

Data File : VL034184.D  
Acq On : 18 Sep 2019 14:39  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Sep 19 06:49:20 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 18 12:53:31 2019  
QLast Update : Wed Sep 18 12:53:31 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.70  | 49   | 1181758  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.22  | 114  | 2043178  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.16 | 117  | 2231487  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.50  | 95    | 1876105  | 9.68     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.80% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85   | 1408964  | 8.072  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 1306363  | 9.428  | ppbv   | 100    |
| 4) Chloromethane               | 3.13 | 50   | 783338   | 9.620  | ppbv   | 92     |
| 5) Vinyl Chloride              | 3.25 | 62   | 693459   | 9.319  | ppbv   | 96     |
| 6) Bromomethane                | 3.47 | 94   | 329271   | 9.484  | ppbv   | 97     |
| 7) Chloroethane                | 3.55 | 64   | 245574   | 9.442  | ppbv # | 87     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 1429679  | 9.280  | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41   | 647303   | 9.469  | ppbv   | 100    |
| 10) Heptane                    | 8.18 | 43   | 1710831  | 9.602  | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 1514120  | 9.529  | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101  | 990391   | 9.524  | ppbv   | 99     |
| 13) Ethanol                    | 3.60 | 45   | 143302   | 8.657  | ppbv   | 96     |
| 14) Bromoethene                | 3.74 | 108  | 425008   | 9.997  | ppbv   | 99     |
| 15) Acetone                    | 3.85 | 43   | 1294888  | 8.175  | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.32 | 39   | 689268   | 9.972  | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.30 | 59   | 1119714  | 11.157 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96   | 445437   | 9.821  | ppbv   | 91     |
| 19) Isopropyl Alcohol          | 3.97 | 45   | 1039793  | 10.676 | ppbv   | 100    |
| 20) Methylene Chloride         | 4.35 | 84   | 400590   | 8.772  | ppbv   | 98     |
| 21) Allyl Chloride             | 4.42 | 41   | 905610   | 10.123 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96   | 451572   | 9.951  | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.10 | 43   | 2241373  | 9.603  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.03 | 63   | 1475832  | 9.391  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.71 | 43   | 2734692  | 9.131  | ppbv   | 100    |
| 26) Hexane                     | 5.72 | 57   | 1149632  | 9.227  | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.56 | 76   | 1234718  | 10.746 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 1763350  | 9.530  | ppbv   | 100    |
| 29) Chloroform                 | 5.79 | 83   | 1723260  | 9.679  | ppbv   | 99     |
| 30) Cyclohexane                | 7.18 | 84   | 871839   | 9.693  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.58 | 61   | 1251566  | 9.854  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.56 | 97   | 1642082  | 9.564  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.27 | 43   | 1937007  | 9.285  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.07 | 117  | 1633296  | 9.622  | ppbv   | 99     |
| 36) Benzene                    | 6.94 | 78   | 2093777  | 9.279  | ppbv   | 100    |
| 37) 1,2-Dichloroethane         | 6.35 | 62   | 1560767  | 9.724  | ppbv   | 100    |
| 38) Trichloroethene            | 7.89 | 130  | 705019   | 8.744  | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.67 | 63   | 942067   | 9.292  | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.88 | 88   | 319605   | 9.741  | ppbv # | 92     |
| 41) Tetrahydrofuran            | 6.08 | 42   | 1167985  | 9.940  | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.85 | 83   | 1899299  | 9.860  | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.07 | 69   | 947849   | 10.168 | ppbv   | 99     |

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Quant Time: Sep 19 06:49:20 2019  
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 18 12:53:31 2019  
QLast Update : Wed Sep 18 12:53:31 2019  
Response via : Initial Calibration

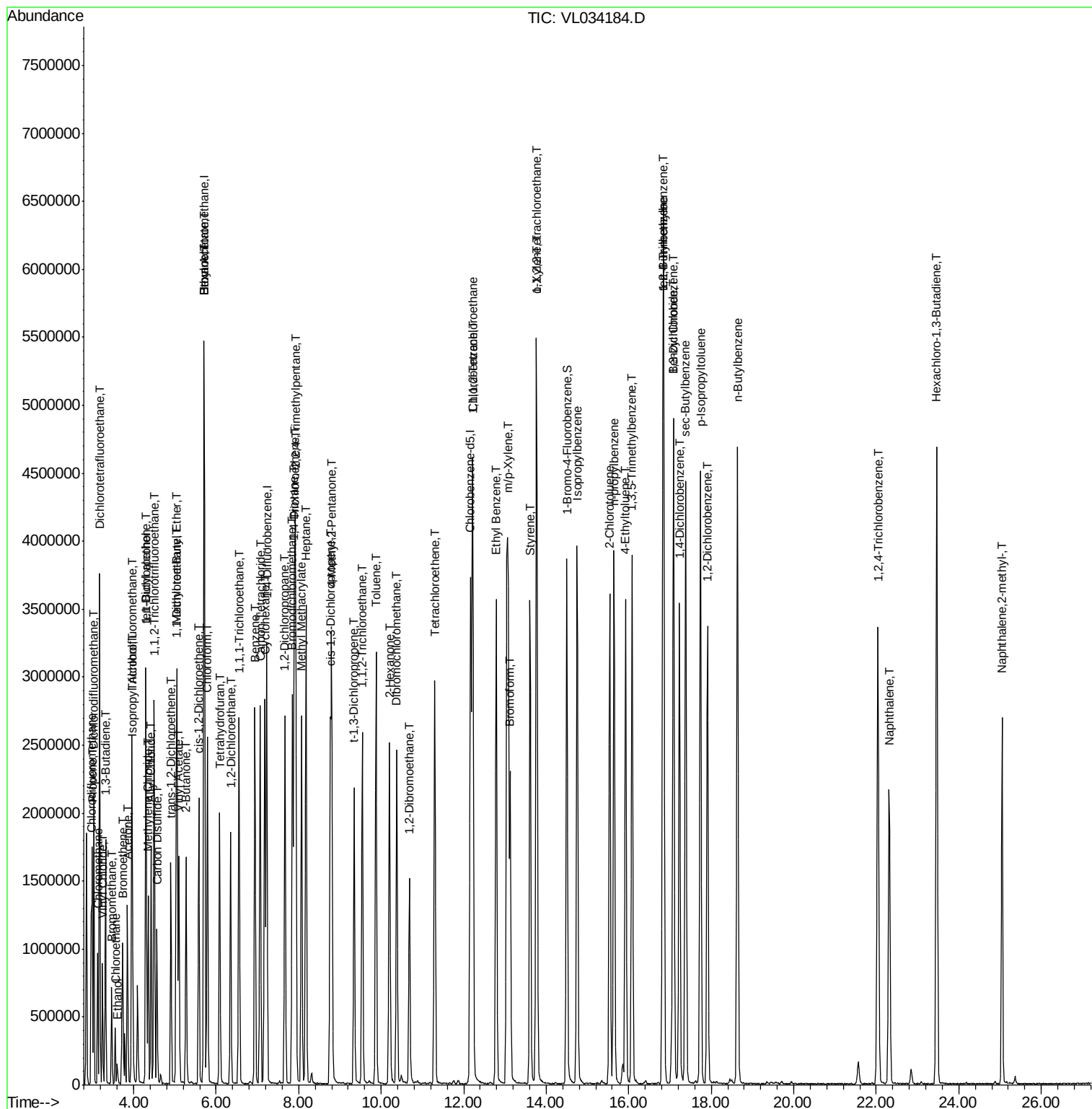
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.92  | 57   | 3918320  | 9.020  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.34  | 75   | 1243739  | 11.284 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.76  | 75   | 1391093  | 10.492 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.55  | 97   | 857176   | 9.415  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.37 | 129  | 1421630  | 9.852  | ppbv   | 99       |
| 49) Bromoform                 | 13.13 | 173  | 1199470  | 10.272 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.80  | 43   | 2843468  | 9.365  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.20 | 43   | 2448891  | 9.611  | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.30 | 164  | 666001   | 8.933  | ppbv   | 97       |
| 53) Toluene                   | 9.87  | 91   | 2378162  | 9.643  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.69 | 107  | 1283265  | 9.478  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.20 | 131  | 914756   | 9.192  | ppbv # | 57       |
| 57) Chlorobenzene             | 12.22 | 112  | 1677142  | 8.632  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.79 | 91   | 3224901  | 8.957  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.07 | 91   | 2511426  | 8.421  | ppbv # | 27       |
| 60) o-Xylene                  | 13.77 | 91   | 2619198  | 8.783  | ppbv   | 99       |
| 61) Styrene                   | 13.61 | 104  | 1964997  | 9.199  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.75 | 105  | 3381970  | 8.761  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.76 | 83   | 1941206  | 7.939  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.64 | 120  | 868551   | 8.893  | ppbv   | 90       |
| 65) tert-Butylbenzene         | 16.83 | 119  | 2880787  | 8.541  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.08 | 91   | 1445484  | 12.113 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.38 | 105  | 4169914  | 8.645  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.74 | 119  | 3401876  | 8.710  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.64 | 91   | 3882113  | 8.536  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.54 | 91   | 2814302  | 8.923  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.92 | 105  | 3022083  | 8.970  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.08 | 105  | 2889076  | 8.876  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.85 | 105  | 2915441  | 8.436  | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 17.09 | 146  | 1596900  | 8.612  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.23 | 146  | 1616834  | 8.514  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.91 | 146  | 1594731  | 8.497  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.46 | 225  | 1188618  | 9.562  | ppbv   | 98       |
| 79) Naphthalene               | 22.32 | 128  | 2647931  | 8.703  | ppbv   | 95       |
| 80) Naphthalene,2-methyl-     | 25.05 | 142  | 1433983  | 10.135 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.04 | 180  | 1437502  | 8.529  | ppbv   | 100      |

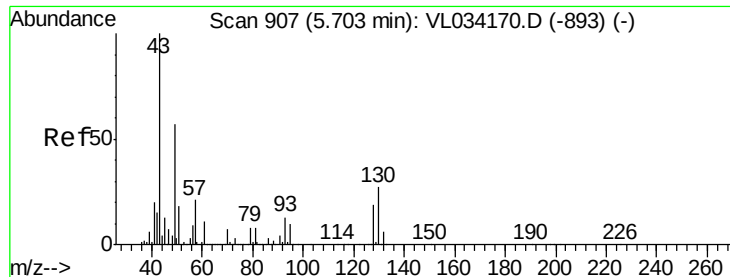
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

**ClientSampleId :**

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :

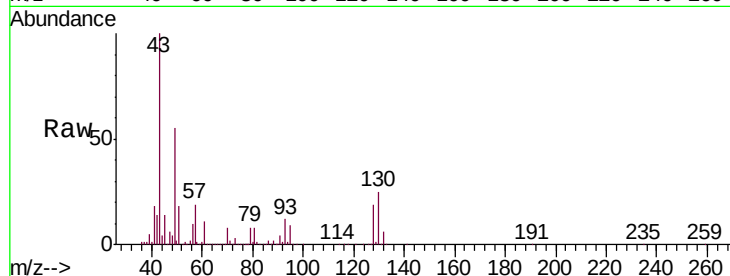
Tgt Ion: 49 Resp: 1181758

Ion Ratio Lower Upper

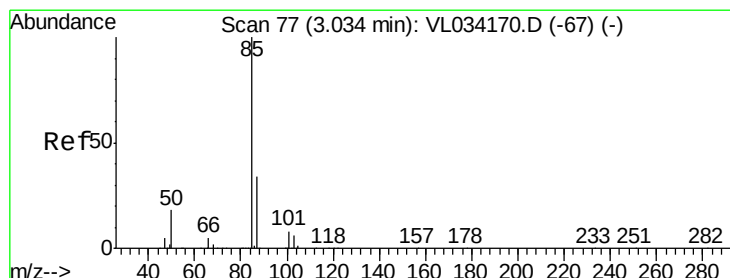
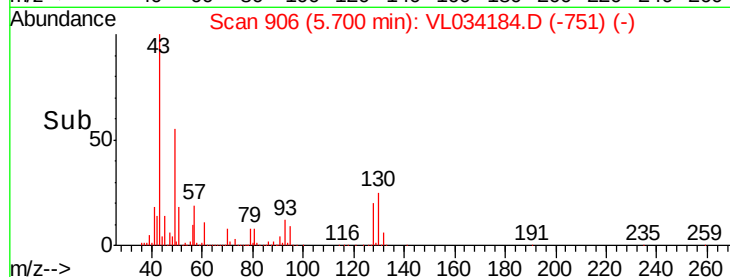
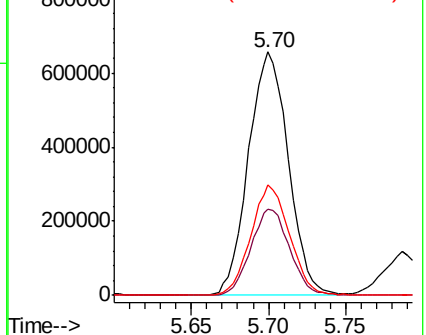
49 100

128 34.5 17.6 52.9

130 44.1 22.3 66.9



Abundance Ion 49.10 (48.80 to 49.80): VL0  
Ion 128.00 (127.70 to 128.70): V  
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.072 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034184.D

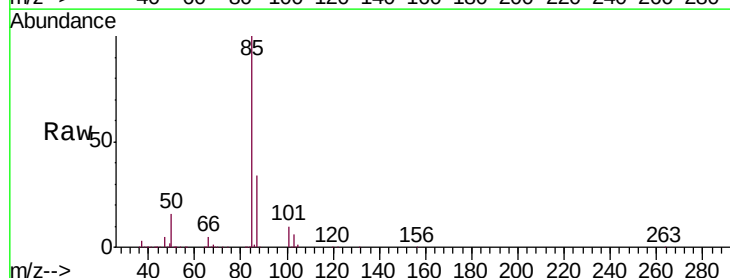
Acq: 18 Sep 2019 14:39

Tgt Ion: 85 Resp: 1408964

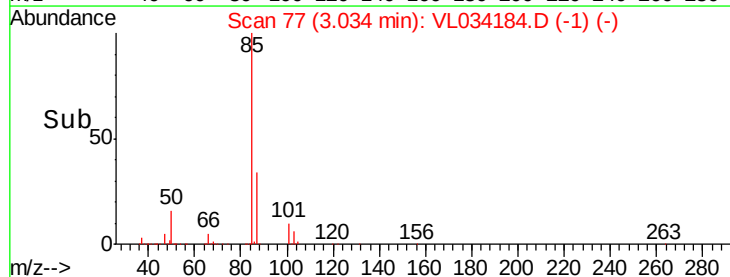
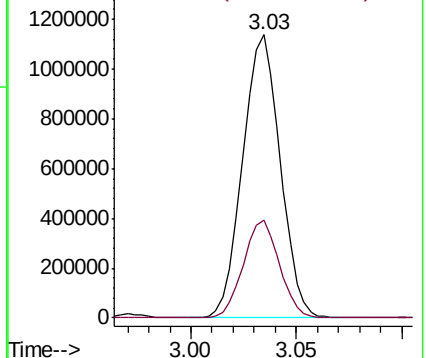
Ion Ratio Lower Upper

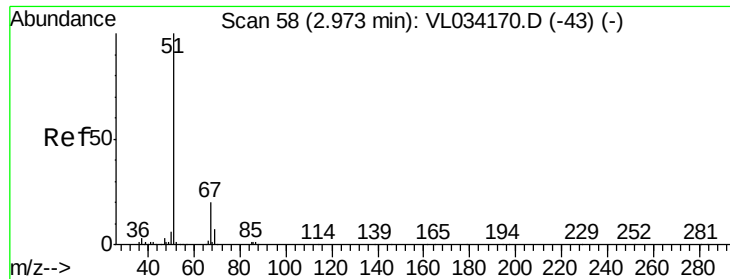
85 100

87 34.4 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0  
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.428 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

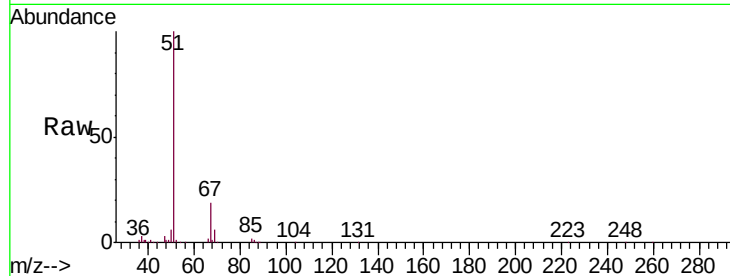
ClientSampleId :

Tgt Ion: 51 Resp: 1306363

Ion Ratio Lower Upper

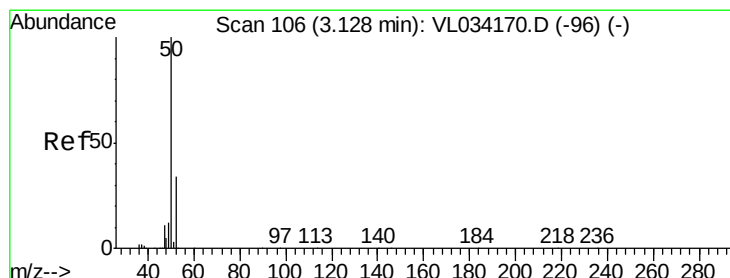
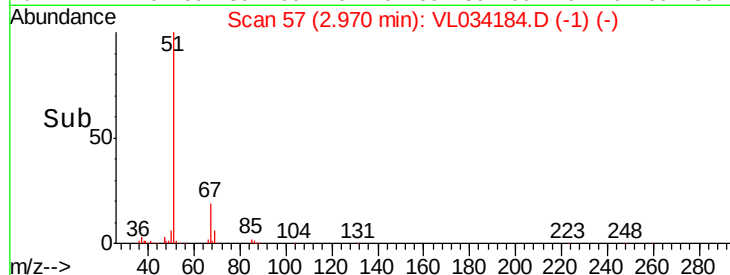
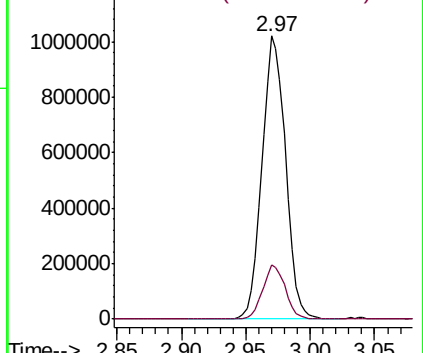
51 100

67 18.4 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.620 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034184.D

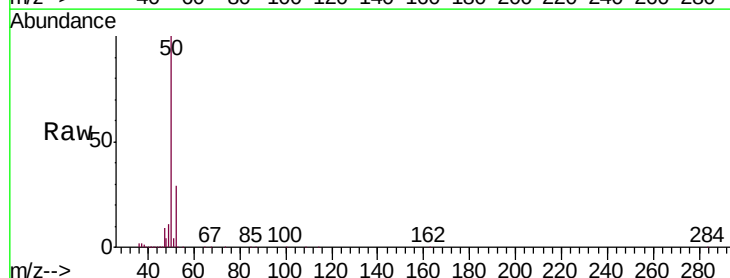
Acq: 18 Sep 2019 14:39

Tgt Ion: 50 Resp: 783338

Ion Ratio Lower Upper

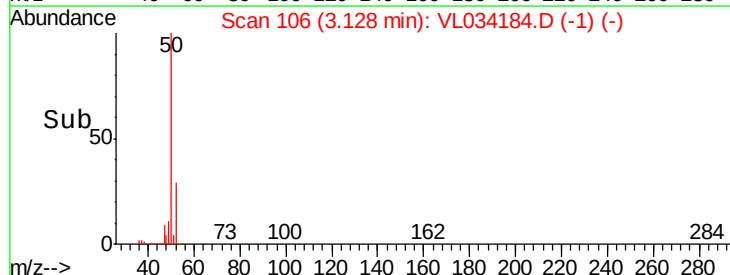
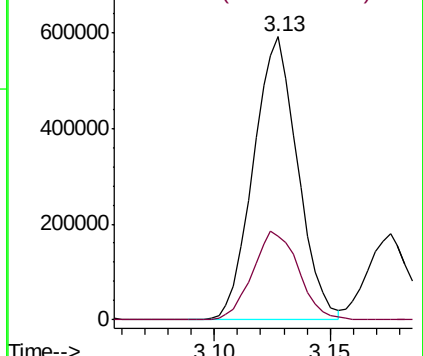
50 100

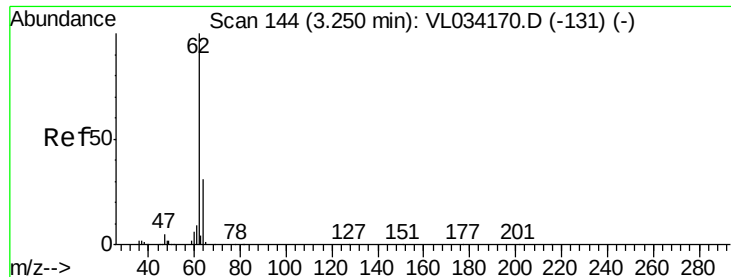
52 29.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.319 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

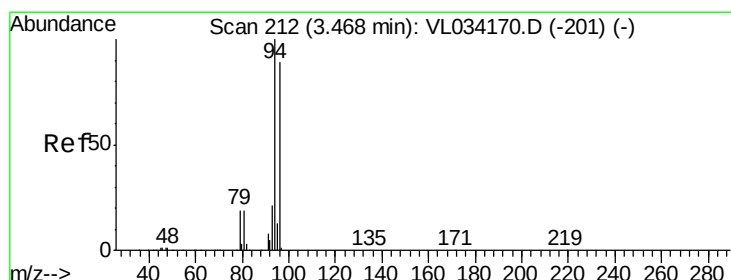
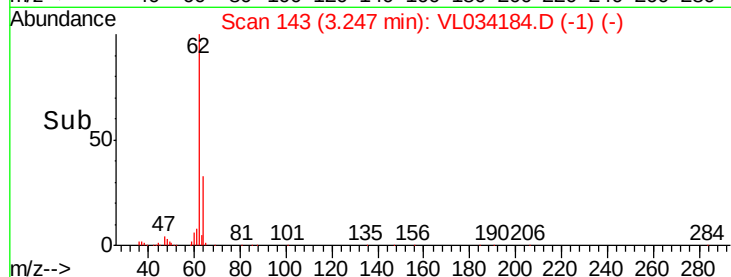
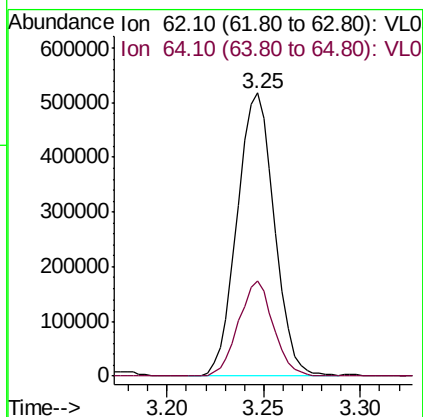
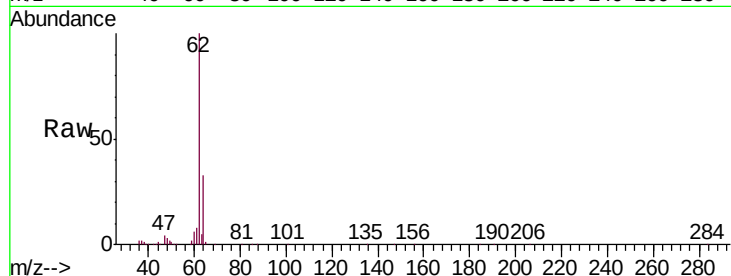
ClientSampleId :

Tgt Ion: 62 Resp: 693459

Ion Ratio Lower Upper

62 100

64 33.5 25.2 37.8



#6

Bromomethane

Concen: 9.484 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL034184.D

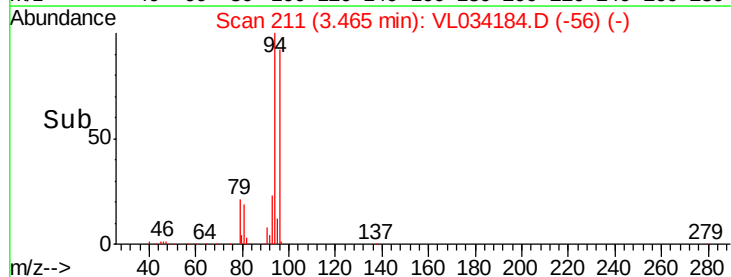
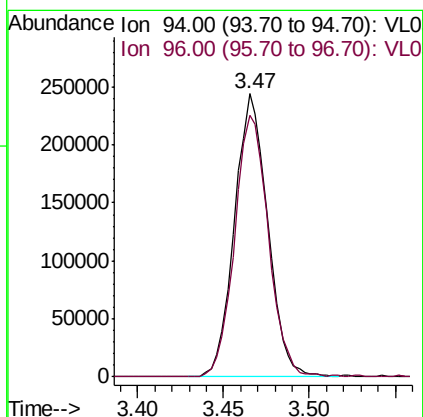
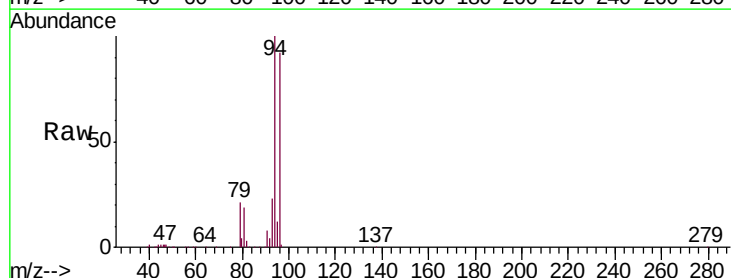
Acq: 18 Sep 2019 14:39

