

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030619\  
 Data File : VL033240.D  
 Acq On : 6 Mar 2019 1:58  
 Operator : SY/AP  
 Sample : VSTDICCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 04:17:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030619AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Mar 06 02:40:20 2019  
 QLast Update : Wed Mar 06 02:40:20 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 1079566  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 2456702  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 2679811m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1965872  | 9.53     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.30% |

| Target Compounds               |      |     |         |       | Ovalue     |
|--------------------------------|------|-----|---------|-------|------------|
| 2) Dichlorodifluoromethane     | 3.08 | 85  | 1182998 | 6.186 | ppbv 100   |
| 3) Chlorodifluoromethane       | 3.02 | 51  | 1074279 | 8.437 | ppbv 100   |
| 4) Chloromethane               | 3.17 | 50  | 554978  | 8.319 | ppbv 100   |
| 5) Vinyl Chloride              | 3.29 | 62  | 545608  | 7.727 | ppbv 100   |
| 6) Bromomethane                | 3.52 | 94  | 334020  | 8.654 | ppbv 100   |
| 7) Chloroethane                | 3.60 | 64  | 198368  | 8.630 | ppbv 100   |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85  | 1314111 | 8.275 | ppbv 100   |
| 9) Propene                     | 3.04 | 41  | 482963  | 7.902 | ppbv 100   |
| 10) Heptane                    | 8.25 | 43  | 1439526 | 7.801 | ppbv 100   |
| 11) Trichlorofluoromethane     | 4.00 | 101 | 1434334 | 8.694 | ppbv 100   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101 | 966667  | 8.500 | ppbv 100   |
| 13) Ethanol                    | 3.65 | 45  | 108418  | 5.234 | ppbv 100   |
| 14) Bromoethene                | 3.79 | 108 | 416956  | 8.538 | ppbv 100   |
| 15) Acetone                    | 3.90 | 43  | 963878  | 8.022 | ppbv 100   |
| 16) 1,3-Butadiene              | 3.36 | 39  | 489270  | 8.614 | ppbv 100   |
| 17) tert-Butyl alcohol         | 4.36 | 59  | 211057  | 9.148 | ppbv 100   |
| 18) 1,1-Dichloroethene         | 4.35 | 96  | 427340  | 8.472 | ppbv 100   |
| 19) Isopropyl Alcohol          | 4.02 | 45  | 756050  | 9.058 | ppbv 100   |
| 20) Methylene Chloride         | 4.41 | 84  | 378538  | 7.958 | ppbv 100   |
| 21) Allyl Chloride             | 4.48 | 41  | 693439  | 8.848 | ppbv 100   |
| 22) trans-1,2-Dichloroethene   | 4.97 | 96  | 487179  | 9.655 | ppbv 100   |
| 23) Vinyl Acetate              | 5.16 | 43  | 1983720 | 9.419 | ppbv 100   |
| 24) 1,1-Dichloroethane         | 5.09 | 63  | 1383549 | 9.225 | ppbv 100   |
| 25) Ethyl Acetate              | 5.77 | 43  | 2376062 | 8.653 | ppbv 100   |
| 26) Hexane                     | 5.78 | 57  | 1049588 | 8.184 | ppbv 100   |
| 27) Carbon Disulfide           | 4.62 | 76  | 1101969 | 9.552 | ppbv 100   |
| 28) Methyl tert-Butyl Ether    | 5.11 | 73  | 1616650 | 9.208 | ppbv 100   |
| 29) Chloroform                 | 5.85 | 83  | 1719942 | 8.742 | ppbv 100   |
| 30) Cyclohexane                | 7.25 | 84  | 868111  | 7.570 | ppbv 100   |
| 31) cis-1,2-Dichloroethene     | 5.64 | 61  | 1121841 | 8.748 | ppbv 100   |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97  | 1714651 | 7.890 | ppbv 100   |
| 34) 2-Butanone                 | 5.33 | 43  | 1570608 | 9.731 | ppbv 100   |
| 35) Carbon Tetrachloride       | 7.14 | 117 | 1727791 | 9.121 | ppbv 100   |
| 36) Benzene                    | 7.01 | 78  | 2174950 | 8.565 | ppbv 100   |
| 37) 1,2-Dichloroethane         | 6.42 | 62  | 1339729 | 9.307 | ppbv 100   |
| 38) Trichloroethene            | 7.96 | 130 | 817216  | 7.634 | ppbv 100   |
| 39) 1,2-Dichloropropane        | 7.74 | 63  | 843514  | 8.557 | ppbv 100   |
| 40) 1,4-Dioxane                | 7.96 | 88  | 315238  | 8.845 | ppbv # 100 |
| 41) Tetrahydrofuran            | 6.15 | 42  | 911739  | 9.188 | ppbv 100   |
| 42) Bromodichloromethane       | 7.92 | 83  | 1888633 | 9.305 | ppbv 100   |
| 43) Methyl Methacrylate        | 8.14 | 69  | 904771  | 9.003 | ppbv 100   |

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 ALS Vial : 1 Sample Multiplier: 1

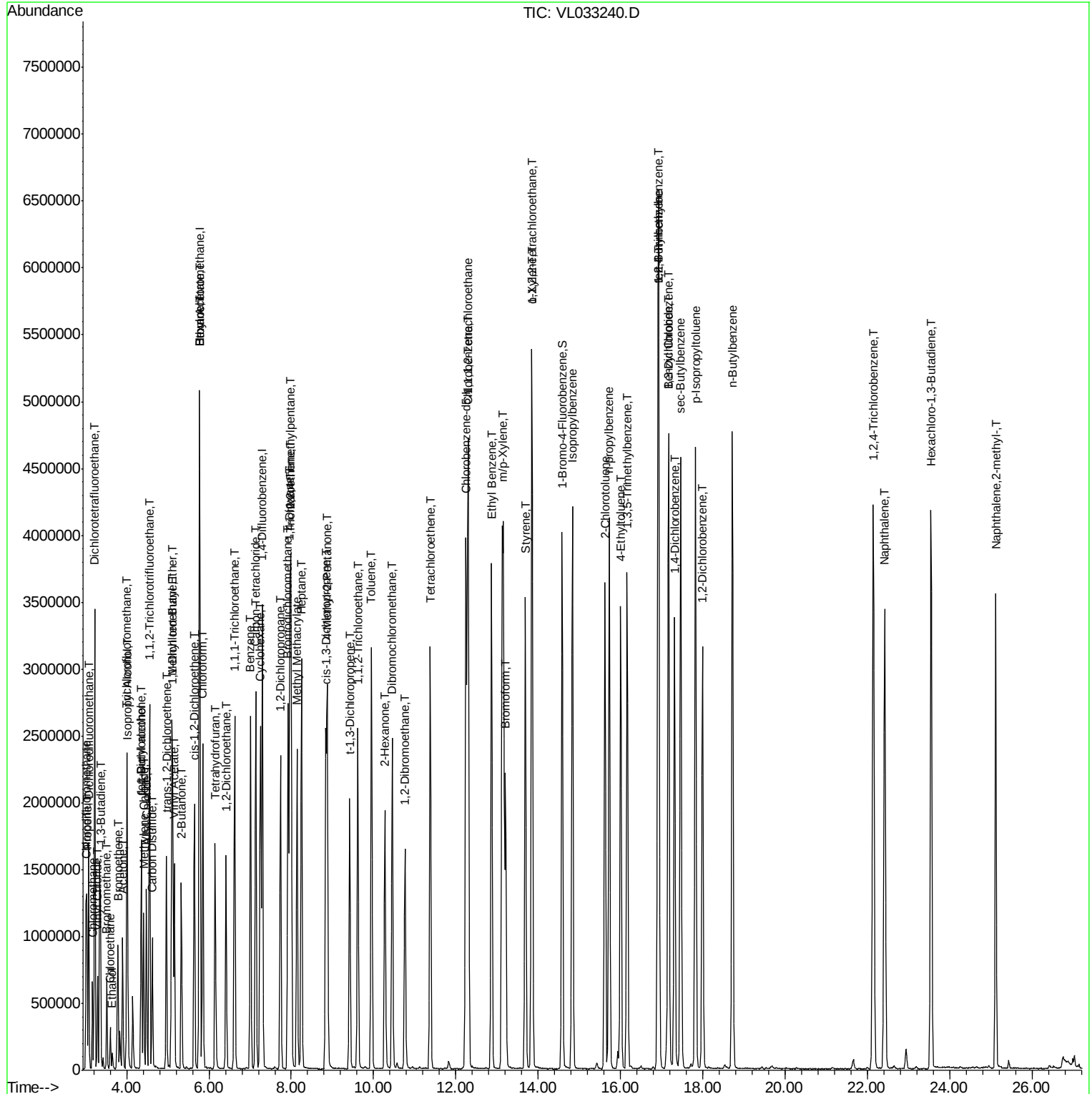
Quant Time: Mar 06 04:17:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030619AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Mar 06 02:40:20 2019  
 QLast Update : Wed Mar 06 02:40:20 2019  
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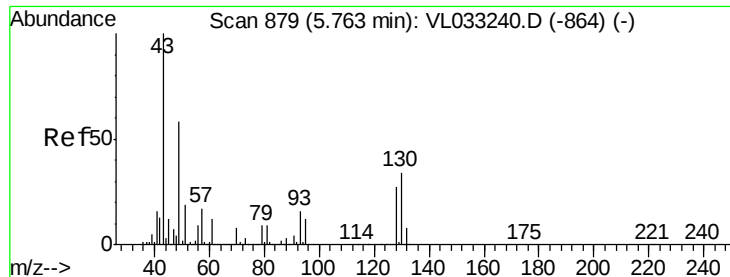
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 3678202  | 8.627  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.42  | 75   | 1214889  | 10.859 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.84  | 75   | 1376462  | 9.662  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 9.62  | 97   | 896484   | 8.743  | ppbv   | 100      |
| 48) Dibromochloromethane      | 10.45 | 129  | 1547330  | 9.543  | ppbv   | 100      |
| 49) Bromoform                 | 13.20 | 173  | 1281181  | 9.285  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.87  | 43   | 2330628  | 9.194  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.27 | 43   | 1813789  | 9.147  | ppbv   | 100      |
