 4351  
 Delta R.T. -0.01 min  
 Lab File: VL033209.D  
 Acq: 14 Feb 2019 22:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 44047 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 43.5  | 37.9  | 56.9  |
| 91       | 15.0  | 34.0  | 51.0# |
| 77       | 14.7  | 15.7  | 23.5# |



Abundance Ion 105.10 (104.80 to 105.80): V  
 Ion 120.20 (119.90 to 120.90): V  
 Ion 91.10 (90.80 to 91.80): VL0  
 Ion 77.10 (76.80 to 77.80): VL0