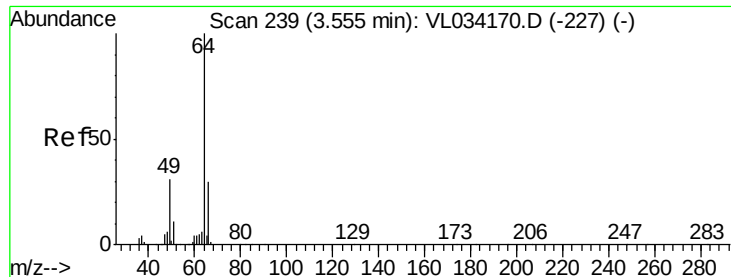
Tgt Ion: 94 Resp: 329271

Ion Ratio Lower Upper

94 100

96 92.3 71.3 106.9





#7

Chloroethane

Concen: 9.442 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

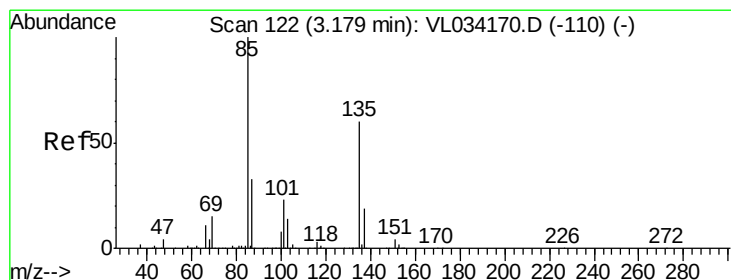
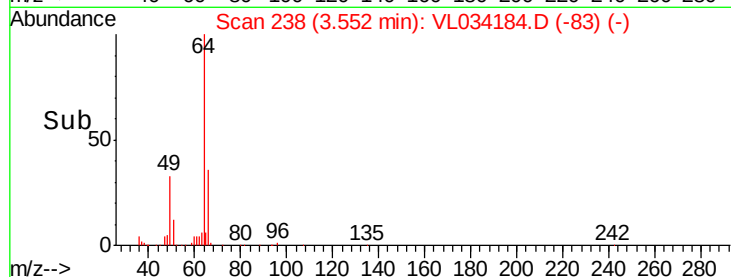
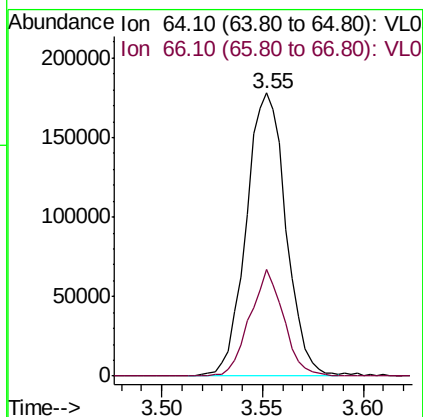
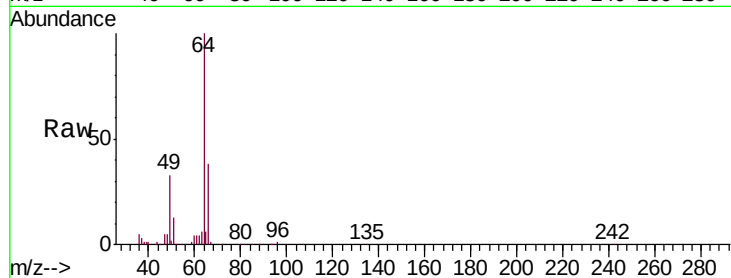
ClientSampleId :

Tgt Ion: 64 Resp: 245574

Ion Ratio Lower Upper

64 100

66 37.5 24.2 36.4#



#8

Dichlorotetrafluoroethane

Concen: 9.280 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034184.D

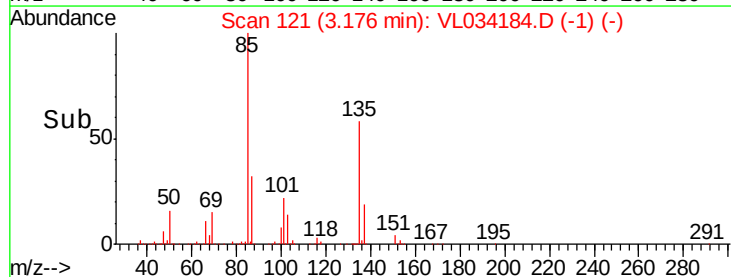
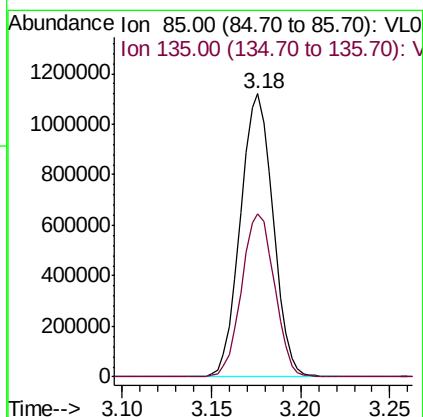
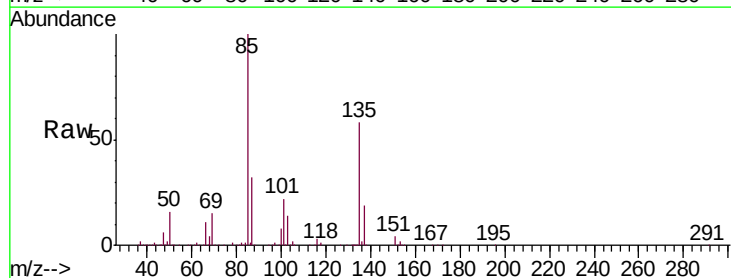
Acq: 18 Sep 2019 14:39

Tgt Ion: 85 Resp: 1429679

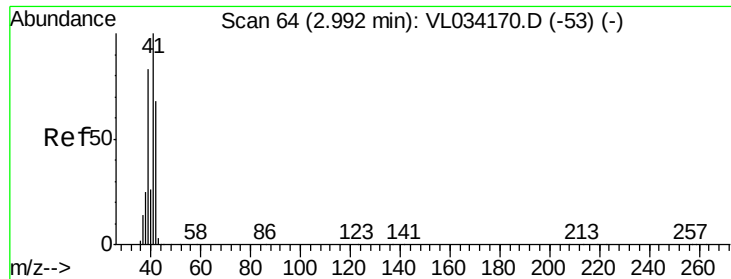
Ion Ratio Lower Upper

85 100

135 58.1 47.3 70.9







#9

Propene

Concen: 9.469 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

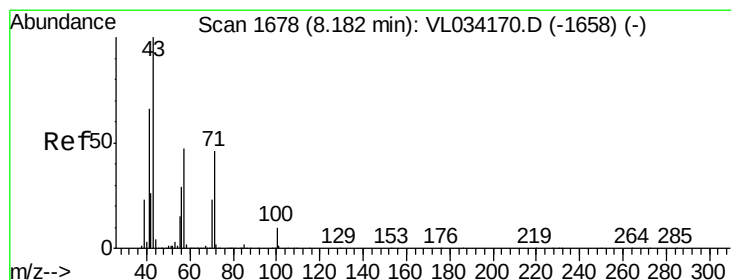
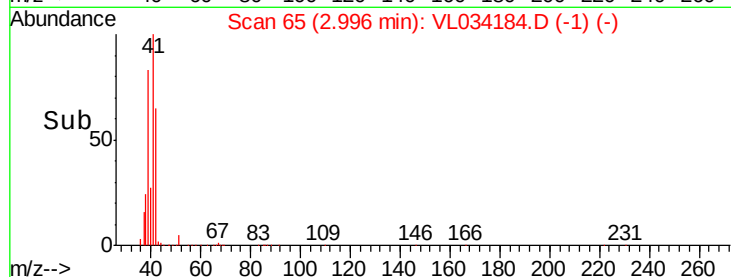
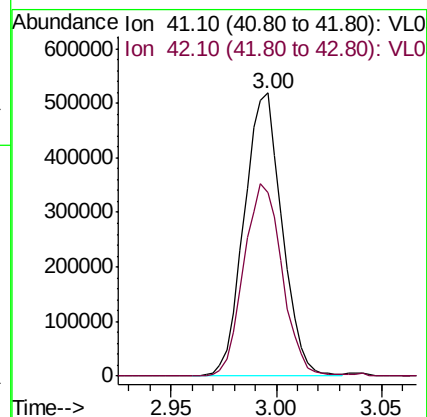
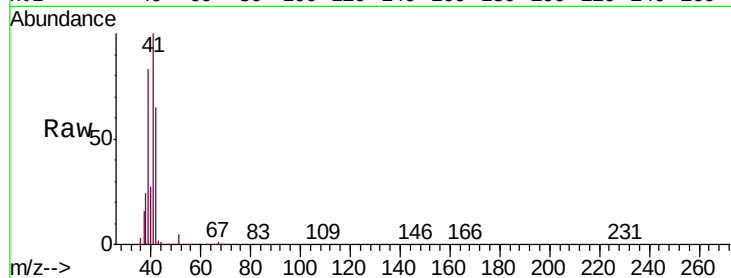
ClientSampleId :

Tgt Ion: 41 Resp: 647303

Ion Ratio Lower Upper

41 100

42 69.8 55.8 83.6



#10

Heptane

Concen: 9.602 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034184.D

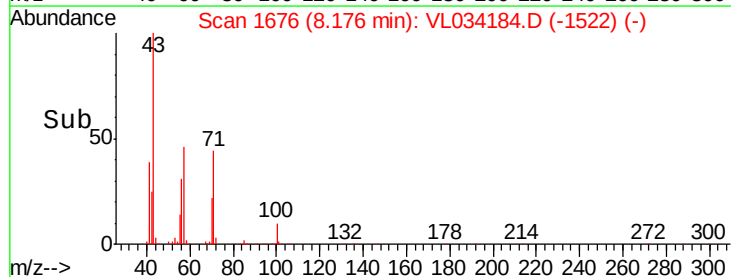
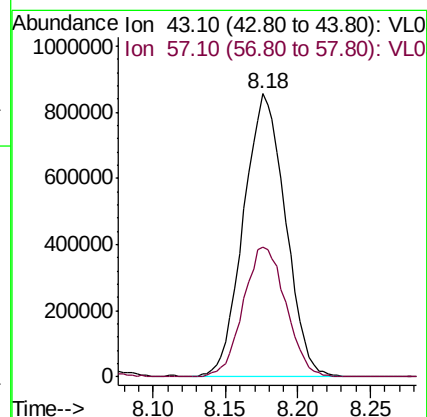
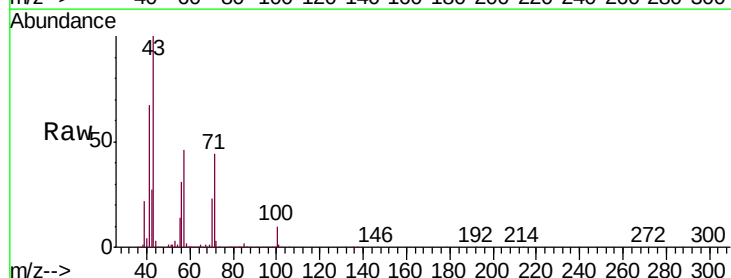
Acq: 18 Sep 2019 14:39

Tgt Ion: 43 Resp: 1710831

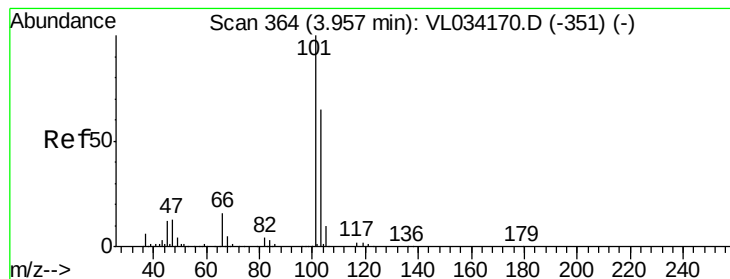
Ion Ratio Lower Upper

43 100

57 46.9 37.5 56.3







#11

Trichlorofluoromethane

Concen: 9.529 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

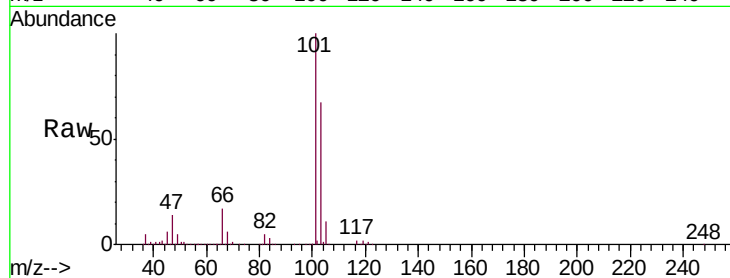
ClientSampleId :

Tgt Ion:101 Resp: 1514120

Ion Ratio Lower Upper

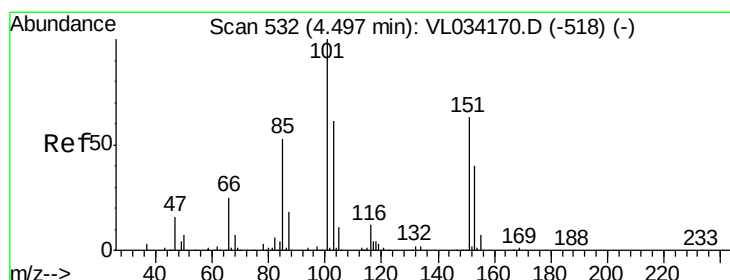
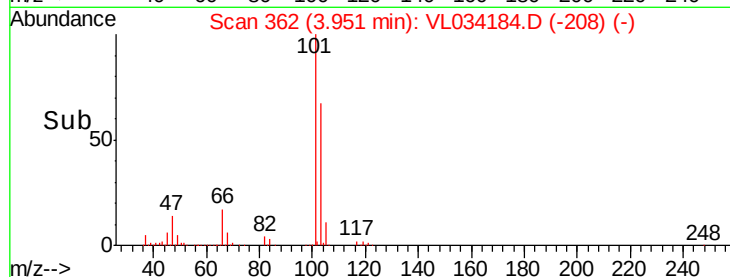
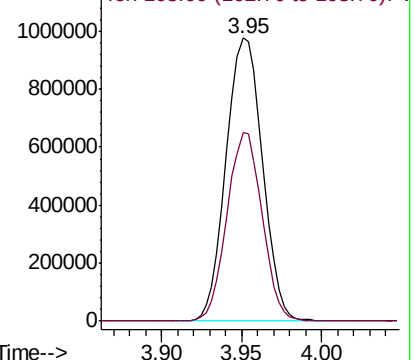
101 100

103 66.8 52.1 78.1



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: 9.524 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034184.D

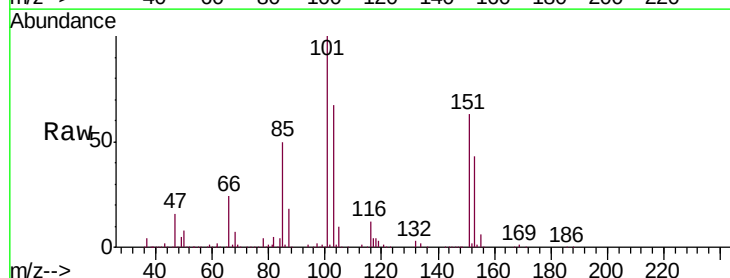
Acq: 18 Sep 2019 14:39

Tgt Ion:101 Resp: 990391

Ion Ratio Lower Upper

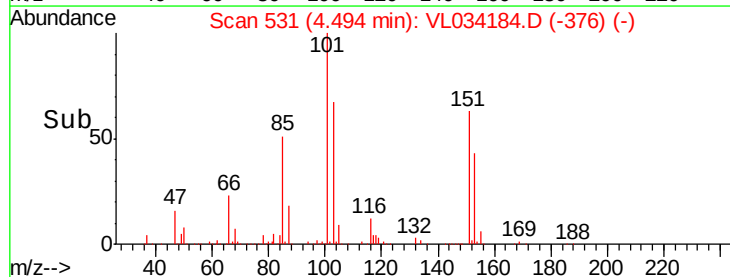
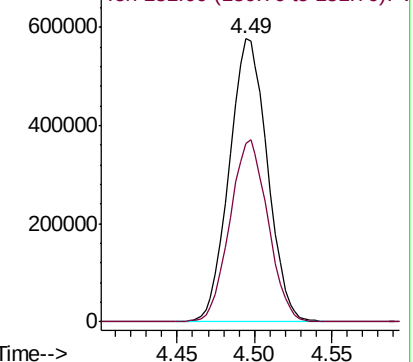
101 100

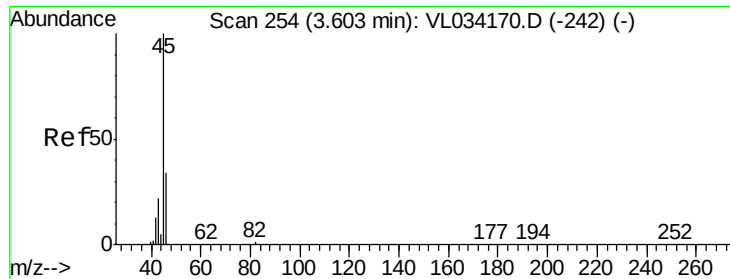
151 64.2 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 8.657 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

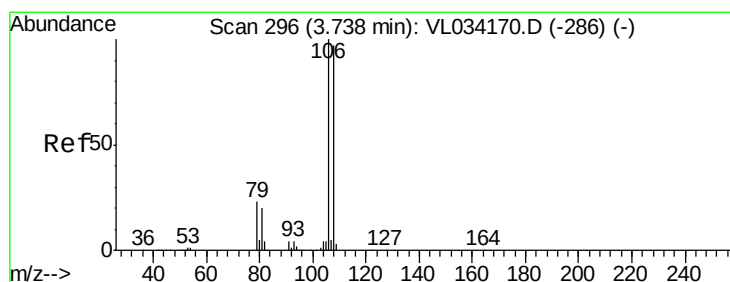
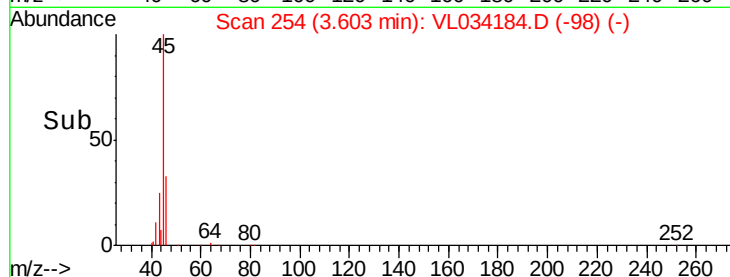
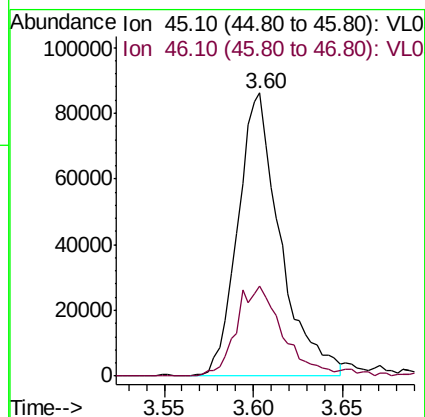
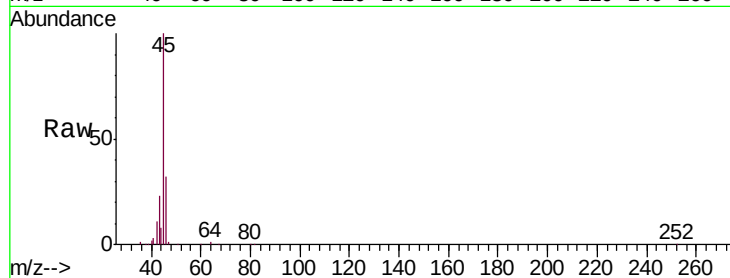
ClientSampleId :

Tgt Ion: 45 Resp: 143302

Ion Ratio Lower Upper

45 100

46 36.1 15.5 61.9



#14

Bromoethene

Concen: 9.997 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

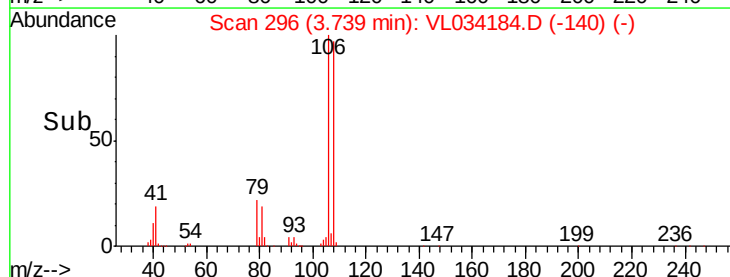
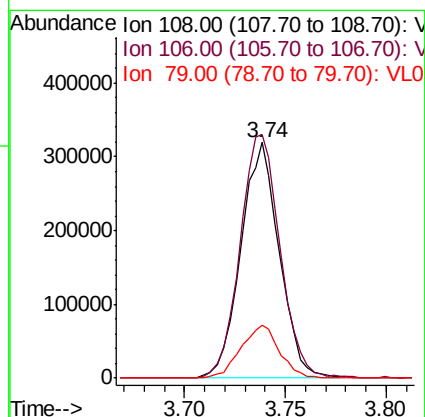
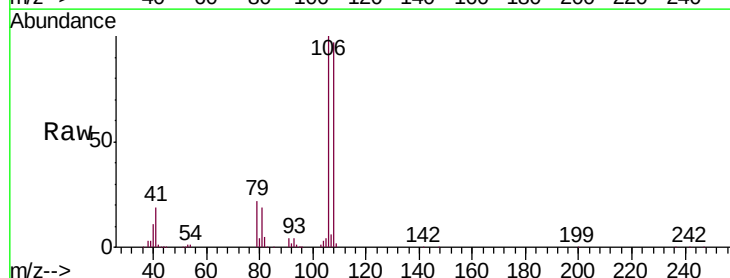
Tgt Ion: 108 Resp: 425008

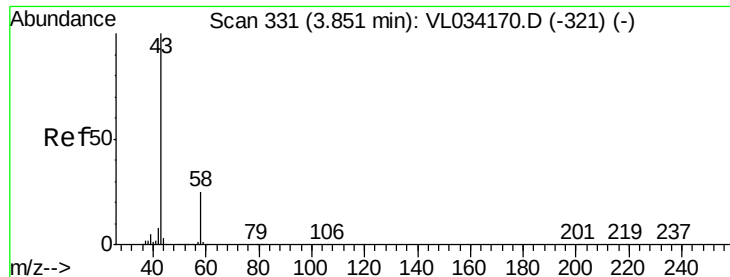
Ion Ratio Lower Upper

108 100

106 108.9 86.2 129.4

79 22.7 18.6 27.8





#15

Acetone

Concen: 8.175 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

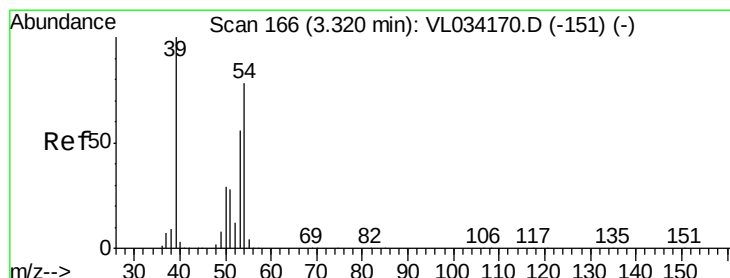
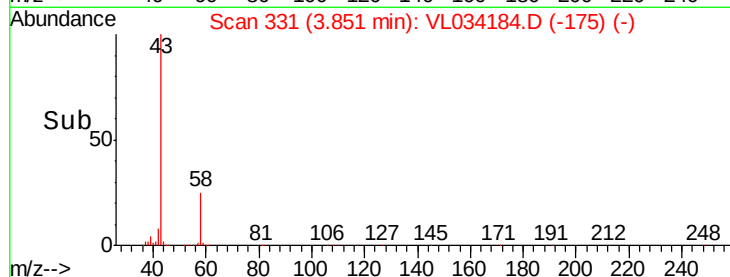
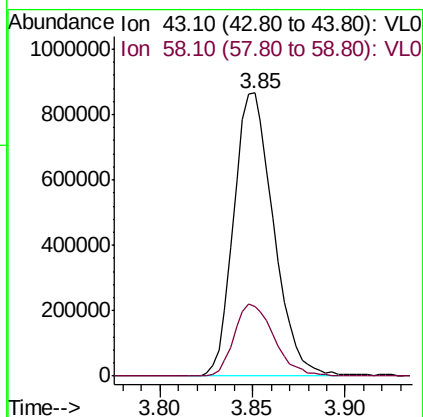
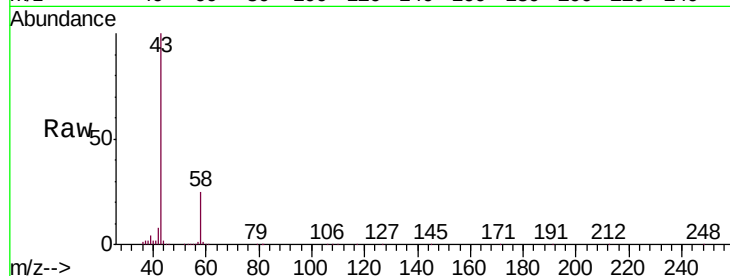
ClientSampleId :

Tgt Ion: 43 Resp: 1294888

Ion Ratio Lower Upper

43 100

58 25.7 20.5 30.7



#16

1,3-Butadiene

Concen: 9.972 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034184.D

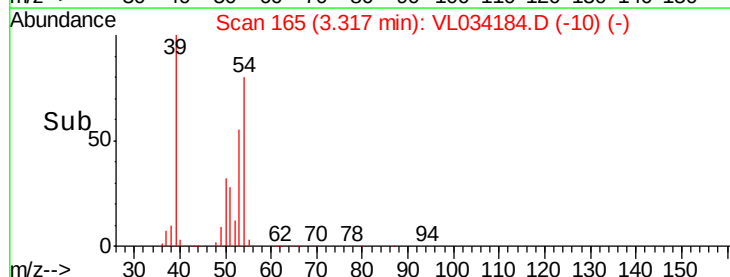
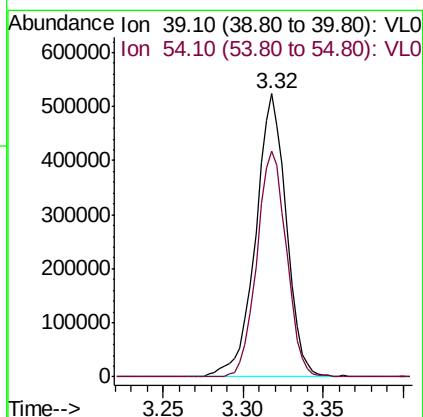
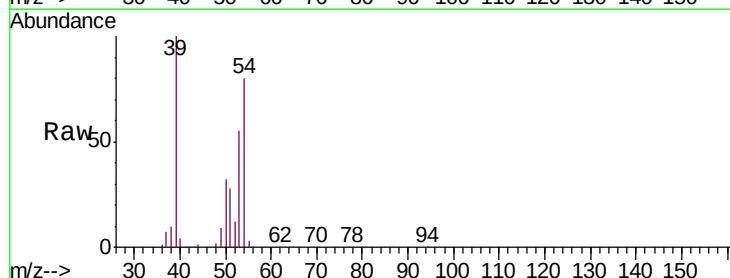
Acq: 18 Sep 2019 14:39