| 52) Tetrachloroethene         | 11.38 | 164  | 789457   | 8.211  | ppbv   | 100      |
| 53) Toluene                   | 9.95  | 91   | 2572350  | 8.698  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 1385463  | 8.649  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 1072515  | 8.676  | ppbv # | 60       |
| 57) Chlorobenzene             | 12.31 | 112  | 1842191  | 7.888  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.87 | 91   | 3534127  | 8.152  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.13 | 91   | 5757754m | 15.925 | ppbv   |          |
| 60) o-Xylene                  | 13.85 | 91   | 2770464  | 7.869  | ppbv   | 100      |
| 61) Styrene                   | 13.69 | 104  | 2078213  | 7.908  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.83 | 105  | 3816774  | 7.741  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.84 | 83   | 1769748  | 6.454  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.73 | 120  | 955806   | 7.665  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.91 | 119  | 3240512  | 7.566  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.16 | 91   | 1640091  | 10.927 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.46 | 105  | 4635448  | 7.468  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.82 | 119  | 3820418  | 7.392  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.72 | 91   | 4166256  | 7.452  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.62 | 91   | 2924856  | 7.581  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 16.00 | 105  | 3122894  | 7.779  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.16 | 105  | 2945411  | 7.684  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.93 | 105  | 2987119  | 7.486  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 17.17 | 146  | 1713045  | 7.462  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.31 | 146  | 1729609  | 7.619  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.99 | 146  | 1696548  | 7.486  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.55 | 225  | 1135164  | 9.452  | ppbv   | 100      |
| 79) Naphthalene               | 22.42 | 128  | 4485151  | 9.902  | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 25.12 | 142  | 1959924  | 8.671  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 22.14 | 180  | 2086046  | 9.186  | ppbv   | 100      |

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

```
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QLast Update : Wed Mar 06 02:40:20 2019  
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

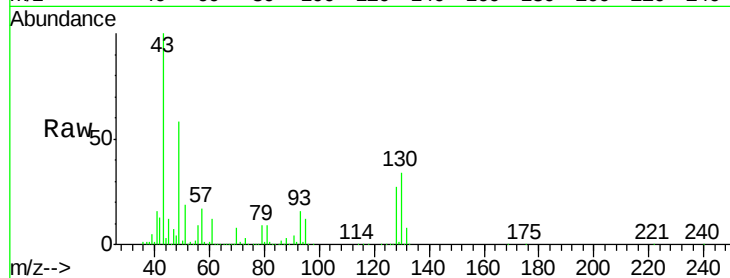
Tot Ion: 49 Resp: 1079566

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 45.9  | 22.9  | 68.8  |
| 130 | 58.7  | 29.3  | 88.0  |

49 100

128 45.9 22.9 68.8

130 58.7 29.3 88.0



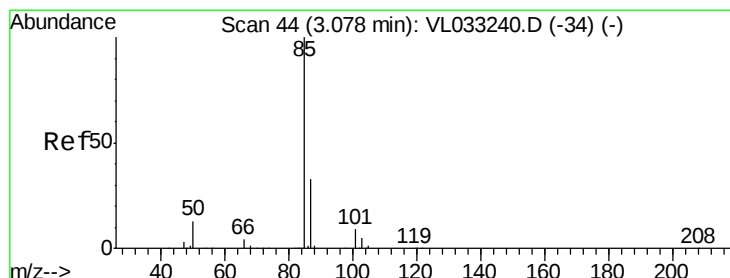
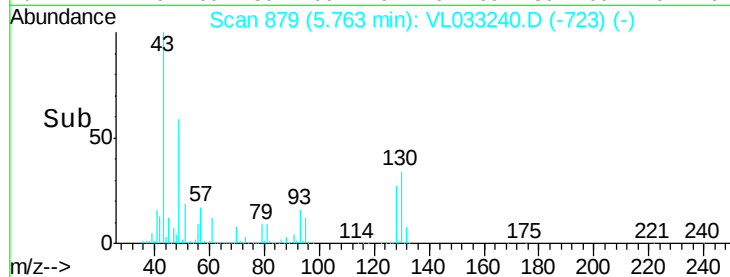
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.76

Time-->



#2

Dichlorodifluoromethane

Concen: 6.186 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033240.D

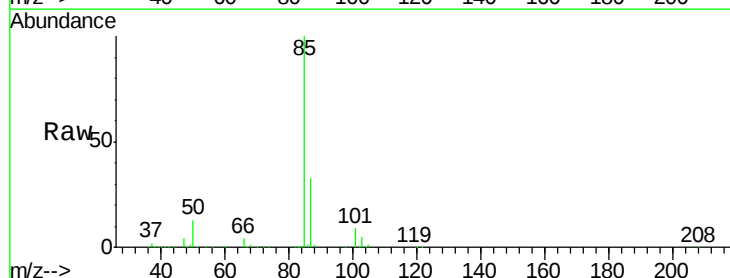
Acq: 6 Mar 2019 1:58

Tgt Ion: 85 Resp: 1182998

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 33.4  | 26.7  | 40.1  |

85 100

87 33.4 26.7 40.1

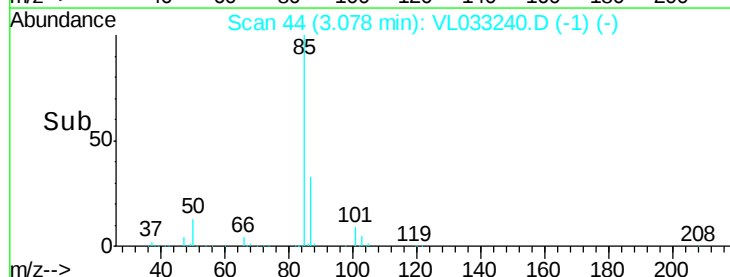


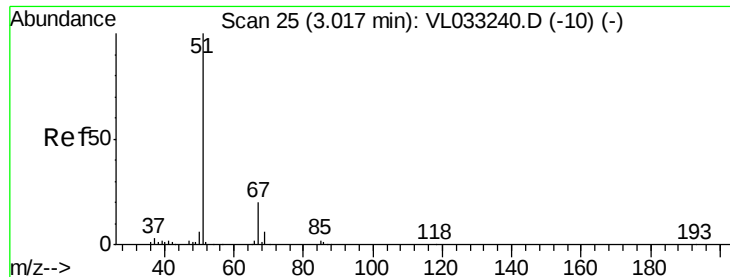
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

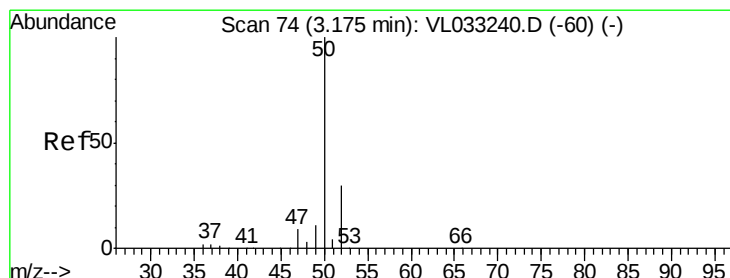
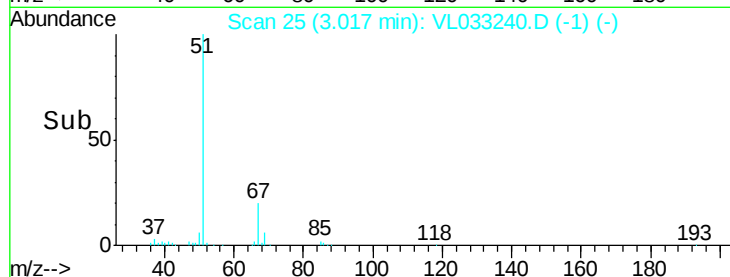
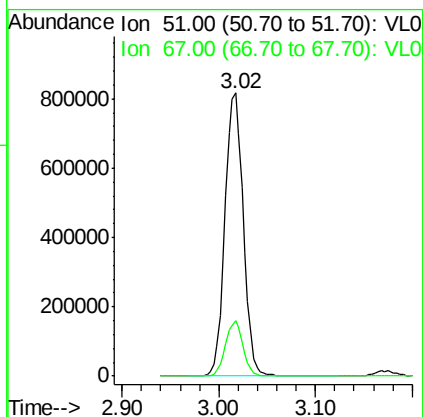
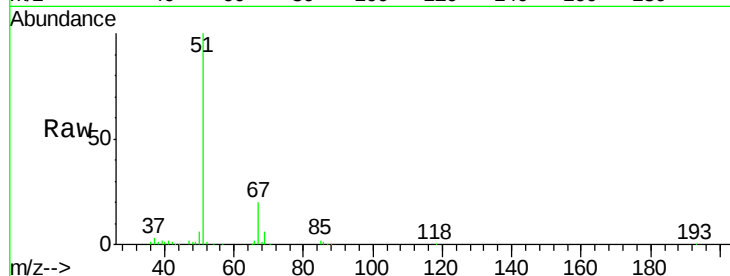
Time-->





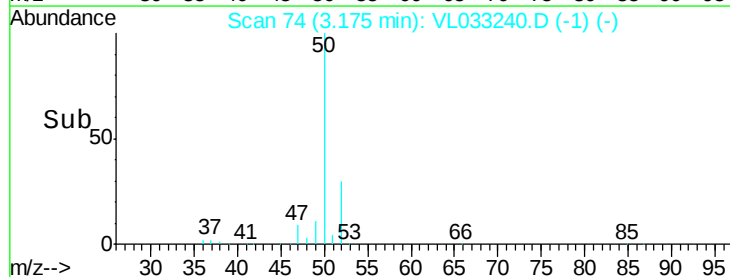
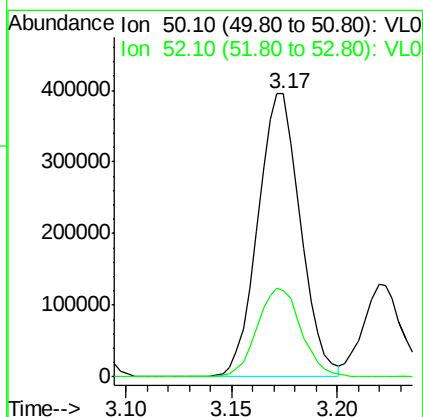
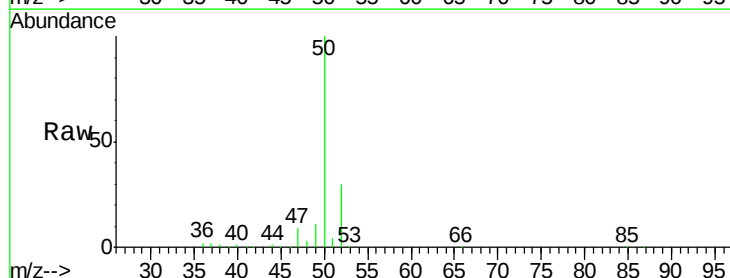
#3  
 Chlorodifluoromethane  
 Concen: 8.437 ppbv  
 RT: 3.02 min Scan# 25  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

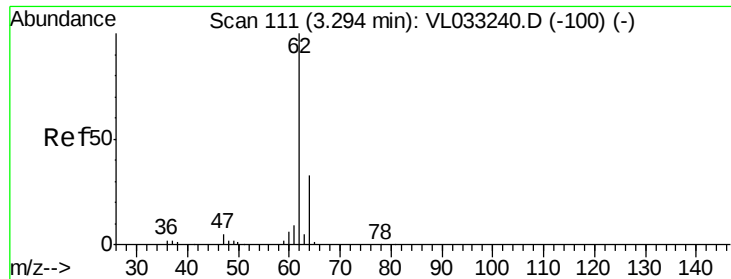
Tot Ion: 51 Resp: 1074279  
 Ion Ratio Lower Upper  
 51 100  
 67 18.7 15.0 22.4



#4  
 Chloromethane  
 Concen: 8.319 ppbv  
 RT: 3.17 min Scan# 74  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tgt Ion: 50 Resp: 554978  
 Ion Ratio Lower Upper  
 50 100  
 52 30.4 24.3 36.5





#5

Vinyl Chloride

Concen: 7.727 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033240.D

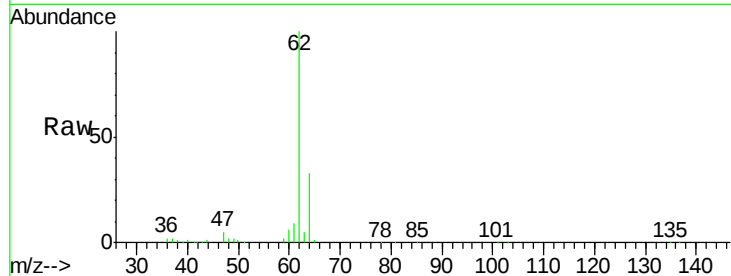
Acq: 6 Mar 2019 1:58

Tot Ion: 62 Resp: 545608

Ion Ratio Lower Upper

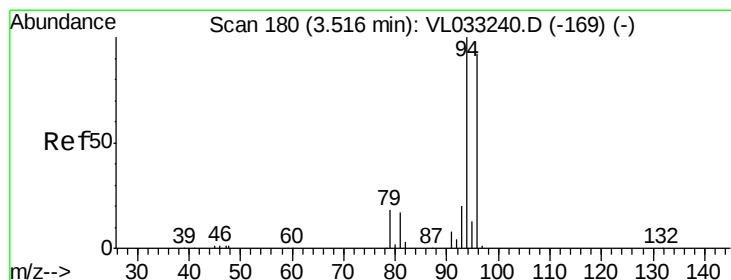
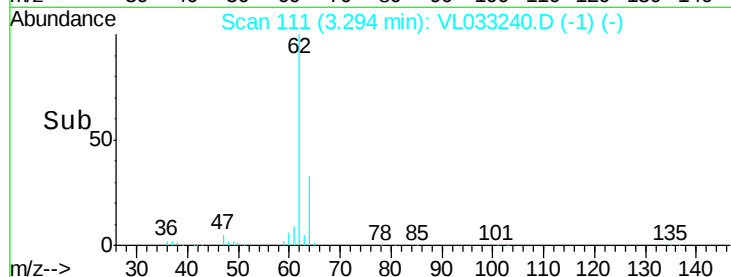
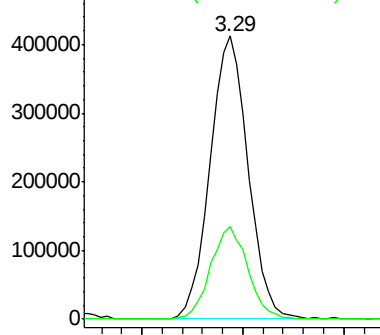
62 100

64 32.7 26.2 39.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.654 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033240.D

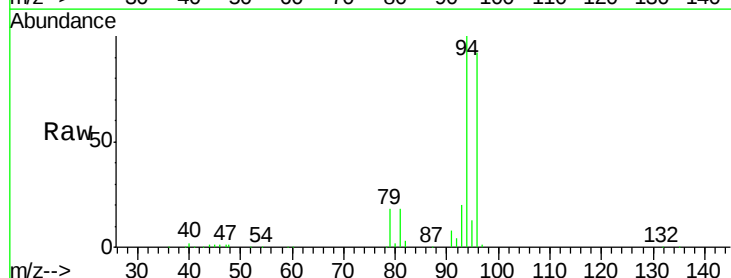
Acq: 6 Mar 2019 1:58

Tgt Ion: 94 Resp: 334020

Ion Ratio Lower Upper

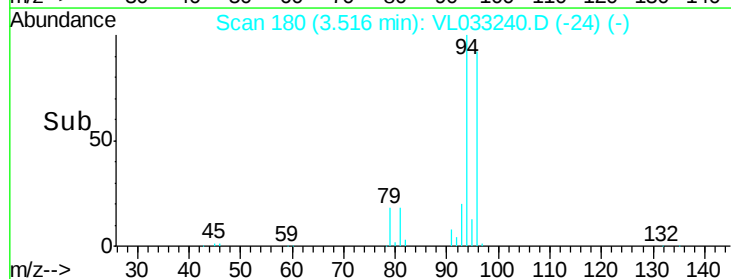
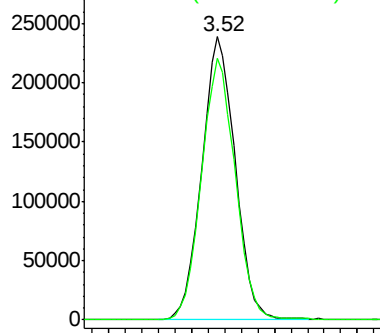
94 100

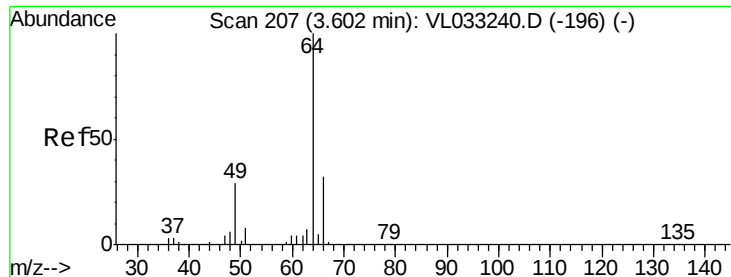
96 92.5 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.630 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033240.D

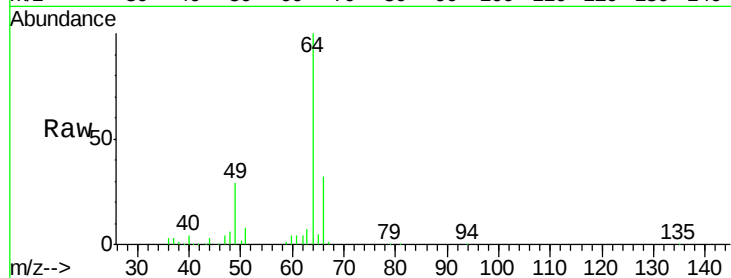
Acq: 6 Mar 2019 1:58

Tot Ion: 64 Resp: 198368