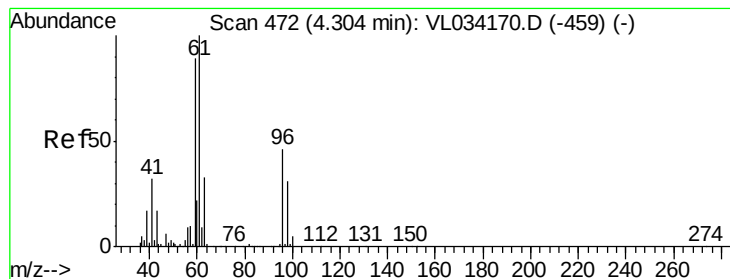
Tgt Ion: 39 Resp: 689268

Ion Ratio Lower Upper

39 100

54 77.6 63.4 95.0





#17

tert-Butyl alcohol

Concen: 11.157 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

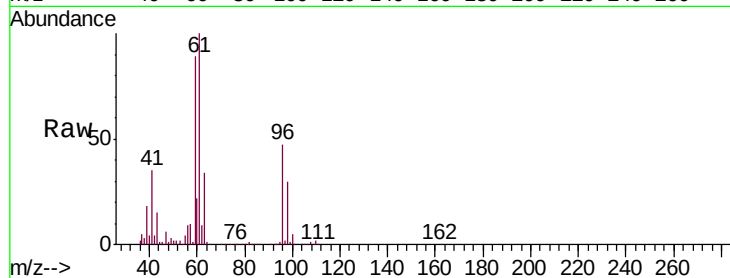
ClientSampleId :

Tgt Ion: 59 Resp: 1119714

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

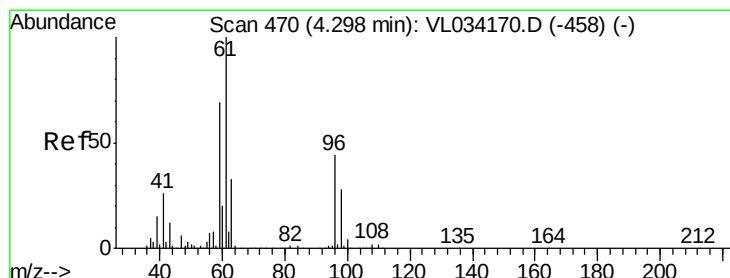
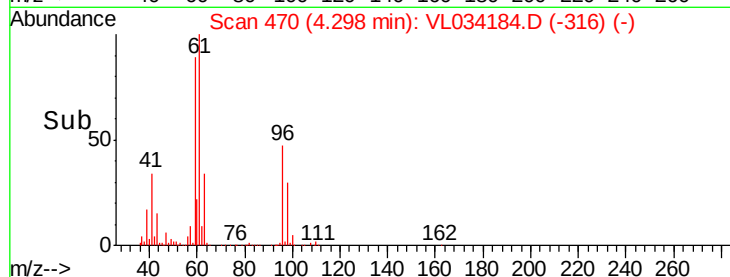
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 9.821 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

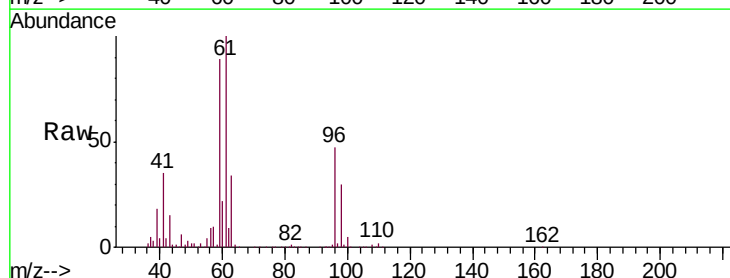
Tgt Ion: 96 Resp: 445437

Ion Ratio Lower Upper

96 100

61 211.5 183.3 274.9

98 63.4 51.4 77.2



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

800000

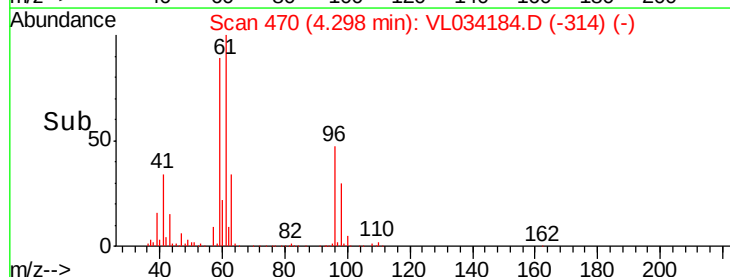
600000

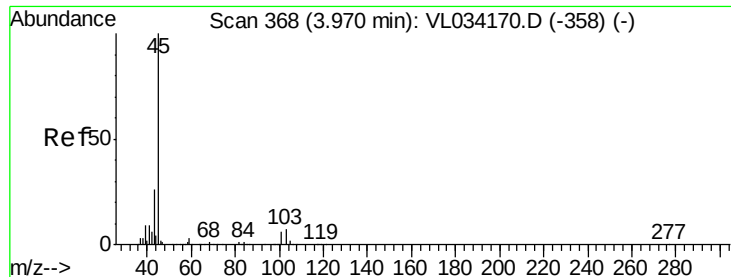
400000

200000

0

Time-->

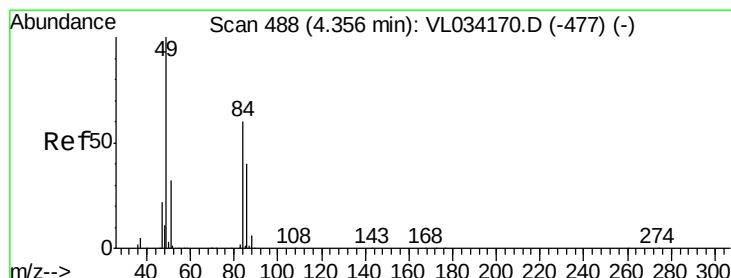
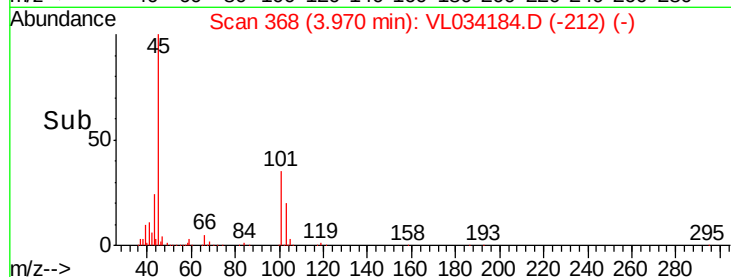
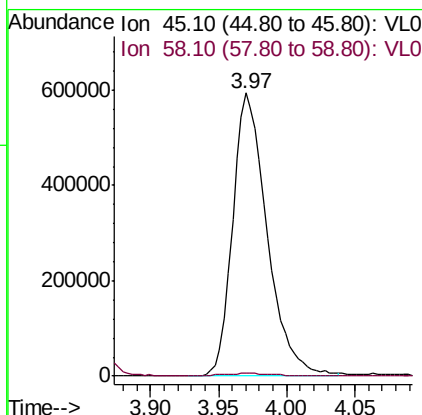
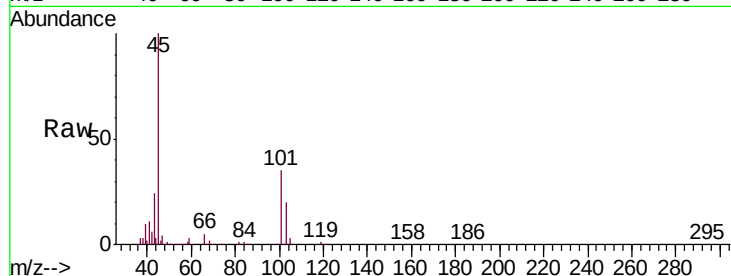




#19  
Isopropyl Alcohol  
Concen: 10.676 ppbv  
RT: 3.97 min Scan# 368  
Delta R.T. 0.00 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

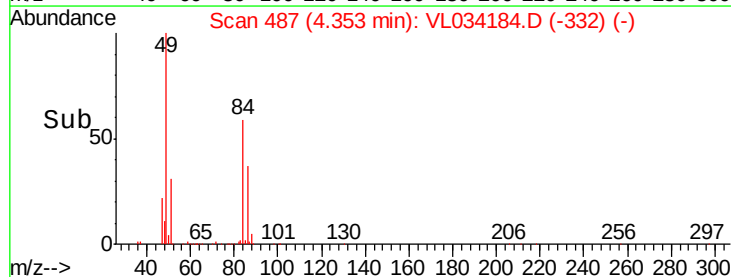
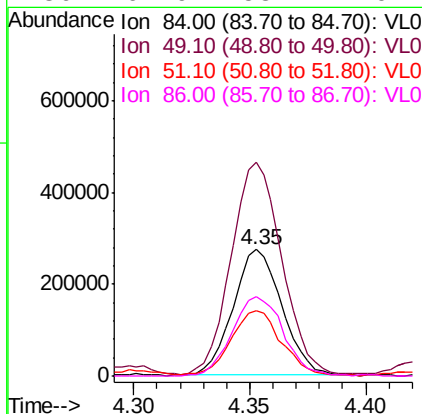
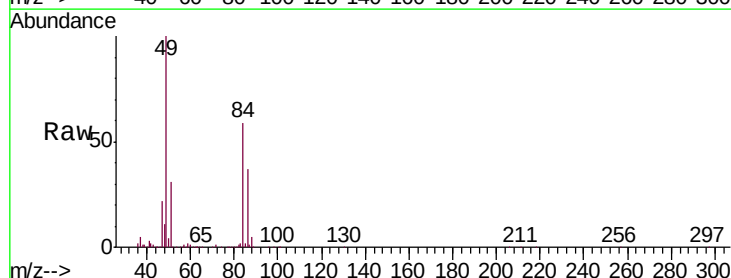
Instrument :  
MSVOA\_L  
ClientSampleId :

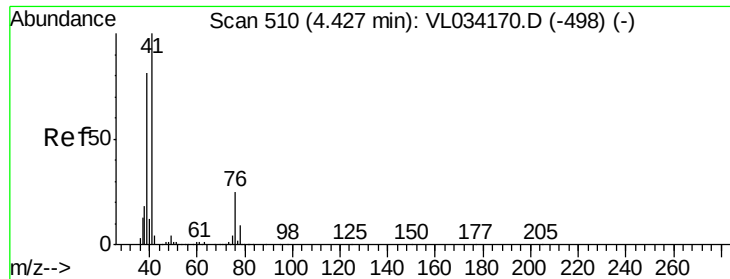
Tgt Ion: 45 Resp: 1039793  
Ion Ratio Lower Upper  
45 100  
58 1.7 1.4 2.0



#20  
Methylene Chloride  
Concen: 8.772 ppbv  
RT: 4.35 min Scan# 487  
Delta R.T. -0.00 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Tgt Ion: 84 Resp: 400590  
Ion Ratio Lower Upper  
84 100  
49 168.1 133.8 200.8  
51 51.1 43.6 65.4  
86 62.9 53.1 79.7





#21

Allyl Chloride

Concen: 10.123 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

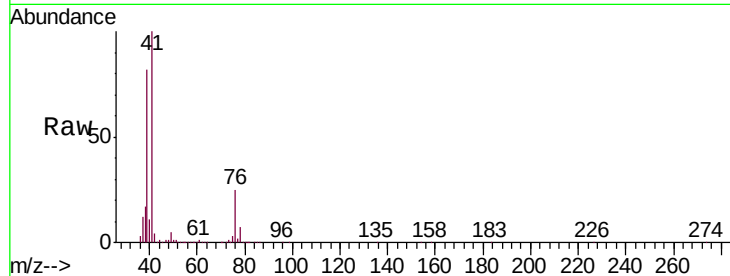
Tgt Ion: 41 Resp: 905610

Ion Ratio Lower Upper

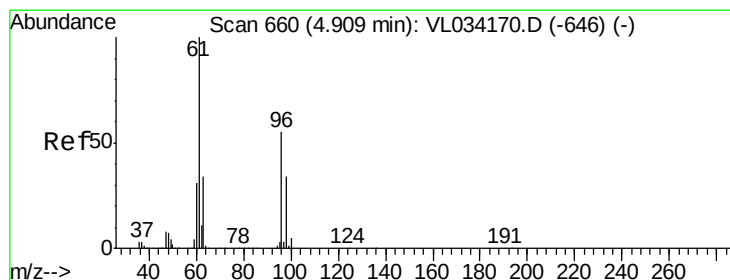
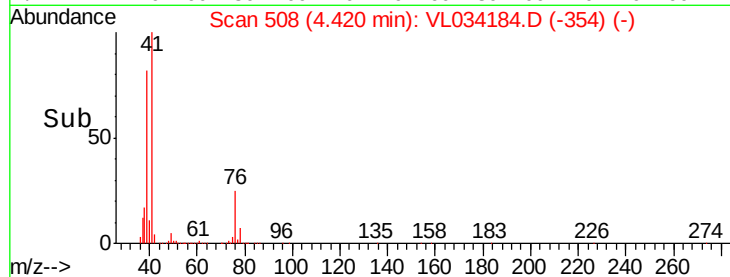
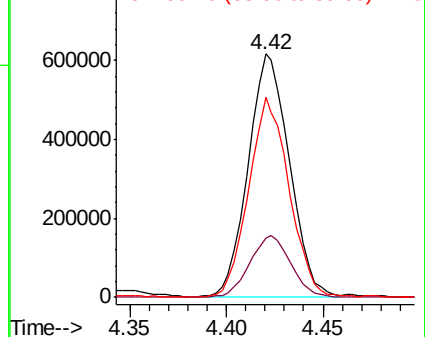
41 100

76 25.7 21.8 32.6

39 81.6 64.8 97.2



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: 9.951 ppbv

RT: 4.90 min Scan# 658

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

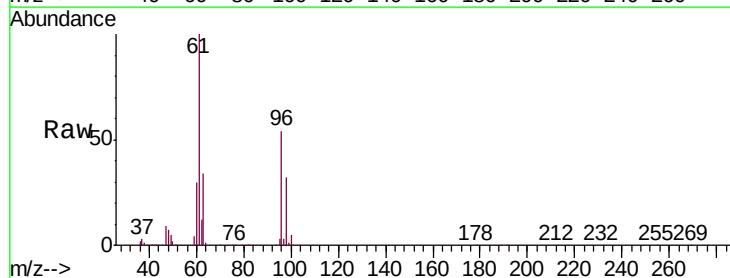
Tgt Ion: 96 Resp: 451572

Ion Ratio Lower Upper

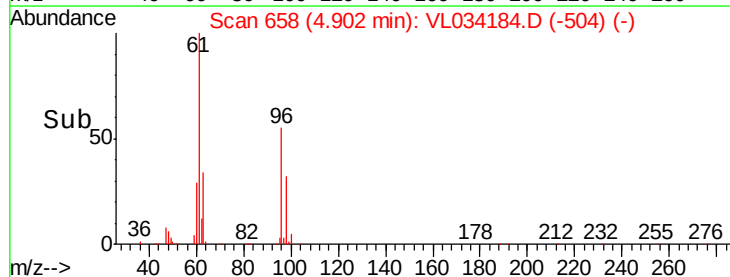
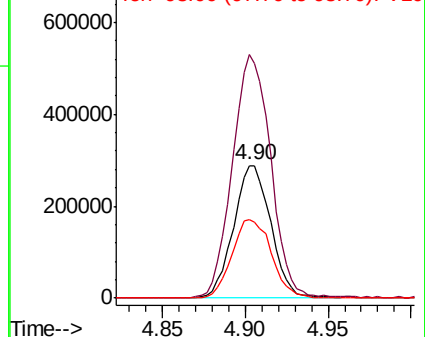
96 100

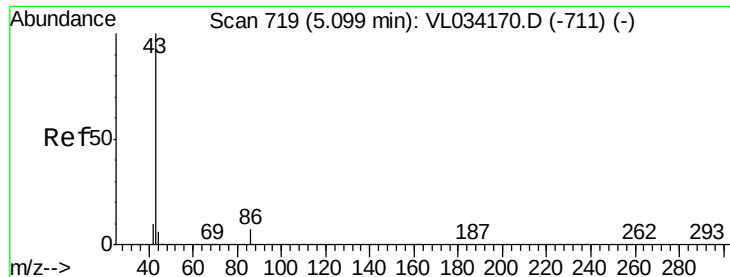
61 183.1 145.5 218.3

98 59.2 49.9 74.9



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: 9.603 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 43 Resp: 2241373

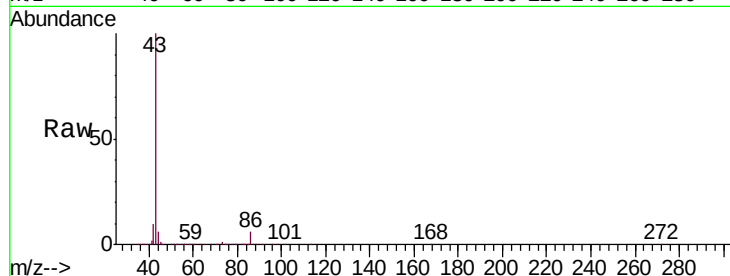
Ion Ratio Lower Upper

43 100

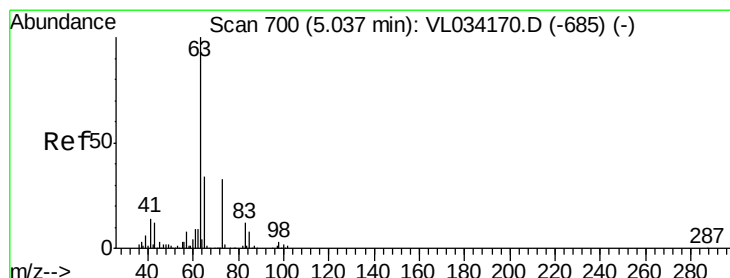
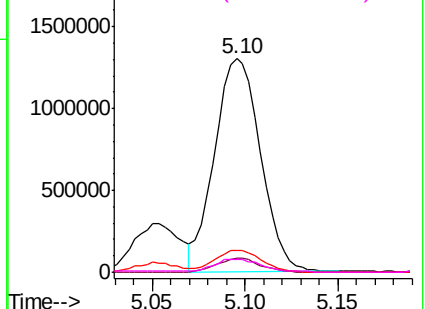
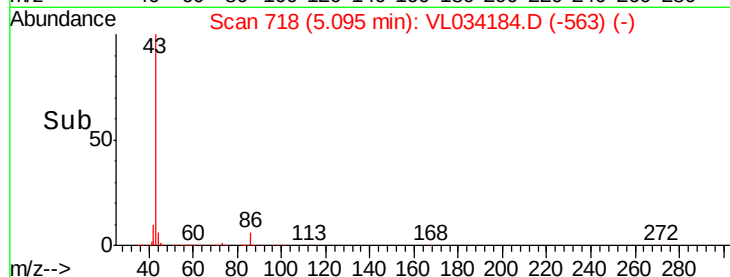
86 6.4 5.1 7.7

42 10.2 8.6 12.8

44 6.0 4.7 7.1



Abundance Ion 43.10 (42.80 to 43.80): VL0  
2000000 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: 9.391 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

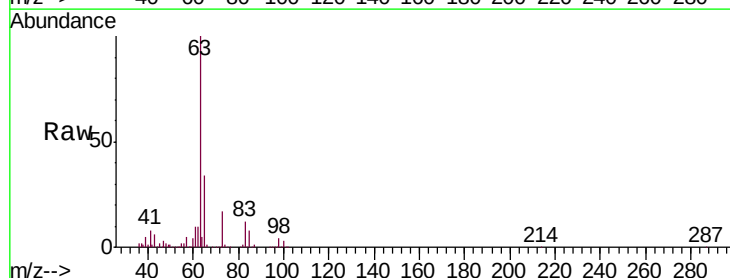
Tgt Ion: 63 Resp: 1475832

Ion Ratio Lower Upper

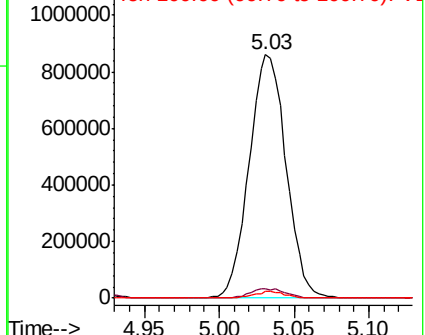
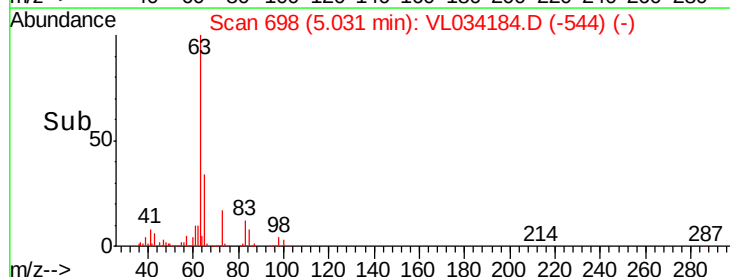
63 100

98 3.6 1.8 5.3

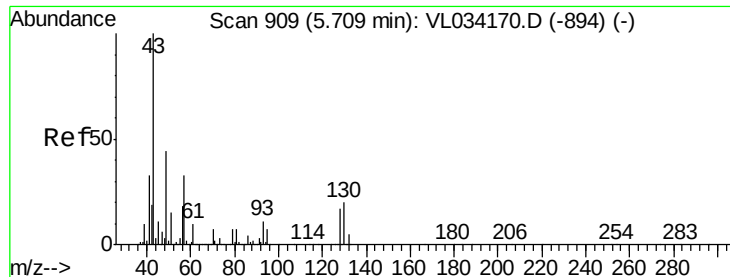
100 2.6 1.0 3.0



Abundance Ion 63.10 (62.80 to 63.80): VL0  
1200000 Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0





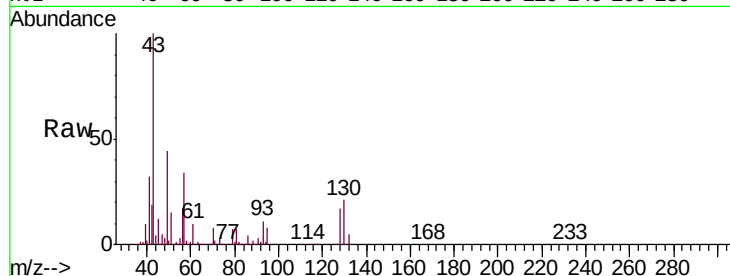


#25  
Ethyl Acetate  
Concen: 9.131 ppbv  
RT: 5.71 min Scan# 908  
Delta R.T. -0.00 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 43 Resp: 2734692

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.6  | 8.4   | 12.6  |
| 61  | 9.2   | 7.2   | 10.8  |
| 70  | 6.7   | 5.3   | 7.9   |



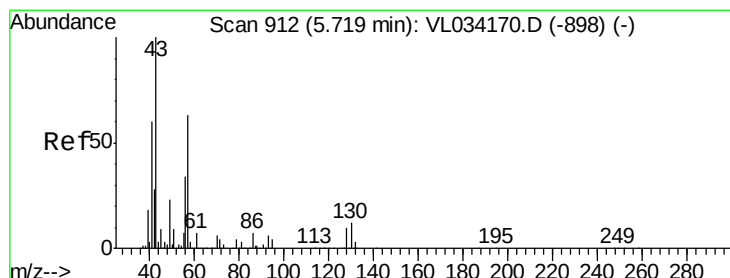
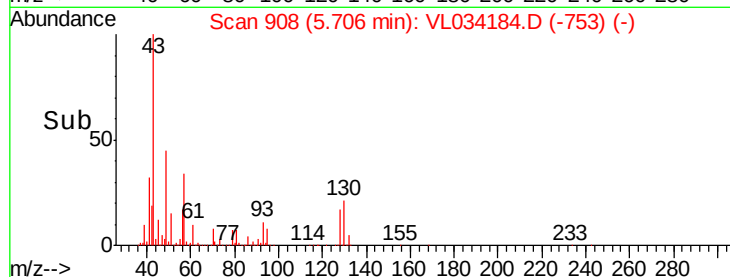
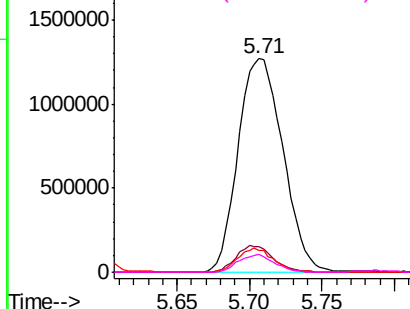
Abundance

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

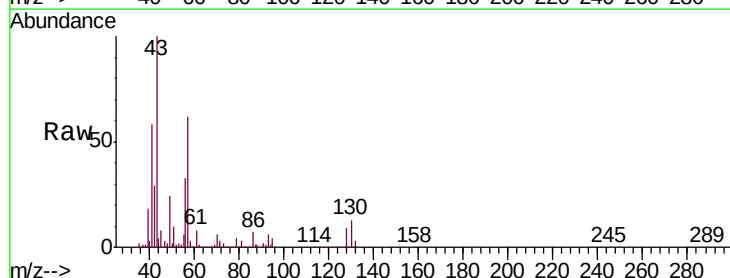
Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 9.227 ppbv  
RT: 5.72 min Scan# 911  
Delta R.T. -0.00 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Tgt Ion: 57 Resp: 1149632

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 97.8  | 78.5  | 117.7 |
| 43  | 239.8 | 189.5 | 284.3 |
| 56  | 53.7  | 43.2  | 64.8  |



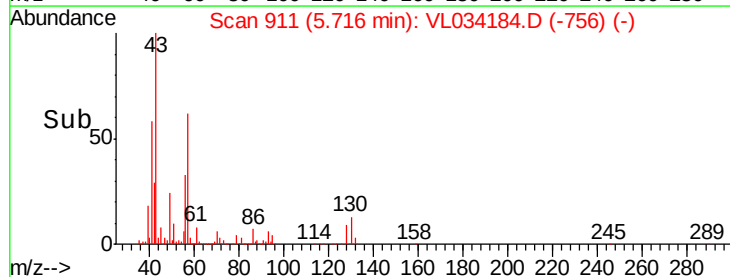
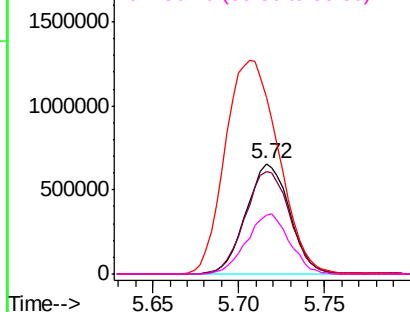
Abundance

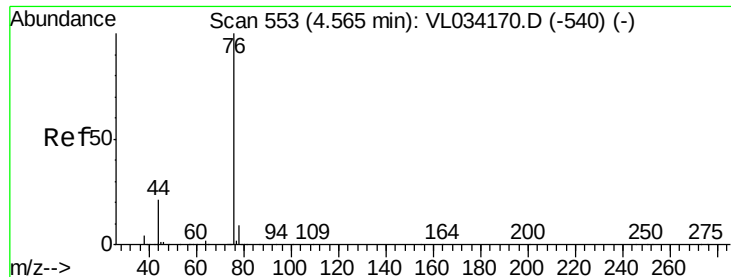
Ion 57.10 (56.80 to 57.80): VL0

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: 10.746 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

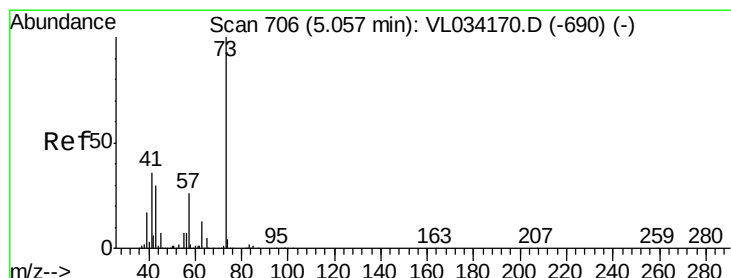
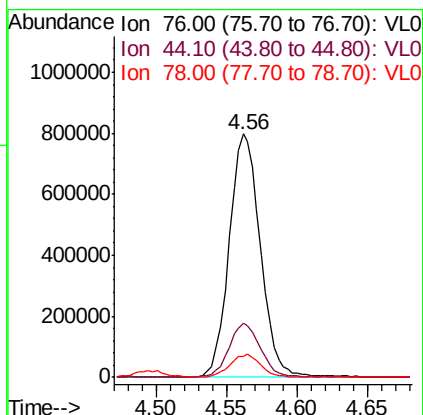
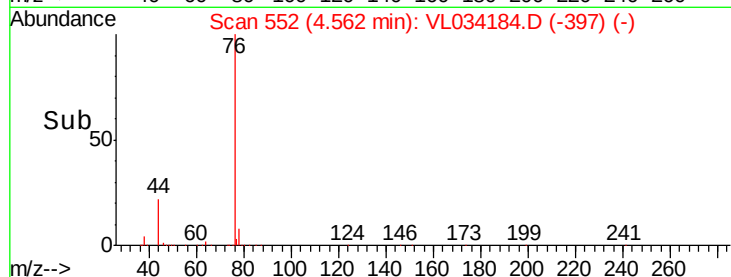
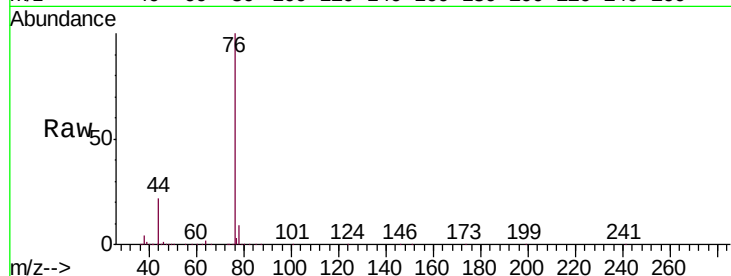
Tgt Ion: 76 Resp: 1234718

Ion Ratio Lower Upper

76 100

44 22.0 17.6 26.4

78 9.4 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 9.530 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL034184.D

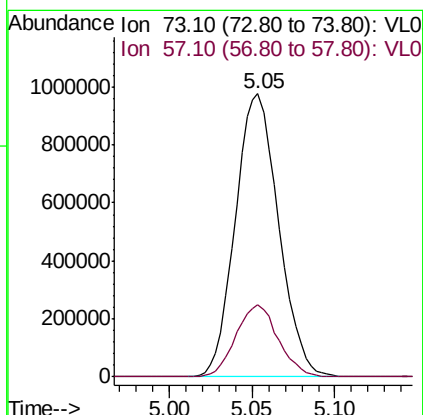
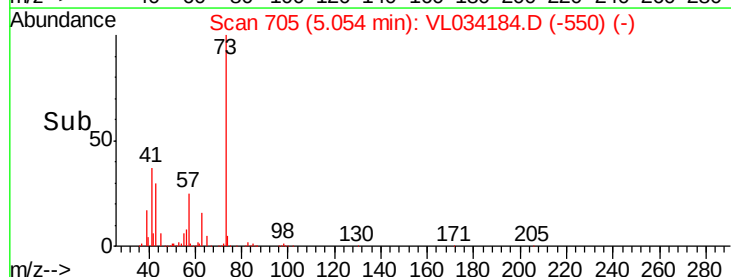
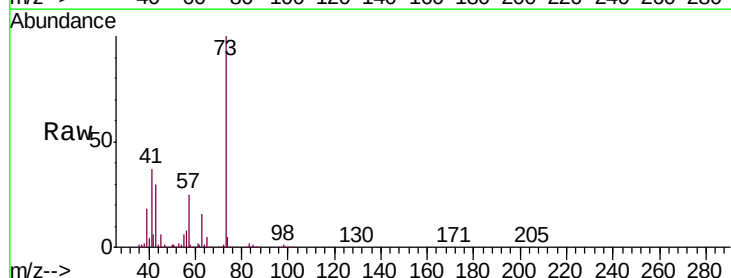
Acq: 18 Sep 2019 14:39

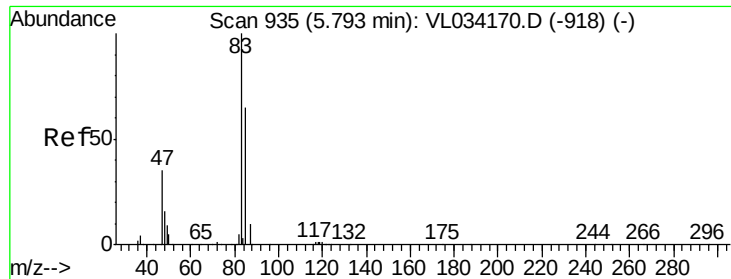
Tgt Ion: 73 Resp: 1763350

Ion Ratio Lower Upper

73 100

57 25.2 20.2 30.2

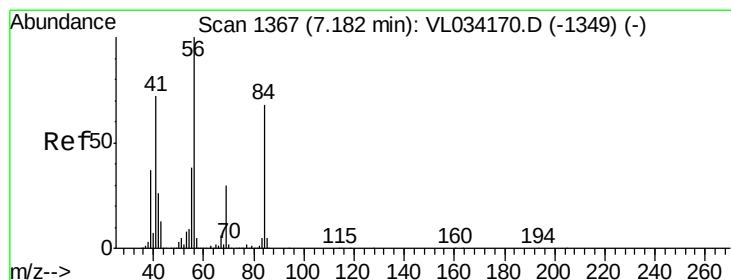
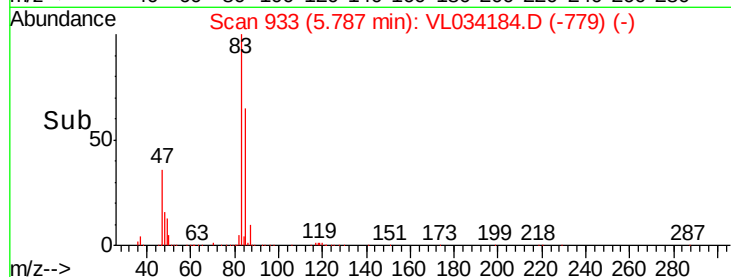
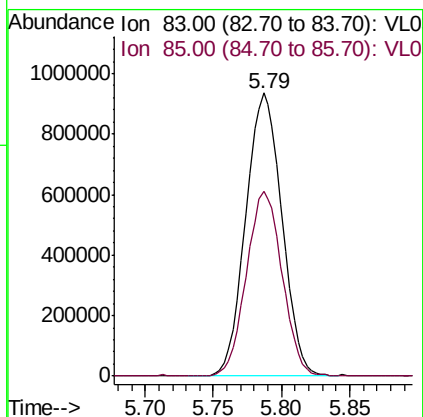
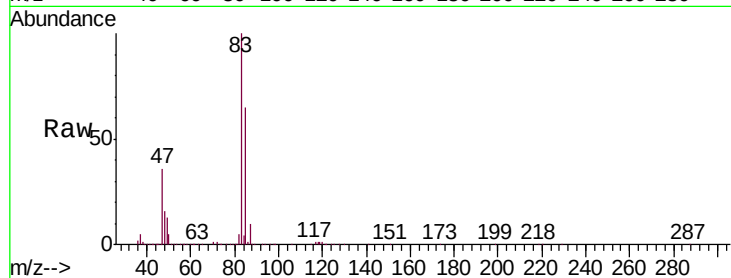




#29  
Chloroform  
Concen: 9.679 ppbv  
RT: 5.79 min Scan# 933  
Delta R.T. -0.01 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

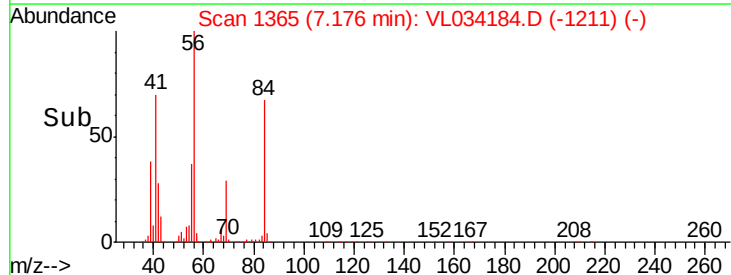
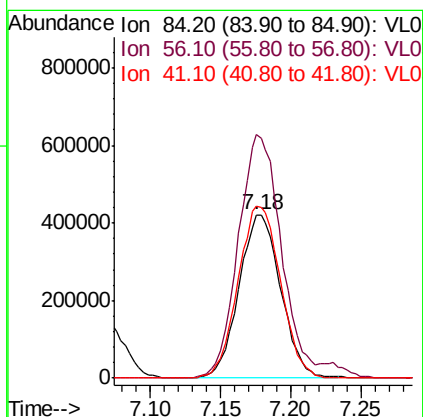
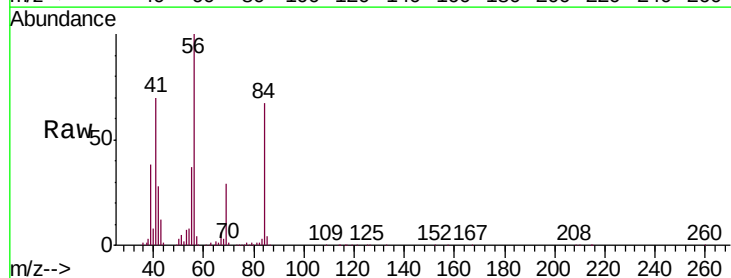
Instrument :  
MSVOA\_L  
ClientSampled :

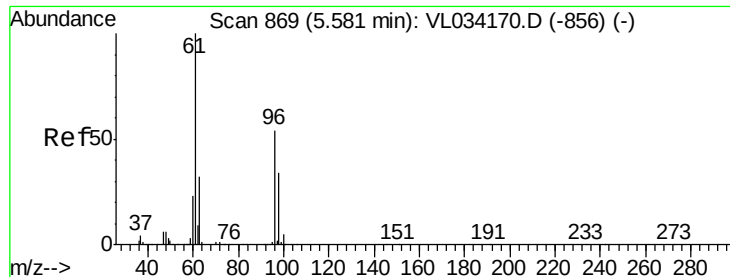
Tgt Ion: 83 Resp: 1723260  
Ion Ratio Lower Upper  
83 100  
85 65.0 52.3 78.5



#30  
Cyclohexane  
Concen: 9.693 ppbv  
RT: 7.18 min Scan# 1365  
Delta R.T. -0.01 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Tgt Ion: 84 Resp: 871839  
Ion Ratio Lower Upper  
84 100  
56 159.4 126.2 189.2  
41 107.8 85.8 128.8



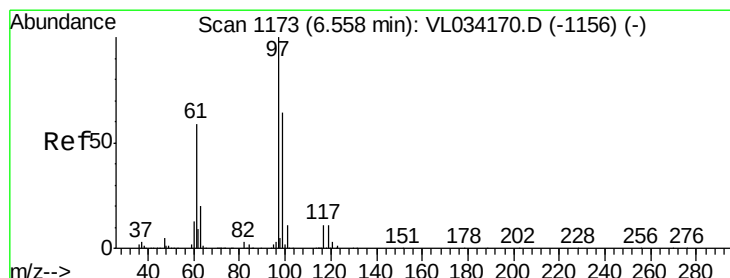
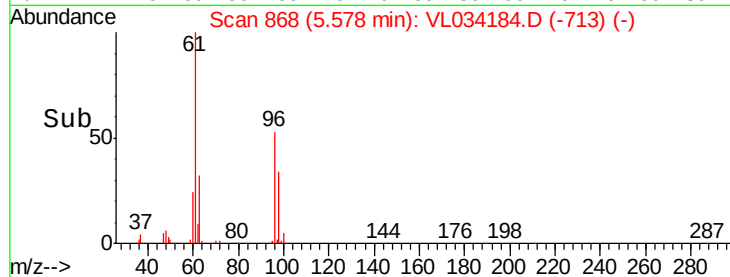
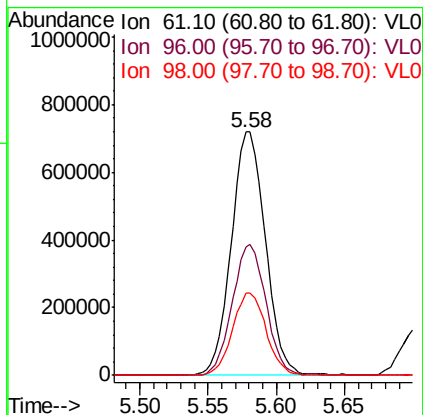
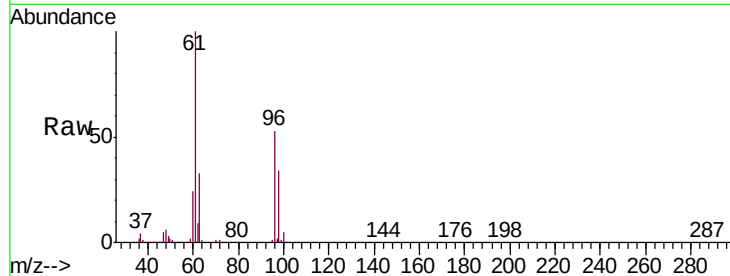


#31

cis-1,2-Dichloroethene  
 Concen: 9.854 ppbv  
 RT: 5.58 min Scan# 868  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Instrument :  
 MSVOA\_L  
 ClientSampleId :

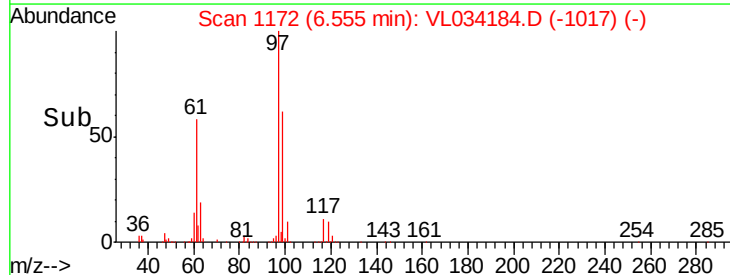
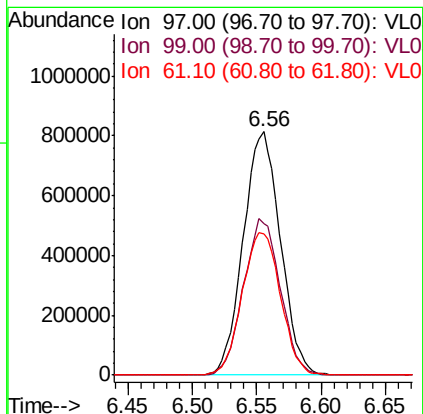
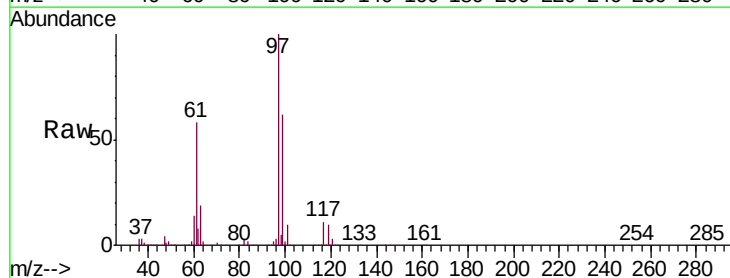
Tgt Ion: 61 Resp: 1251566  
 Ion Ratio Lower Upper  
 61 100  
 96 52.7 43.0 64.4  
 98 33.7 27.2 40.8

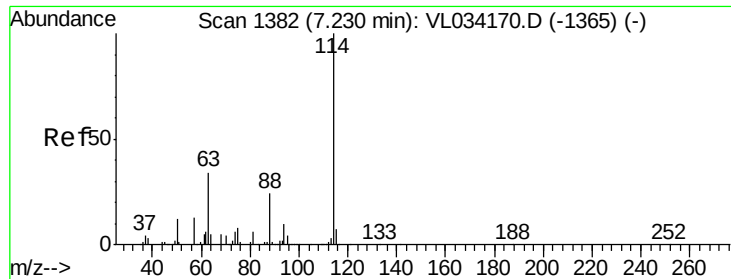


#32

1,1,1-Trichloroethane  
 Concen: 9.564 ppbv  
 RT: 6.56 min Scan# 1172  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion: 97 Resp: 1642082  
 Ion Ratio Lower Upper  
 97 100  
 99 63.7 51.4 77.2  
 61 60.3 48.4 72.6

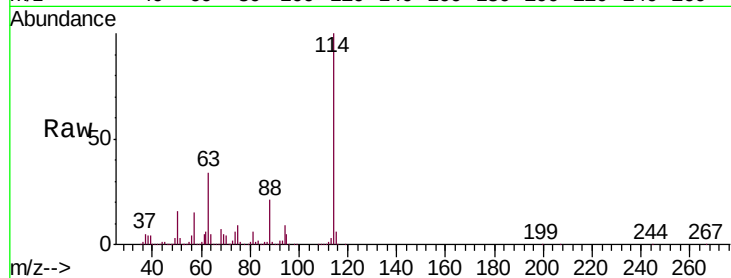




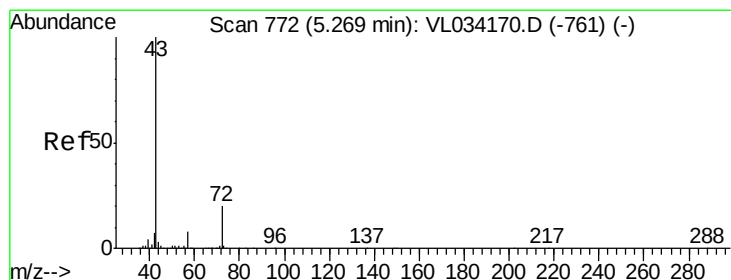
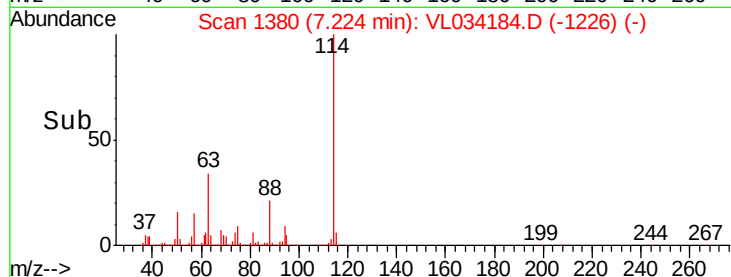
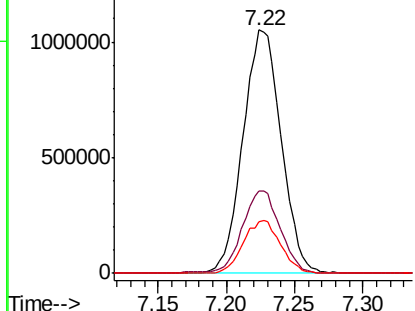
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.22 min Scan# 1380  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tgt Ion:114 Resp: 2043178  
 Ion Ratio Lower Upper  
 114 100  
 63 34.0 27.8 41.6  
 88 21.4 17.1 25.7

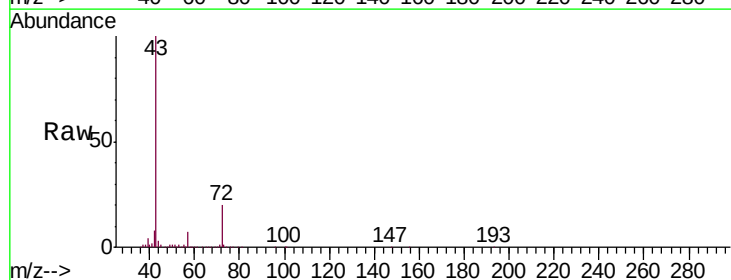


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

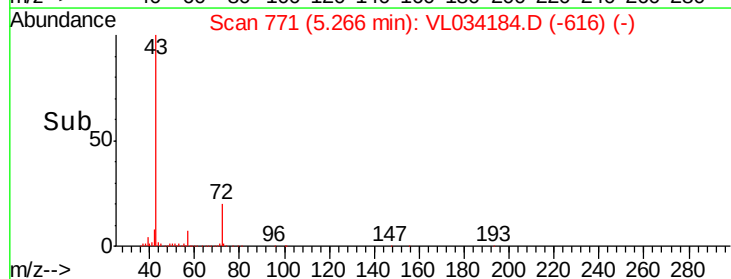
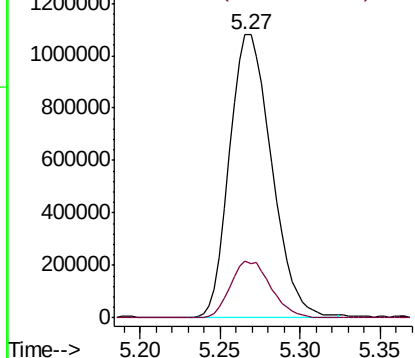


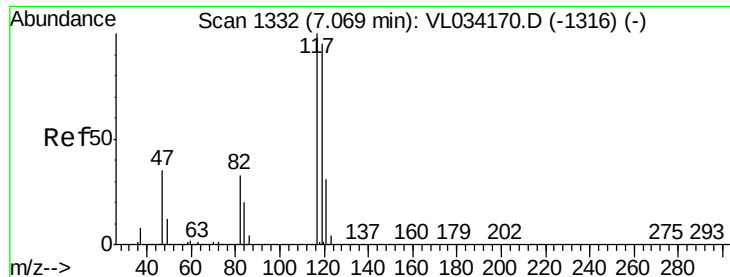
#34  
 2-Butanone  
 Concen: 9.285 ppbv  
 RT: 5.27 min Scan# 771  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion: 43 Resp: 1937007  
 Ion Ratio Lower Upper  
 43 100  
 72 19.4 15.0 22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.622 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

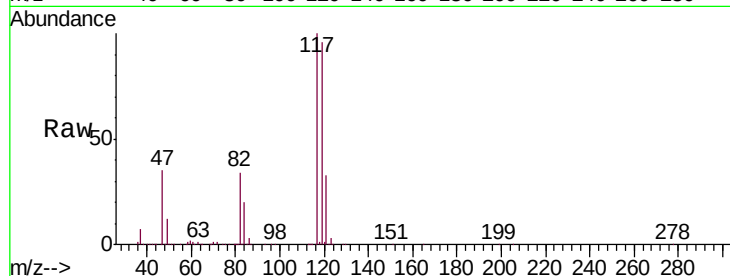
Tgt Ion:117 Resp: 1633296

Ion Ratio Lower Upper

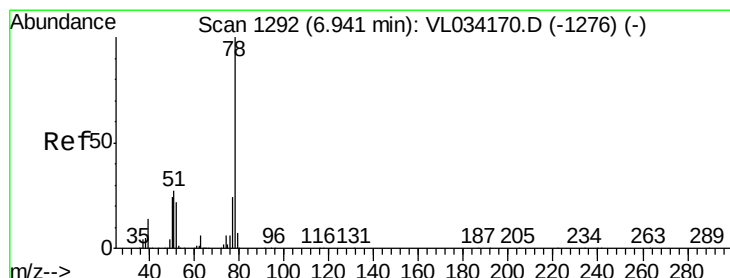
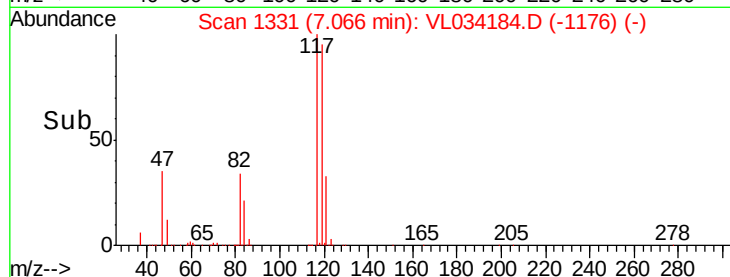
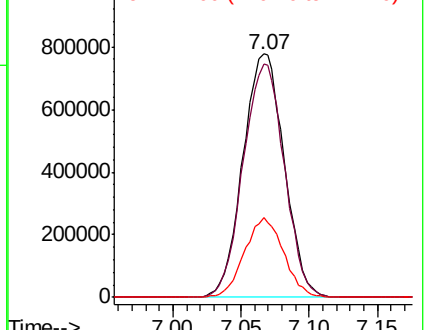
117 100

119 95.7 75.8 113.6

121 32.8 25.0 37.6



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: 9.279 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

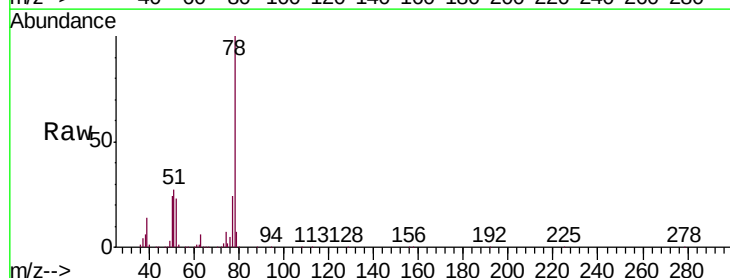
Tgt Ion: 78 Resp: 2093777

Ion Ratio Lower Upper

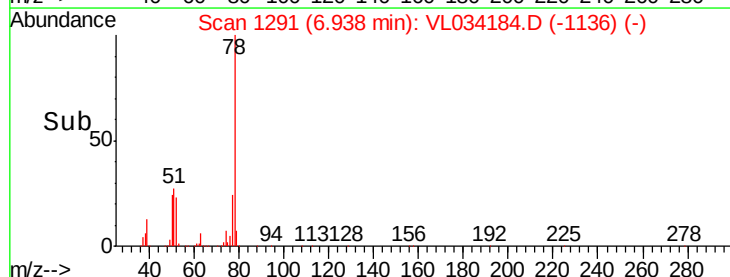
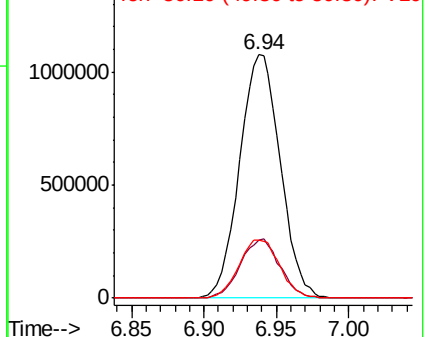
78 100