Ion Ratio Lower Upper

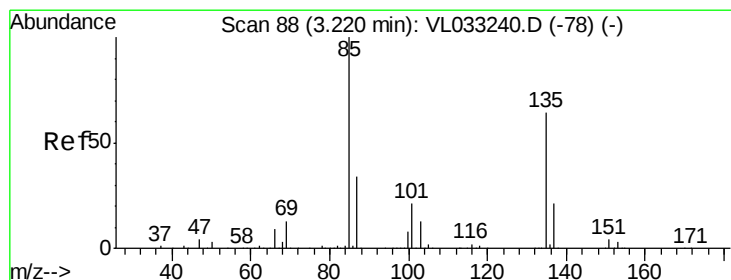
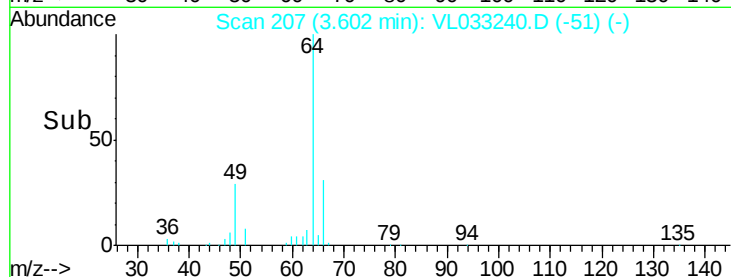
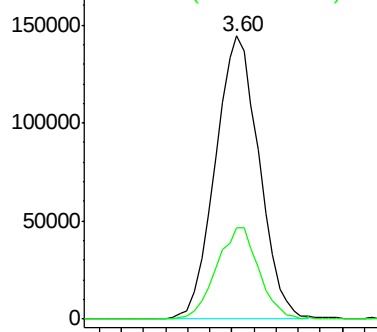
64 100

66 32.1 25.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.275 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033240.D

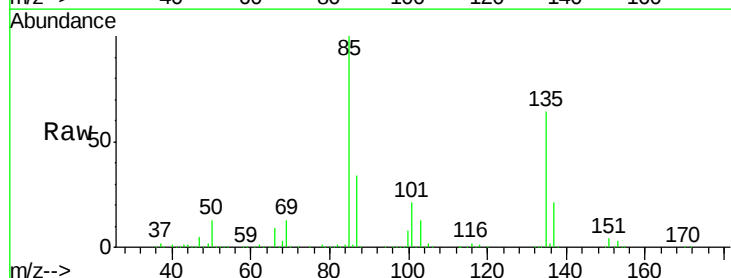
Acq: 6 Mar 2019 1:58

Tgt Ion: 85 Resp: 1314111

Ion Ratio Lower Upper

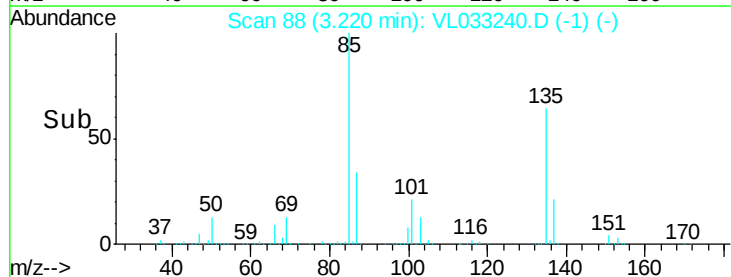
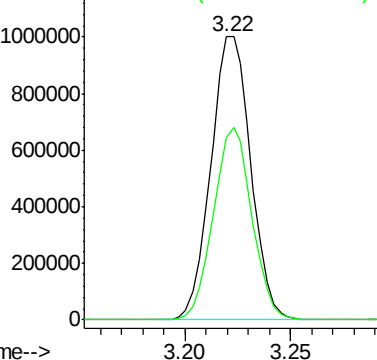
85 100

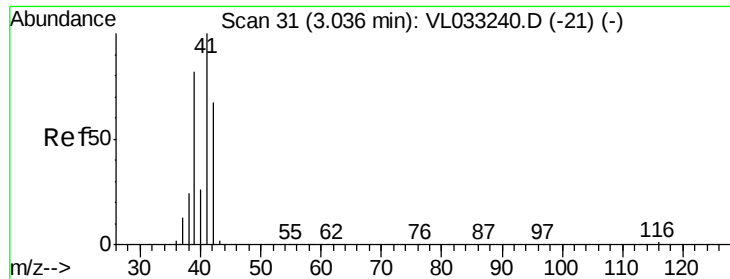
135 65.8 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 7.902 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033240.D

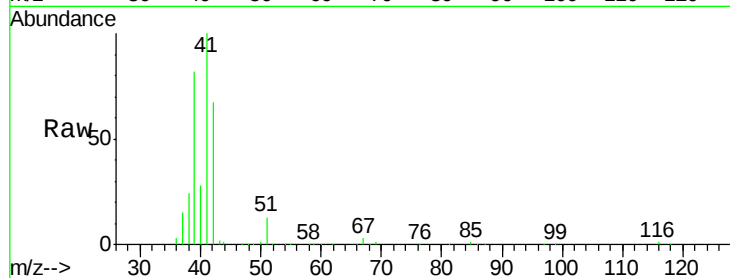
Acq: 6 Mar 2019 1:58

Tot Ion: 41 Resp: 482963

Ion Ratio Lower Upper

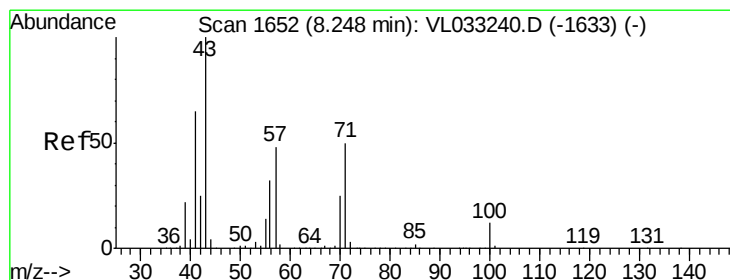
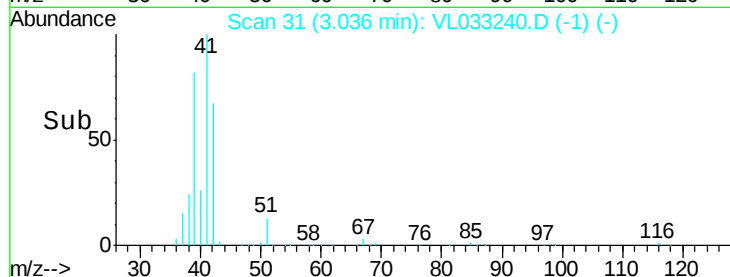
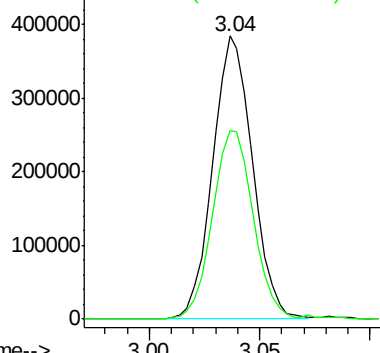
41 100

42 69.1 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 7.801 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033240.D

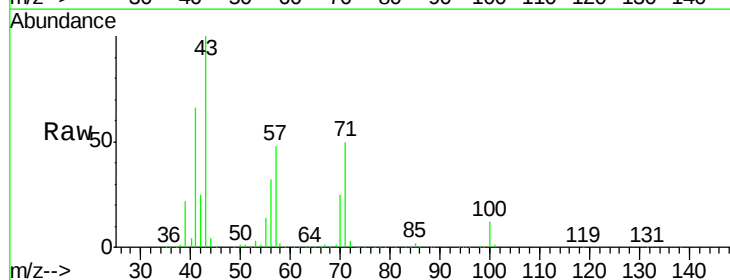
Acq: 6 Mar 2019 1:58

Tgt Ion: 43 Resp: 1439526

Ion Ratio Lower Upper

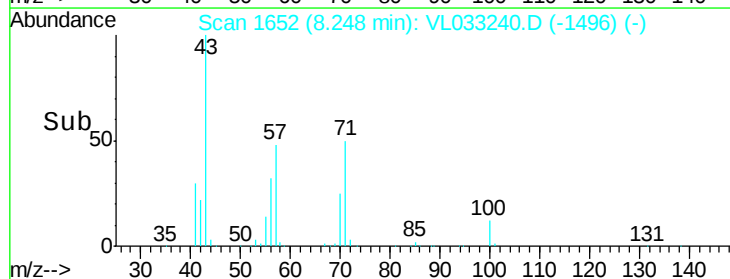
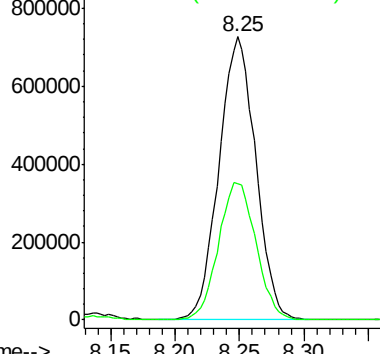
43 100

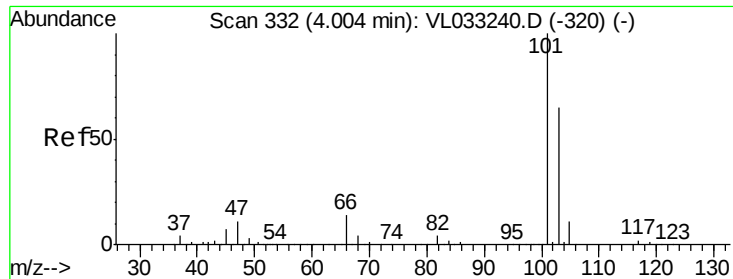
57 49.6 39.8 59.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

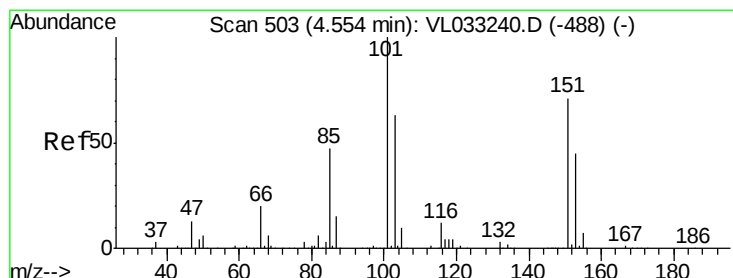
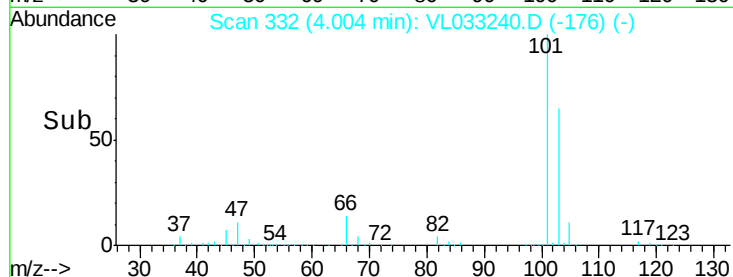
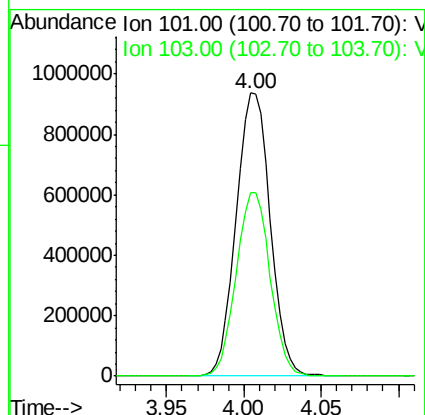
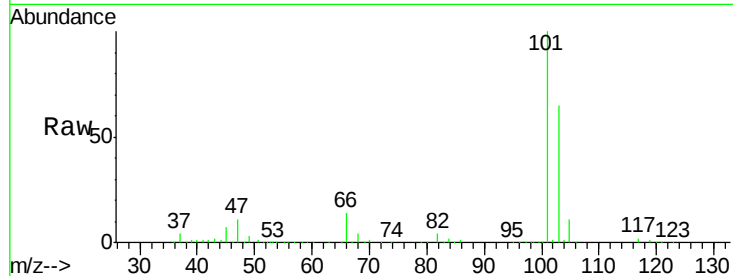
Ion 57.10 (56.80 to 57.80): VL0





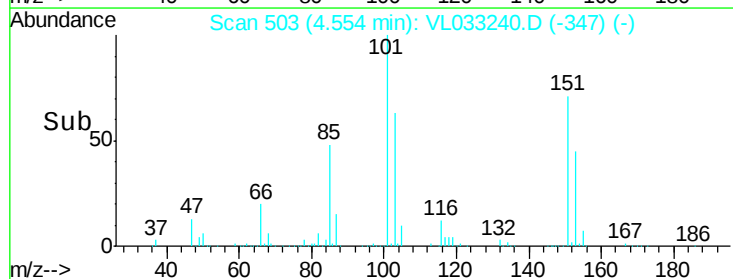
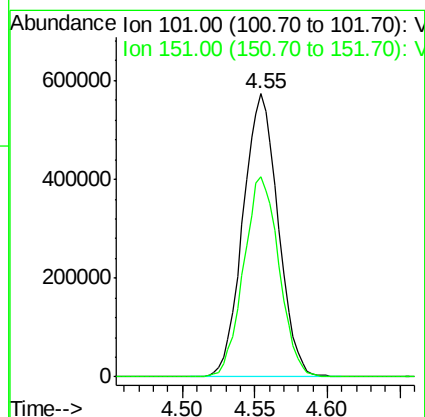
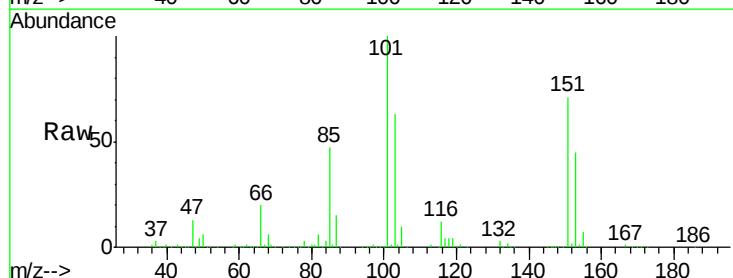
#11  
 Trichlorofluoromethane  
 Concen: 8.694 ppbv  
 RT: 4.00 min Scan# 332  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

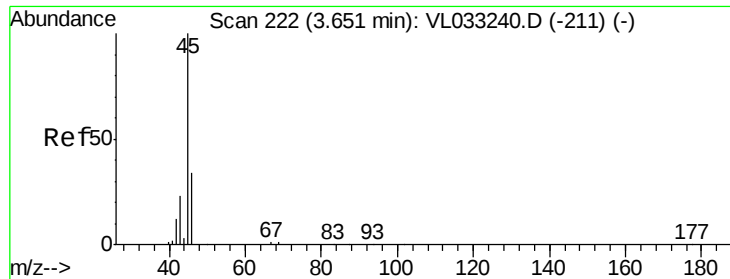
Tot Ion:101 Resp: 1434334  
 Ion Ratio Lower Upper  
 101 100  
 103 64.6 51.7 77.5



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.500 ppbv  
 RT: 4.55 min Scan# 503  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tgt Ion:101 Resp: 966667  
 Ion Ratio Lower Upper  
 101 100  
 151 71.3 57.0 85.6





#13

Ethanol

Concen: 5.234 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033240.D

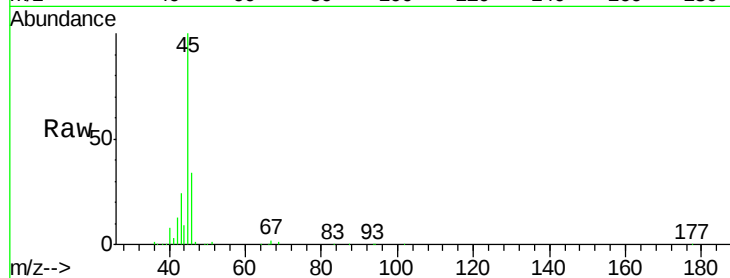
Acq: 6 Mar 2019 1:58

Tot Ion: 45 Resp: 108418

Ion Ratio Lower Upper

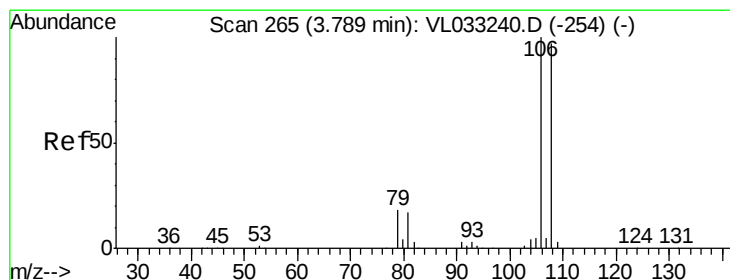
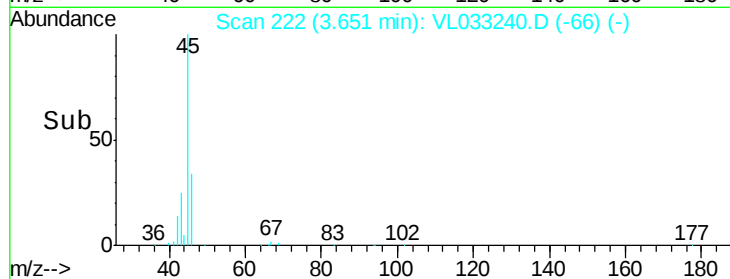
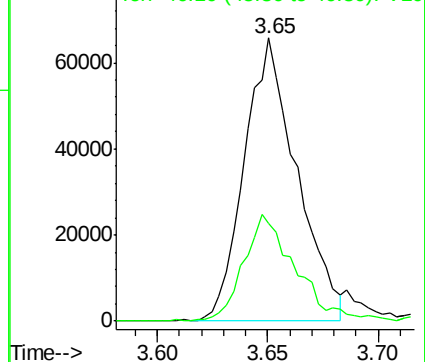
45 100

46 38.3 15.3 61.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 8.538 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

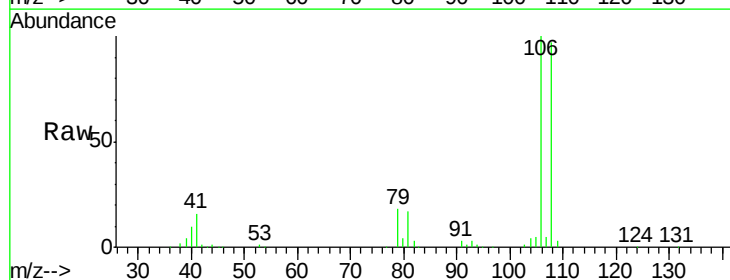
Tgt Ion: 108 Resp: 416956

Ion Ratio Lower Upper

108 100

106 107.1 85.5 128.3

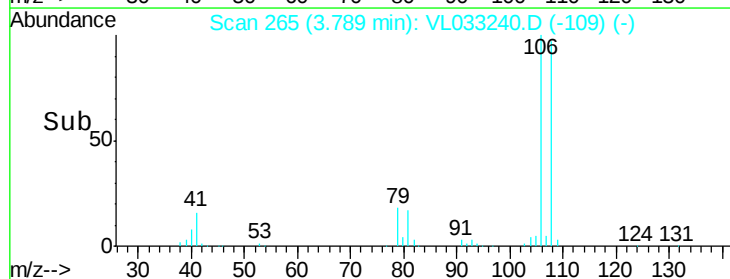
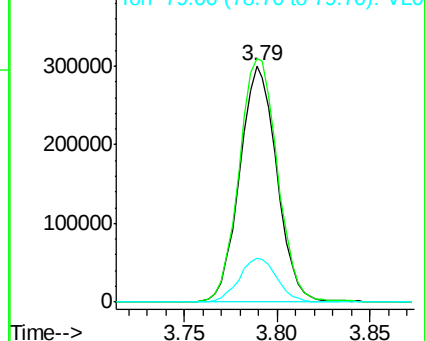
79 19.1 15.3 22.9

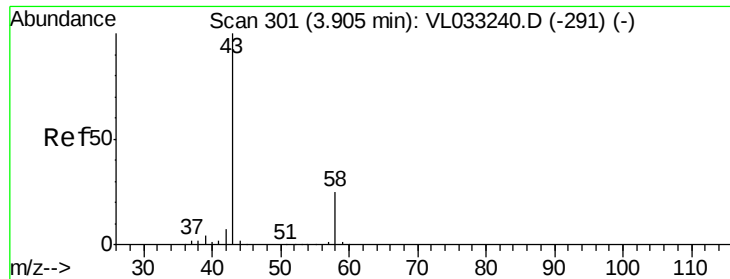


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 8.022 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033240.D

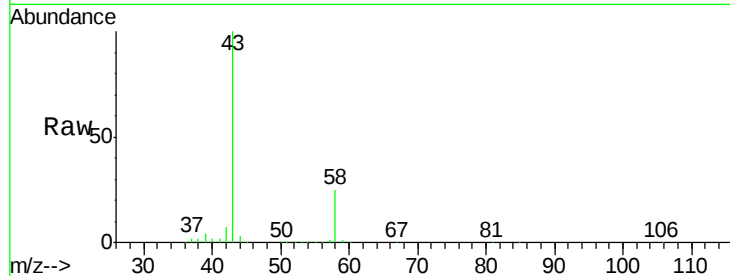
Acq: 6 Mar 2019 1:58

Tot Ion: 43 Resp: 963878

Ion Ratio Lower Upper

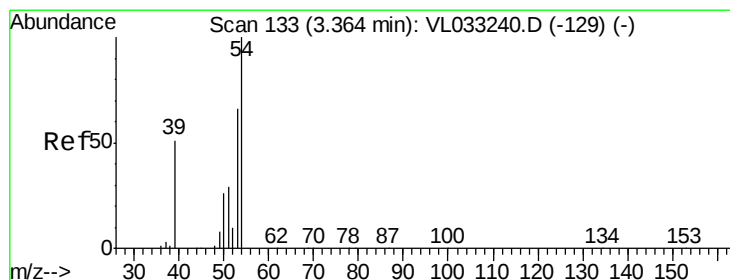
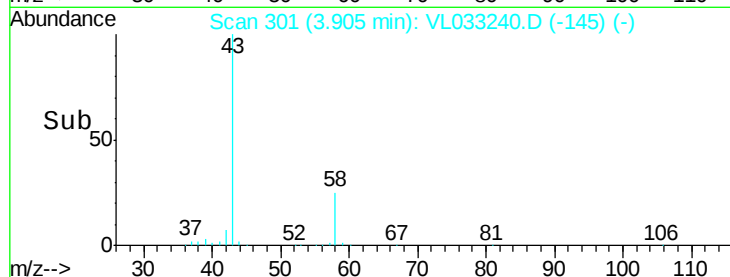
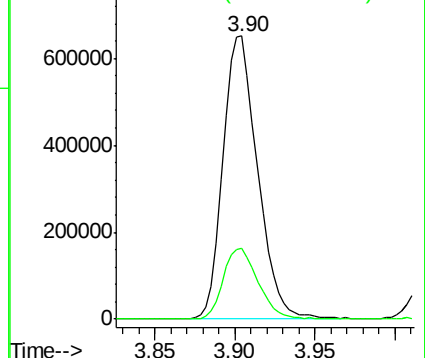
43 100

58 25.3 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 8.614 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033240.D

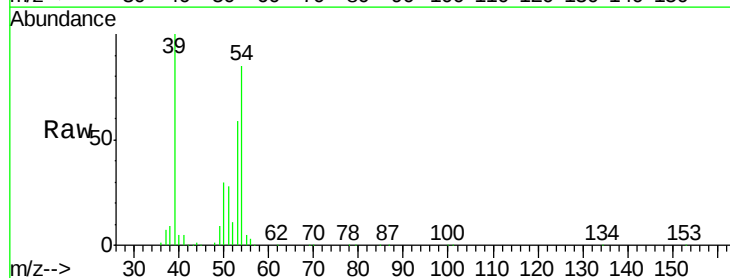
Acq: 6 Mar 2019 1:58

Tgt Ion: 39 Resp: 489270

Ion Ratio Lower Upper

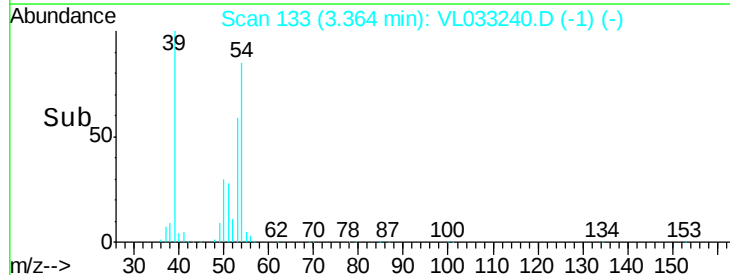
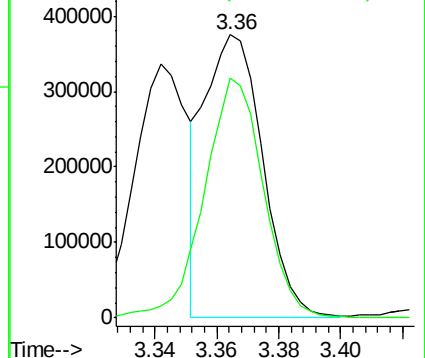
39 100

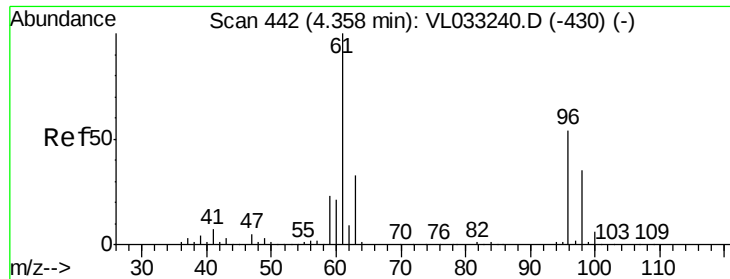
54 87.0 69.6 104.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 9.148 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033240.D

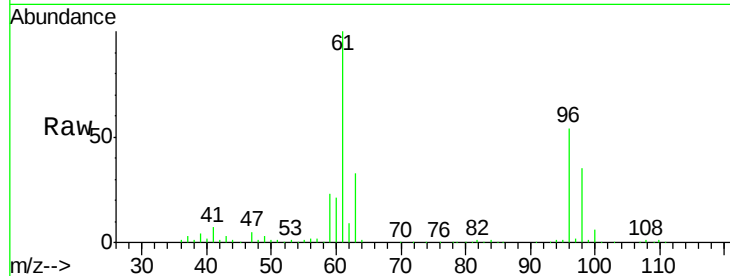
Acq: 6 Mar 2019 1:58

Tot Ion: 59 Resp: 211057

Ion Ratio Lower Upper

59 100

57 9.4 7.5 11.3



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.36

120000

100000

80000

60000

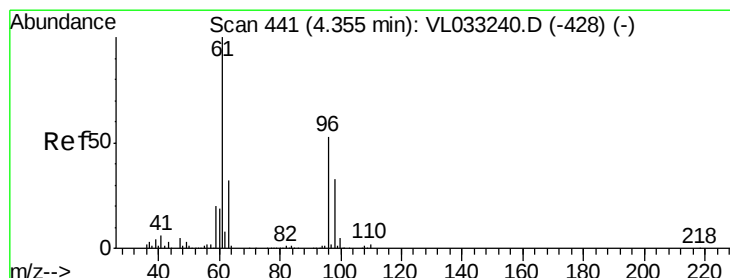
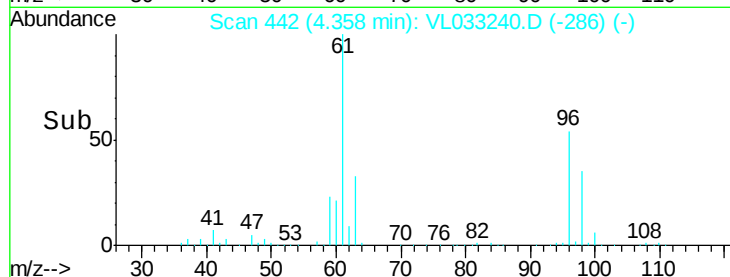
40000

20000

0

Time-->

4.30 4.35 4.40



#18

1,1-Dichloroethene

Concen: 8.472 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

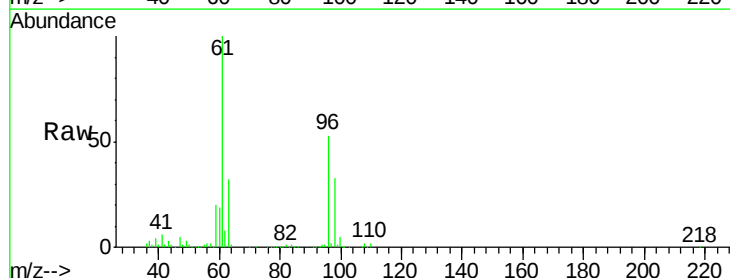
Tgt Ion: 96 Resp: 427340

Ion Ratio Lower Upper

96 100

61 187.7 150.2 225.2

98 61.5 49.2 73.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

600000

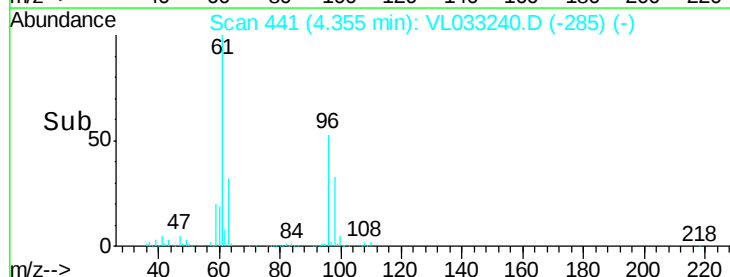
400000

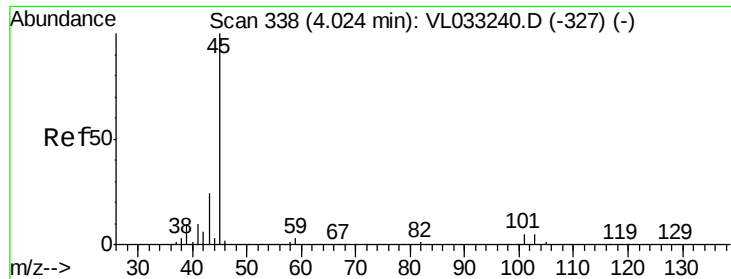
200000

0

Time-->

4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 9.058 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033240.D

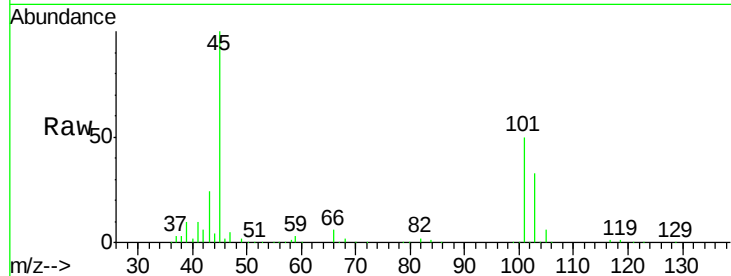
Acq: 6 Mar 2019 1:58

Tot Ion: 45 Resp: 756050

Ion Ratio Lower Upper

45 100

58 1.7 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

300000

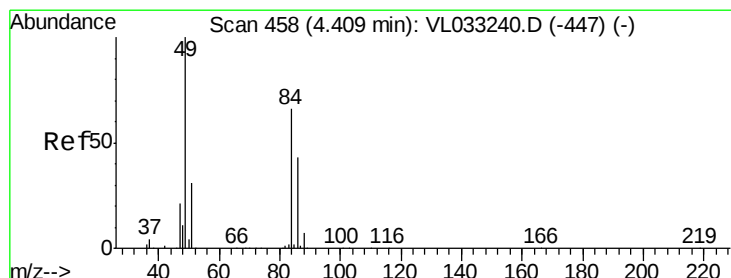
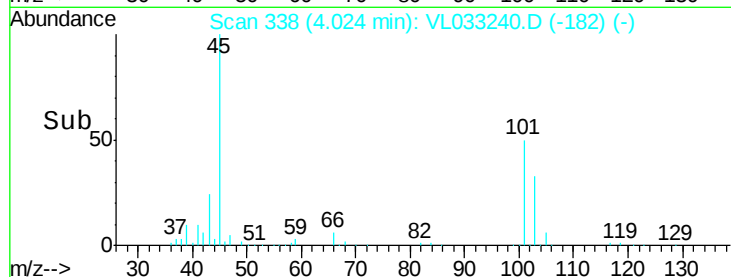
200000

100000

0

Time-->

3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 7.958 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tgt Ion: 84 Resp: 378538

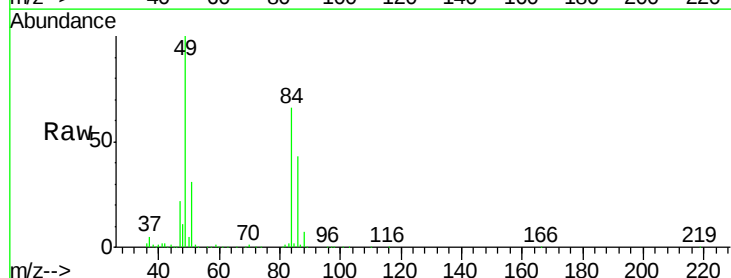
Ion Ratio Lower Upper

84 100

49 150.5 120.4 180.6

51 45.9 36.7 55.1

86 64.8 51.8 77.8



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

600000

500000

400000

300000

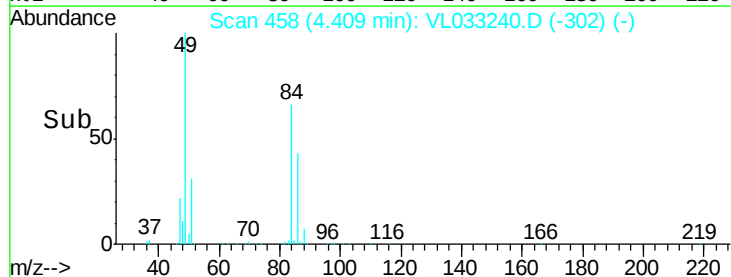
200000

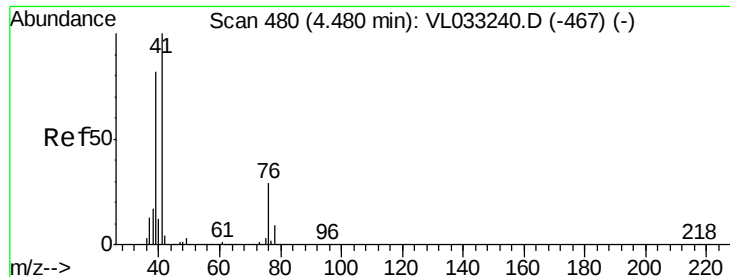
100000

0

Time-->

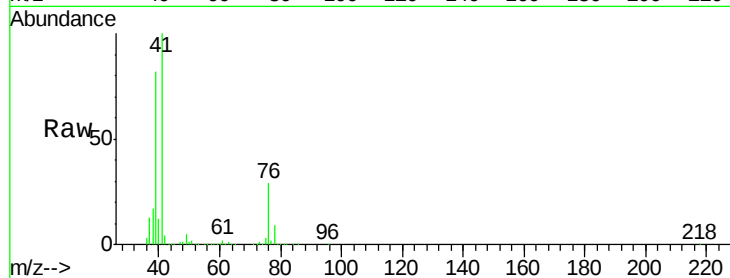
4.35 4.40 4.45



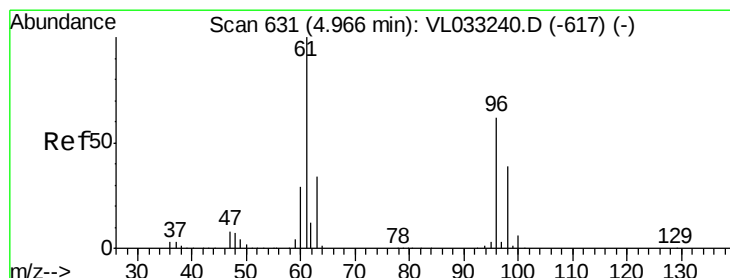
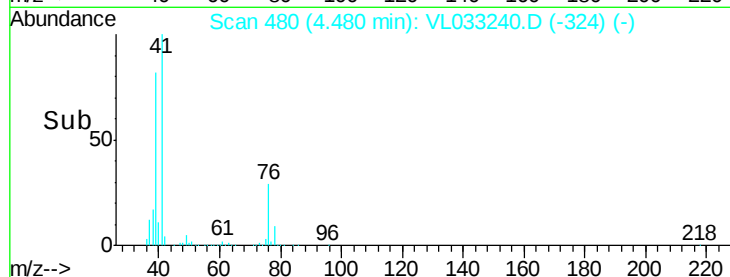
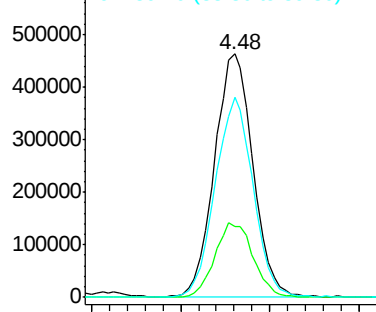


#21  
Allvl Chloride  
Concen: 8.848 ppbv  
RT: 4.48 min Scan# 480  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tot Ion: 41 Resp: 693439  
Ion Ratio Lower Upper  
41 100  
76 30.7 24.6 36.8  
39 81.5 65.2 97.8

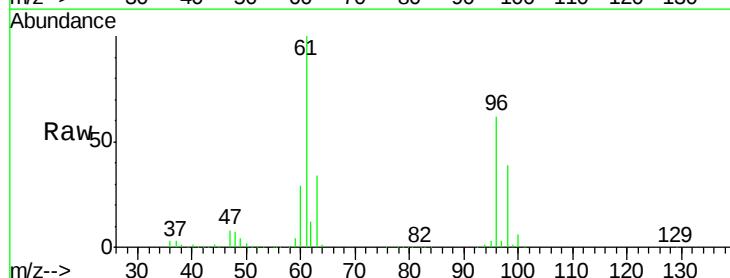


Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0

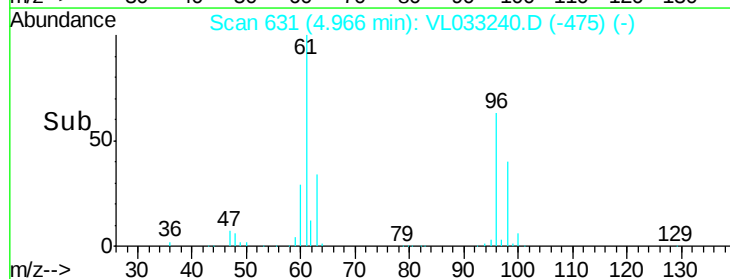
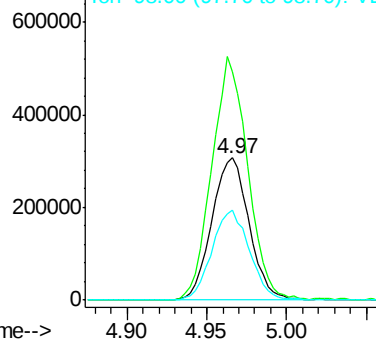


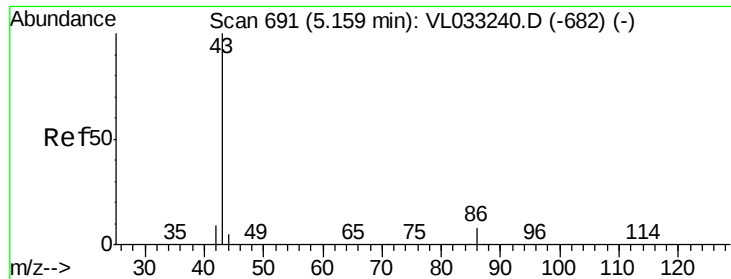
#22  
trans-1,2-Dichloroethene  
Concen: 9.655 ppbv  
RT: 4.97 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion: 96 Resp: 487179  
Ion Ratio Lower Upper  
96 100  
61 160.4 128.3 192.5  
98 63.2 50.6 75.8



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.419 ppbv

RT: 5.16 min Scan# 691

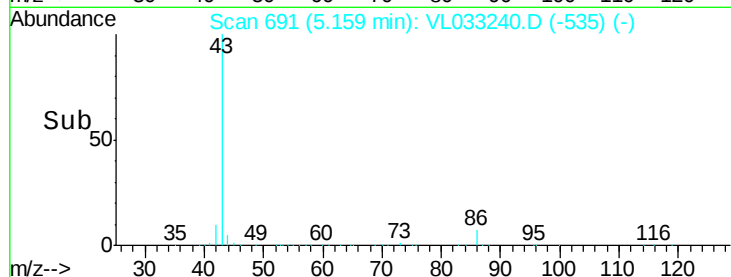
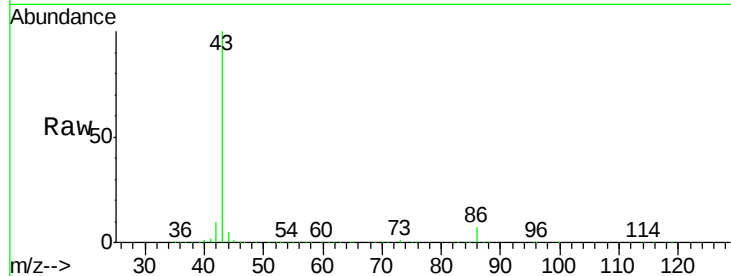
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tot Ion: 43 Resp: 1983720

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.9   | 5.5   | 8.3   |
| 42  | 9.6   | 7.7   | 11.5  |
| 44  | 5.1   | 4.1   | 6.1   |

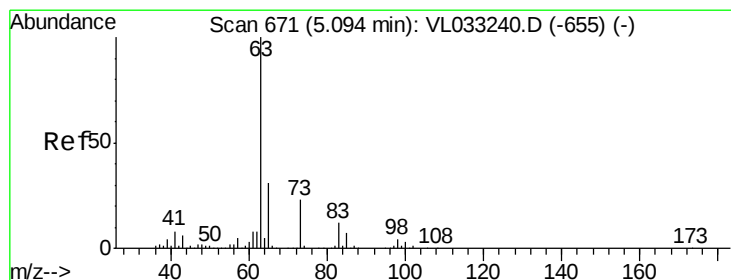
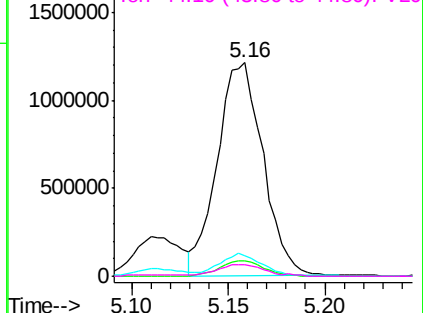


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.225 ppbv

RT: 5.09 min Scan# 671

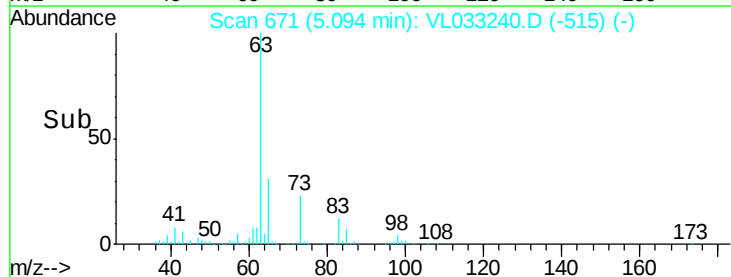
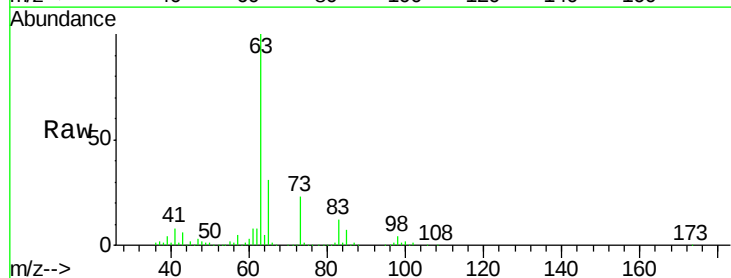
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tgt Ion: 63 Resp: 1383549

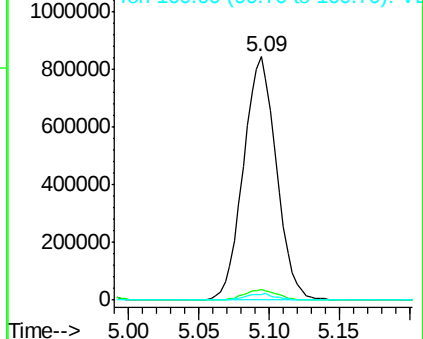
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.2   | 2.1   | 6.3   |
| 100 | 2.5   | 1.3   | 3.8   |

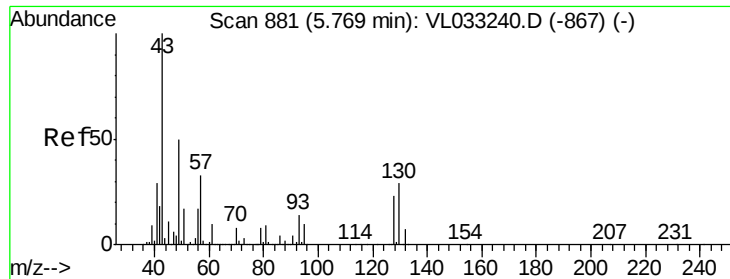


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

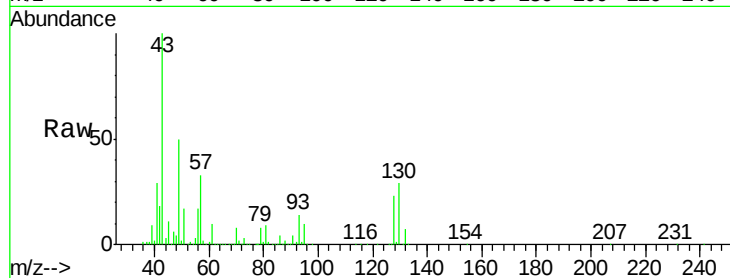




#25  
Ethyl Acetate  
Concen: 8.653 ppbv  
RT: 5.77 min Scan# 881  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tot Ion: 43 Resp: 2376062

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.7   | 7.8   | 11.6  |
| 61  | 8.8   | 7.0   | 10.6  |
| 70  | 6.9   | 5.5   | 8.3   |



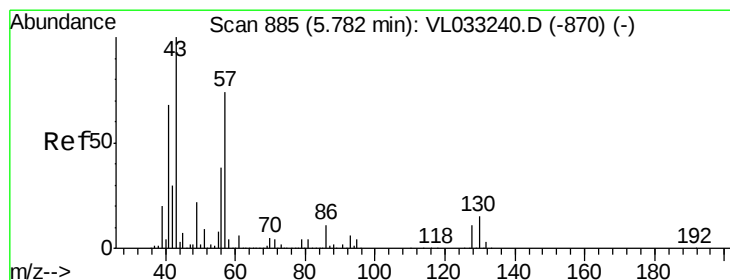
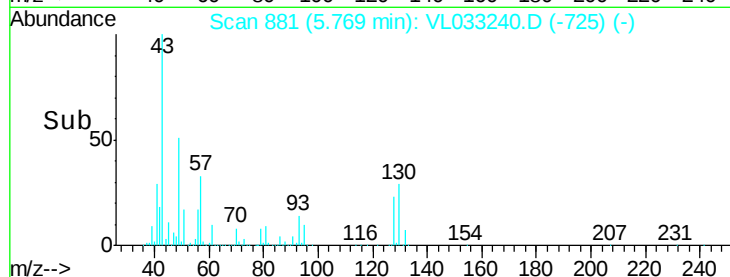
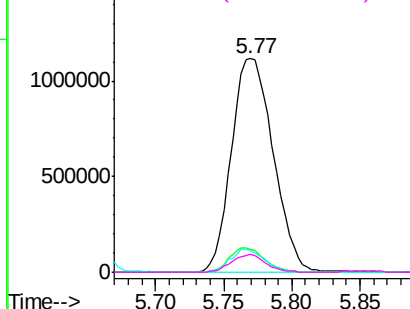
Abundance

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

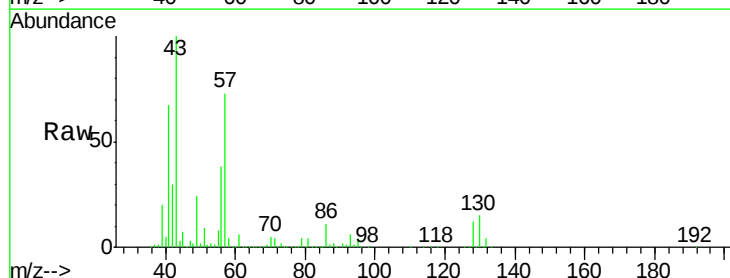
Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 8.184 ppbv  
RT: 5.78 min Scan# 885  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion: 57 Resp: 1049588

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 91.8  | 73.4  | 110.2 |
| 43  | 227.6 | 182.1 | 273.1 |
| 56  | 53.3  | 42.6  | 64.0  |



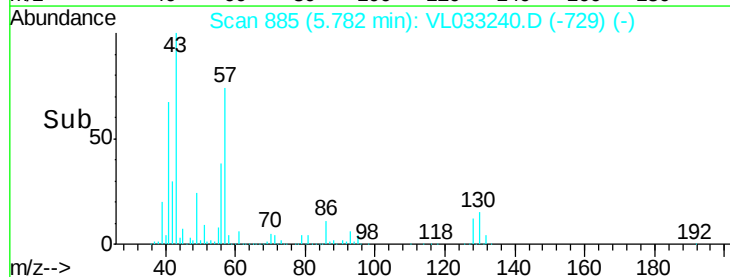
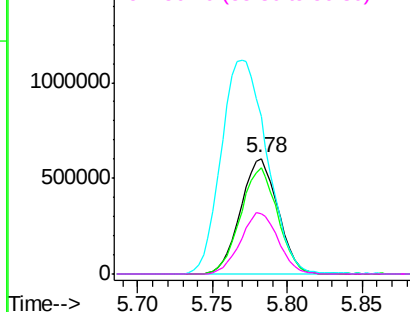
Abundance

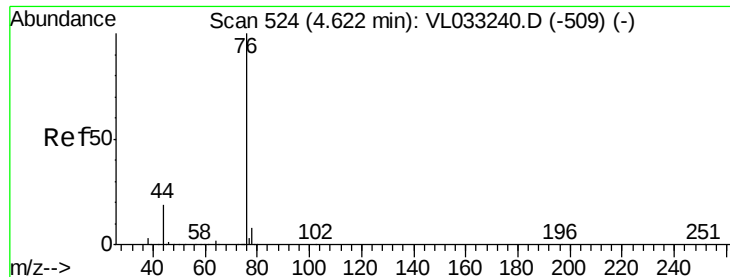
Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 9.552 ppbv

RT: 4.62 min Scan# 524

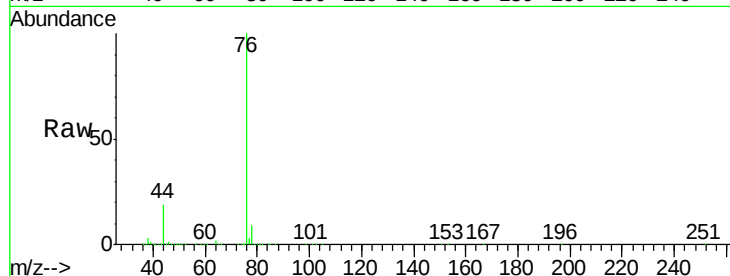
Delta R.T. 0.00 min

Lab File: VL033240.D

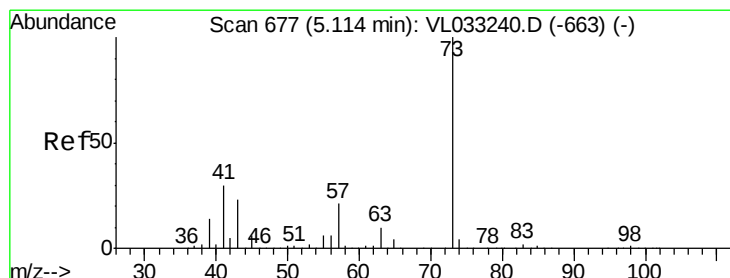
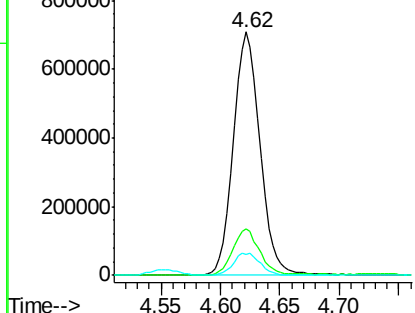
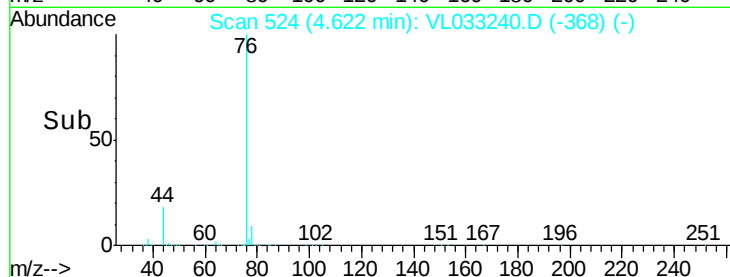
Acq: 6 Mar 2019 1:58

Tot Ion: 76 Resp: 1101969

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 18.8  | 15.0  | 22.6  |
| 78  | 9.1   | 7.3   | 10.9  |



Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.208 ppbv

RT: 5.11 min Scan# 677

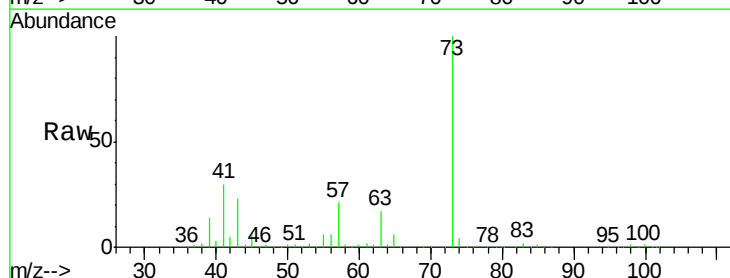
Delta R.T. 0.00 min

Lab File: VL033240.D

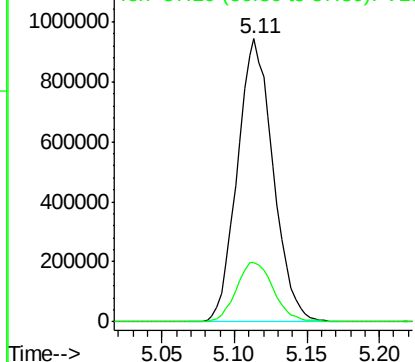
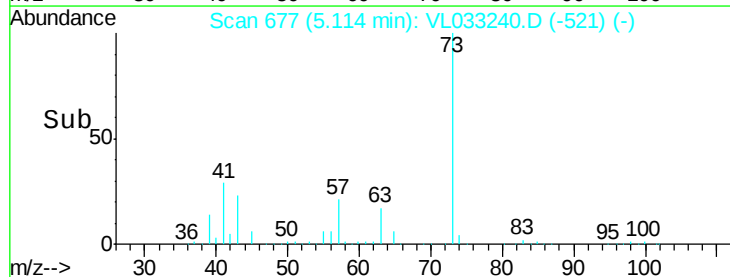
Acq: 6 Mar 2019 1:58

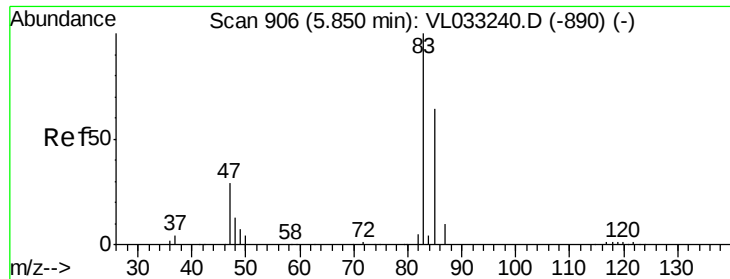
Tgt Ion: 73 Resp: 1616650

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 22.0  | 17.6  | 26.4  |



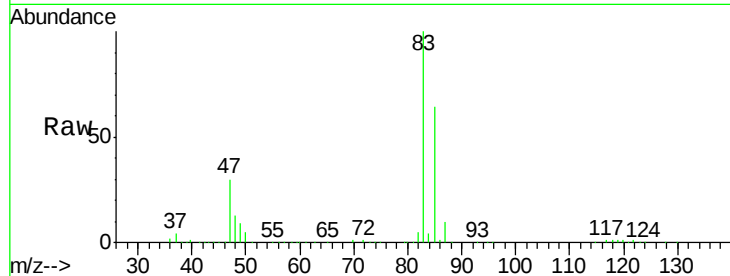
Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0



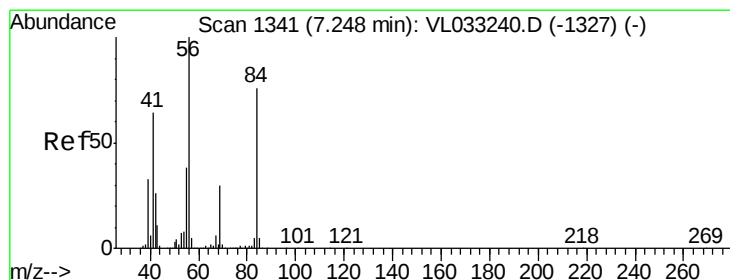
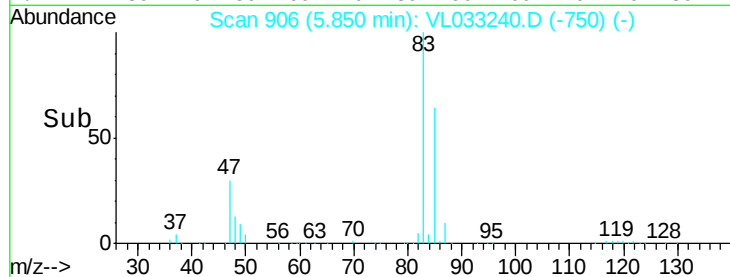
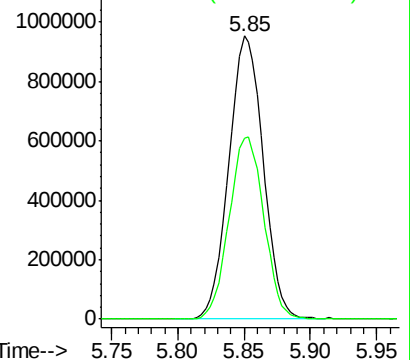


#29  
Chloroform  
Concen: 8.742 ppbv  
RT: 5.85 min Scan# 906  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tot Ion: 83 Resp: 1719942  
Ion Ratio Lower Upper  
83 100  
85 64.0 51.2 76.8

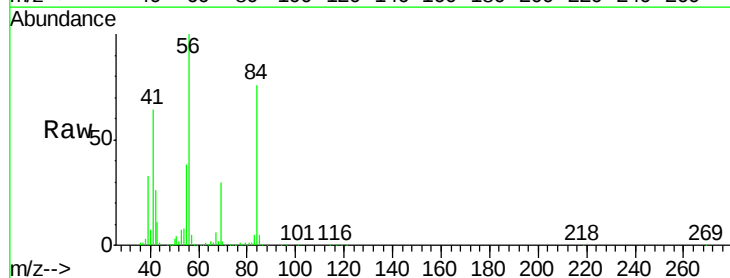


Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0

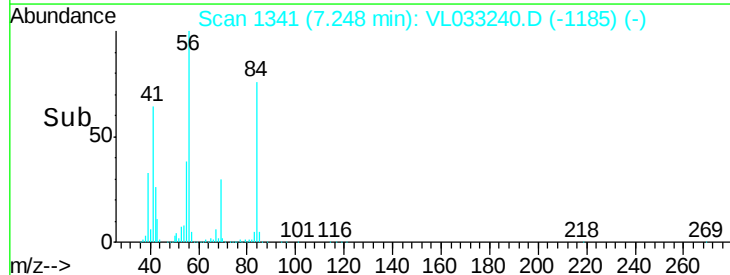
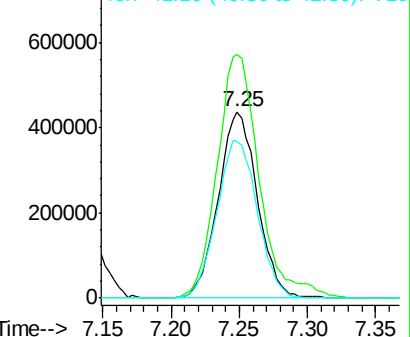


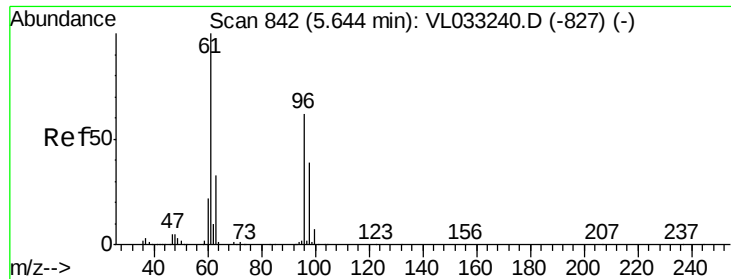
#30  
Cyclohexane  
Concen: 7.570 ppbv  
RT: 7.25 min Scan# 1341  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion: 84 Resp: 868111  
Ion Ratio Lower Upper  
84 100  
56 141.4 113.1 169.7  
41 88.4 70.8 106.2



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

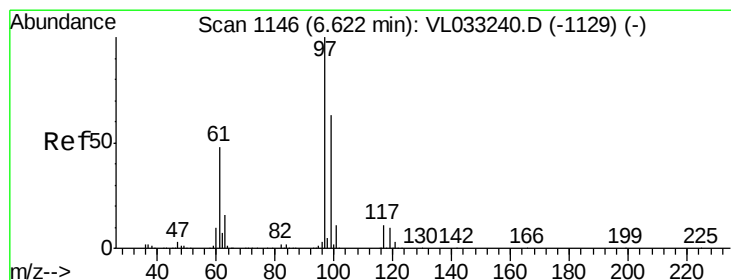
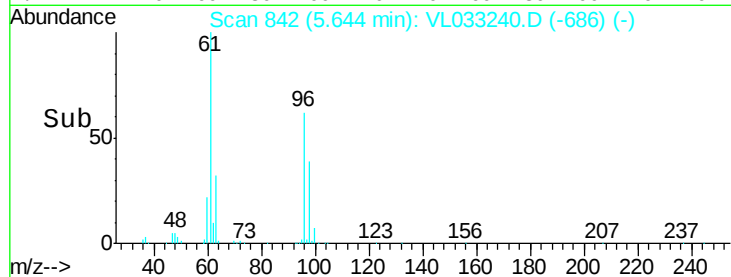
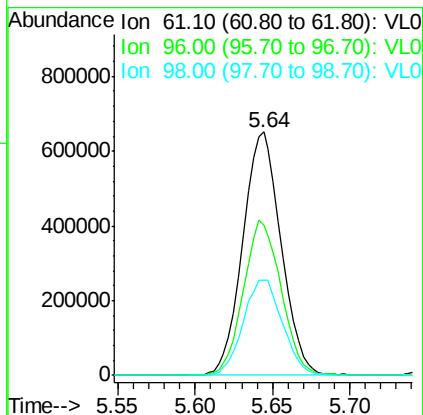
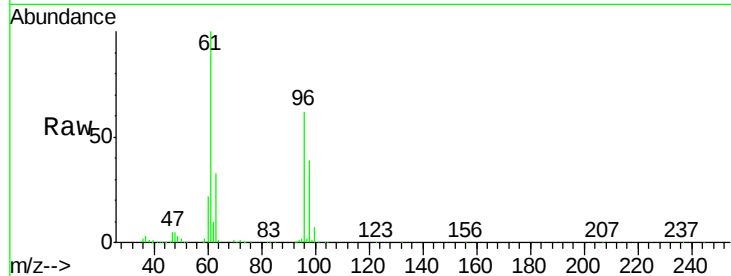




#31

cis-1,2-Dichloroethene  
 Concen: 8.748 ppbv  
 RT: 5.64 min Scan# 842  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