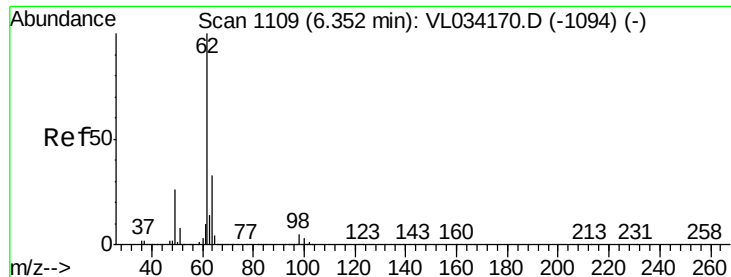
77 23.6 19.0 28.4

50 23.8 18.9 28.3



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: 9.724 ppbv

RT: 6.35 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

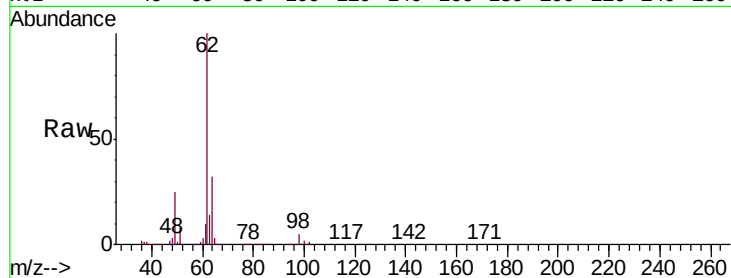
ClientSampled :

Tgt Ion: 62 Resp: 1560767

Ion Ratio Lower Upper

62 100

98 4.7 3.8 5.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

600000

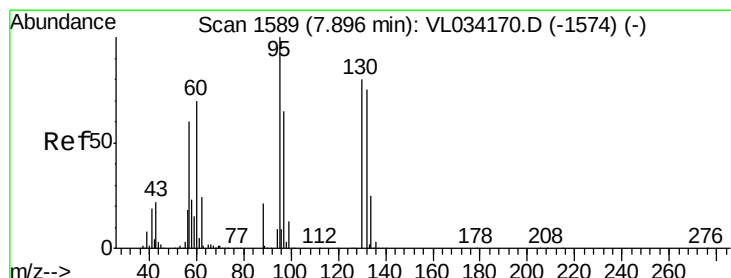
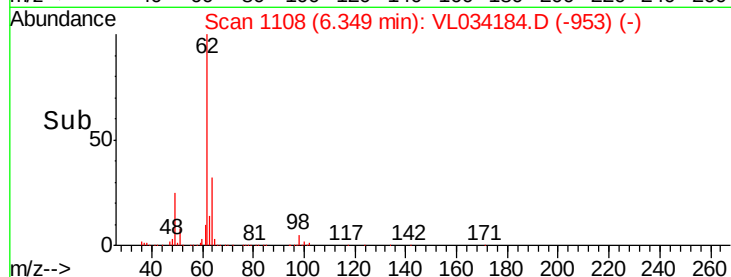
400000

200000

0

6.25 6.30 6.35 6.40

Time-->



#38

Trichloroethene

Concen: 8.744 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Tgt Ion: 130 Resp: 705019

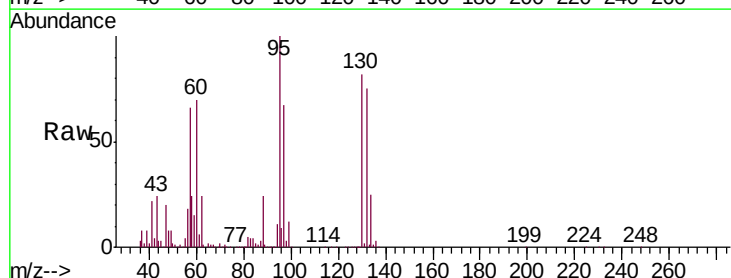
Ion Ratio Lower Upper

130 100

95 121.6 99.8 149.6

132 91.6 75.2 112.8

97 81.6 65.0 97.4



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

600000

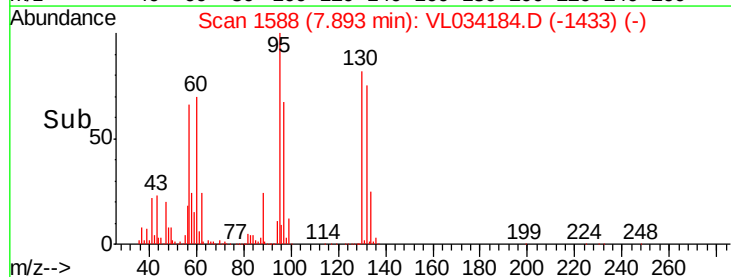
400000

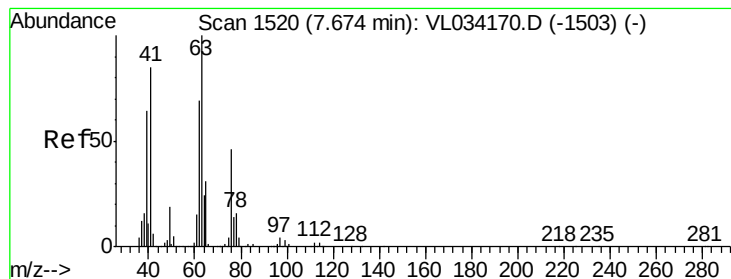
200000

0

7.80 7.85 7.90 7.95

Time-->

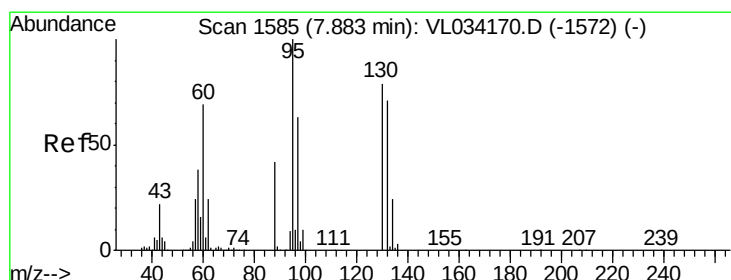
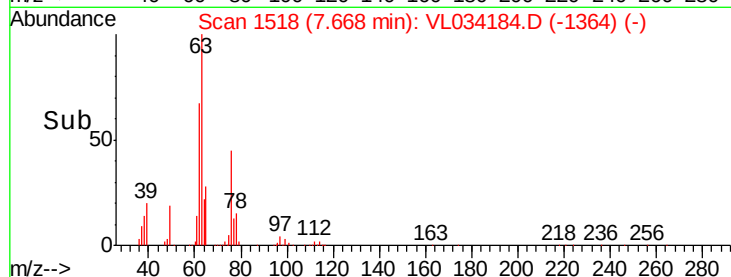
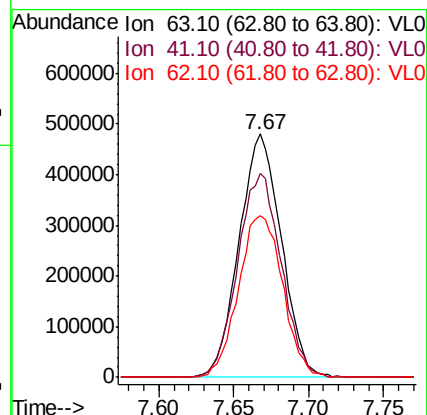
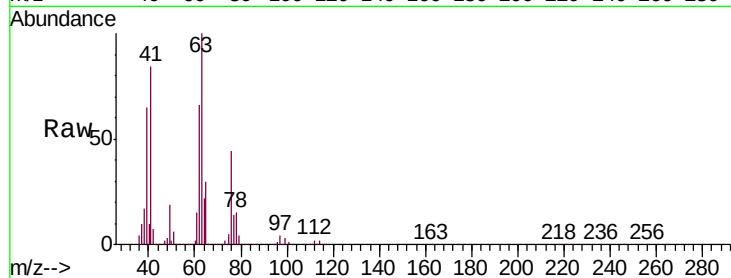




#39  
 1,2-Dichloropropane  
 Concen: 9.292 ppbv  
 RT: 7.67 min Scan# 1518  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

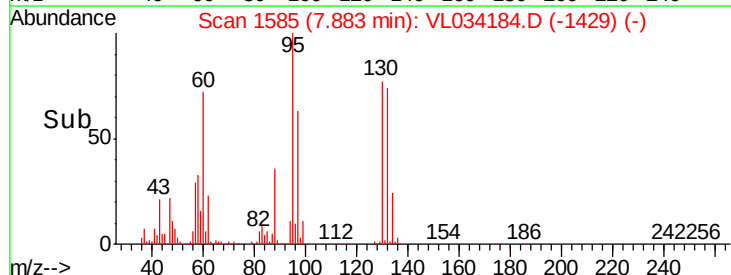
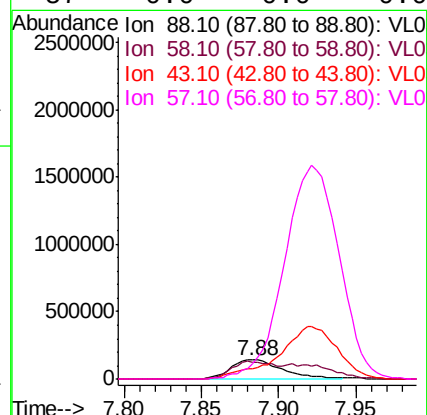
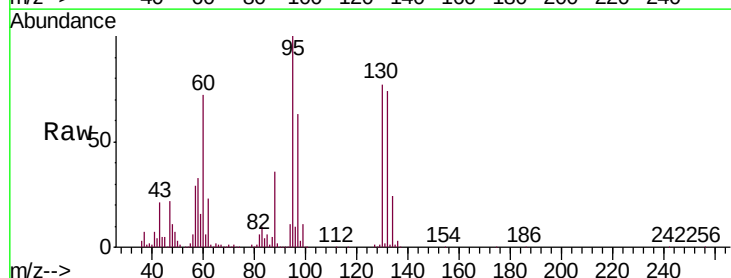
Instrument :  
 MSVOA\_L  
 ClientSampleId :

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 83.9  | 68.4  | 102.6 |
| 62      | 66.5  | 55.4  | 83.2  |

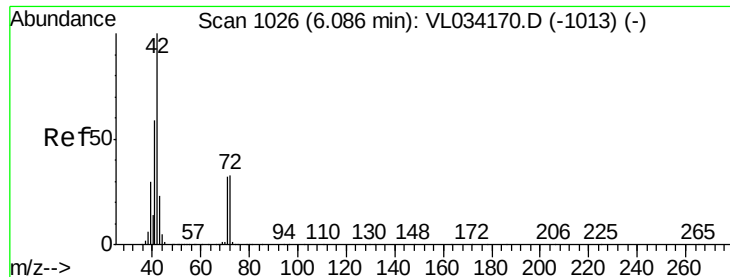


#40  
 1,4-Dioxane  
 Concen: 9.741 ppbv  
 RT: 7.88 min Scan# 1585  
 Delta R.T. 0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 153.7 | 131.8 | 197.6 |
| 43      | 0.0   | 0.0   | 0.0   |
| 57      | 0.0   | 0.0   | 0.0   |







#41

Tetrahydrofuran

Concen: 9.940 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

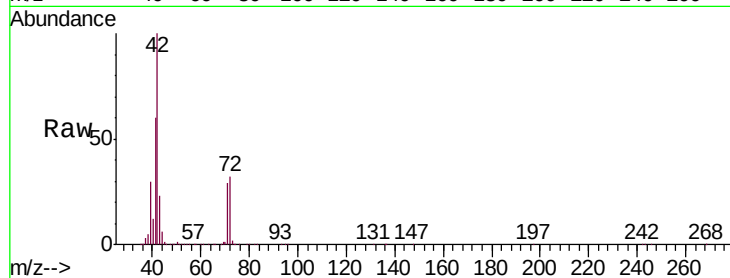
Tgt Ion: 42 Resp: 1167985

Ion Ratio Lower Upper

42 100

72 32.4 26.6 40.0

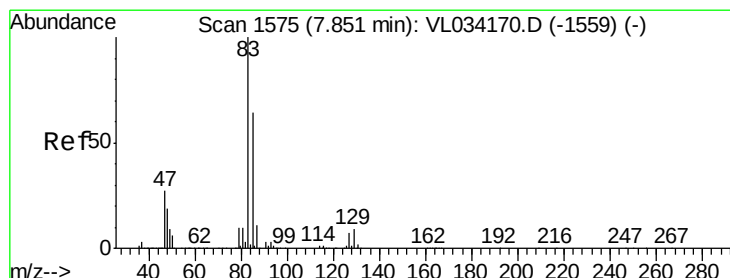
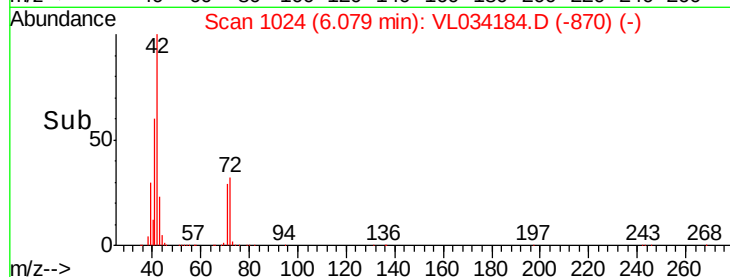
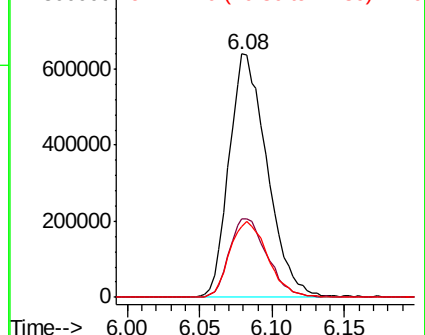
71 31.5 25.1 37.7



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: 9.860 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

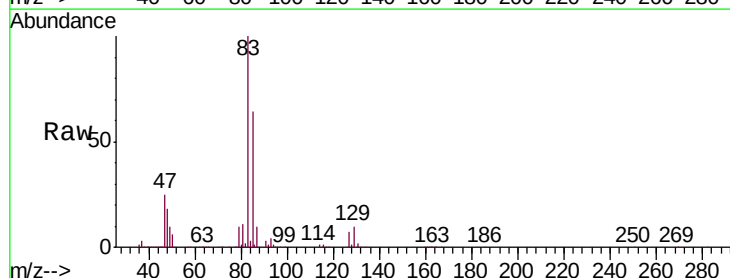
Tgt Ion: 83 Resp: 1899299

Ion Ratio Lower Upper

83 100

85 63.9 51.4 77.0

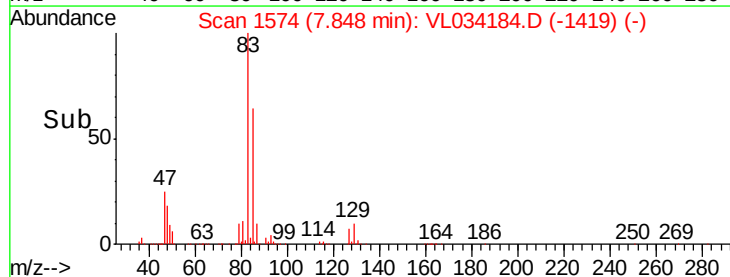
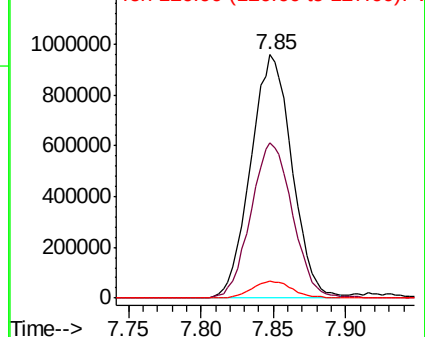
127 7.0 5.5 8.3

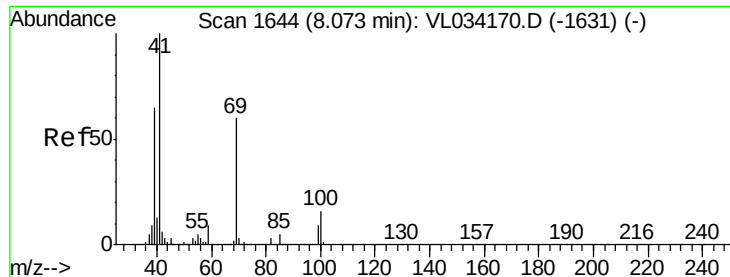


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

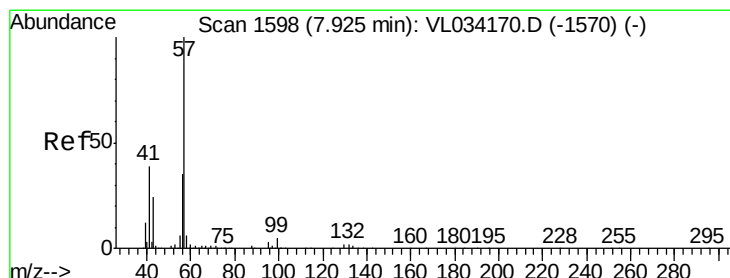
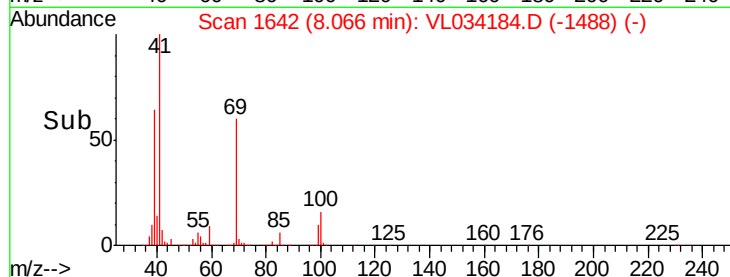
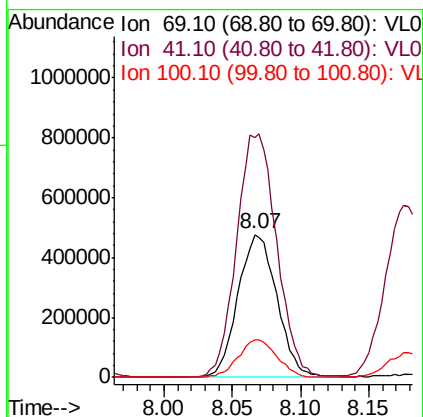
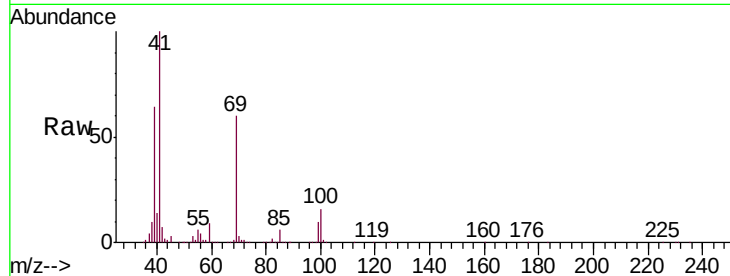




#43  
Methyl Methacrylate  
Concen: 10.168 ppbv  
RT: 8.07 min Scan# 1642  
Delta R.T. -0.01 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

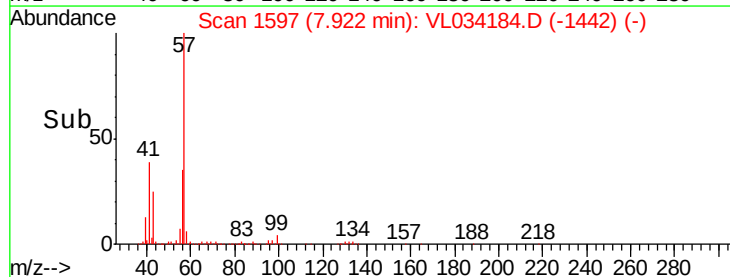
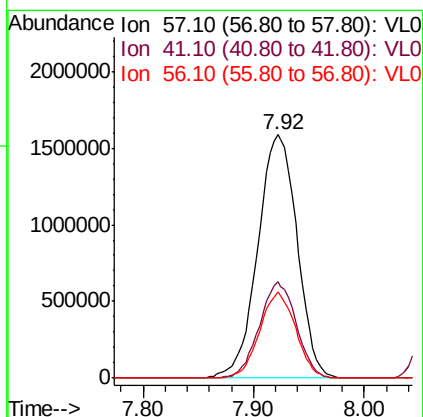
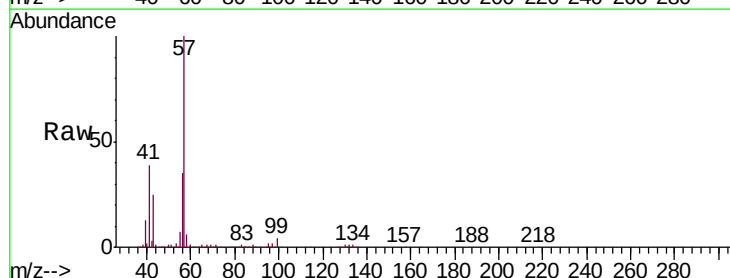
Instrument :  
MSVOA\_L  
ClientSampled :

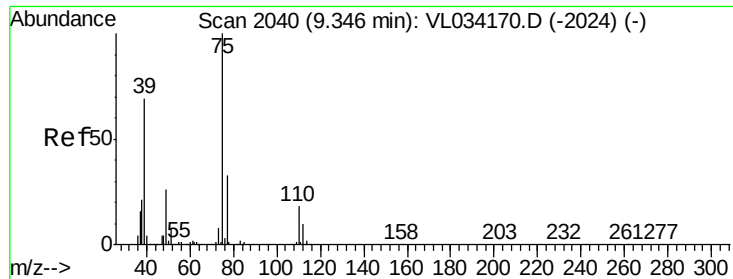
Tgt Ion: 69 Resp: 947849  
Ion Ratio Lower Upper  
69 100  
41 175.0 140.4 210.6  
100 26.1 21.9 32.9



#44  
2,2,4-Trimethylpentane  
Concen: 9.020 ppbv  
RT: 7.92 min Scan# 1597  
Delta R.T. -0.00 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Tgt Ion: 57 Resp: 3918320  
Ion Ratio Lower Upper  
57 100  
41 37.3 29.8 44.6  
56 32.4 25.9 38.9

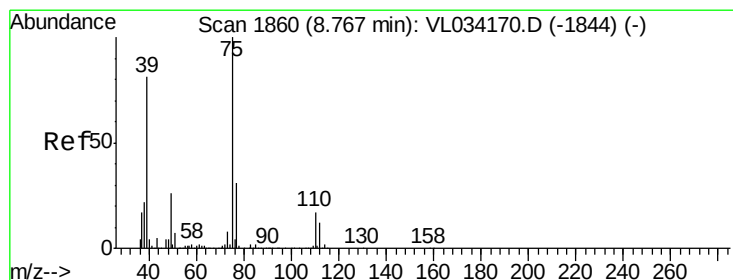
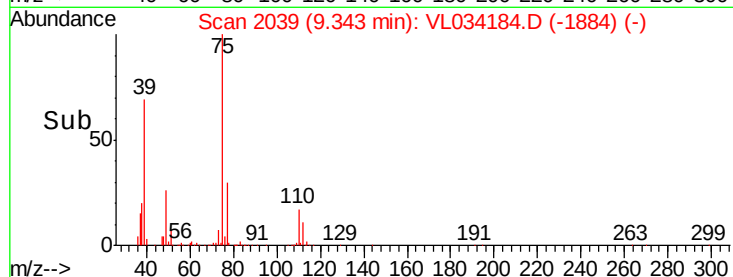
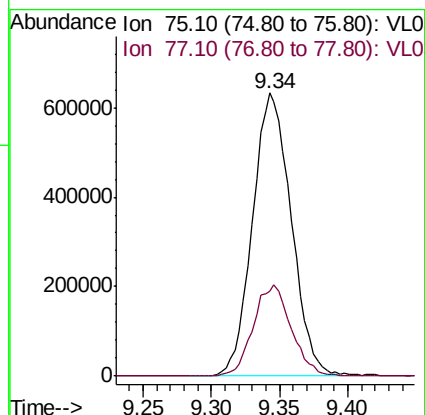
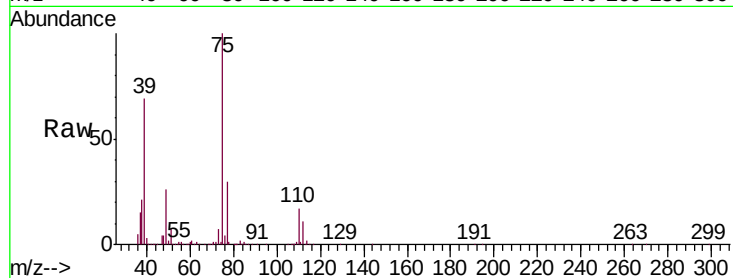




#45  
 t-1,3-Dichloropropene  
 Concen: 11.284 ppbv  
 RT: 9.34 min Scan# 2039  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

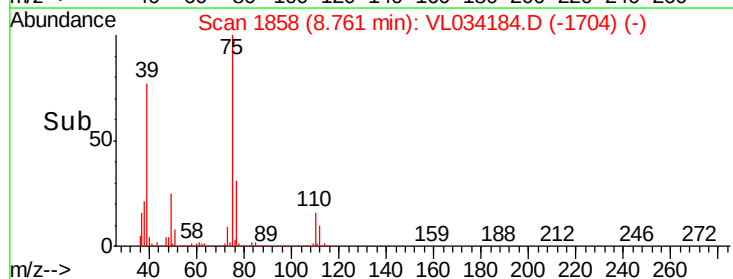
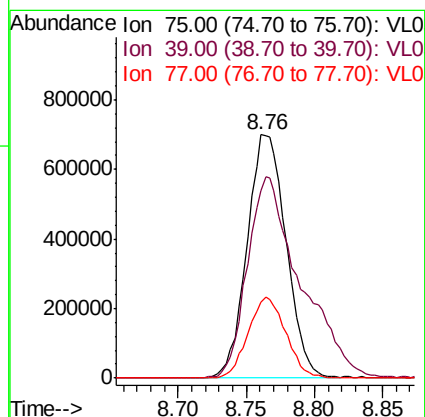
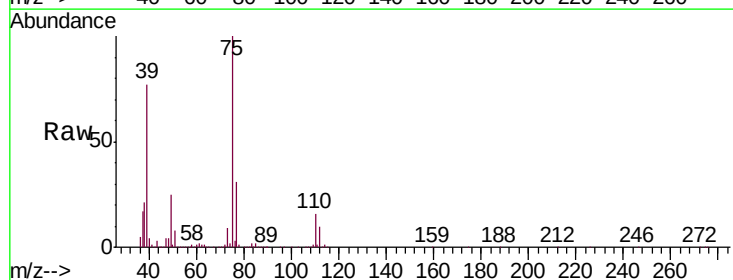
Instrument :  
 MSVOA\_L  
 ClientSampleId :

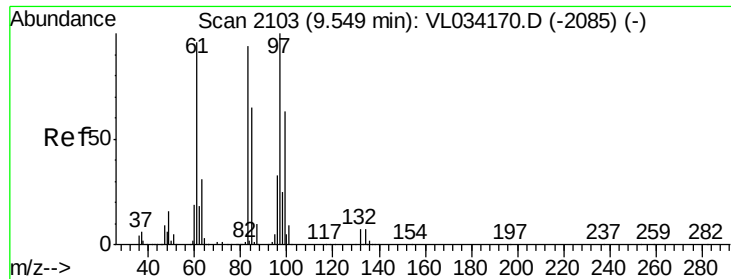
Tgt Ion: 75 Resp: 1243739  
 Ion Ratio Lower Upper  
 75 100  
 77 30.1 26.2 39.2



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.492 ppbv  
 RT: 8.76 min Scan# 1858  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion: 75 Resp: 1391093  
 Ion Ratio Lower Upper  
 75 100  
 39 77.1 65.0 97.4  
 77 31.1 24.5 36.7

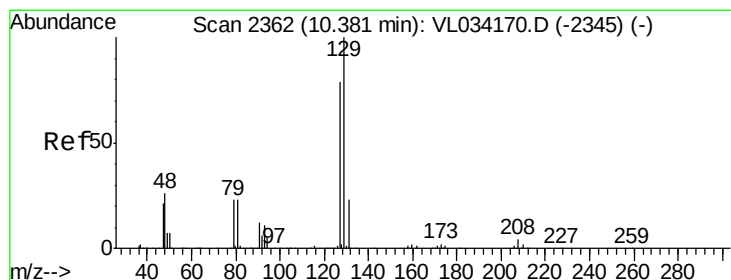
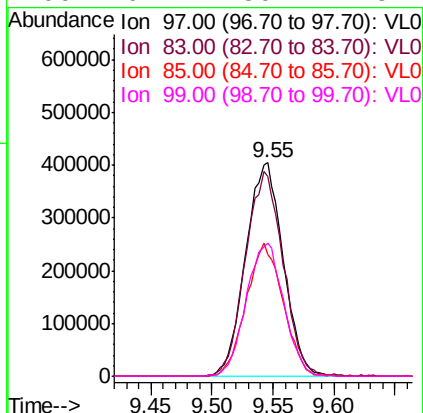
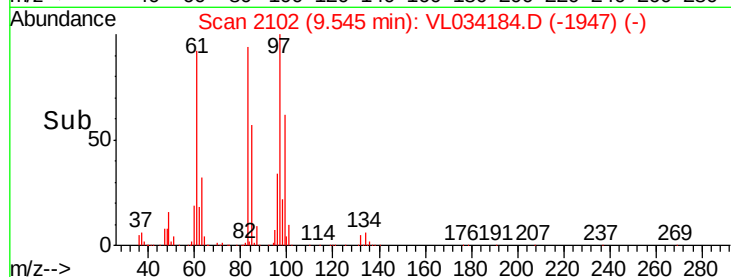
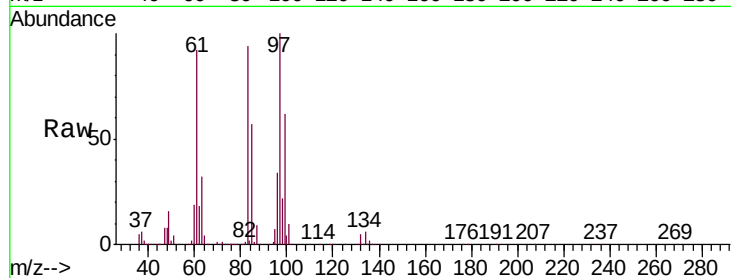




#47  
 1,1,2-Trichloroethane  
 Concen: 9.415 ppbv  
 RT: 9.55 min Scan# 2102  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

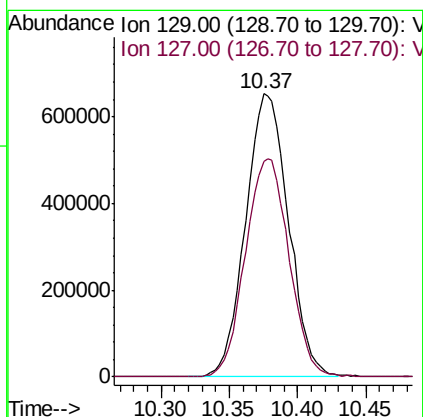
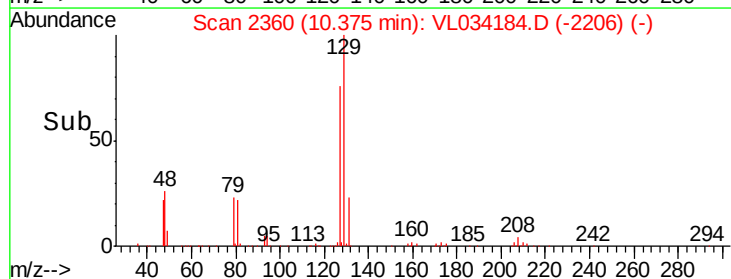
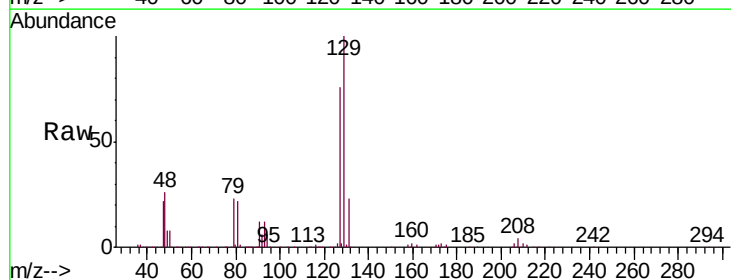
Instrument :  
 MSVOA\_L  
 ClientSampleId :

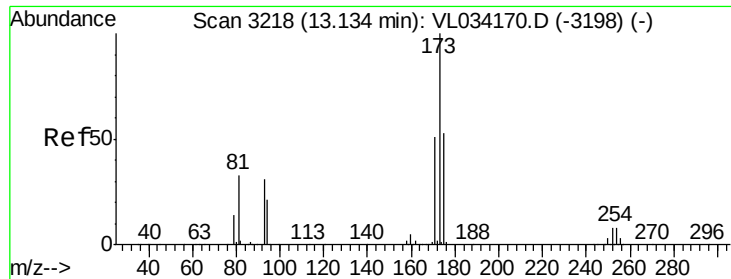
Tgt Ion: 97 Resp: 857176  
 Ion Ratio Lower Upper  
 97 100  
 83 93.7 75.3 112.9  
 85 56.8 52.1 78.1  
 99 62.4 50.2 75.2



#48  
 Dibromochloromethane  
 Concen: 9.852 ppbv  
 RT: 10.37 min Scan# 2360  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion: 129 Resp: 1421630  
 Ion Ratio Lower Upper  
 129 100  
 127 78.9 39.2 117.6





#49

Bromoform

Concen: 10.272 ppbv

RT: 13.13 min Scan# 3216

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

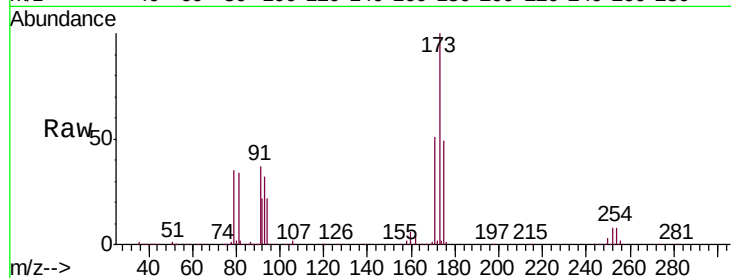
Tgt Ion:173 Resp: 1199470

Ion Ratio Lower Upper

173 100

175 49.9 40.3 60.5

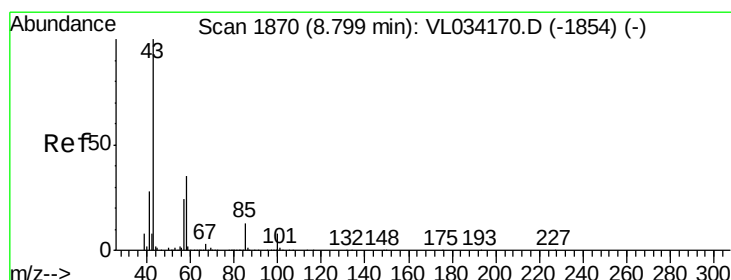
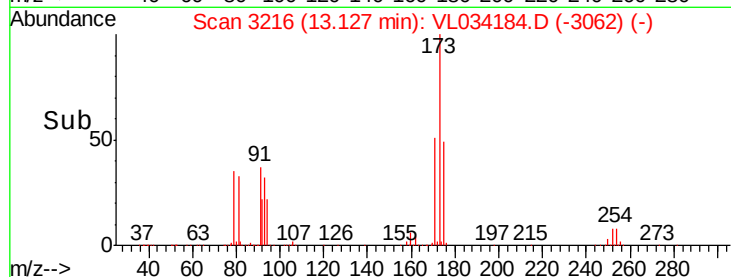
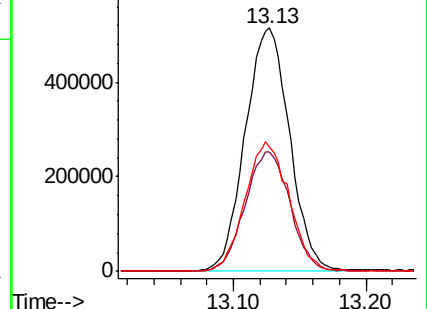
171 53.0 42.0 63.0



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: 9.365 ppbv

RT: 8.80 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VL034184.D

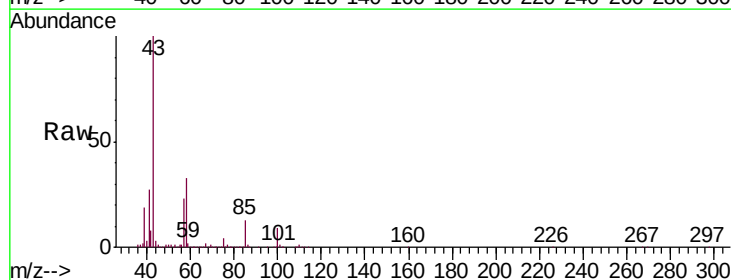
Acq: 18 Sep 2019 14:39

Tgt Ion: 43 Resp: 2843468

Ion Ratio Lower Upper

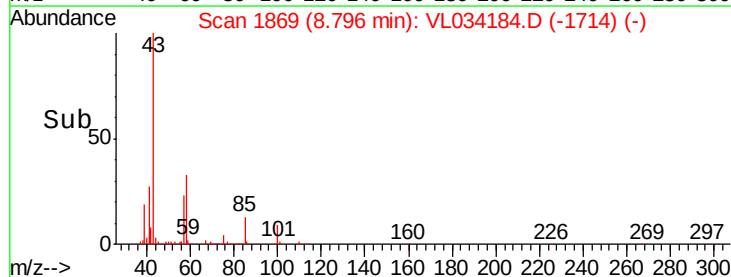
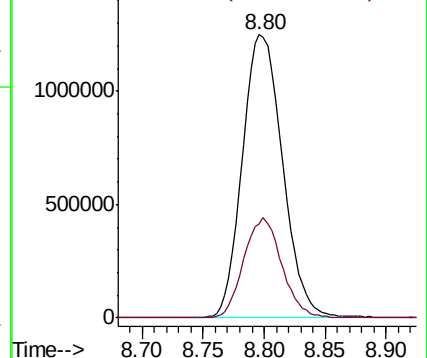
43 100

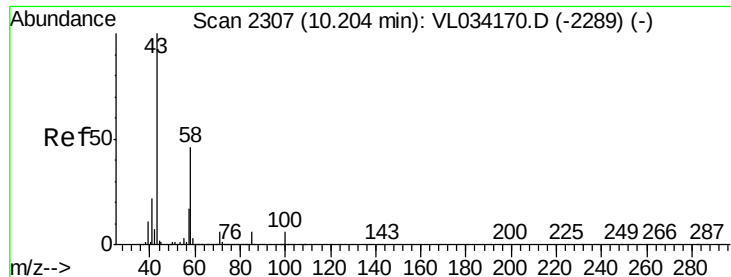
58 33.5 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

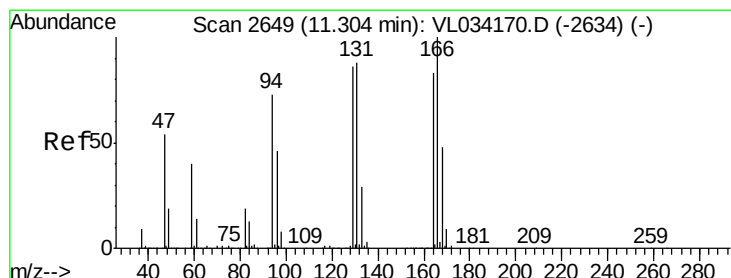
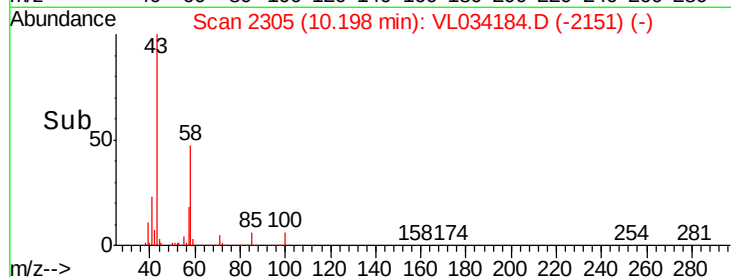
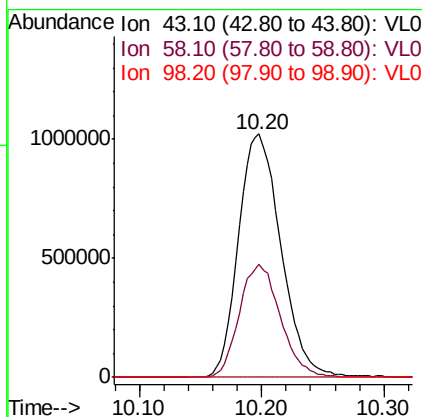
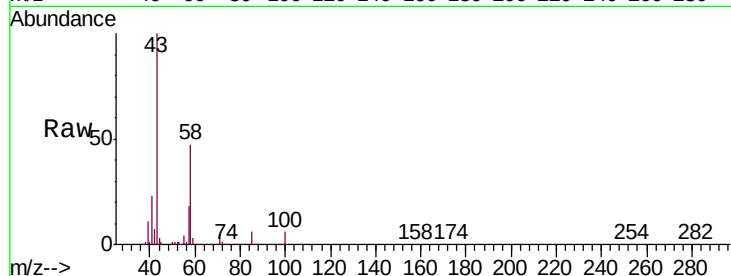




#51  
2-Hexanone  
Concen: 9.611 ppbv  
RT: 10.20 min Scan# 2305  
Delta R.T. -0.01 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

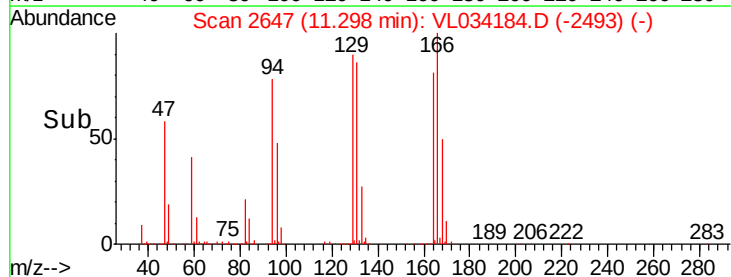
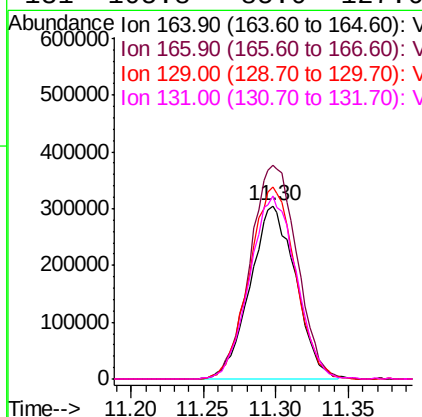
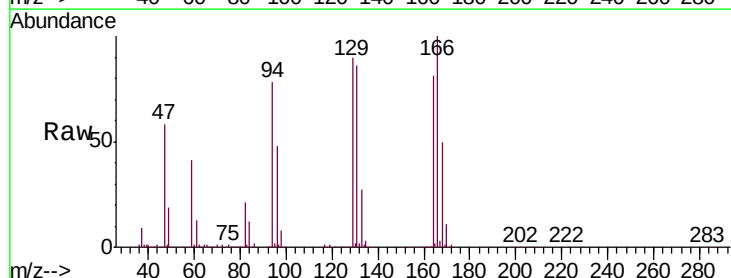
Instrument :  
MSVOA\_L  
ClientSampled :

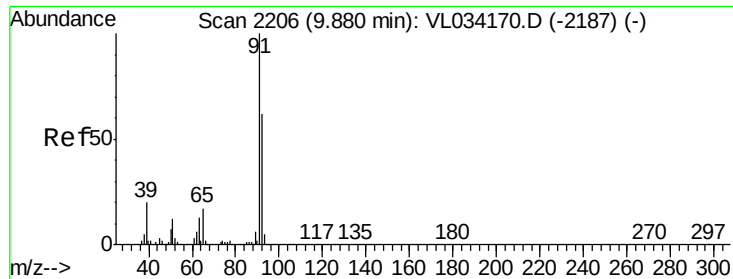
Tgt Ion: 43 Resp: 2448891  
Ion Ratio Lower Upper  
43 100  
58 45.3 36.2 54.4  
98 0.1 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 8.933 ppbv  
RT: 11.30 min Scan# 2647  
Delta R.T. -0.01 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Tgt Ion: 164 Resp: 666001  
Ion Ratio Lower Upper  
164 100  
166 123.4 96.7 145.1  
129 111.4 82.8 124.2  
131 105.8 85.0 127.6





#53

Toluene

Concen: 9.643 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

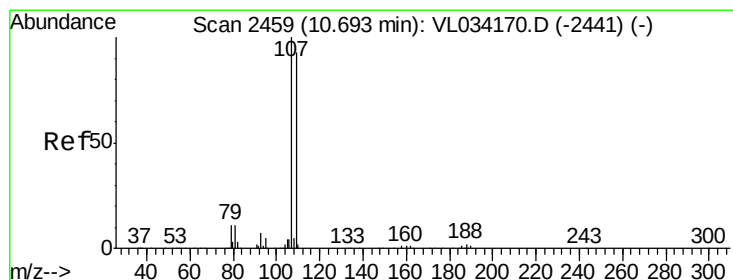
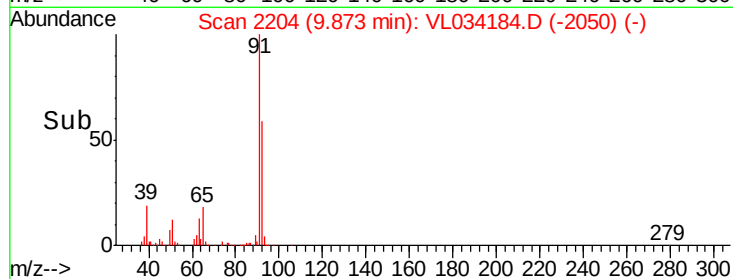
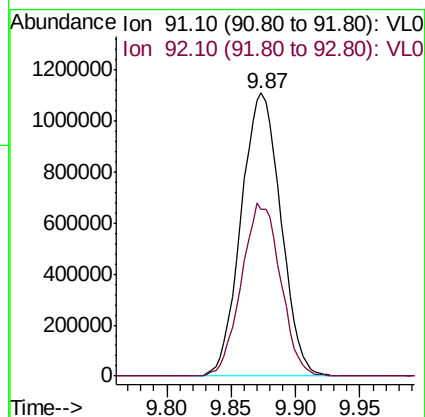
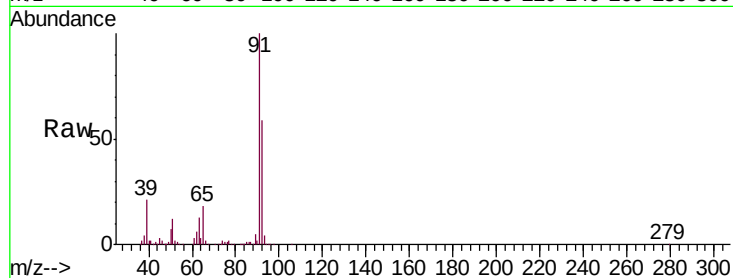
ClientSampleId :

Tgt Ion: 91 Resp: 2378162

Ion Ratio Lower Upper

91 100

92 60.2 49.0 73.6



#54

1,2-Dibromoethane

Concen: 9.478 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. -0.01 min

Lab File: VL034184.D

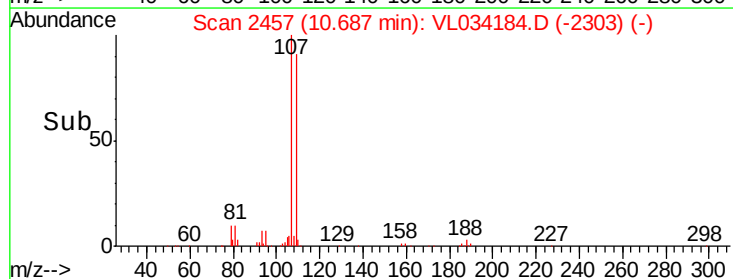
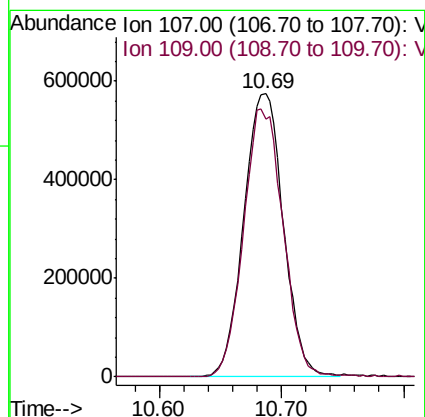
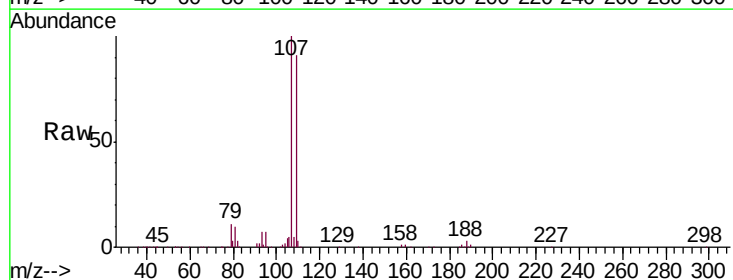
Acq: 18 Sep 2019 14:39

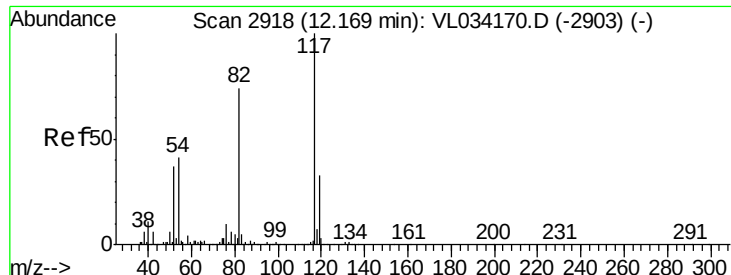
Tgt Ion: 107 Resp: 1283265

Ion Ratio Lower Upper

107 100

109 91.2 74.5 111.7

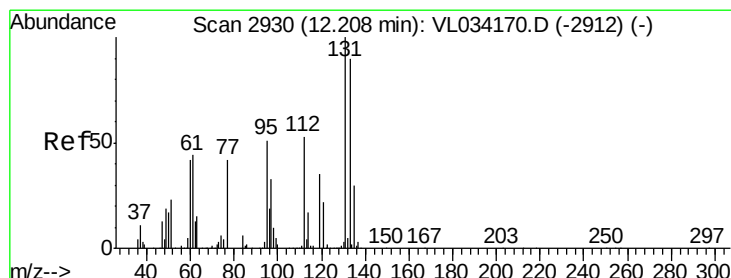
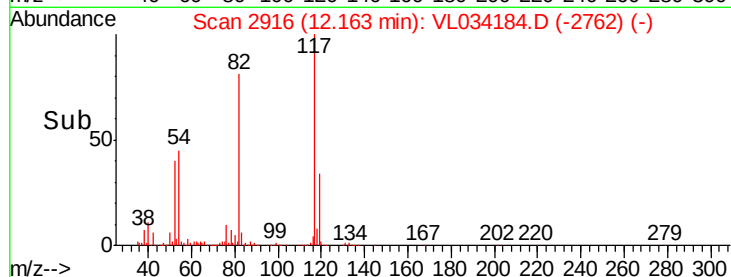
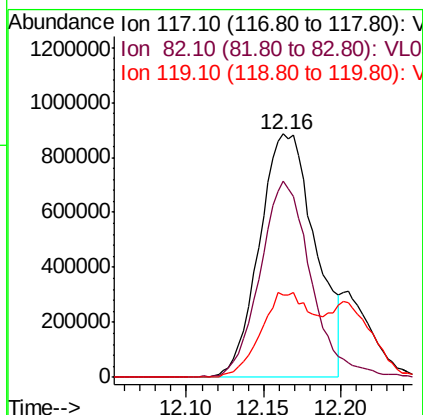
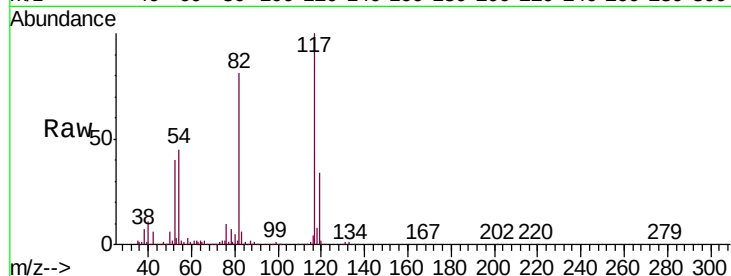




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.16 min Scan# 2916  
Delta R.T. -0.01 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