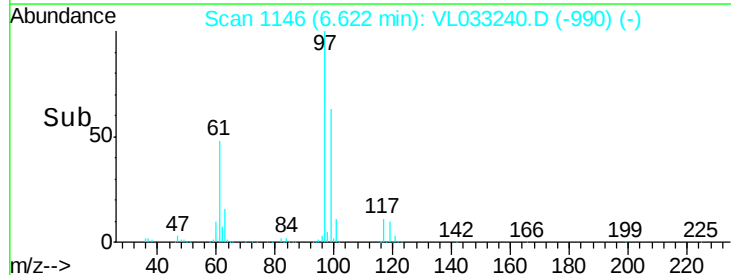
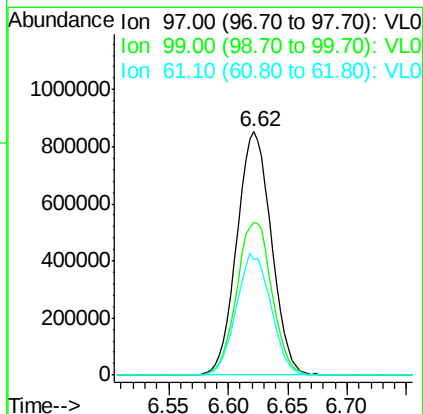
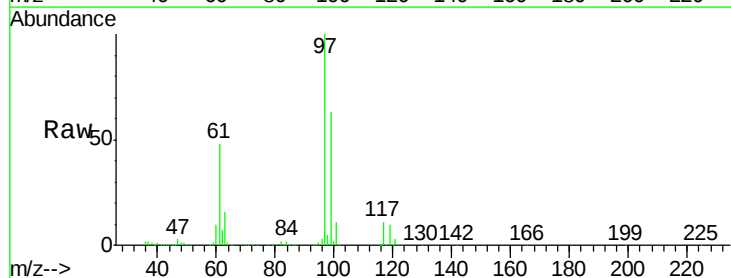
Tot Ion: 61 Resp: 1121841  
 Ion Ratio Lower Upper  
 61 100  
 96 61.7 49.4 74.0  
 98 39.0 31.2 46.8

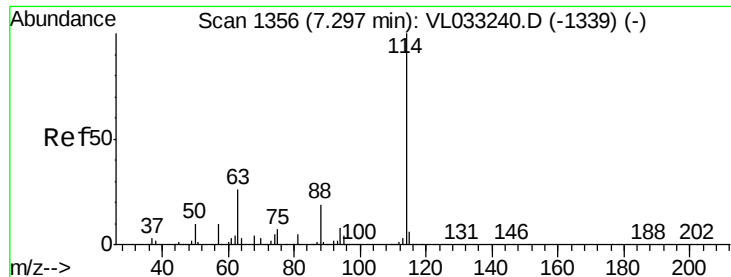


#32

1,1,1-Trichloroethane  
 Concen: 7.890 ppbv  
 RT: 6.62 min Scan# 1146  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tgt Ion: 97 Resp: 1714651  
 Ion Ratio Lower Upper  
 97 100  
 99 64.2 51.4 77.0  
 61 50.1 40.1 60.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

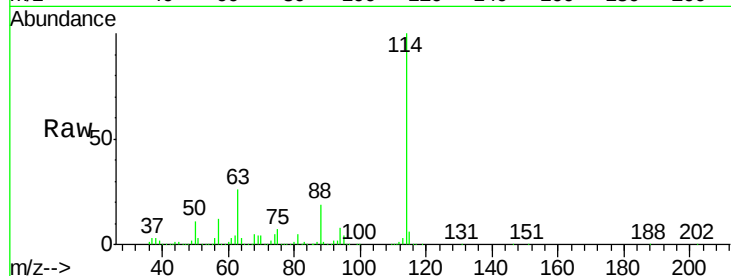
Tot Ion:114 Resp: 2456702

Ion Ratio Lower Upper

114 100

63 27.6 22.0 33.0

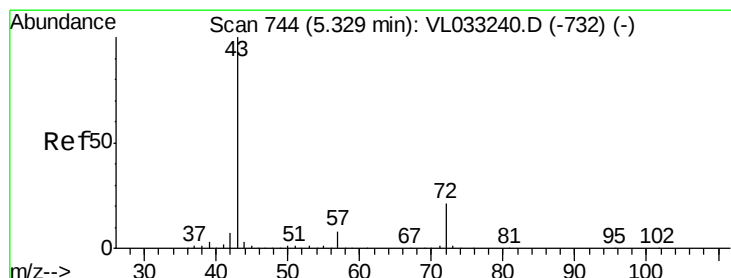
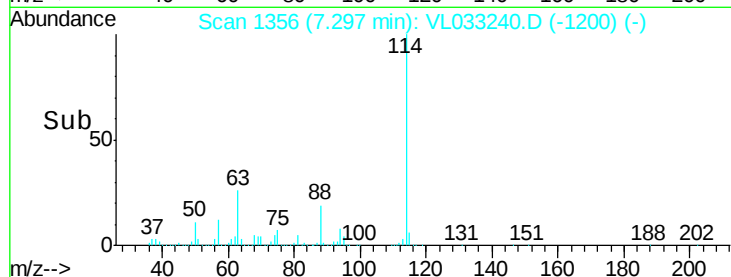
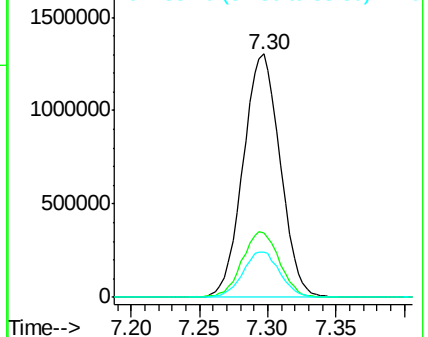
88 18.7 15.0 22.4



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: 9.731 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033240.D

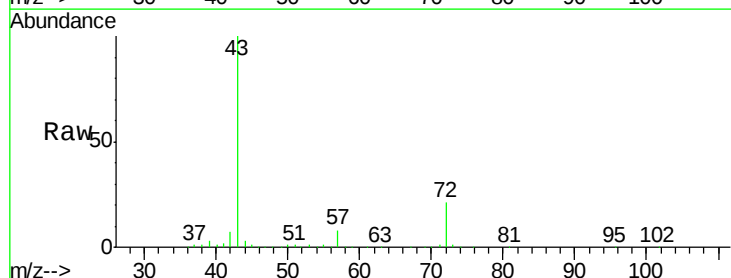
Acq: 6 Mar 2019 1:58

Tgt Ion: 43 Resp: 1570608

Ion Ratio Lower Upper

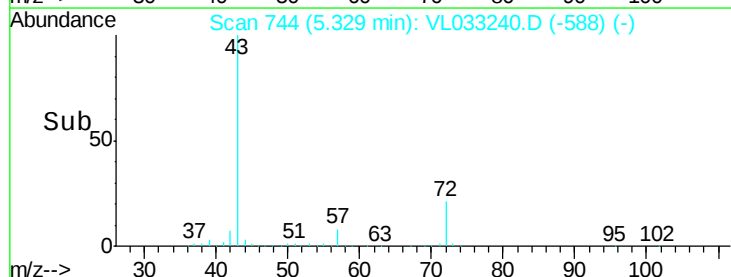
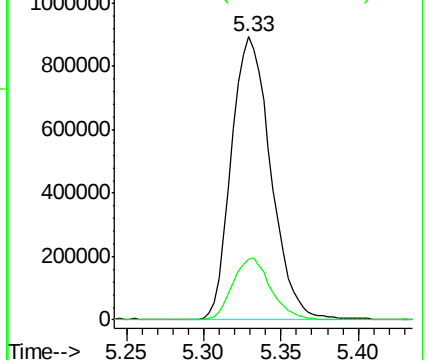
43 100

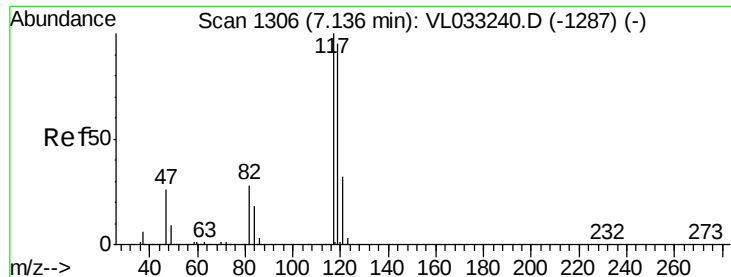
72 21.5 17.1 25.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.121 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

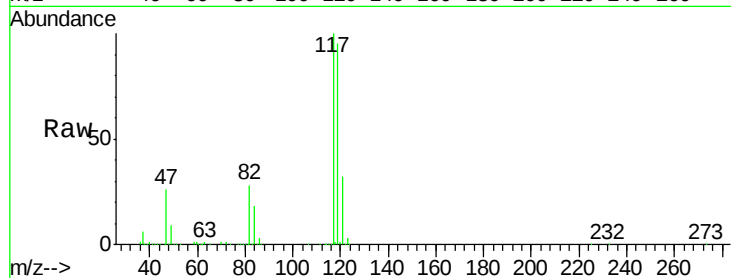
Tot Ion:117 Resp: 1727791

Ion Ratio Lower Upper

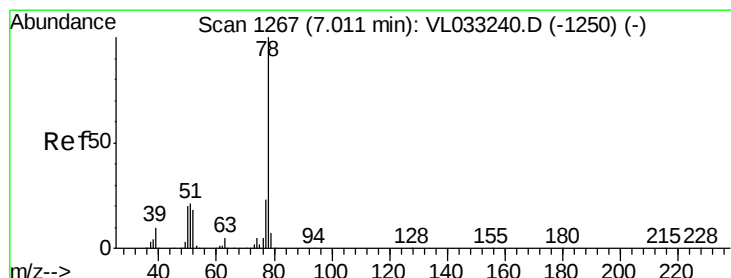
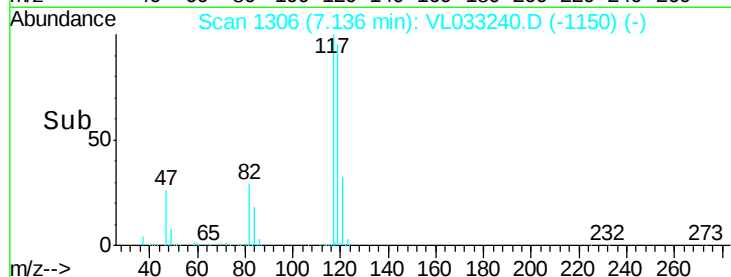
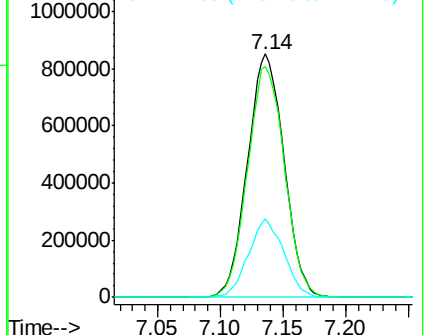
117 100

119 94.7 75.8 113.6

121 32.0 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.565 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

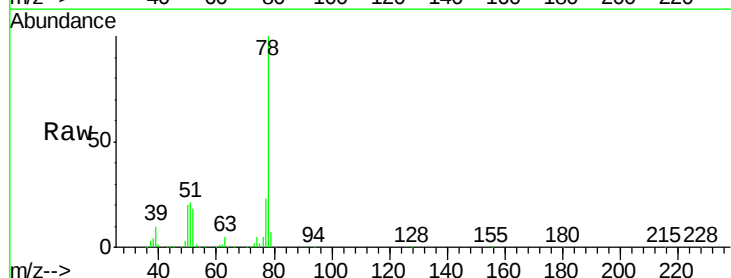
Tgt Ion: 78 Resp: 2174950

Ion Ratio Lower Upper

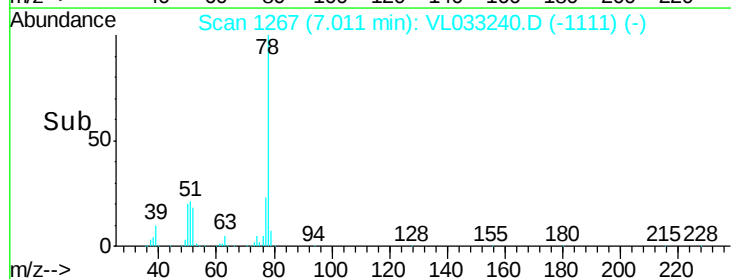
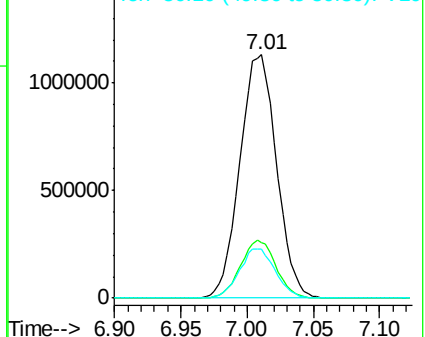
78 100

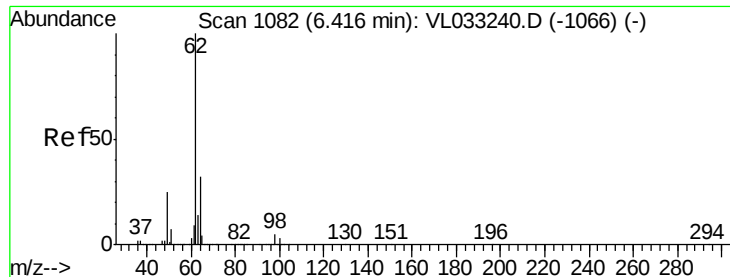
77 22.5 18.0 27.0

50 20.3 16.2 24.4



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.307 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VL033240.D

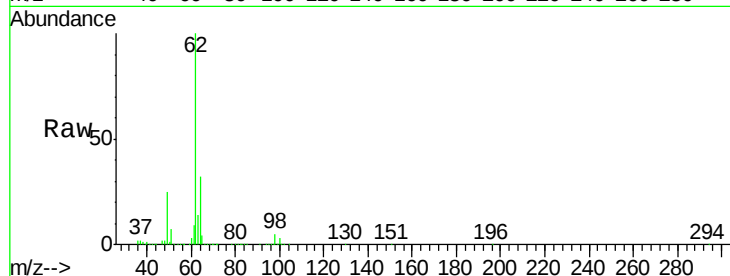
Acq: 6 Mar 2019 1:58

Tot Ion: 62 Resp: 1339729

Ion Ratio Lower Upper

62 100

98 5.6 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.42

800000

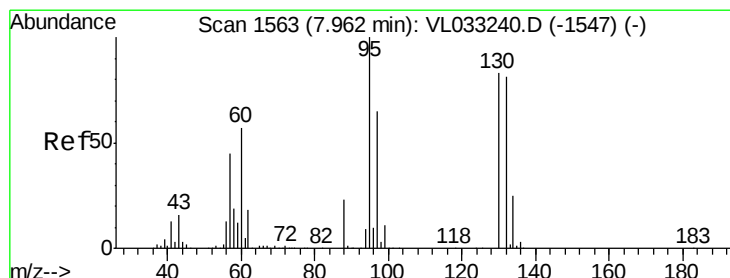
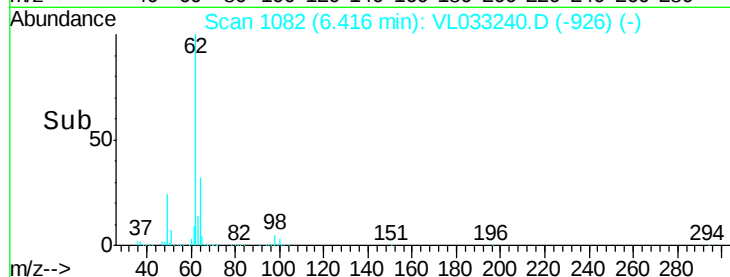
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 7.634 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tgt Ion: 130 Resp: 817216

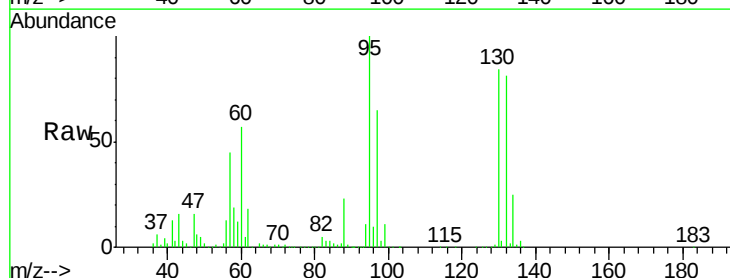
Ion Ratio Lower Upper

130 100

95 119.6 95.7 143.5

132 96.8 77.4 116.2

97 78.1 62.5 93.7



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

7.96

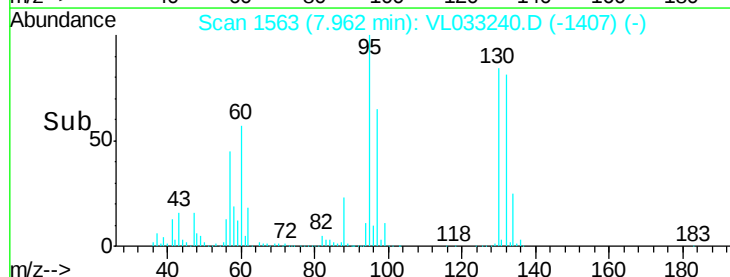
600000

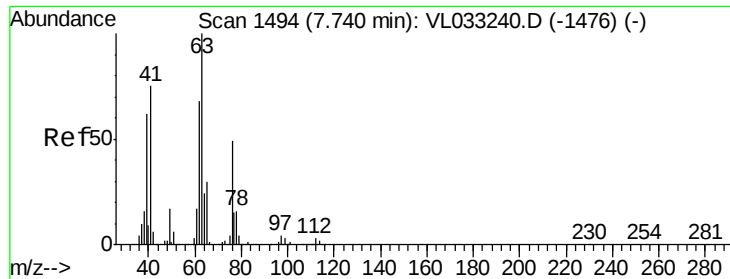
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 8.557 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

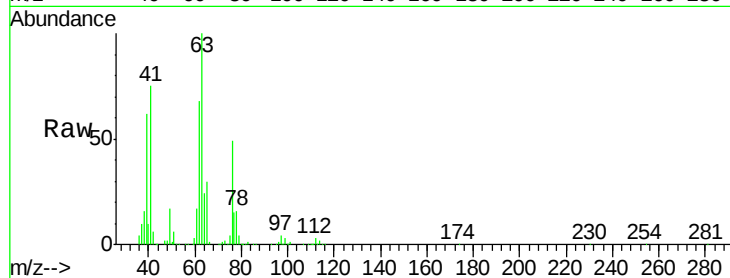
Tot Ion: 63 Resp: 843514

Ion Ratio Lower Upper

63 100

41 75.0 60.0 90.0

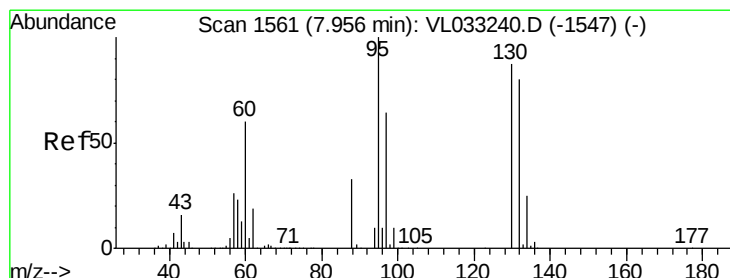
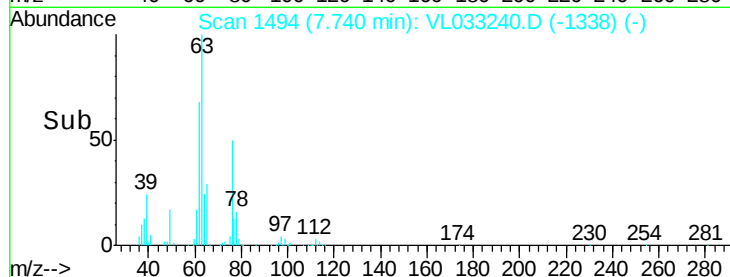
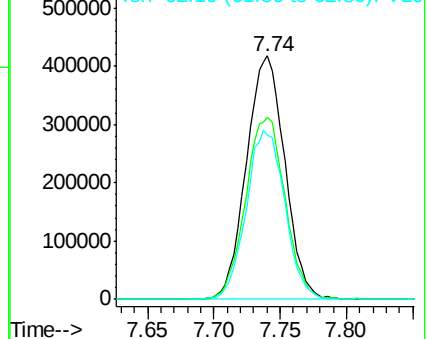
62 67.8 54.2 81.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.845 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tgt Ion: 88 Resp: 315238

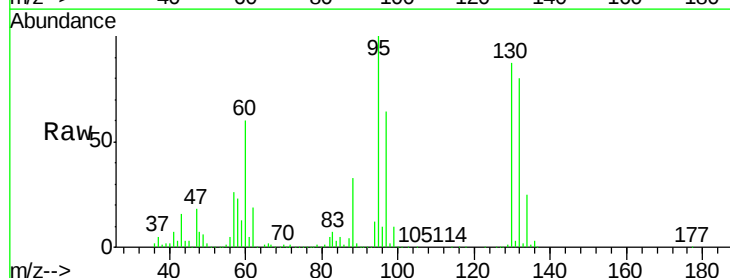
Ion Ratio Lower Upper

88 100

58 131.8 105.1 157.7

43 0.0 0.0 0.0

57 0.0 0.0 0.0

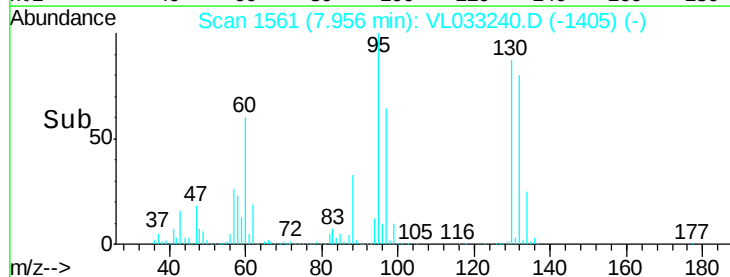
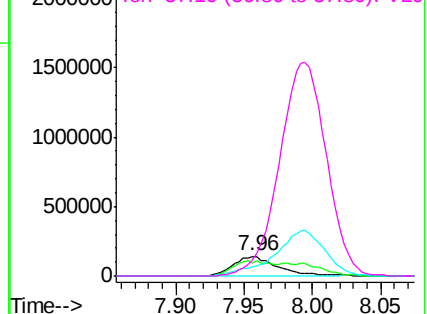


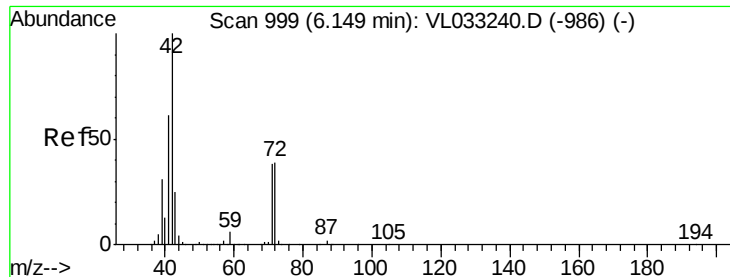
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 9.188 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

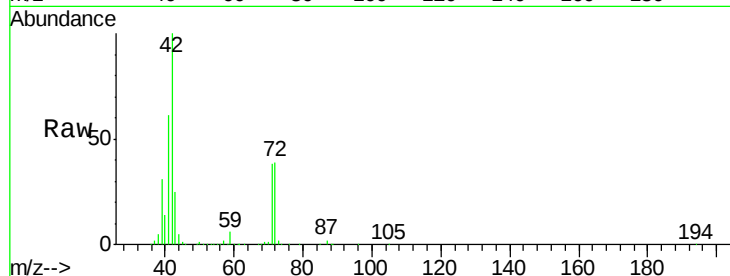
Tot Ion: 42 Resp: 911739

Ion Ratio Lower Upper

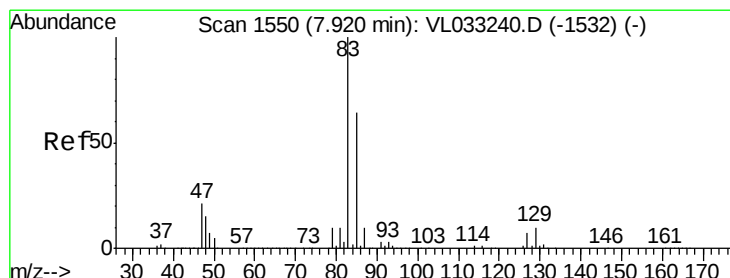
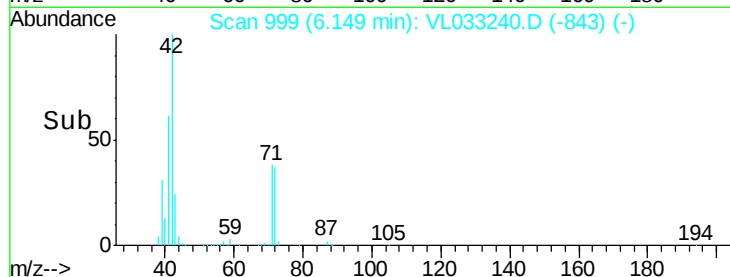
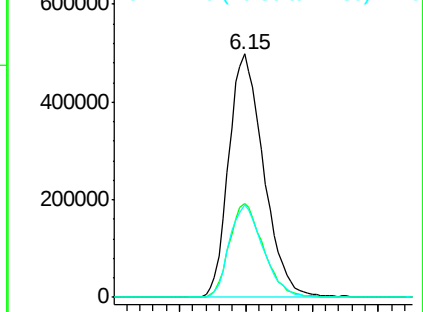
42 100

72 37.8 30.2 45.4

71 37.0 29.6 44.4



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.305 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

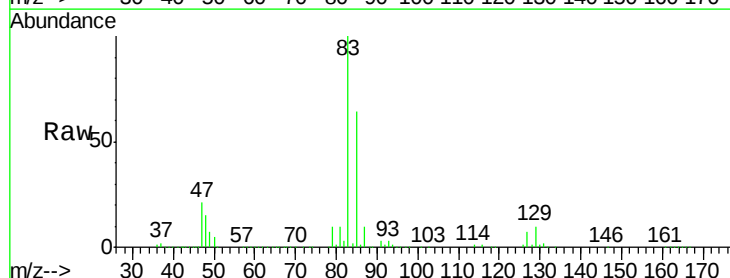
Tgt Ion: 83 Resp: 1888633

Ion Ratio Lower Upper

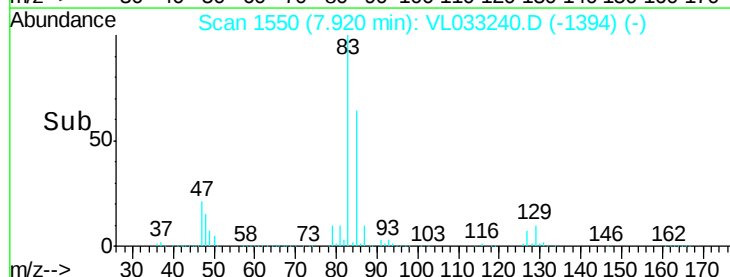
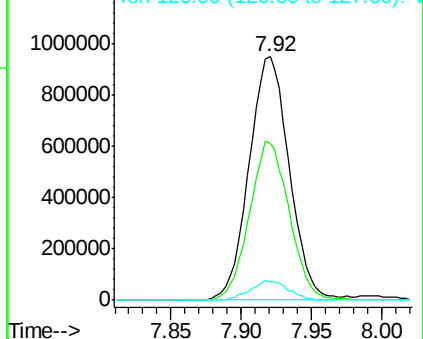
83 100

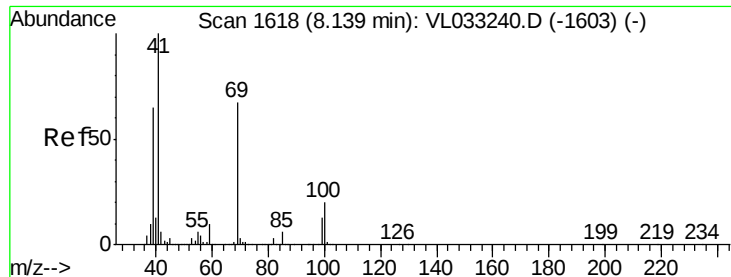
85 64.4 51.5 77.3

127 7.4 5.9 8.9



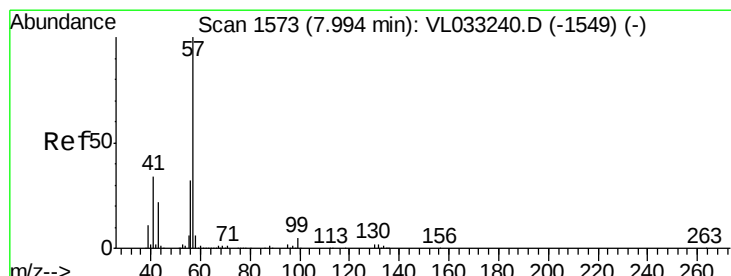
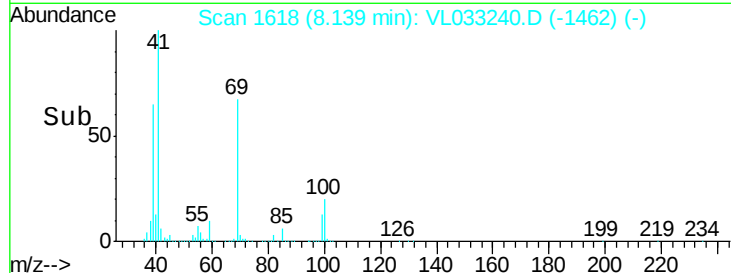
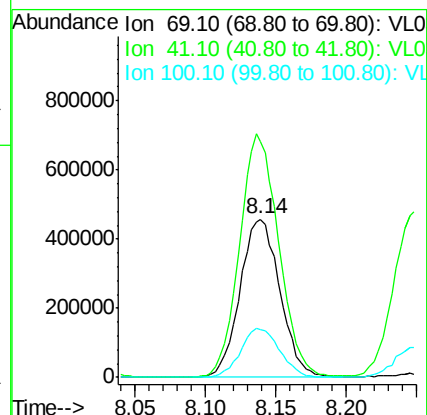
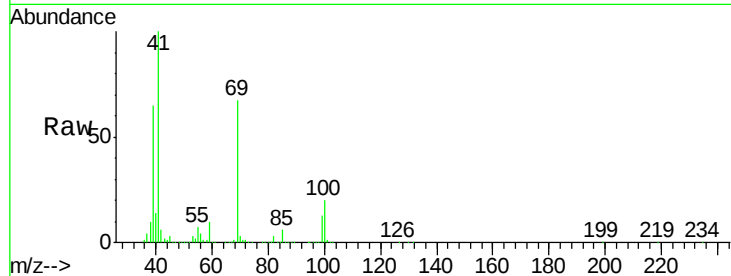
Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V





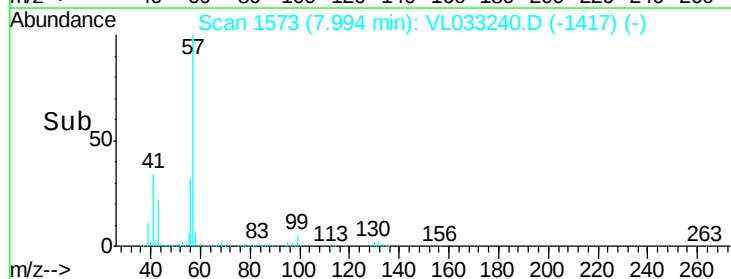
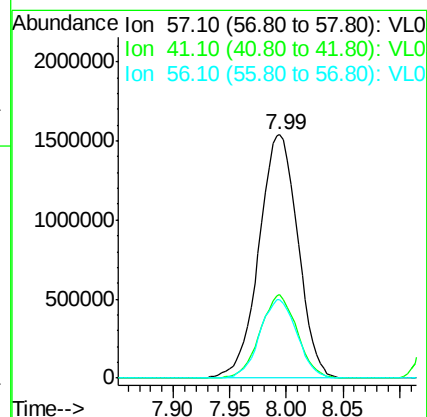
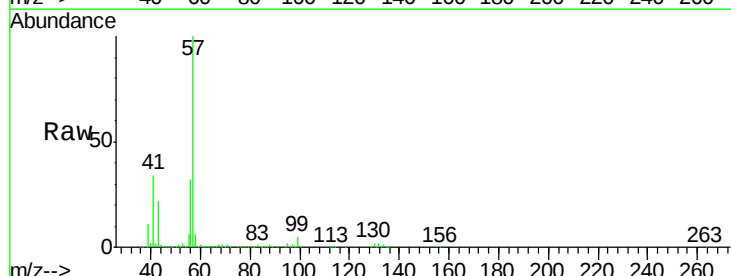
#43  
Methvl Methacrvalate  
Concen: 9.003 ppbv  
RT: 8.14 min Scan# 1618  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

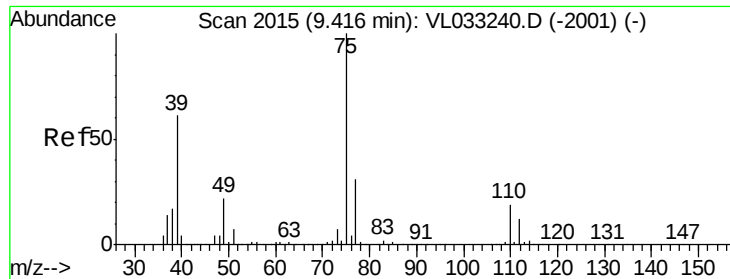
Tot Ion: 69 Resp: 904771  
Ion Ratio Lower Upper  
69 100  
41 151.1 120.9 181.3  
100 30.5 24.4 36.6



#44  
2,2,4-Trimethylpentane  
Concen: 8.627 ppbv  
RT: 7.99 min Scan# 1573  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion: 57 Resp: 3678202  
Ion Ratio Lower Upper  
57 100  
41 32.6 26.1 39.1  
56 30.9 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.859 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL033240.D

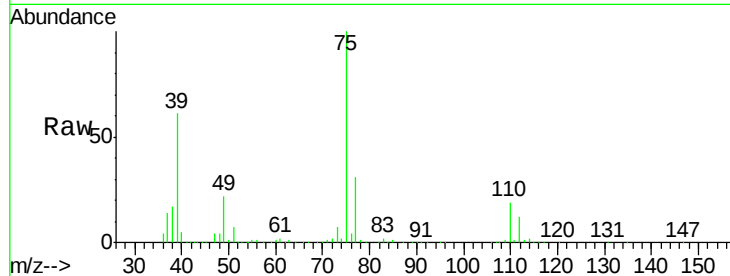
Acq: 6 Mar 2019 1:58

Tot Ion: 75 Resp: 1214889

Ion Ratio Lower Upper

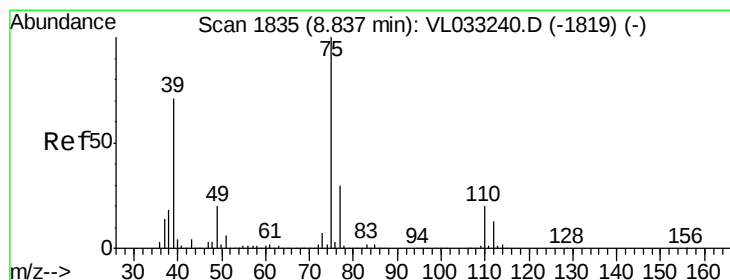
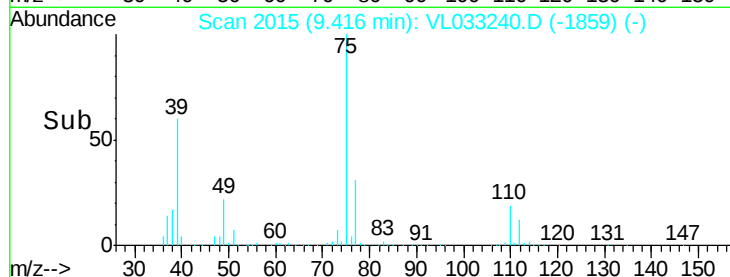
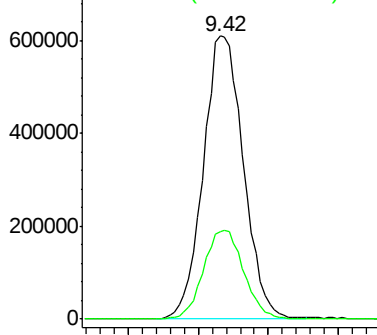
75 100

77 30.9 24.7 37.1



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.662 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

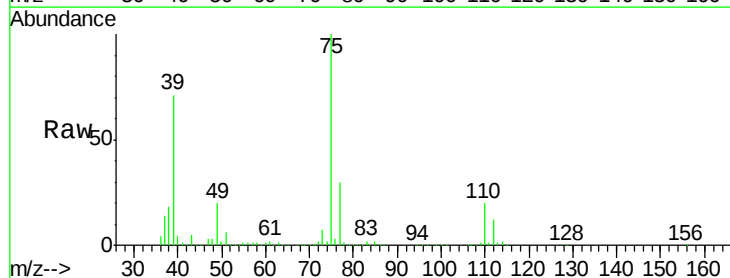
Tgt Ion: 75 Resp: 1376462

Ion Ratio Lower Upper

75 100

39 71.3 57.0 85.6

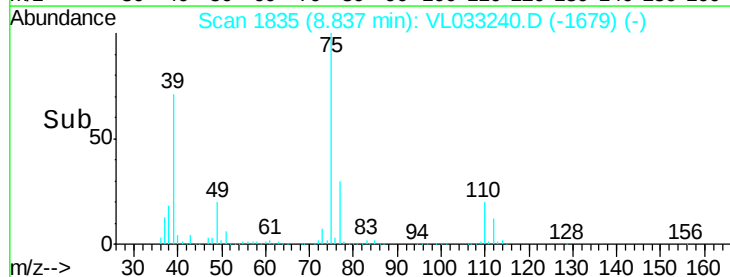
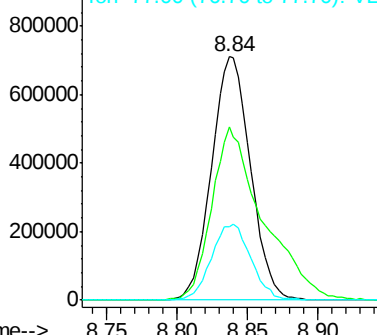
77 30.0 24.0 36.0

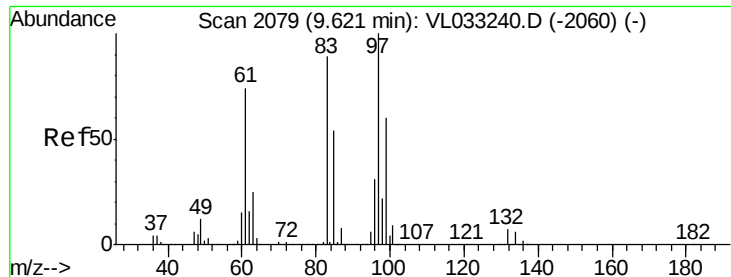


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

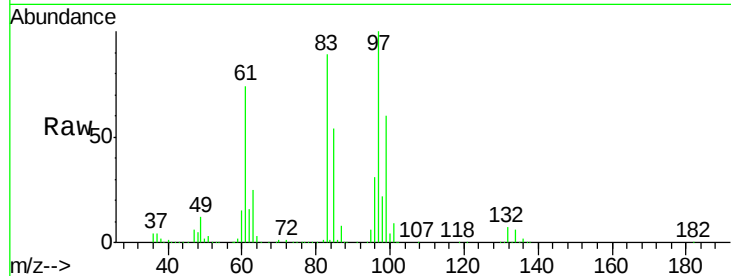




#47  
 1,1,2-Trichloroethane  
 Concen: 8.743 ppbv  
 RT: 9.62 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tot Ion: 97 Resp: 896484

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.9  | 71.1  | 106.7 |
| 85  | 53.6  | 42.9  | 64.3  |
| 99  | 60.3  | 48.2  | 72.4  |



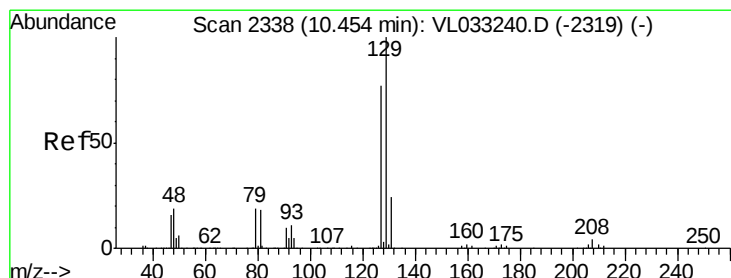
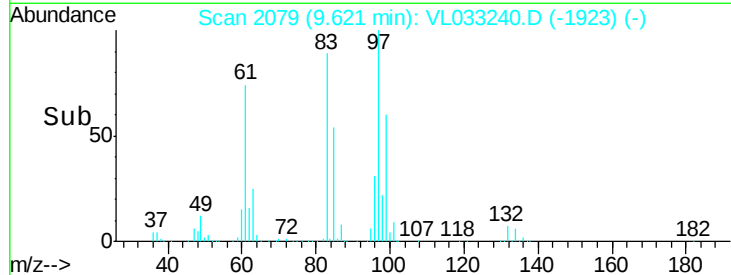
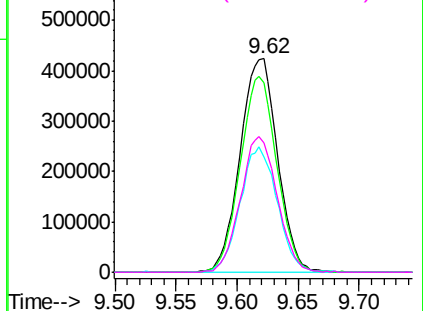
Abundance

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

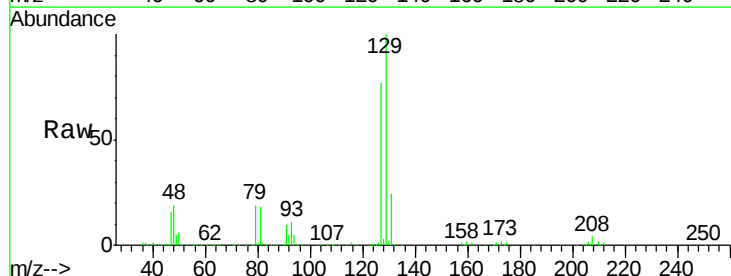
Ion 99.00 (98.70 to 99.70): VL0



#48  
 Dibromochloromethane  
 Concen: 9.543 ppbv  
 RT: 10.45 min Scan# 2338  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tgt Ion: 129 Resp: 1547330

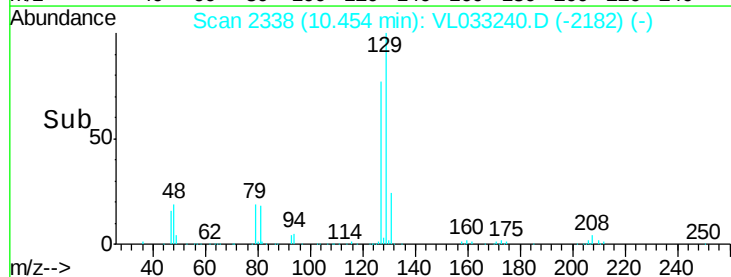
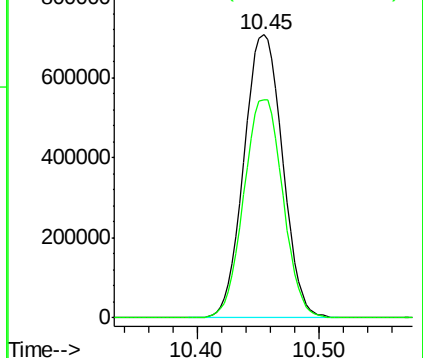
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.0  | 39.0  | 117.0 |

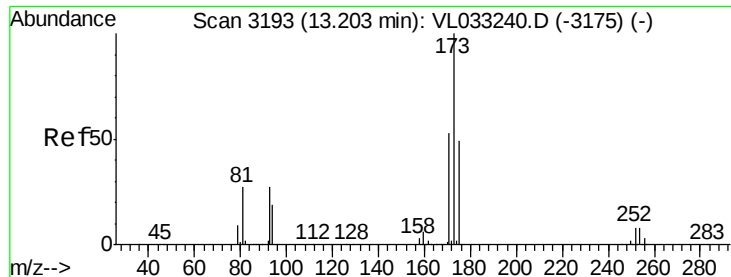


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.285 ppbv

RT: 13.20 min Scan# 3193

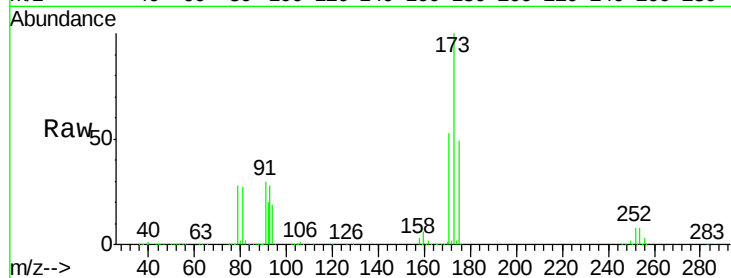
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tot Ion:173 Resp: 1281181

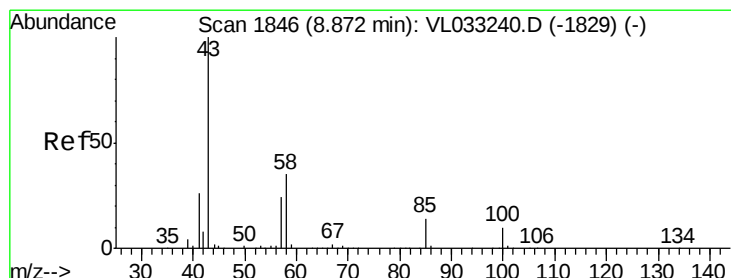
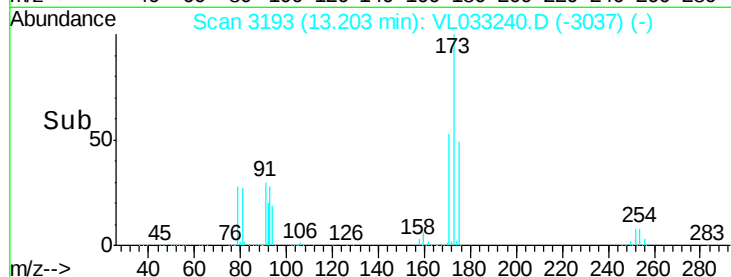
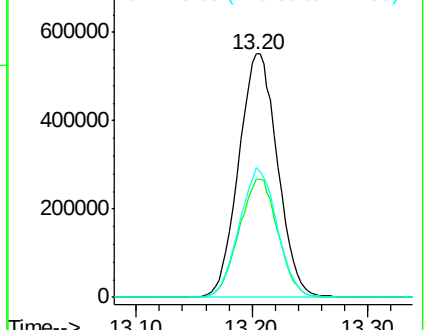
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 48.8  | 38.9  | 58.3  |
| 171 | 51.8  | 41.4  | 62.0  |



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.194 ppbv

RT: 8.87 min Scan# 1846

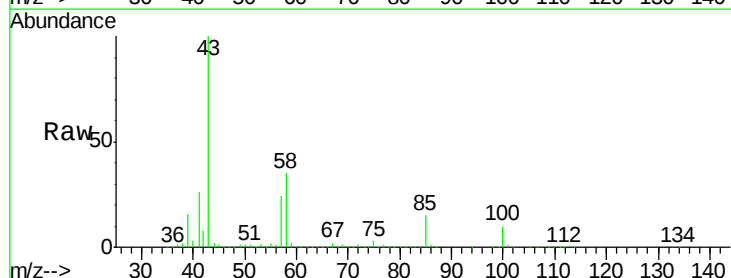
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

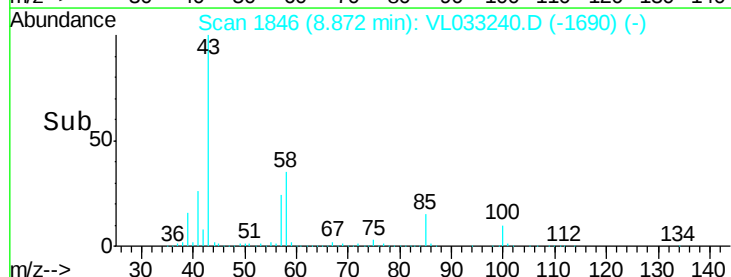
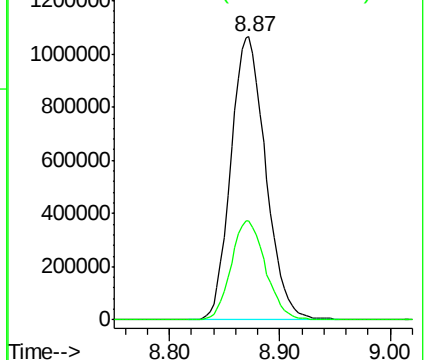
Tgt Ion: 43 Resp: 2330628

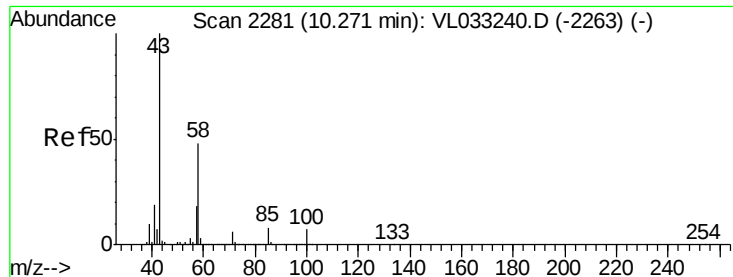
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 34.7  | 27.8  | 41.6  |



Abundance Ion 43.10 (42.80 to 43.80): VL0

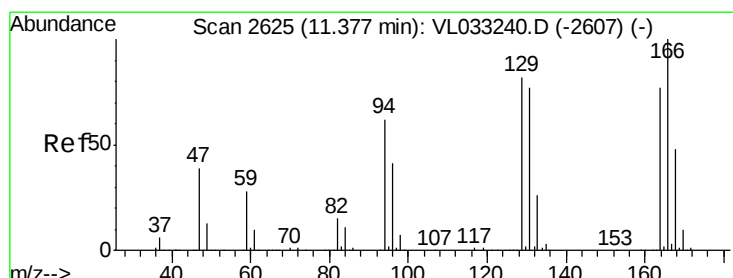
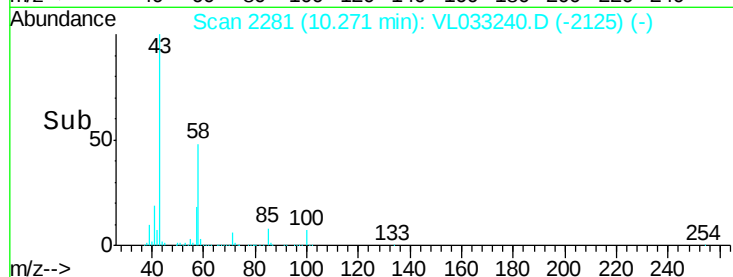
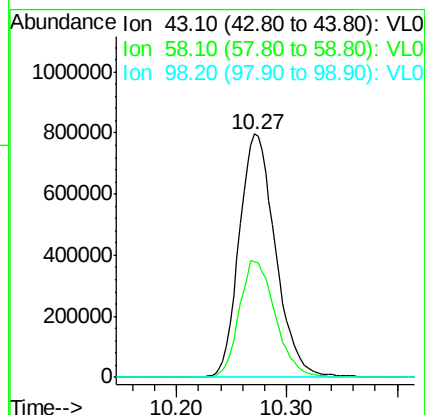
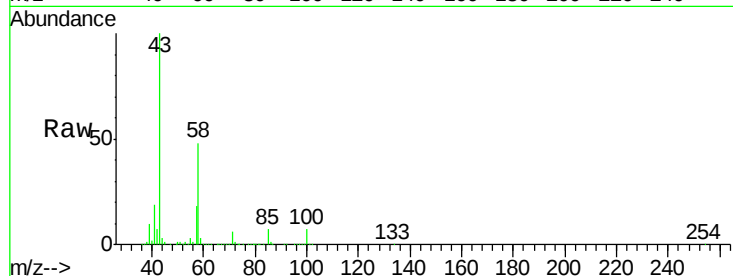
Ion 58.10 (57.80 to 58.80): VL0





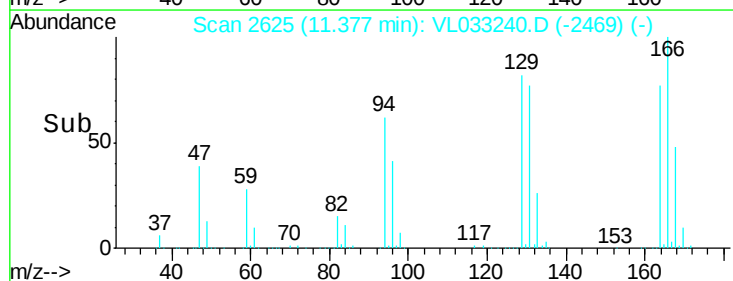
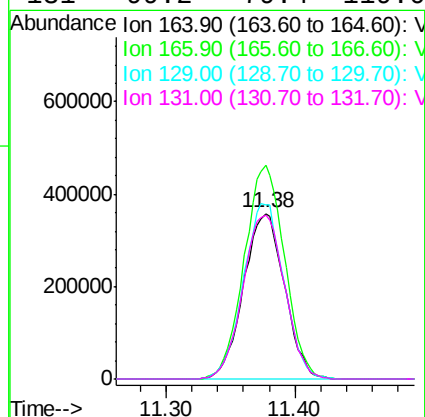
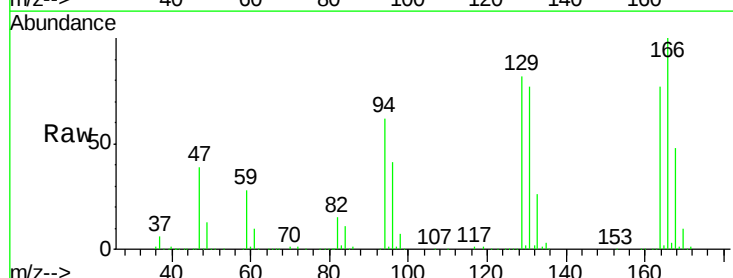
#51  
2-Hexanone  
Concen: 9.147 ppbv  
RT: 10.27 min Scan# 2281  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

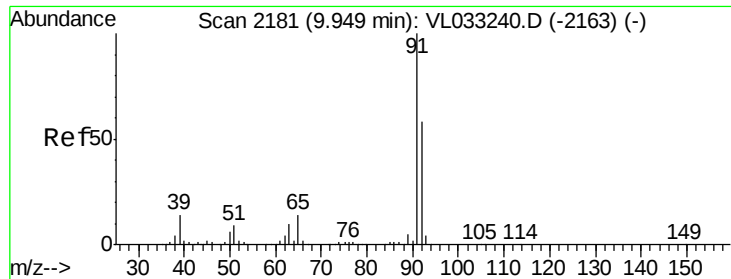
Tot Ion: 43 Resp: 1813789  
Ion Ratio Lower Upper  
43 100  
58 47.9 38.2 57.2  
98 0.3 0.2 0.4



#52  
Tetrachloroethene  
Concen: 8.211 ppbv  
RT: 11.38 min Scan# 2625  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion: 164 Resp: 789457  
Ion Ratio Lower Upper  
164 100  
166 129.1 103.3 154.9  
129 105.5 84.4 126.6  
131 99.2 79.4 119.0





#53

Toluene

Concen: 8.698 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033240.D

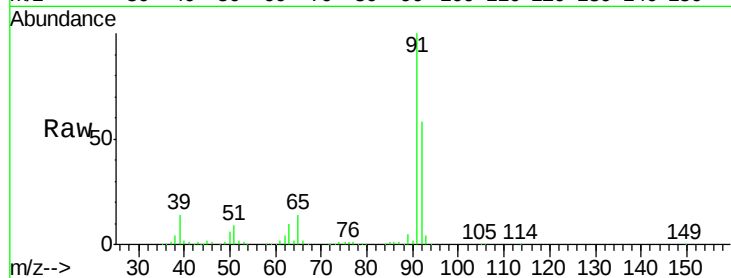
Acq: 6 Mar 2019 1:58

Tot Ion: 91 Resp: 2572350

Ion Ratio Lower Upper

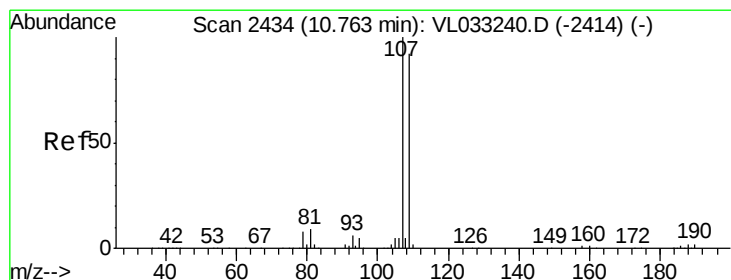
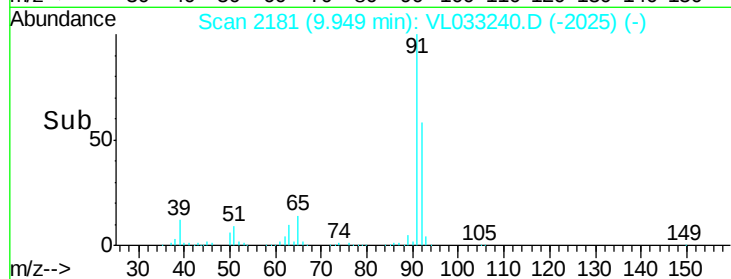
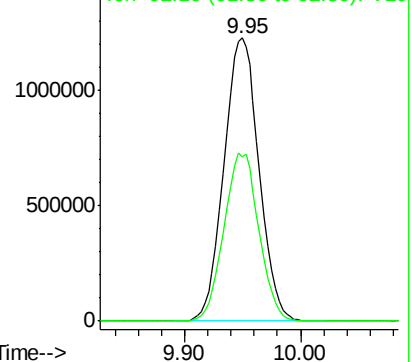
91 100

92 59.3 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 8.649 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033240.D

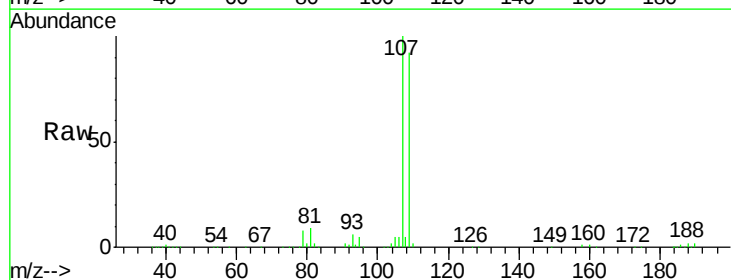
Acq: 6 Mar 2019 1:58

Tgt Ion: 107 Resp: 1385463

Ion Ratio Lower Upper

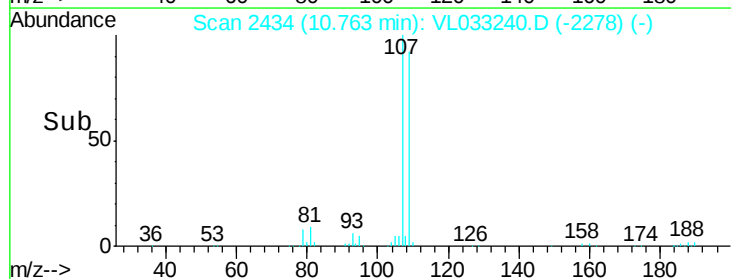
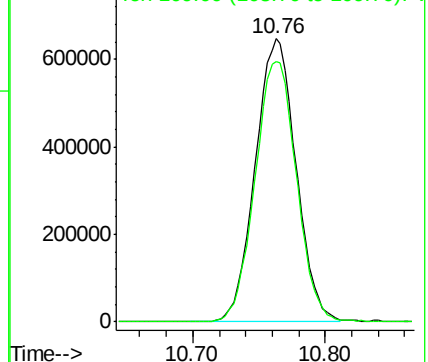
107 100

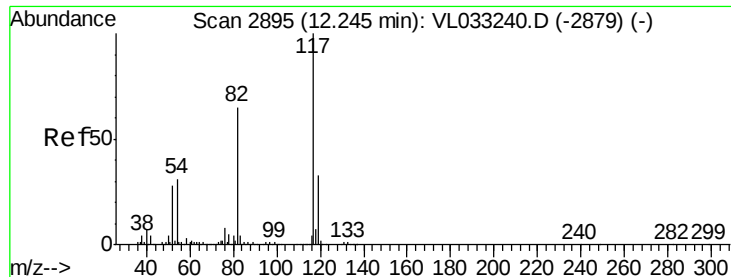
109 92.0 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

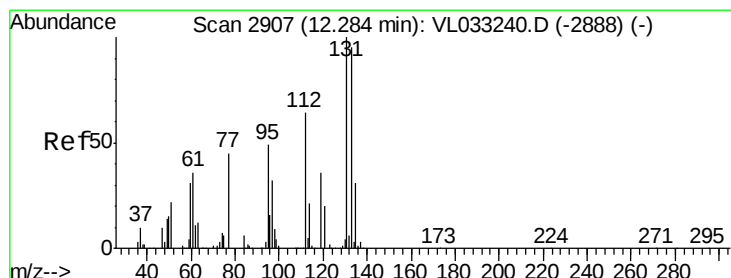
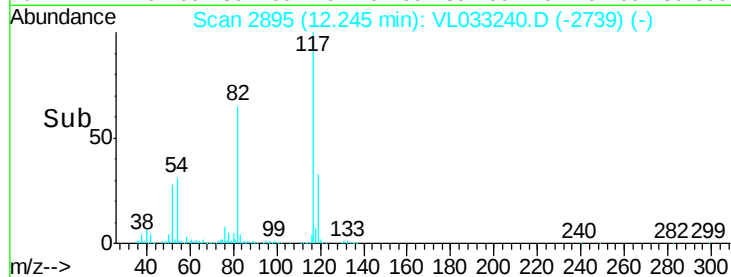
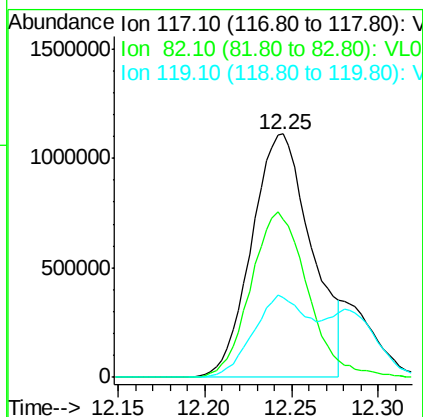
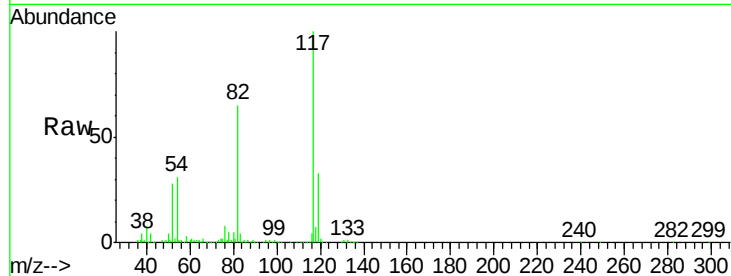




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.25 min Scan# 2895  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tot Ion:117 Resp: 2679811

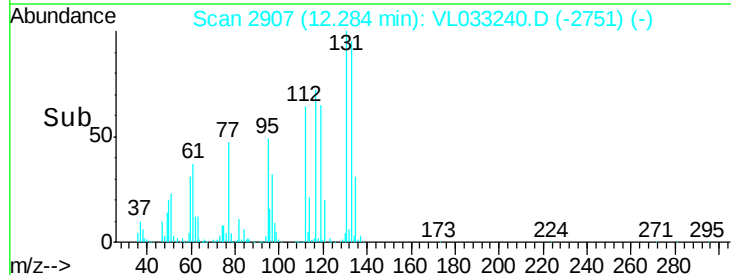
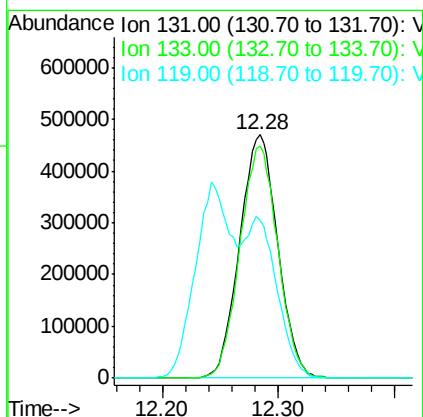
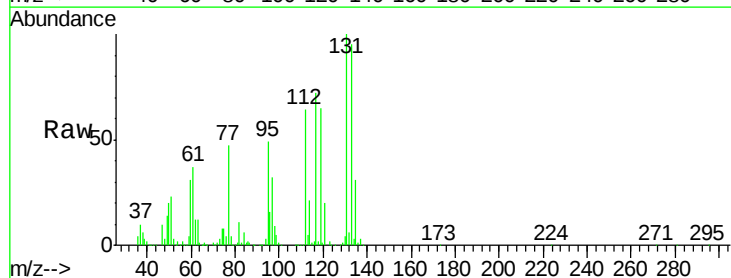
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 64.8  | 51.8  | 77.8  |
| 119 | 32.5  | 43.6  | 65.4# |

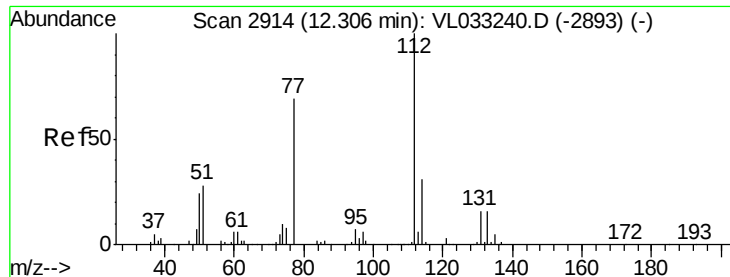


#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.676 ppbv  
RT: 12.28 min Scan# 2907  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion:131 Resp: 1072515

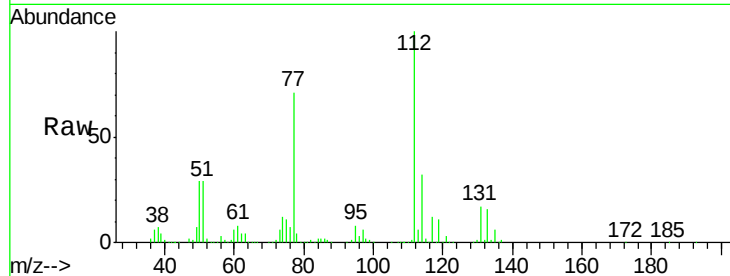
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 131 | 100   |       |        |
| 133 | 95.2  | 76.2  | 114.2  |
| 119 | 54.9  | 108.9 | 163.3# |