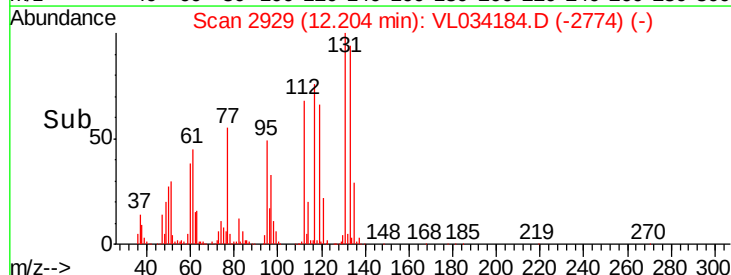
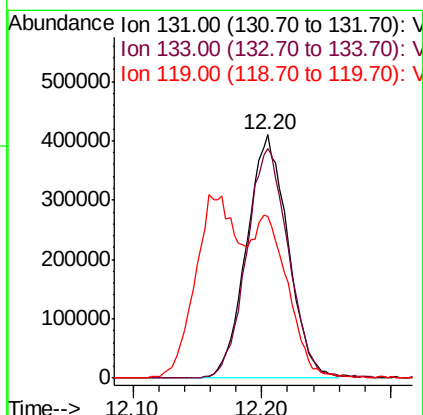
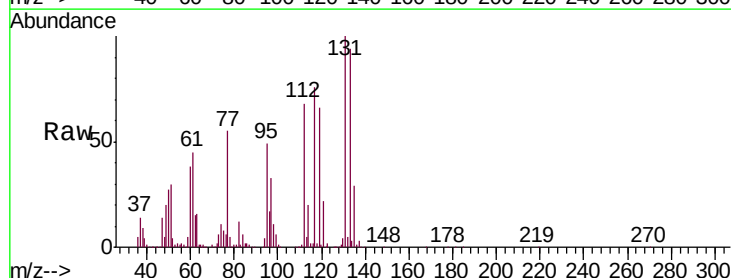
Instrument :  
MSVOA\_L  
ClientSampled :

Tgt Ion:117 Resp: 2231487  
Ion Ratio Lower Upper  
117 100  
82 73.6 58.2 87.4  
119 33.1 23.7 35.5

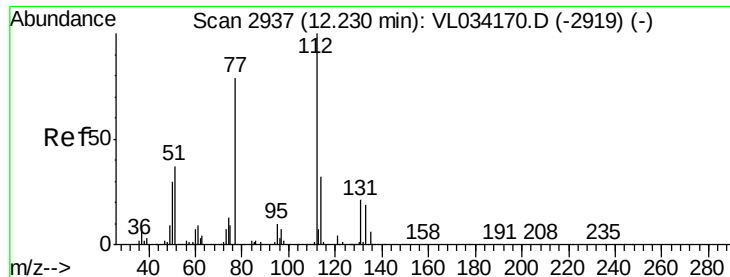


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.192 ppbv  
RT: 12.20 min Scan# 2929  
Delta R.T. -0.00 min  
Lab File: VL034184.D  
Acq: 18 Sep 2019 14:39

Tgt Ion:131 Resp: 914756  
Ion Ratio Lower Upper  
131 100  
133 96.6 75.1 112.7  
119 139.0 47.4 71.0#







#57

Chlorobenzene

Concen: 8.632 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampled :

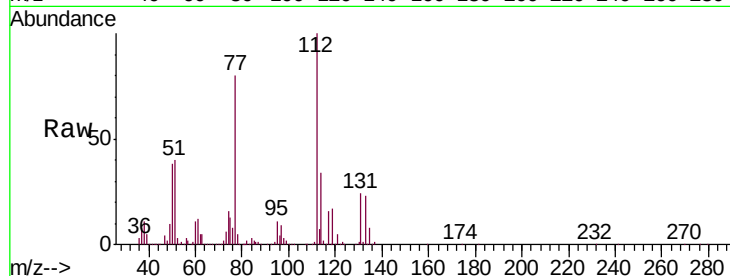
Tgt Ion: 112 Resp: 1677142

Ion Ratio Lower Upper

112 100

77 79.5 64.3 96.5

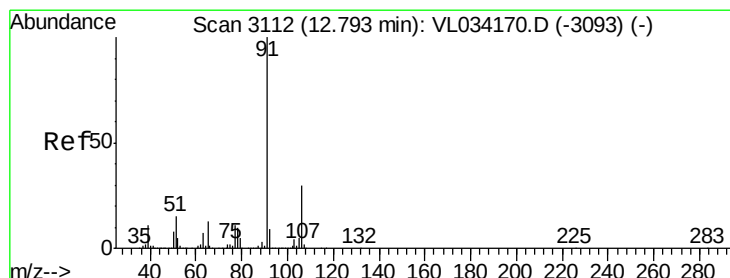
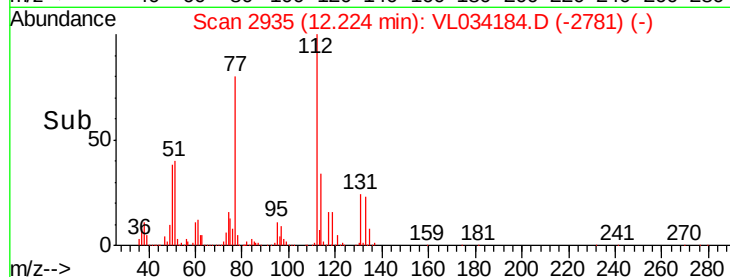
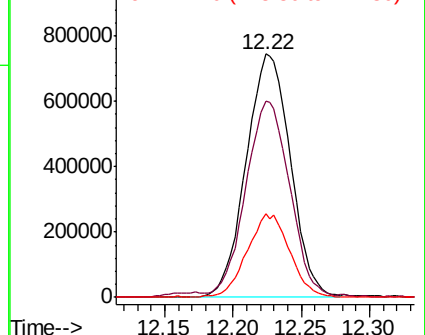
114 34.0 28.9 35.3



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: 8.957 ppbv

RT: 12.79 min Scan# 3111

Delta R.T. -0.00 min

Lab File: VL034184.D

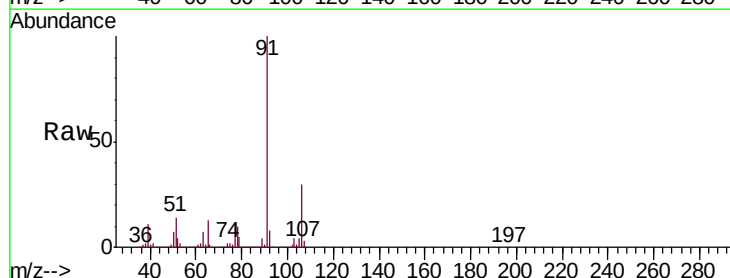
Acq: 18 Sep 2019 14:39

Tgt Ion: 91 Resp: 3224901

Ion Ratio Lower Upper

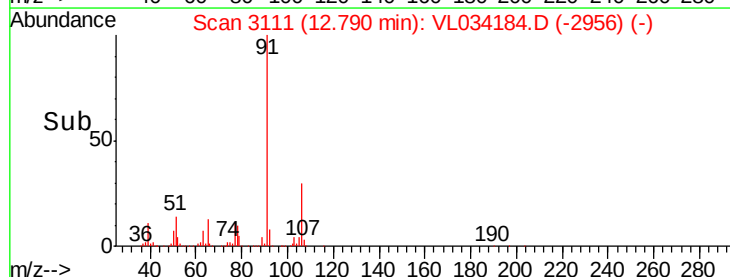
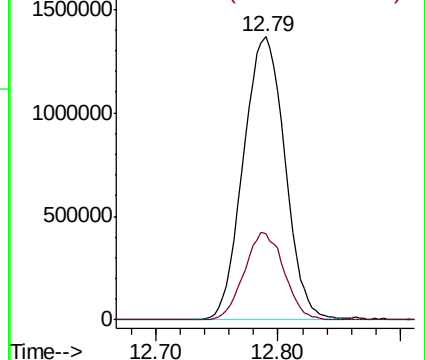
91 100

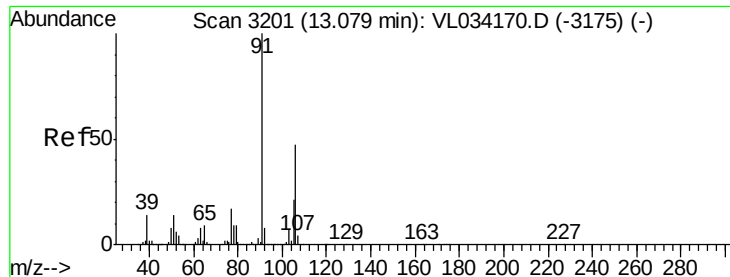
106 30.4 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.421 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

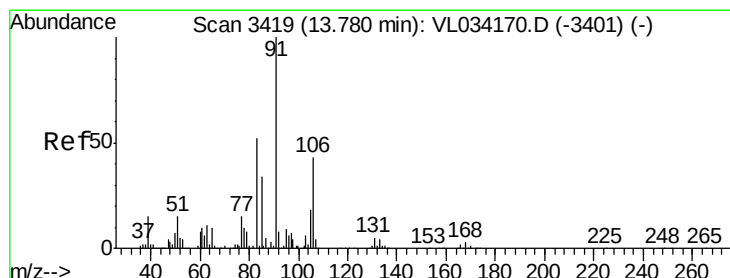
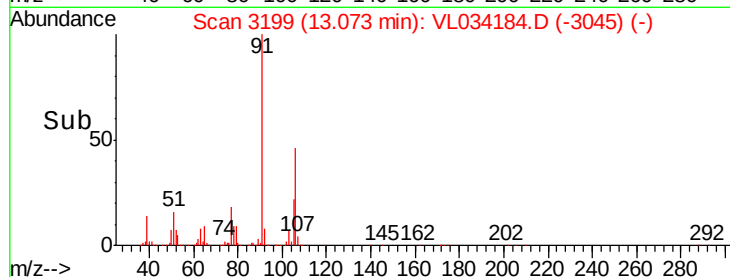
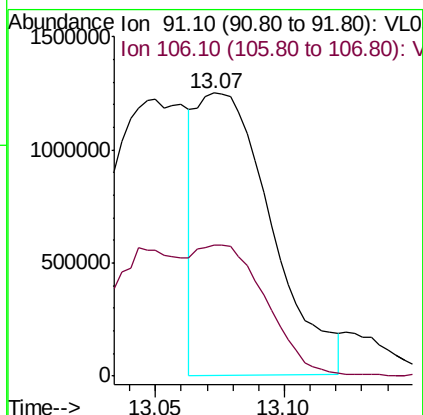
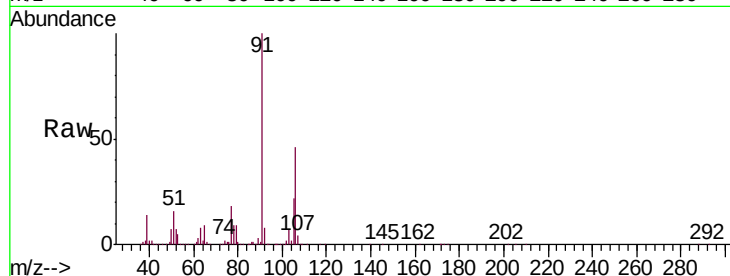
ClientSampleId :

Tgt Ion: 91 Resp: 2511426

Ion Ratio Lower Upper

91 100

106 91.9 35.5 53.3#



#60

o-Xylene

Concen: 8.783 ppbv

RT: 13.77 min Scan# 3417

Delta R.T. -0.01 min

Lab File: VL034184.D

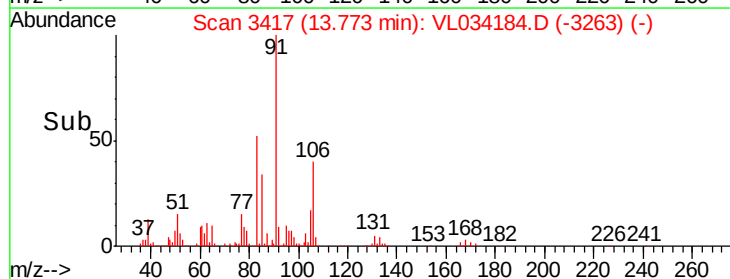
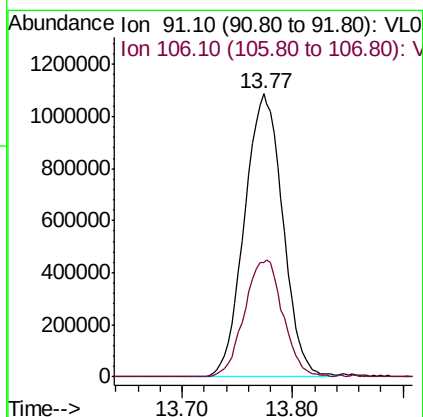
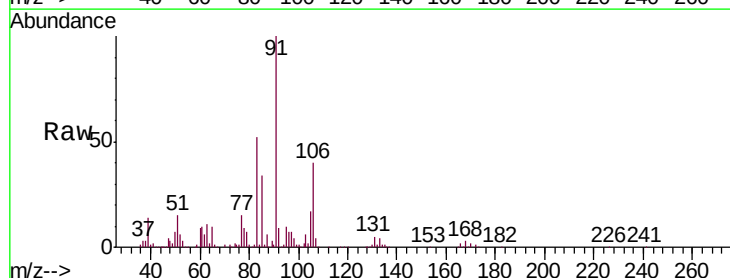
Acq: 18 Sep 2019 14:39

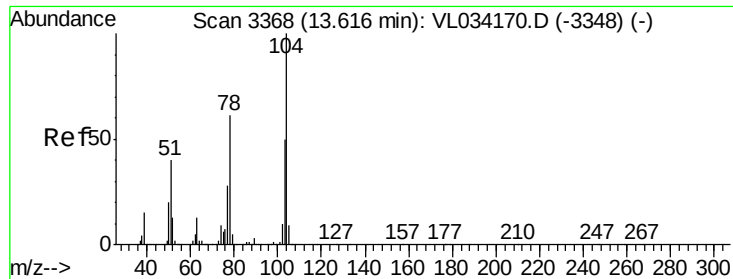
Tgt Ion: 91 Resp: 2619198

Ion Ratio Lower Upper

91 100

106 41.7 21.2 63.6





#61

Styrene

Concen: 9.199 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

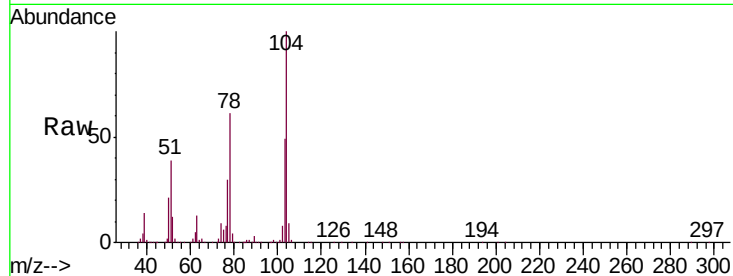
Tgt Ion:104 Resp: 1964997

Ion Ratio Lower Upper

104 100

78 63.2 49.7 74.5

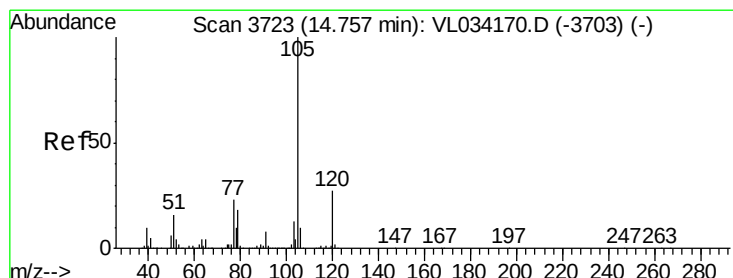
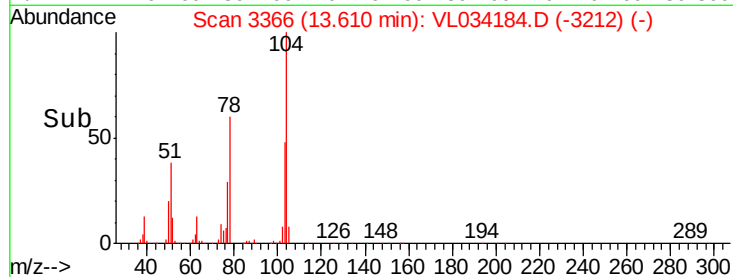
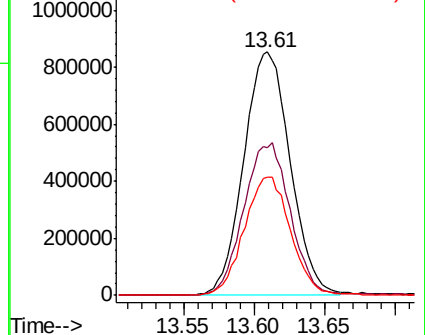
103 48.9 38.4 57.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.761 ppbv

RT: 14.75 min Scan# 3721

Delta R.T. -0.01 min

Lab File: VL034184.D

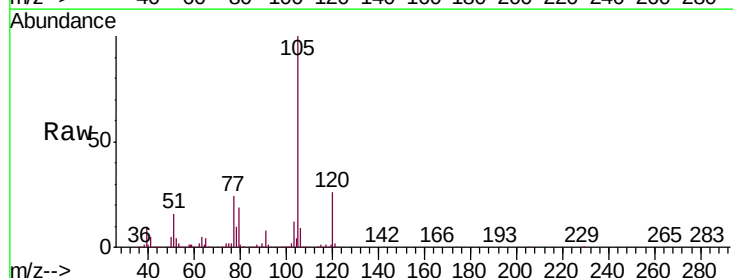
Acq: 18 Sep 2019 14:39

Tgt Ion:105 Resp: 3381970

Ion Ratio Lower Upper

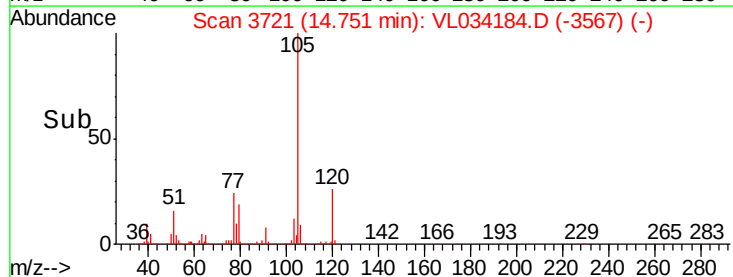
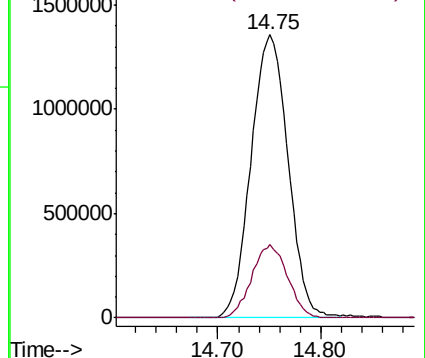
105 100

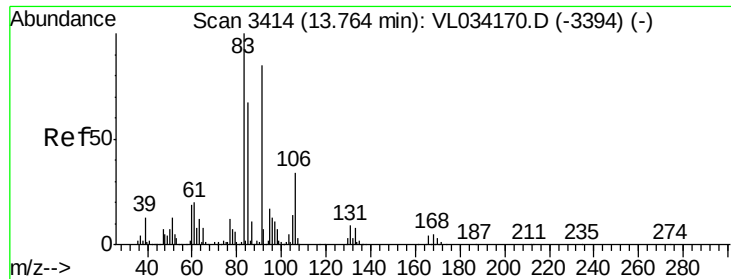
120 25.2 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

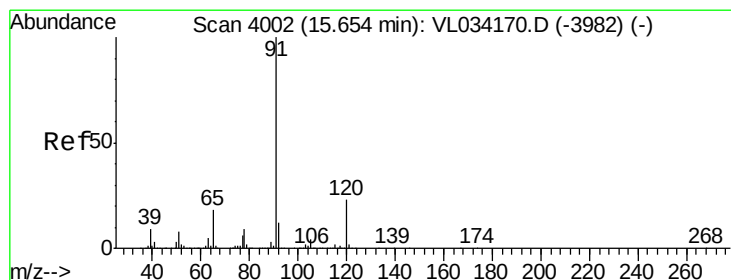
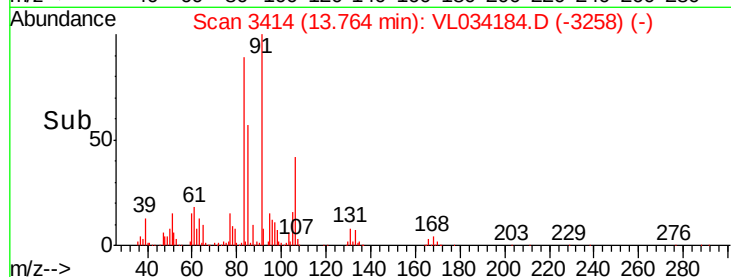
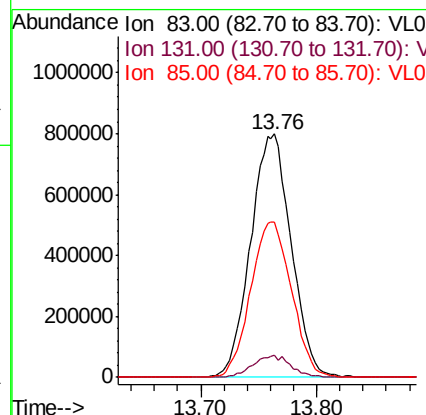
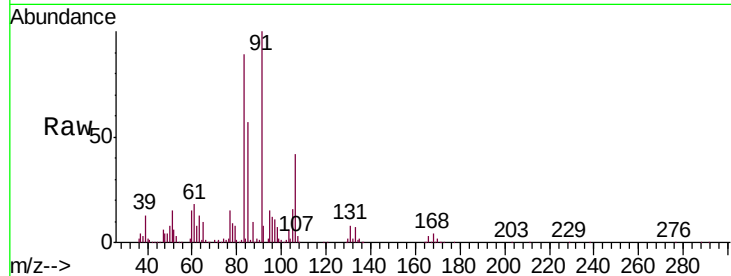




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.939 ppbv  
 RT: 13.76 min Scan# 3414  
 Delta R.T. 0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

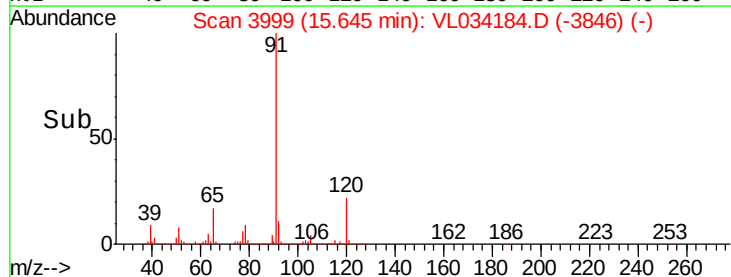
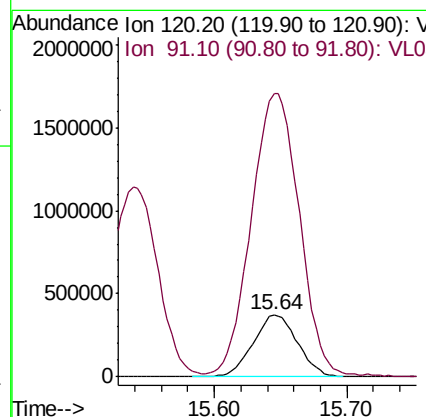
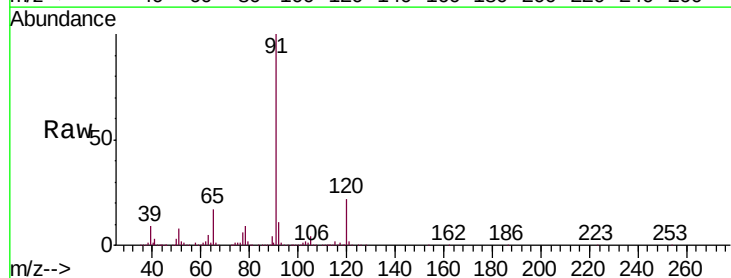
Instrument :  
 MSVOA\_L  
 ClientSampleId :

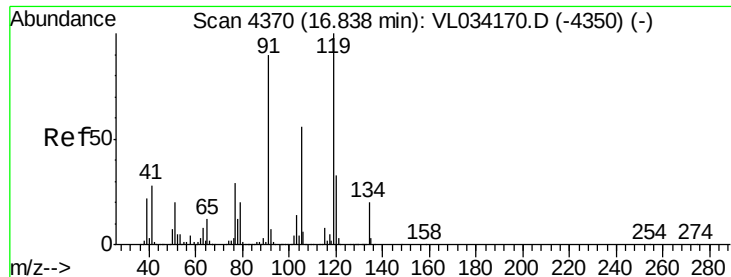
Tgt Ion: 83 Resp: 1941206  
 Ion Ratio Lower Upper  
 83 100  
 131 8.4 4.3 12.8  
 85 64.3 32.8 98.4



#64  
 n-propylbenzene  
 Concen: 8.893 ppbv  
 RT: 15.64 min Scan# 3999  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion: 120 Resp: 868551  
 Ion Ratio Lower Upper  
 120 100  
 91 498.3 378.2 567.2





#65

tert-Butylbenzene

Concen: 8.541 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampled :

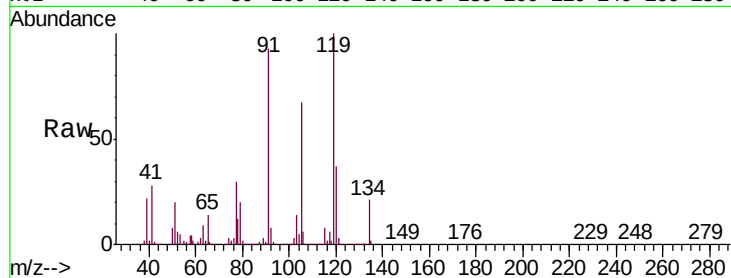
Tgt Ion: 119 Resp: 2880787

Ion Ratio Lower Upper

119 100

91 94.2 74.9 112.3

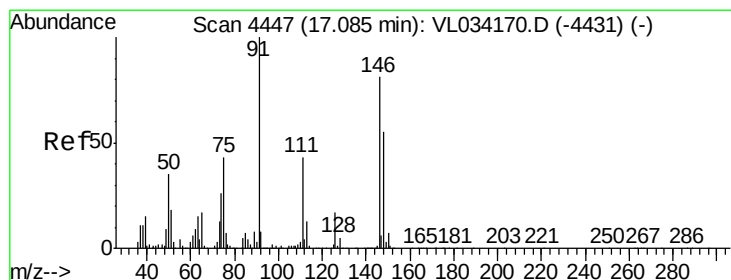
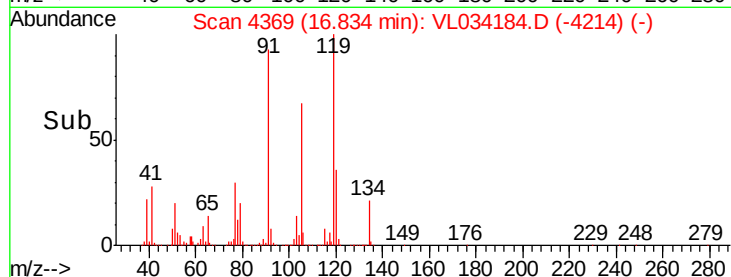
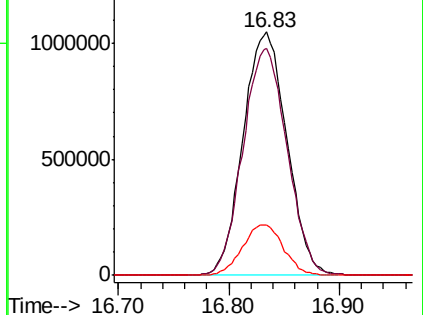
134 19.5 15.8 23.6