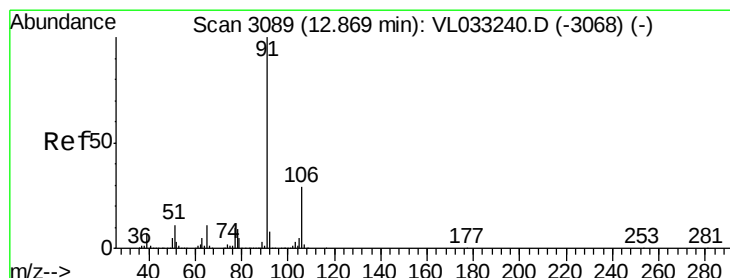
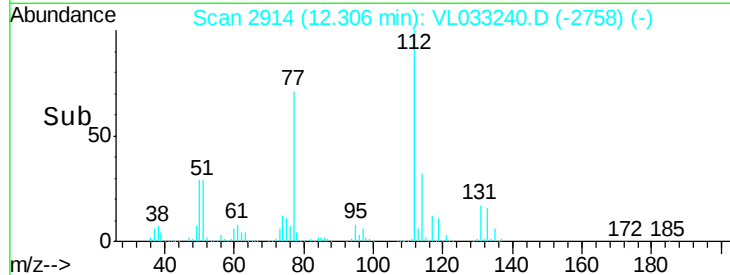
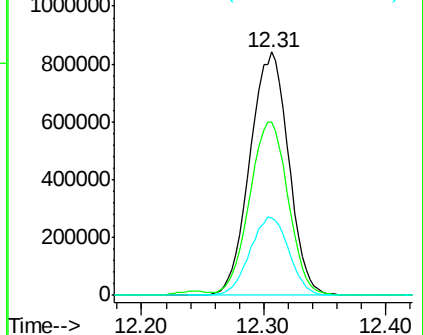


#57  
Chlorobenzene  
Concen: 7.888 ppbv  
RT: 12.31 min Scan# 2914  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tot Ion: 112 Resp: 1842191  
Ion Ratio Lower Upper  
112 100  
77 70.6 56.5 84.7  
114 31.5 28.4 34.7

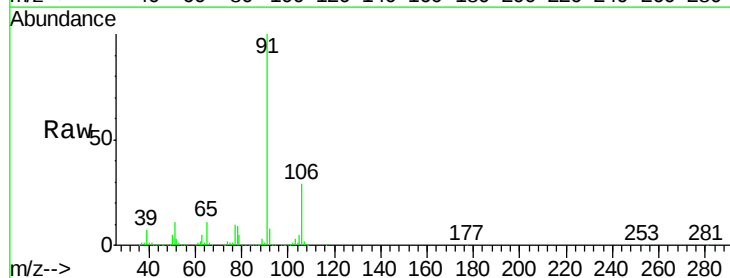


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

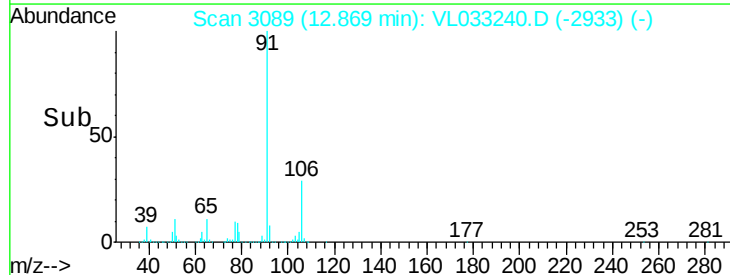
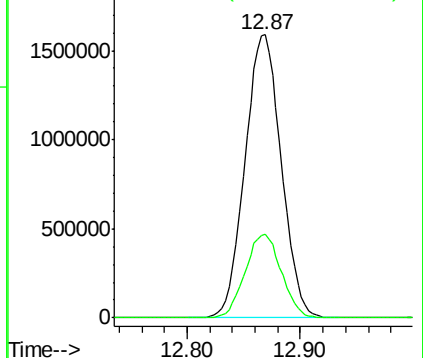


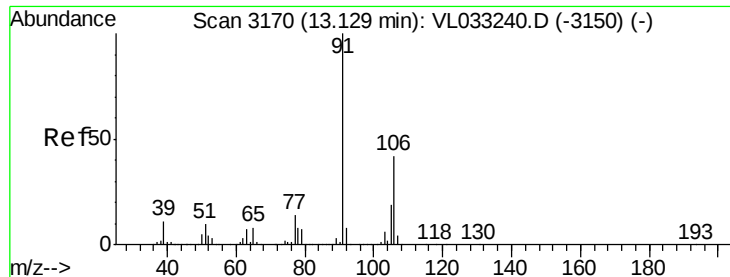
#58  
Ethyl Benzene  
Concen: 8.152 ppbv  
RT: 12.87 min Scan# 3089  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion: 91 Resp: 3534127  
Ion Ratio Lower Upper  
91 100  
106 29.4 23.5 35.3



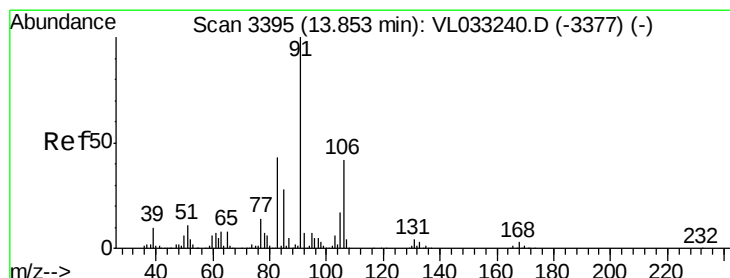
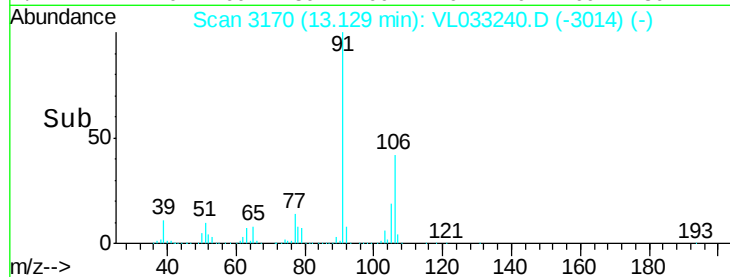
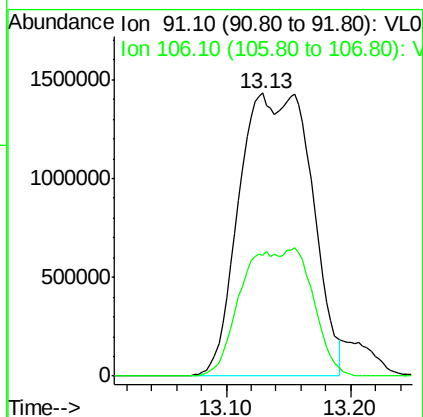
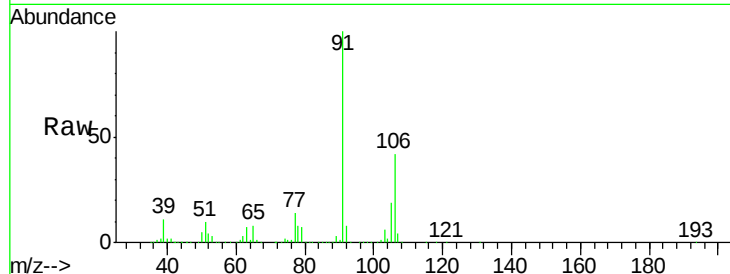
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





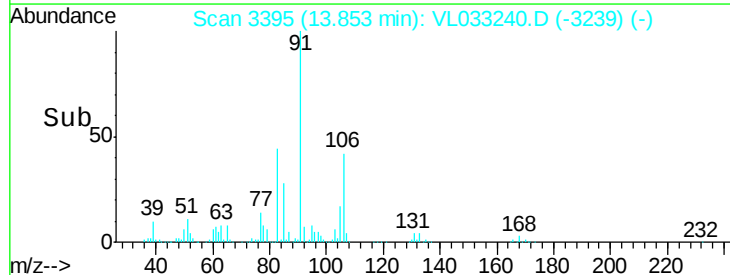
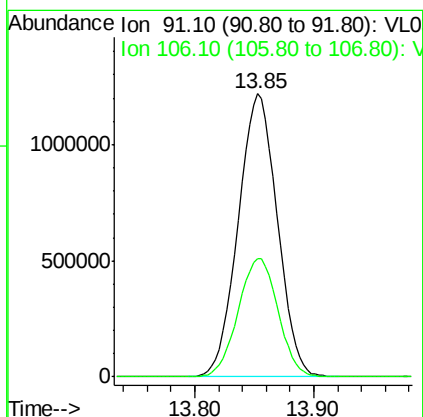
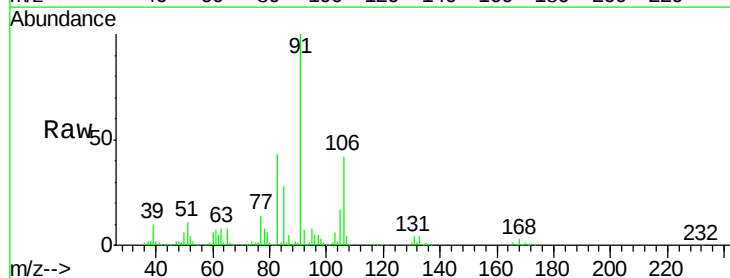
#59  
m/p-Xylene  
Concen: 15.925 ppbv m  
RT: 13.13 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

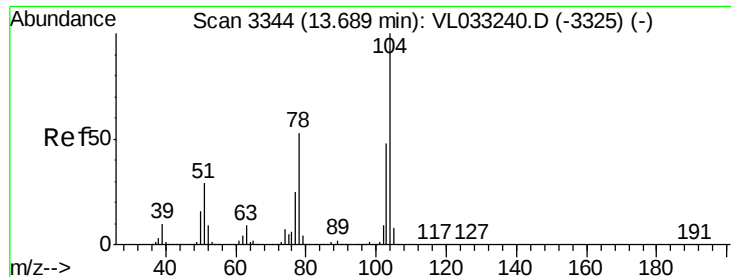
Tot Ion: 91 Resp: 5757754  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.6 53.4#



#60  
o-Xylene  
Concen: 7.869 ppbv  
RT: 13.85 min Scan# 3395  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

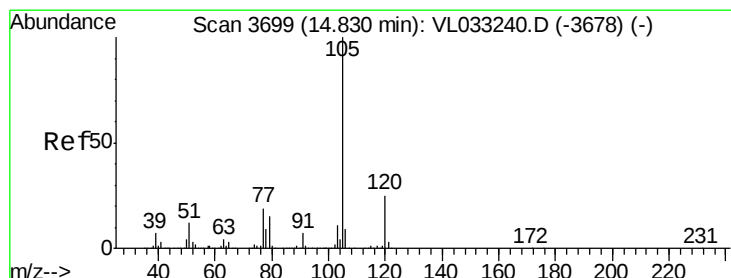
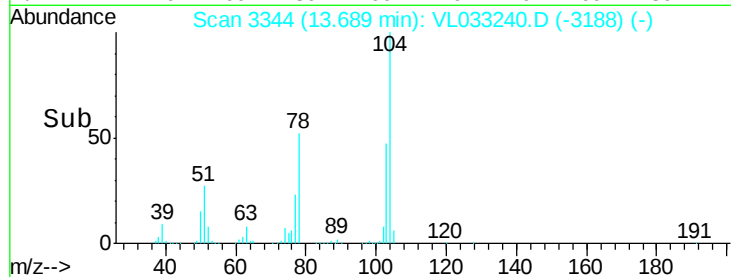
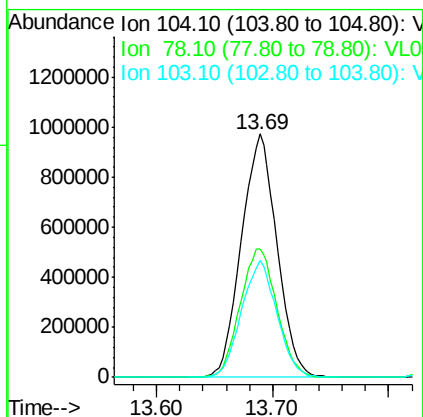
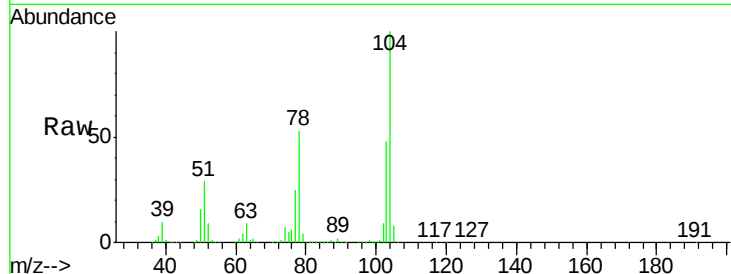
Tgt Ion: 91 Resp: 2770464  
Ion Ratio Lower Upper  
91 100  
106 42.8 21.4 64.3





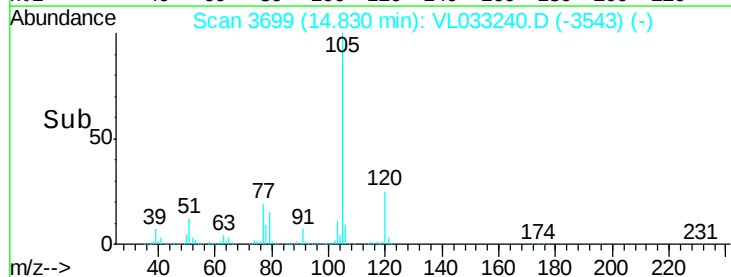
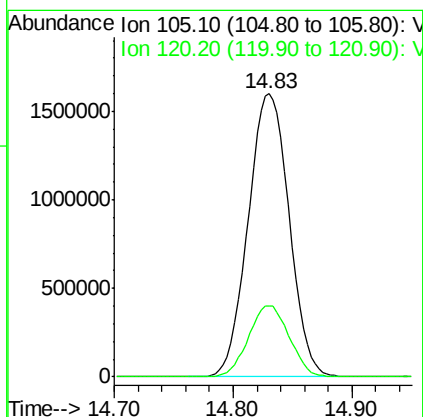
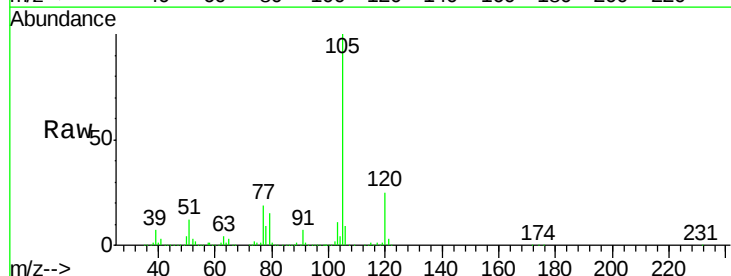
#61  
Stvrene  
Concen: 7.908 ppbv  
RT: 13.69 min Scan# 3344  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

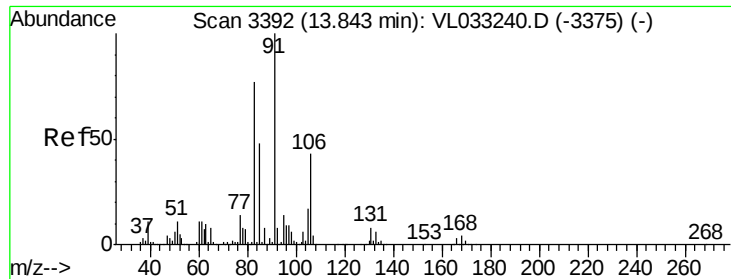
Tot Ion:104 Resp: 2078213  
Ion Ratio Lower Upper  
104 100  
78 54.6 43.7 65.5  
103 47.8 38.2 57.2



#62  
Isopropylbenzene  
Concen: 7.741 ppbv  
RT: 14.83 min Scan# 3699  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

Tgt Ion:105 Resp: 3816774  
Ion Ratio Lower Upper  
105 100  
120 25.1 20.1 30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 6.454 ppbv

RT: 13.84 min Scan# 3392

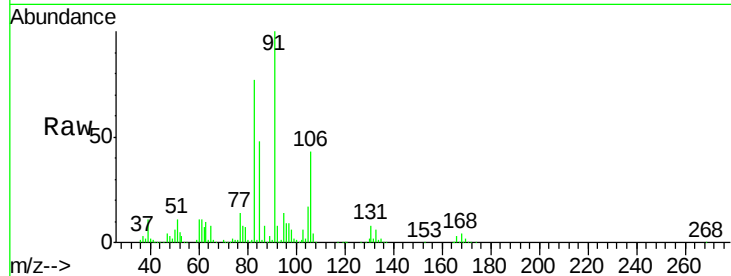
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tot Ion: 83 Resp: 1769748

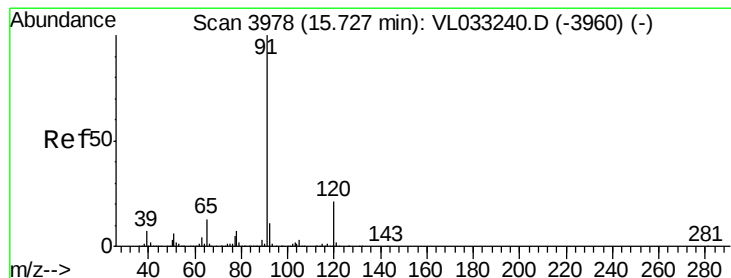
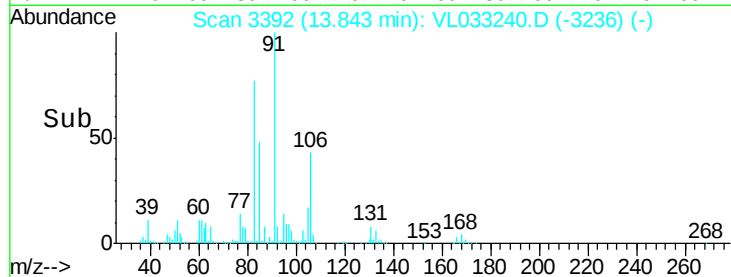
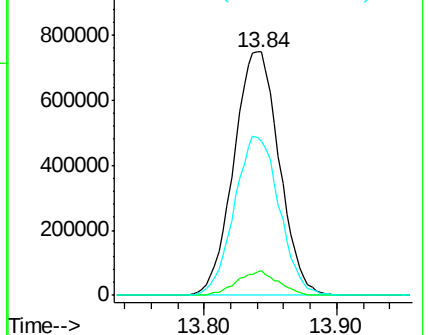
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 9.3   | 4.7   | 14.0  |
| 85  | 65.1  | 32.6  | 97.8  |



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.665 ppbv

RT: 15.73 min Scan# 3978

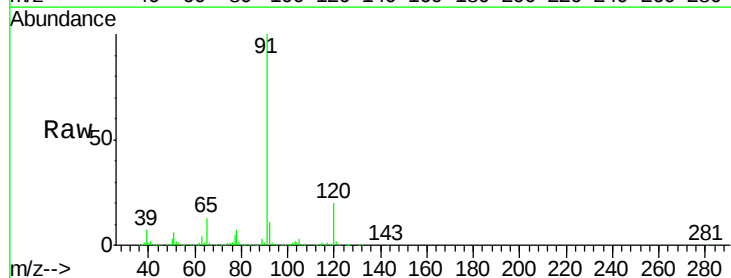
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

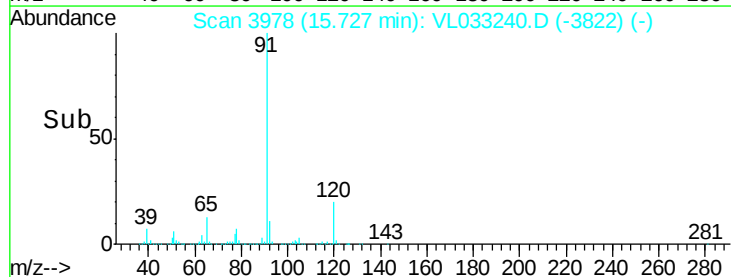
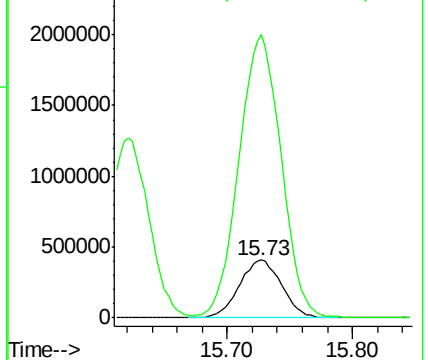
Tgt Ion: 120 Resp: 955806

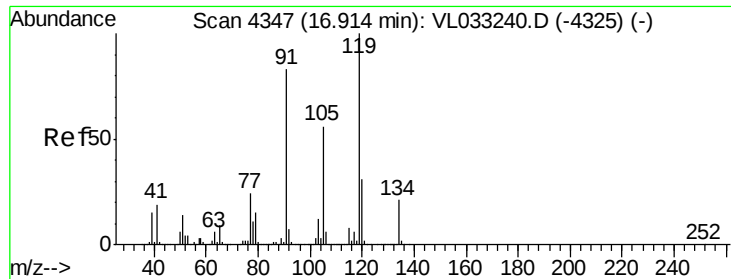
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 490.1 | 392.2 | 588.4 |



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.566 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

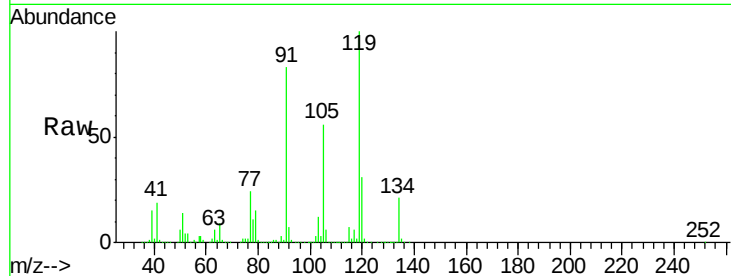
Tot Ion: 119 Resp: 3240512

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 83.7  | 67.0  | 100.4 |
| 134 | 19.3  | 15.4  | 23.2  |

119 100

91 83.7 67.0 100.4

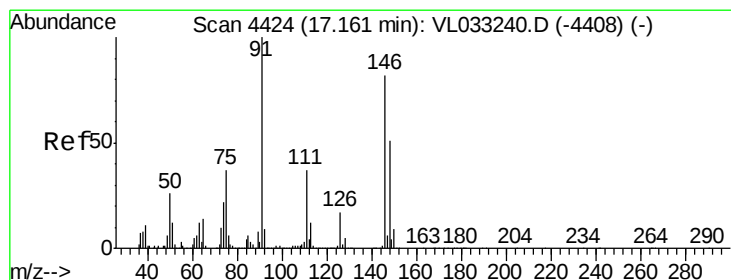
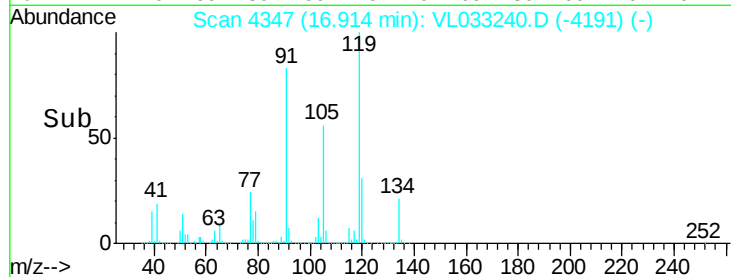
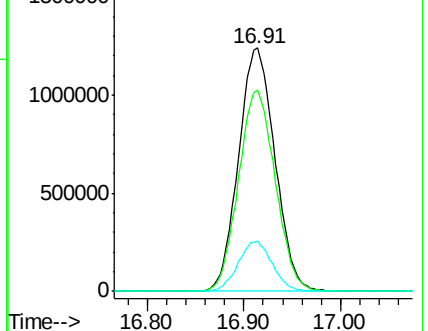
134 19.3 15.4 23.2



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.927 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

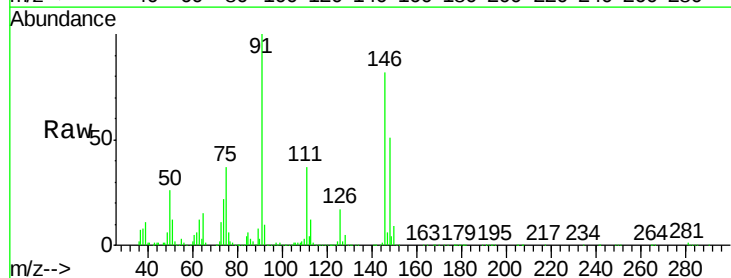
Tgt Ion: 91 Resp: 1640091

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 16.7  | 13.4  | 20.0  |
| 128 | 5.2   | 4.2   | 6.2   |

91 100

126 16.7 13.4 20.0

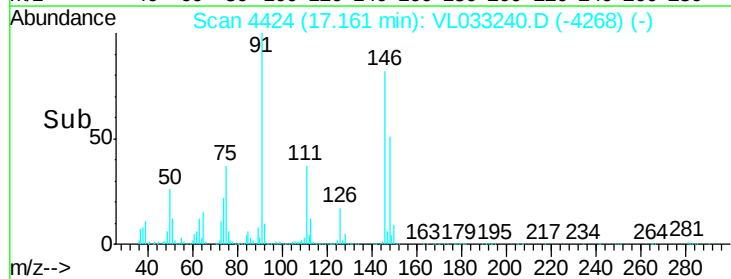
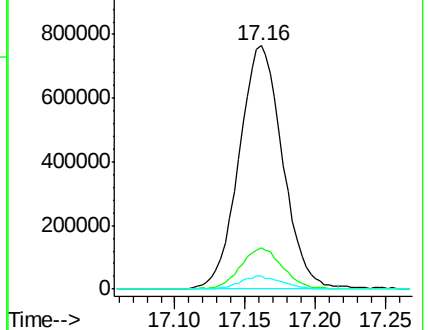
128 5.2 4.2 6.2

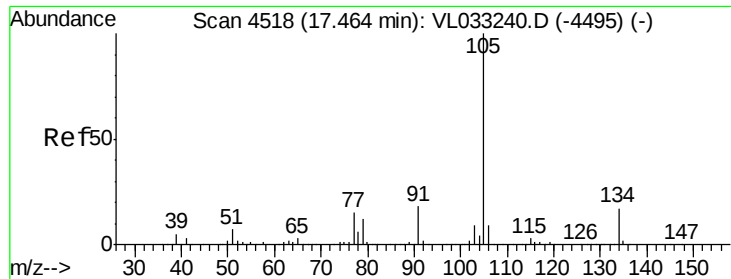


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.468 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033240.D

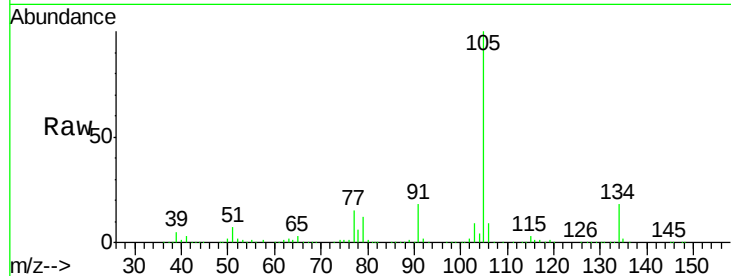
Acq: 6 Mar 2019 1:58

Tot Ion:105 Resp: 4635448

Ion Ratio Lower Upper

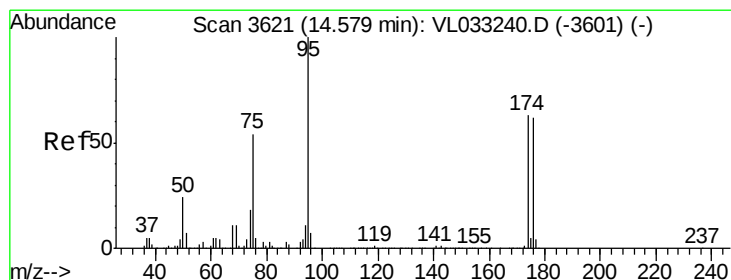
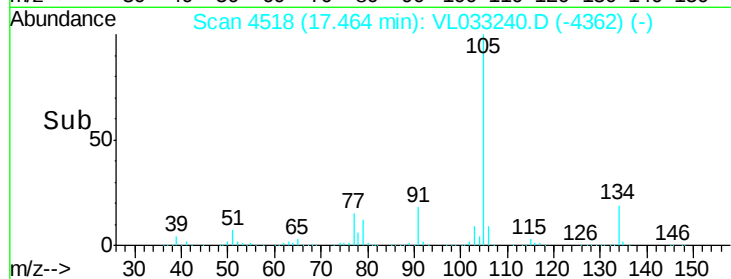
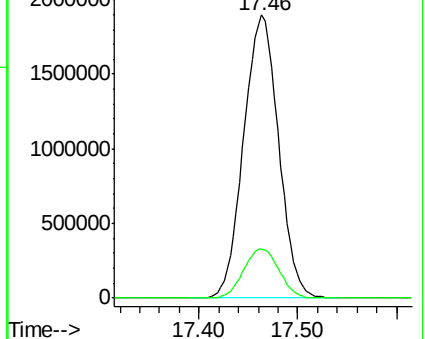
105 100

134 17.8 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.530 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

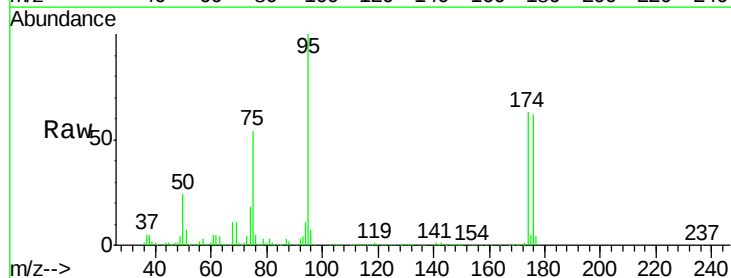
Tgt Ion: 95 Resp: 1965872

Ion Ratio Lower Upper

95 100

174 64.1 51.0 76.4

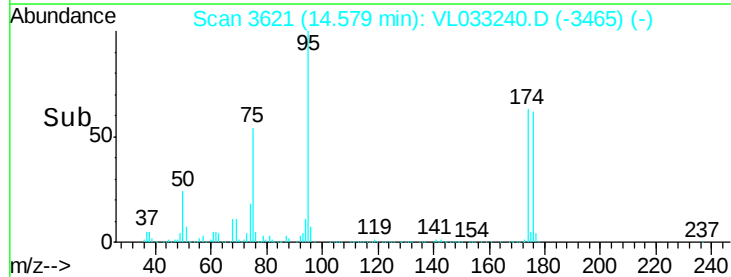
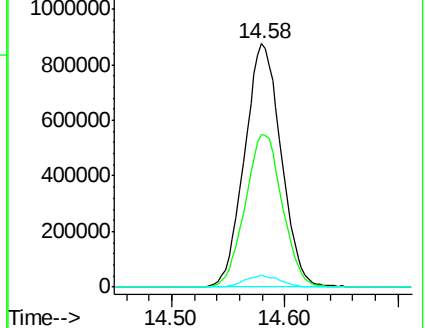
175 4.7 3.8 5.6

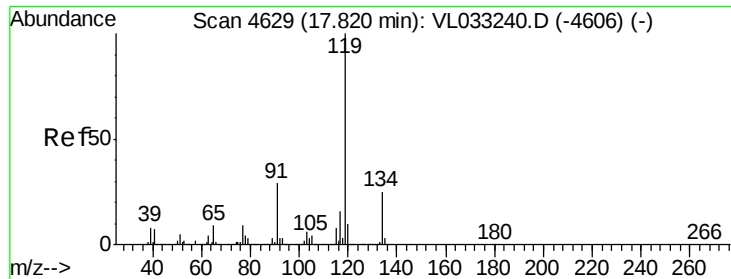


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

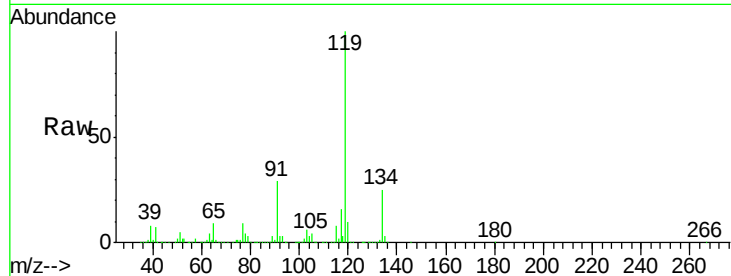




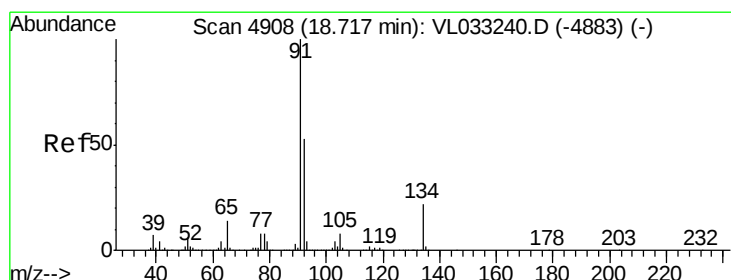
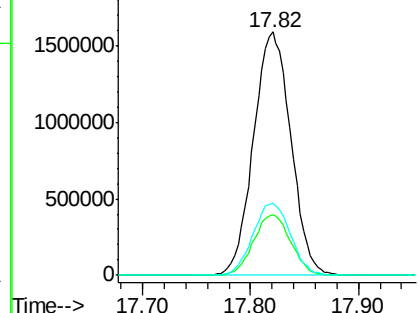
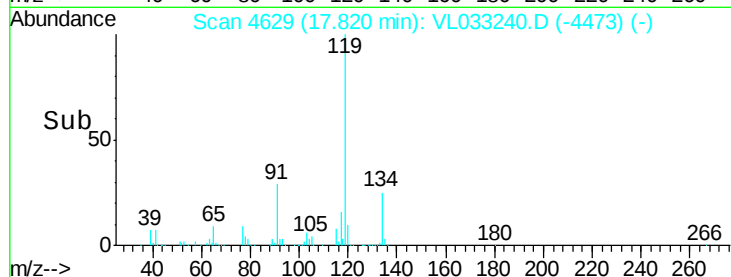
#69  
 p-Isopropyltoluene  
 Concen: 7.392 ppbv  
 RT: 17.82 min Scan# 4629  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tot Ion: 119 Resp: 3820418

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 24.9  | 19.9  | 29.9  |
| 91  | 29.9  | 23.9  | 35.9  |



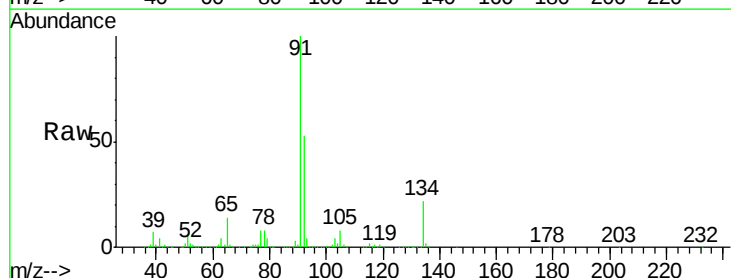
Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V



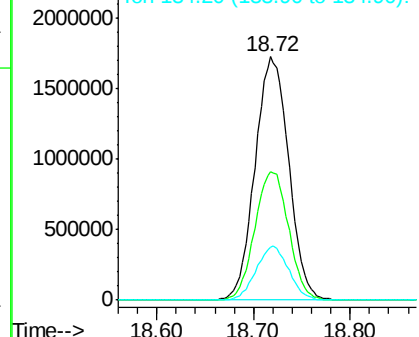
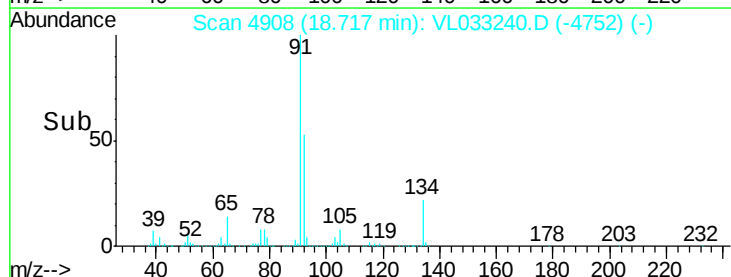
#70  
 n-Butylbenzene  
 Concen: 7.452 ppbv  
 RT: 18.72 min Scan# 4908  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

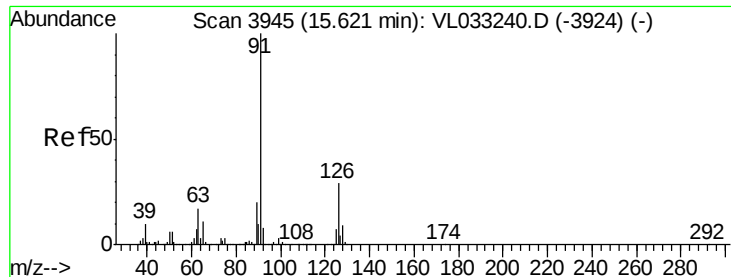
Tgt Ion: 91 Resp: 4166256

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 52.9  | 42.4  | 63.6  |
| 134 | 21.6  | 17.3  | 25.9  |



Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.581 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033240.D

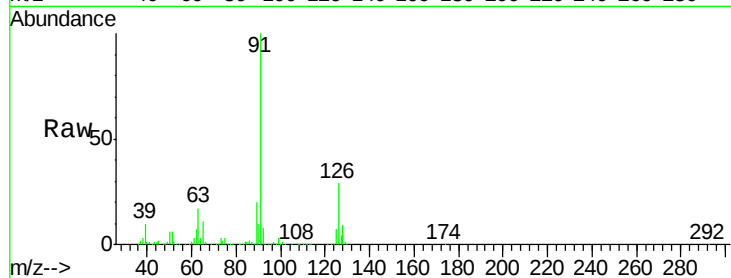
Acq: 6 Mar 2019 1:58

Tot Ion: 91 Resp: 2924856

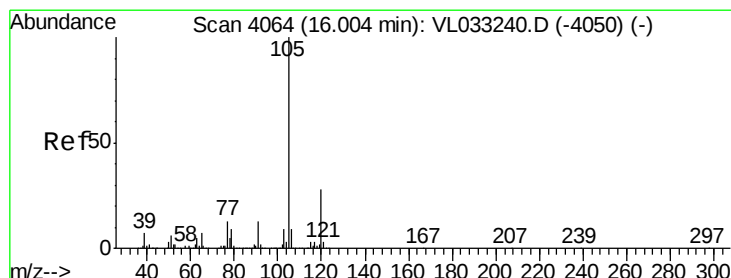
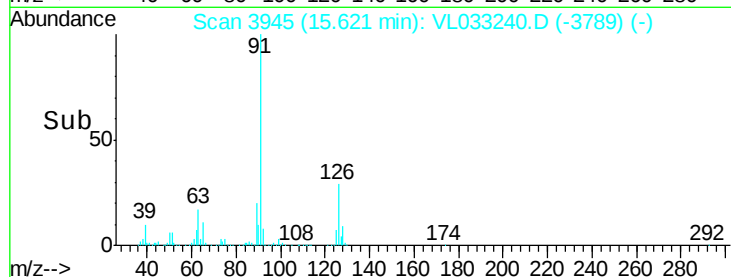
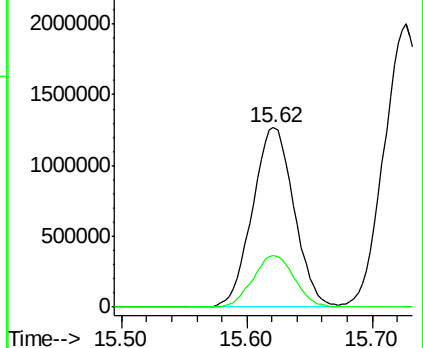
Ion Ratio Lower Upper

91 100

126 28.9 11.6 46.2



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.779 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tgt Ion: 105 Resp: 3122894

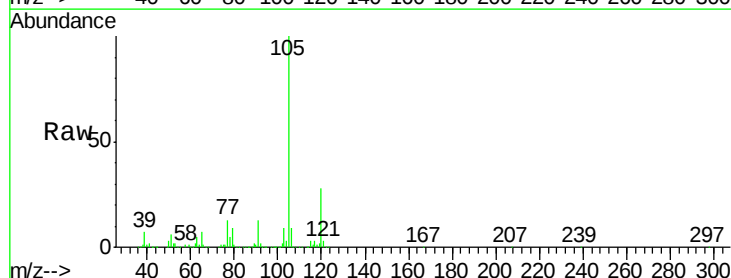
Ion Ratio Lower Upper

105 100

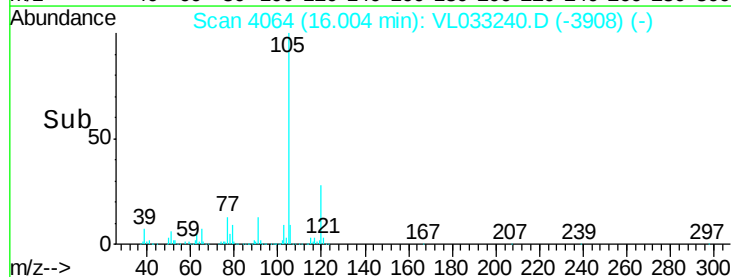
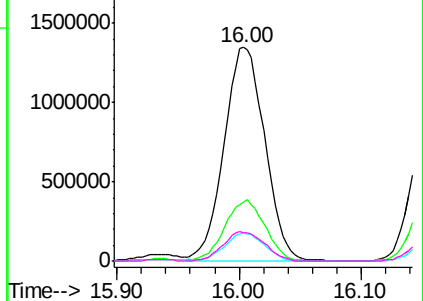
120 28.1 22.3 33.5

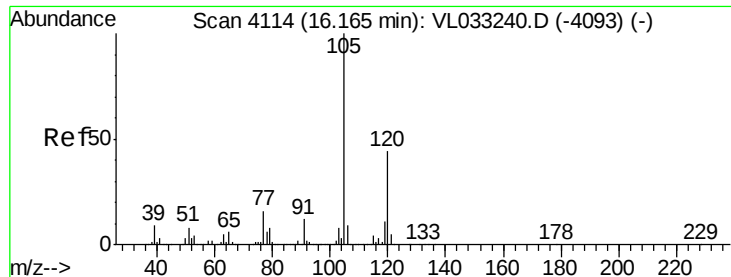
91 12.7 10.3 15.5

77 14.0 11.3 16.9



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

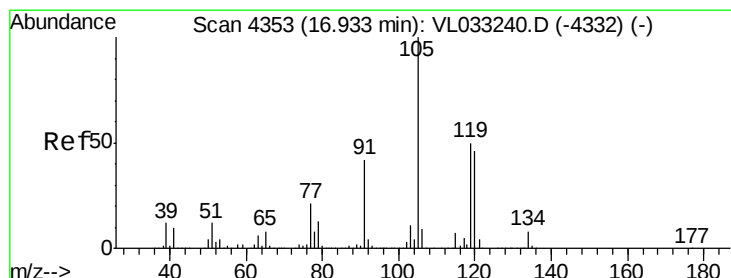
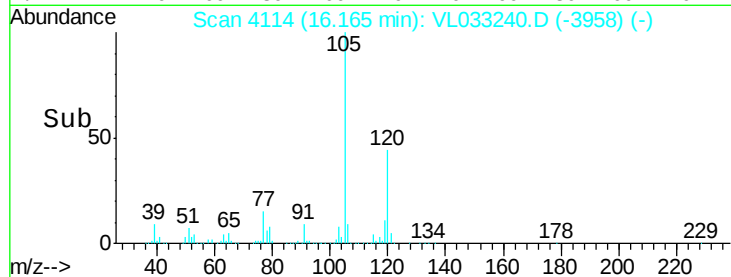
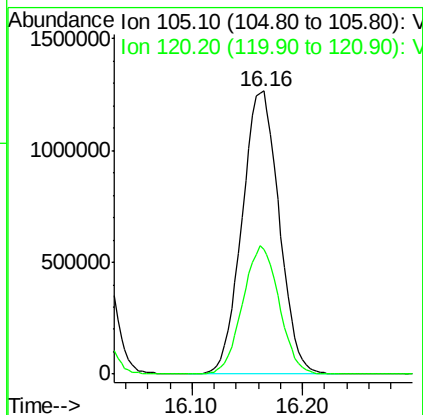
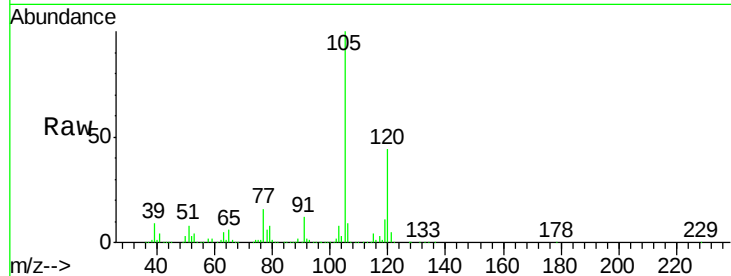




#73

1,3,5-Trimethylbenzene  
Concen: 7.684 ppbv  
RT: 16.16 min Scan# 4114  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

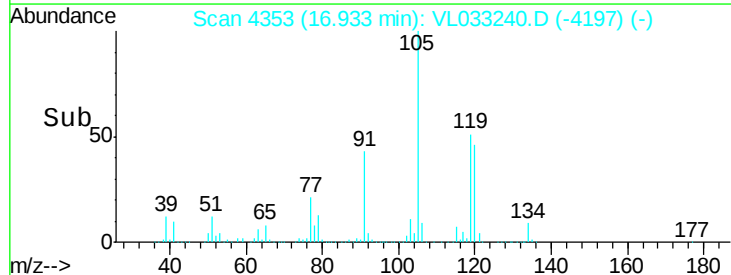
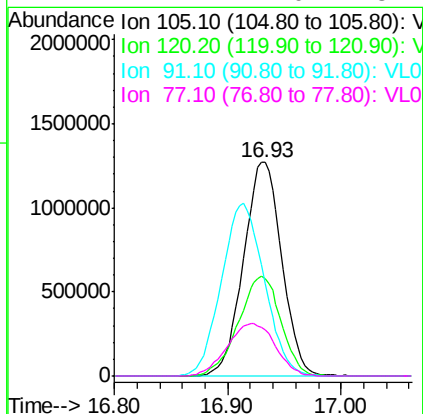
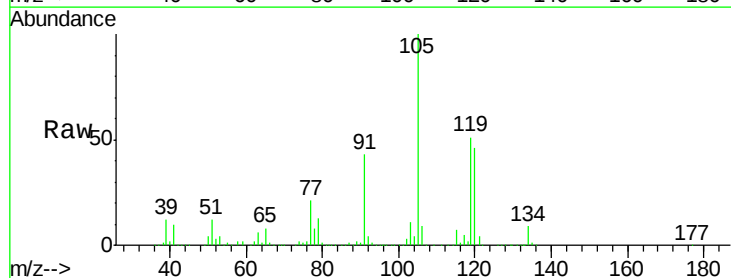
Tot Ion:105 Resp: 2945411  
Ion Ratio Lower Upper  
105 100  
120 43.8 35.0 52.6

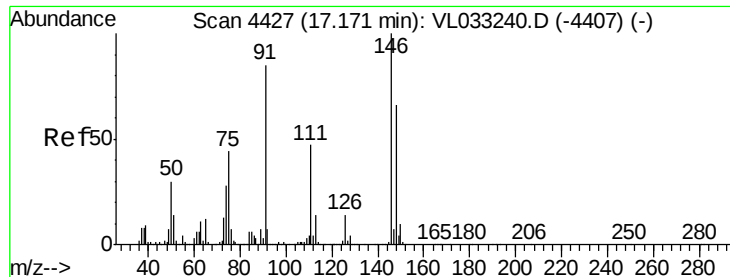


#74

1,2,4-Trimethylbenzene  
Concen: 7.486 ppbv  
RT: 16.93 min Scan# 4353  
Delta R.T. 0.00 min  
Lab File: VL033240.D  
Acq: 6 Mar 2019 1:58

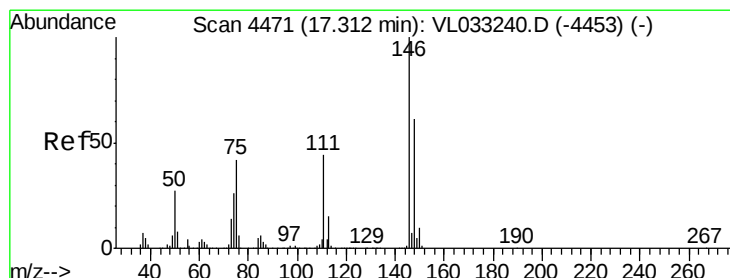
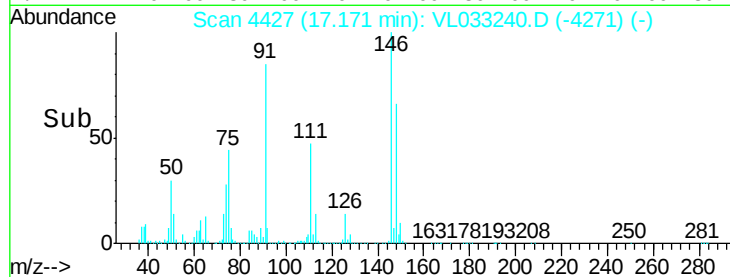
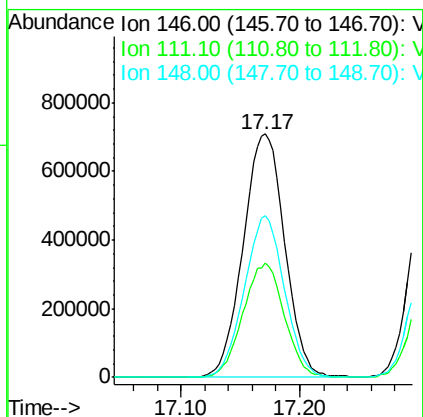
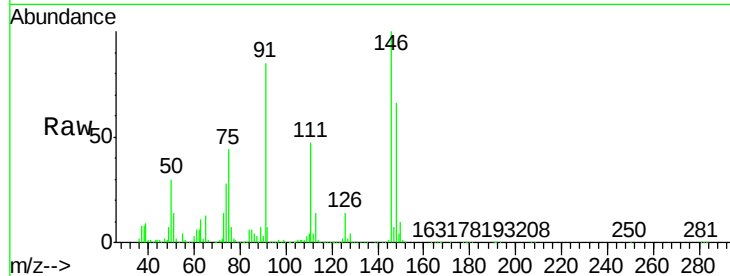
Tgt Ion:105 Resp: 2987119  
Ion Ratio Lower Upper  
105 100  
120 45.6 36.5 54.7  
91 43.0 34.4 51.6  
77 21.2 17.0 25.4





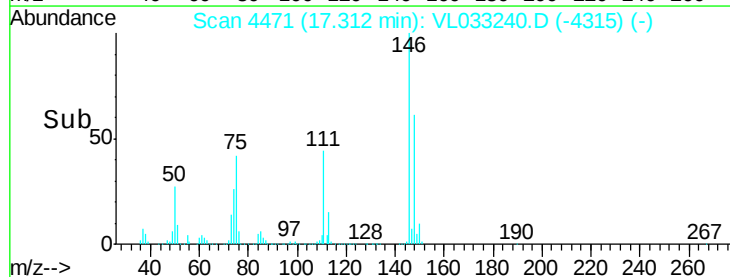
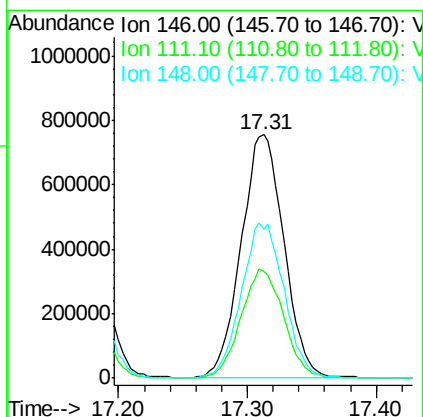
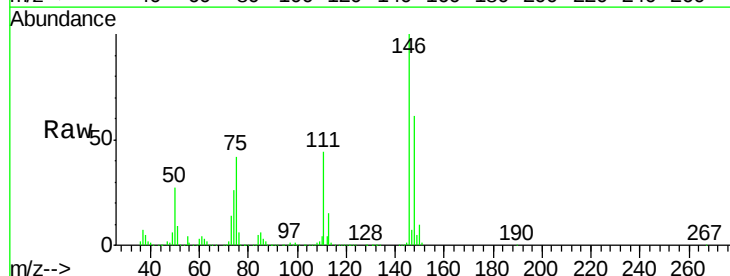
#75  
 1,3-Dichlorobenzene  
 Concen: 7.462 ppbv  
 RT: 17.17 min Scan# 4427  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

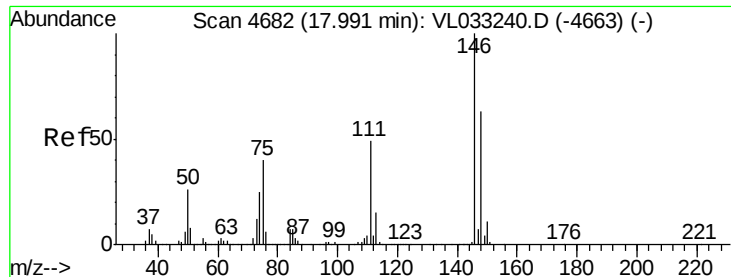
Tot Ion:146 Resp: 1713045  
 Ion Ratio Lower Upper  
 146 100  
 111 46.7 23.4 70.0  
 148 64.2 32.1 96.3



#76  
 1,4-Dichlorobenzene  
 Concen: 7.619 ppbv  
 RT: 17.31 min Scan# 4471  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tgt Ion:146 Resp: 1729609  
 Ion Ratio Lower Upper  
 146 100  
 111 45.0 22.4 67.3  
 148 64.3 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 7.486 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

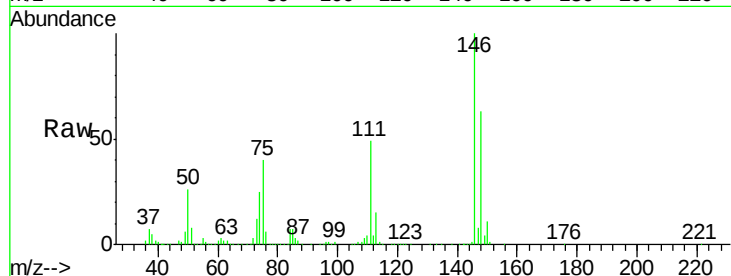
Tot Ion:146 Resp: 1696548

Ion Ratio Lower Upper

146 100

111 47.3 23.6 71.0

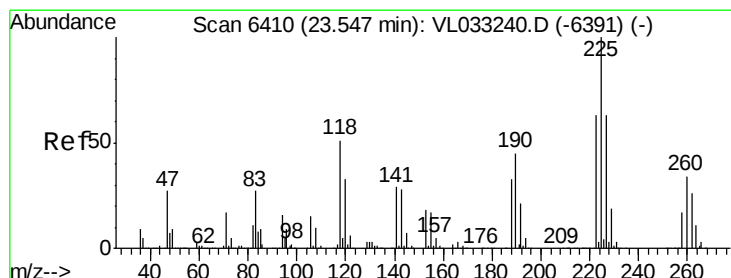
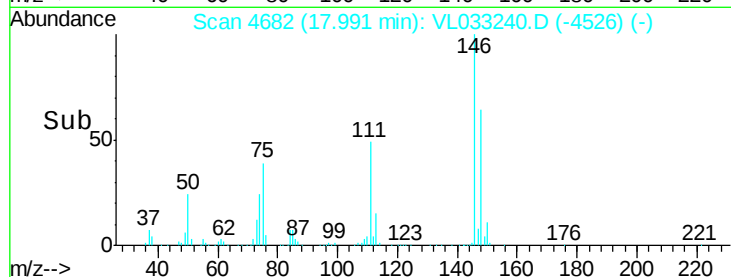
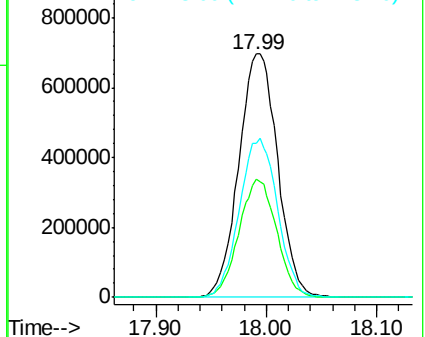
148 64.6 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.452 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

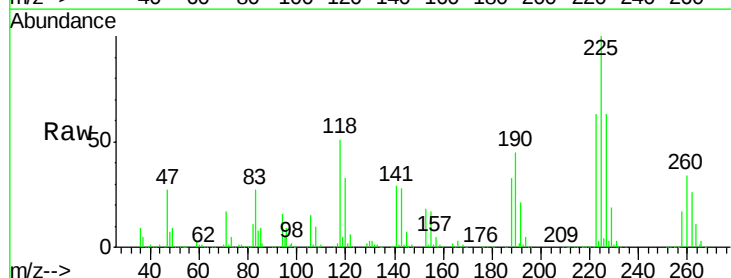
Tgt Ion:225 Resp: 1135164

Ion Ratio Lower Upper

225 100

223 63.6 50.9 76.3

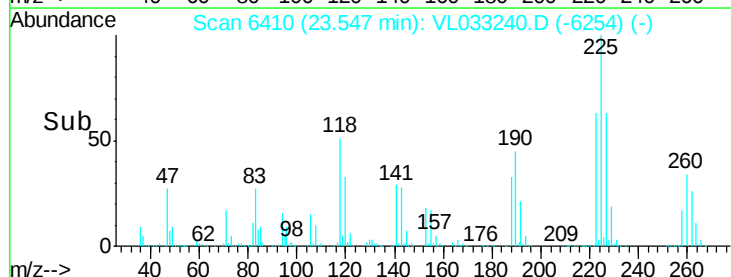
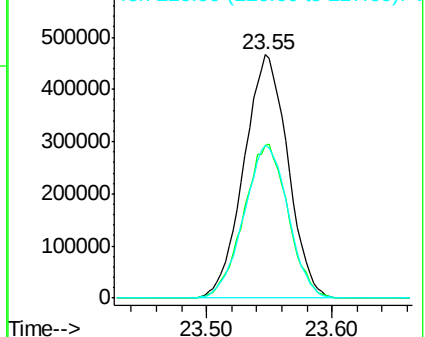
227 63.4 50.7 76.1

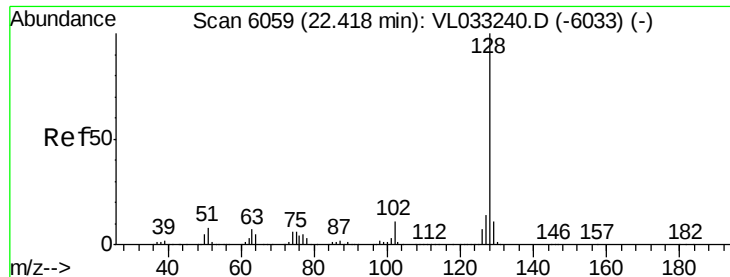


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.902 ppbv

RT: 22.42 min Scan# 6059

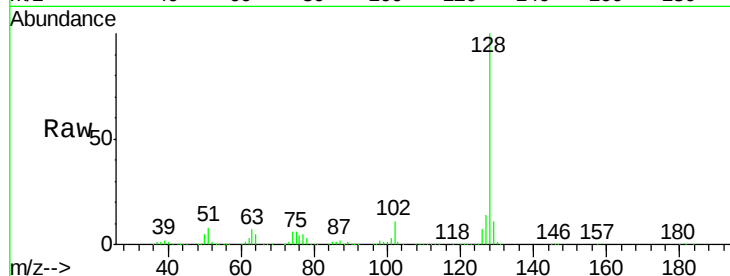
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tot Ion:128 Resp: 4485151

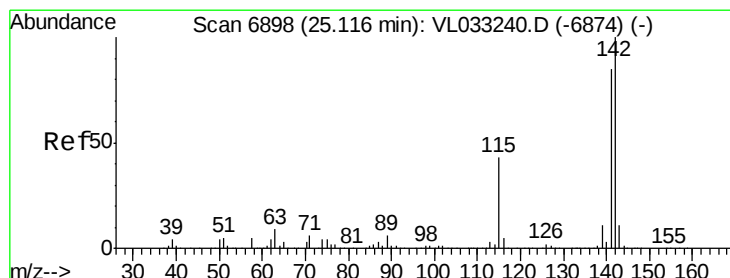
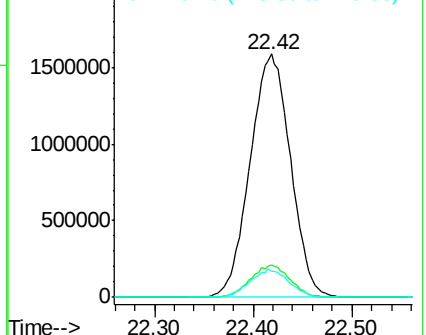
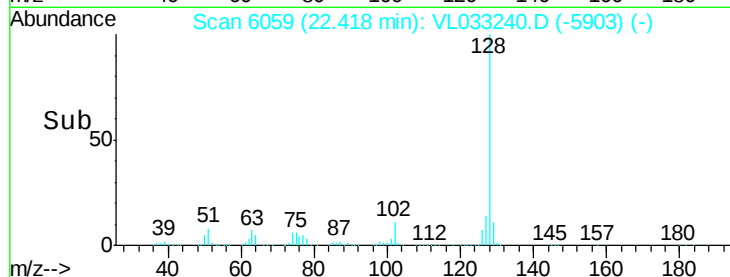
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.5  | 10.8  | 16.2  |
| 129 | 10.8  | 8.6   | 13.0  |



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.671 ppbv

RT: 25.12 min Scan# 6898

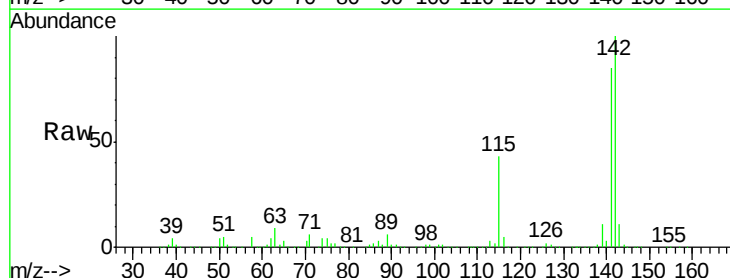
Delta R.T. 0.00 min

Lab File: VL033240.D

Acq: 6 Mar 2019 1:58

Tgt Ion:142 Resp: 1959924

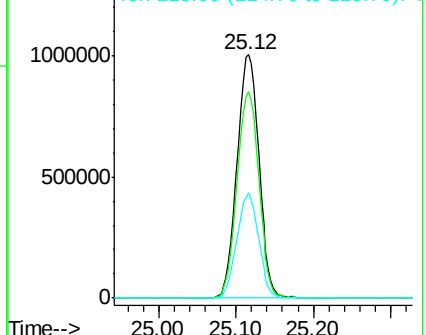
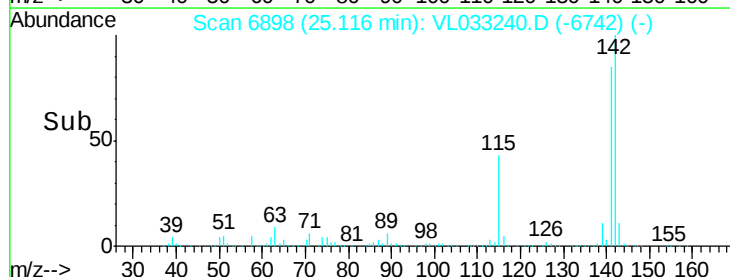
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 85.0  | 68.0  | 102.0 |
| 115 | 42.6  | 34.1  | 51.1  |

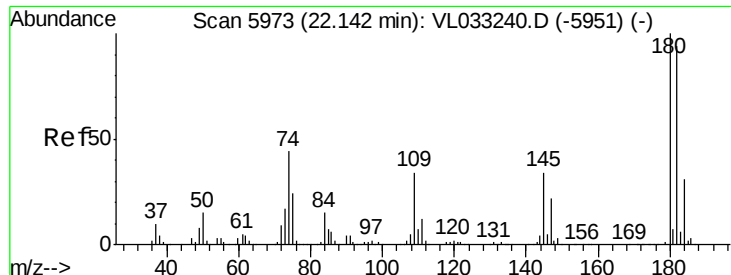


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

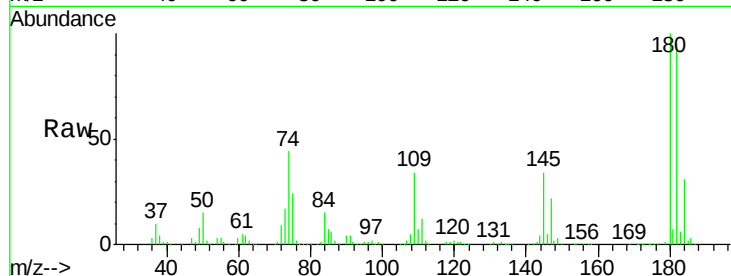
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.186 ppbv  
 RT: 22.14 min Scan# 5973  
 Delta R.T. 0.00 min  
 Lab File: VL033240.D  
 Acq: 6 Mar 2019 1:58

Tot Ion:180 Resp: 2086046  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 76.6 114.8  
 184 30.4 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