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: 12.113 ppbv

RT: 17.08 min Scan# 4446

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

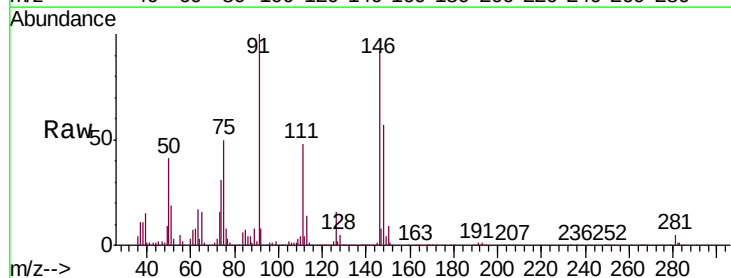
Tgt Ion: 91 Resp: 1445484

Ion Ratio Lower Upper

91 100

126 15.4 12.6 19.0

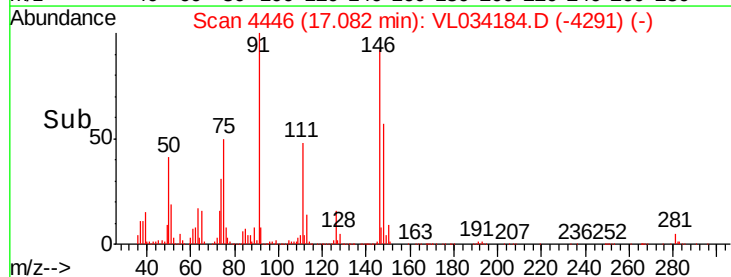
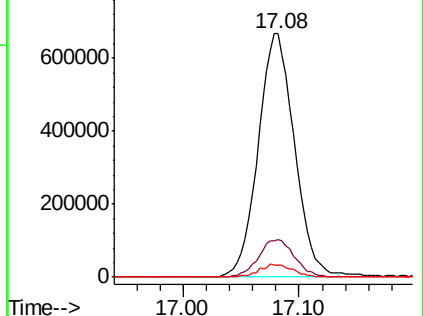
128 5.0 4.0 6.0

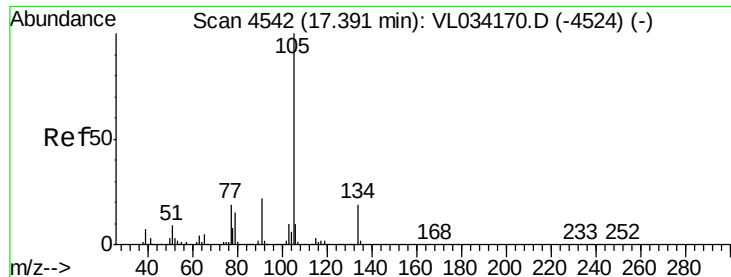


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.645 ppbv

RT: 17.38 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

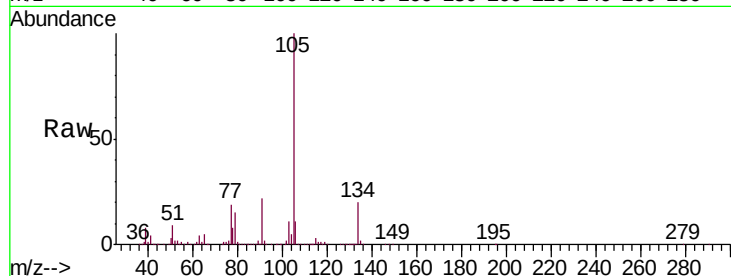
ClientSampleId :

Tgt Ion: 105 Resp: 4169914

Ion Ratio Lower Upper

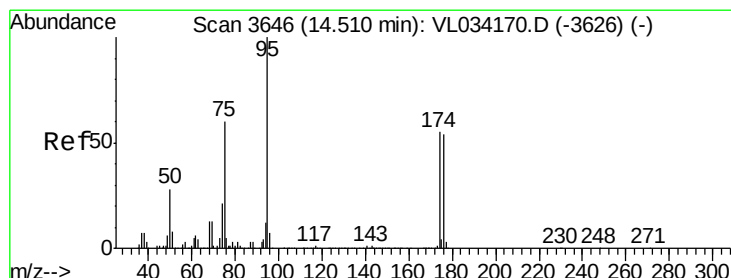
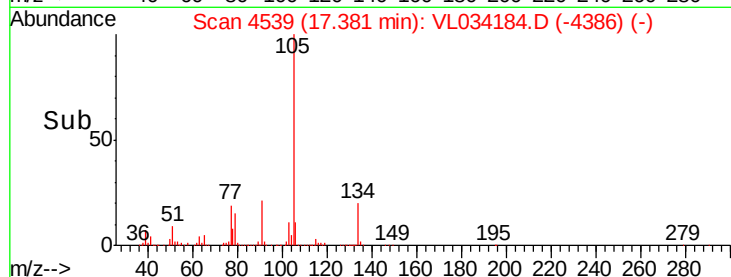
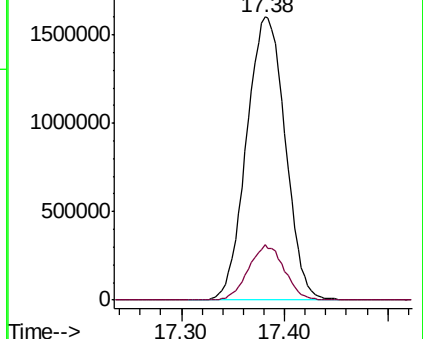
105 100

134 18.1 14.6 22.0



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: 9.676 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

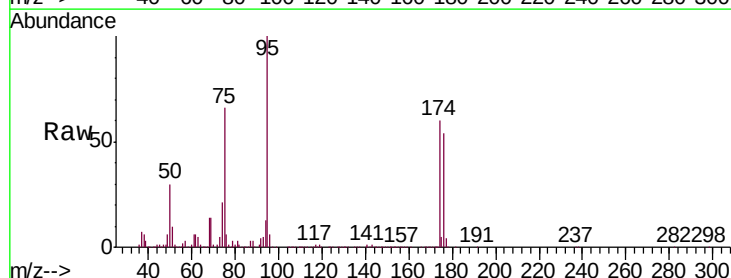
Tgt Ion: 95 Resp: 1876105

Ion Ratio Lower Upper

95 100

174 58.4 45.1 67.7

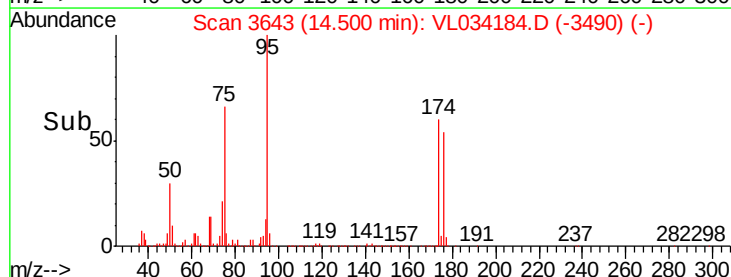
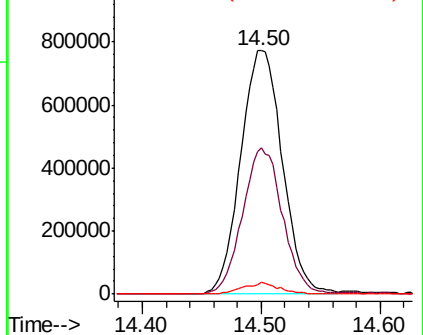
175 4.2 3.3 4.9

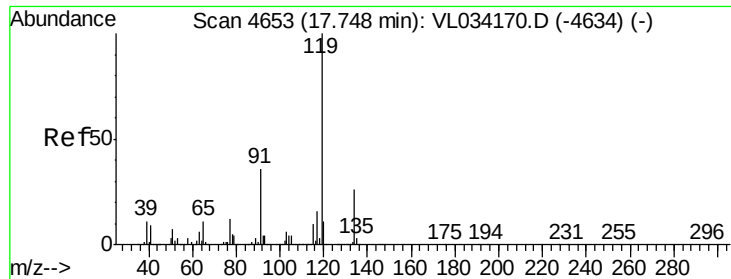


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

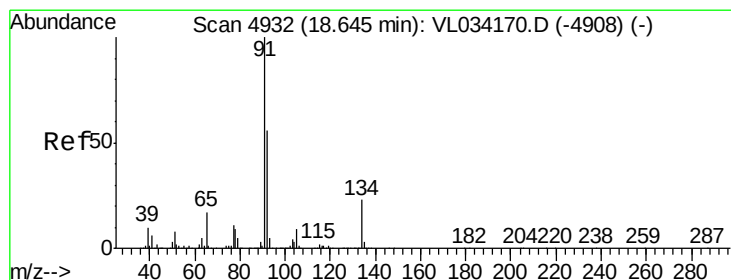
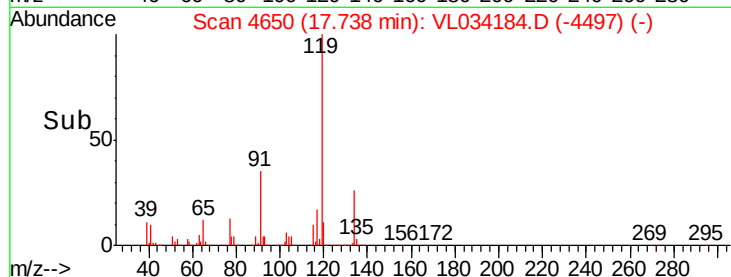
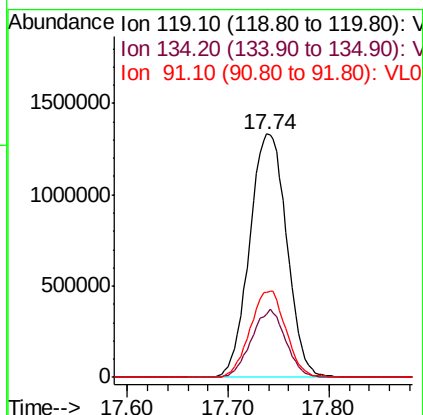
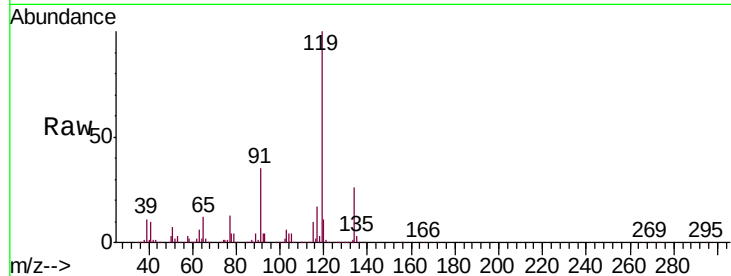




#69  
 p-Isopropyltoluene  
 Concen: 8.710 ppbv  
 RT: 17.74 min Scan# 4650  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

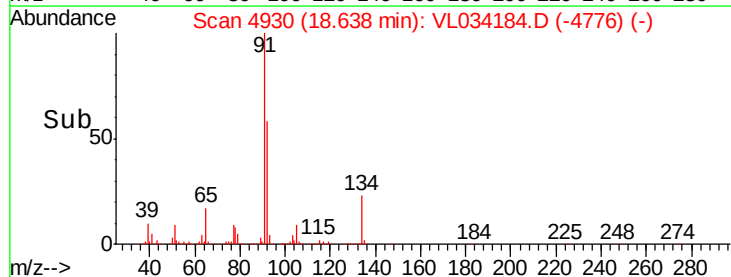
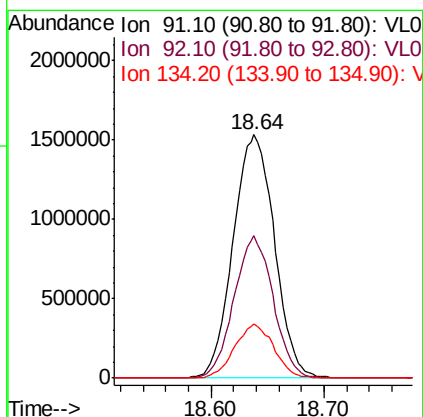
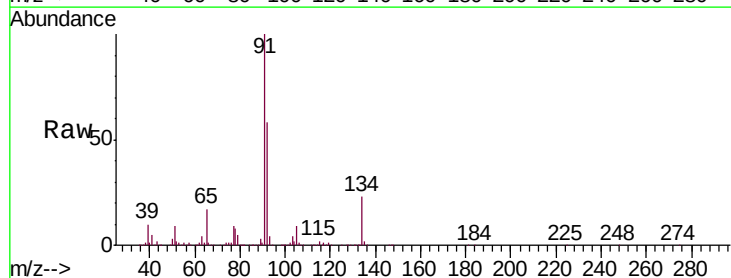
Instrument :  
 MSVOA\_L  
 ClientSampleId :

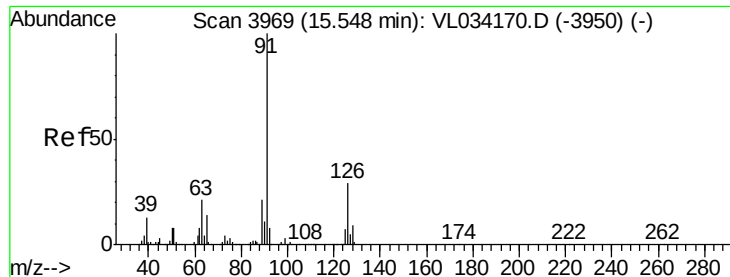
Tgt Ion: 119 Resp: 3401876  
 Ion Ratio Lower Upper  
 119 100  
 134 25.6 20.6 30.8  
 91 34.4 27.6 41.4



#70  
 n-Butylbenzene  
 Concen: 8.536 ppbv  
 RT: 18.64 min Scan# 4930  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion: 91 Resp: 3882113  
 Ion Ratio Lower Upper  
 91 100  
 92 55.6 44.8 67.2  
 134 21.1 17.3 25.9





#71

2-Chlorotoluene

Concen: 8.923 ppbv

RT: 15.54 min Scan# 3966

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

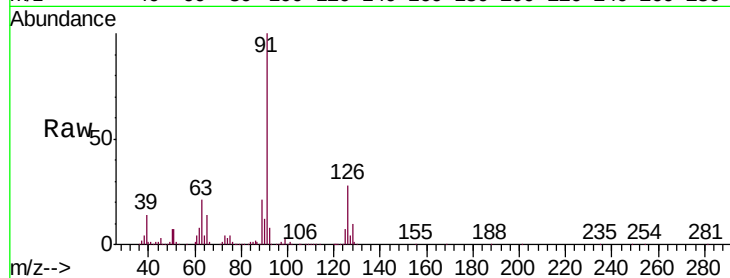
ClientSampleId :

Tgt Ion: 91 Resp: 2814302

Ion Ratio Lower Upper

91 100

126 28.2 11.2 45.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

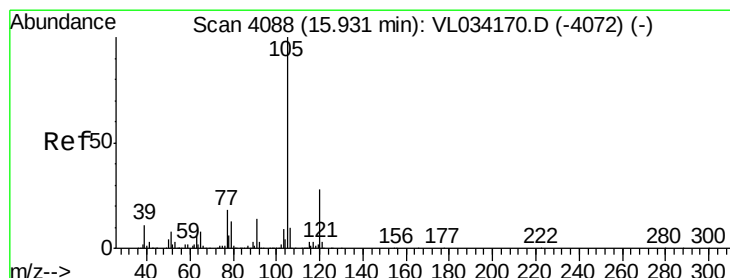
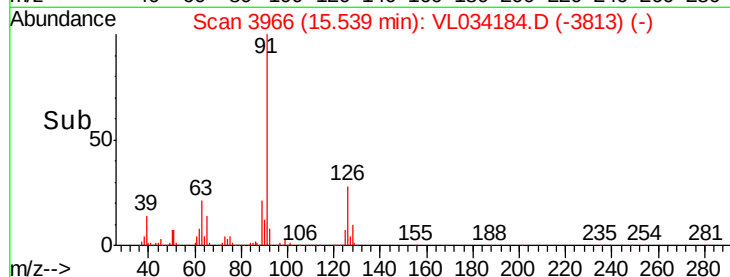
1000000

500000

0

15.50 15.60

Time-->



#72

4-Ethyltoluene

Concen: 8.970 ppbv

RT: 15.92 min Scan# 4086

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Tgt Ion: 105 Resp: 3022083

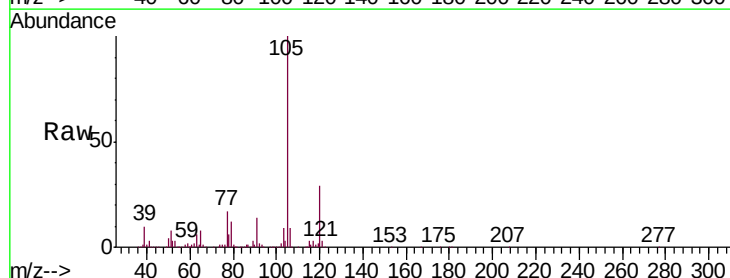
Ion Ratio Lower Upper

105 100

120 28.9 23.3 34.9

91 14.1 11.4 17.2

77 16.3 13.3 19.9



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

2000000

1500000

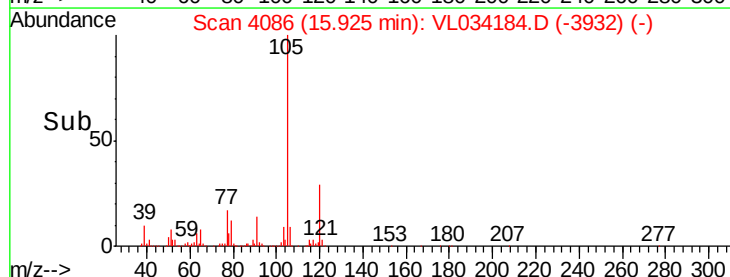
1000000

500000

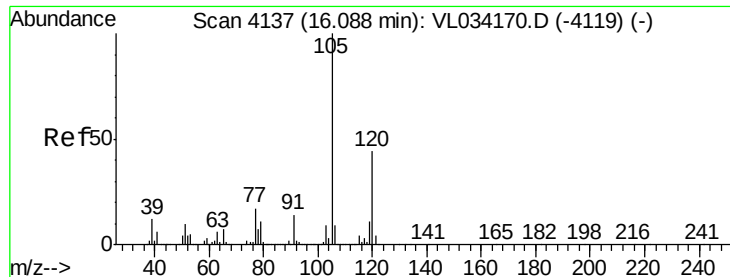
0

15.85 15.90 15.95 16.00

Time-->



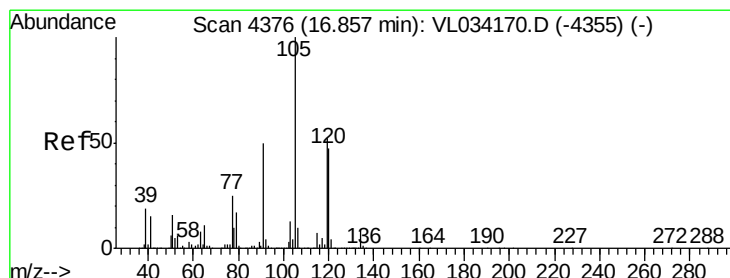
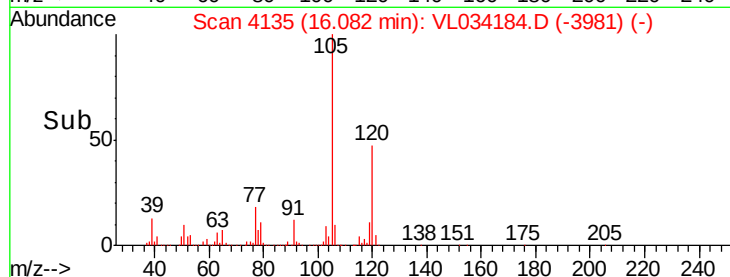
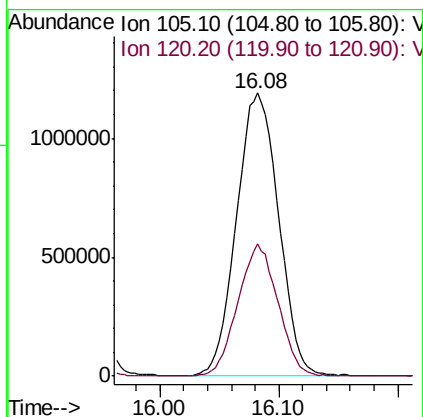
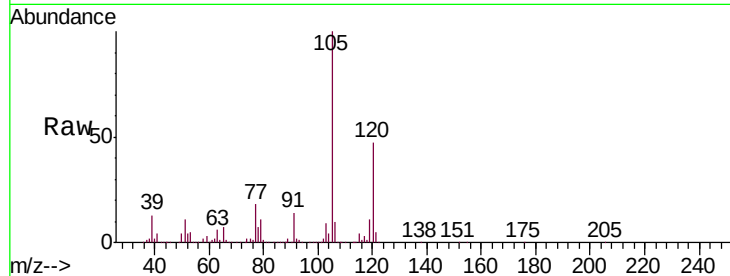




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.876 ppbv  
 RT: 16.08 min Scan# 4135  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

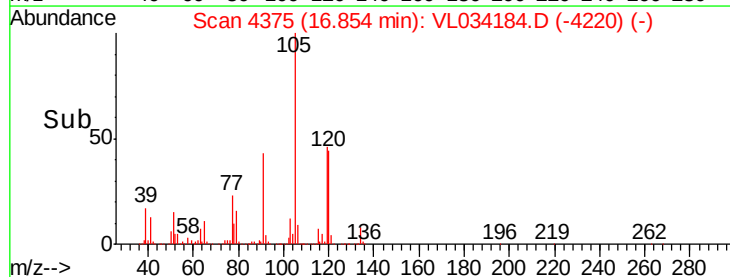
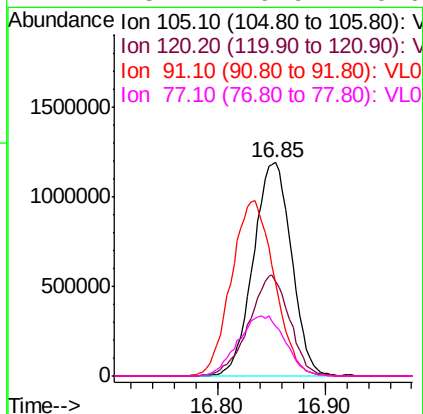
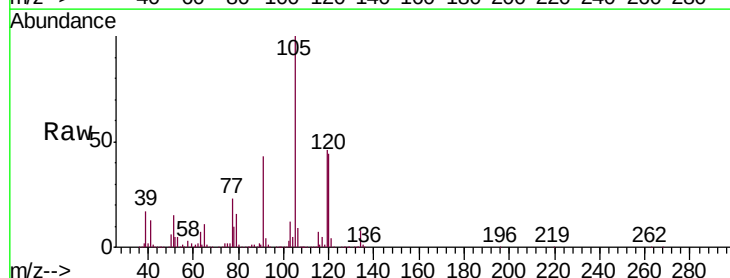
Instrument :  
 MSVOA\_L  
 ClientSampleId :

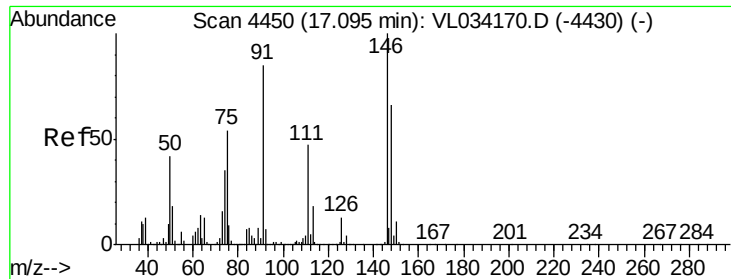
Tgt Ion:105 Resp: 2889076  
 Ion Ratio Lower Upper  
 105 100  
 120 46.8 35.6 53.4



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.436 ppbv  
 RT: 16.85 min Scan# 4375  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion:105 Resp: 2915441  
 Ion Ratio Lower Upper  
 105 100  
 120 44.3 37.5 56.3  
 91 43.3 41.1 61.7  
 77 23.4 19.9 29.9

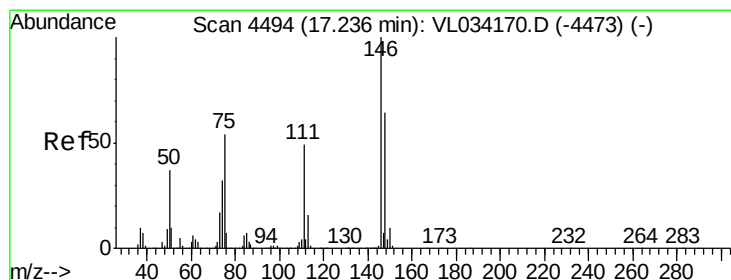
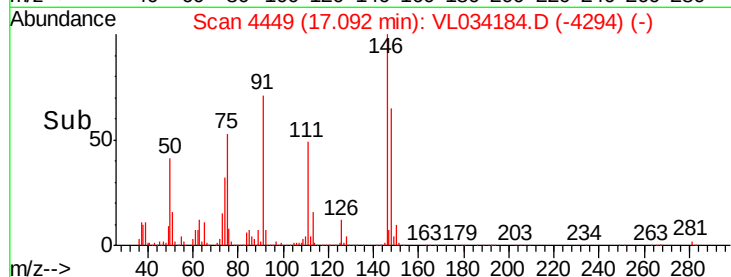
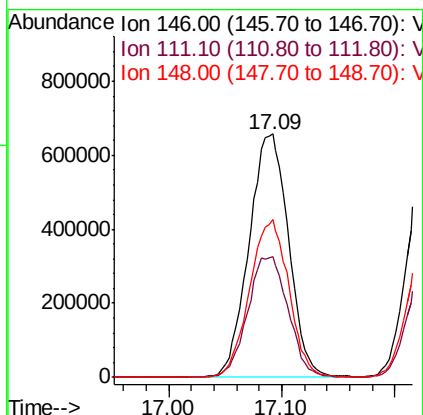
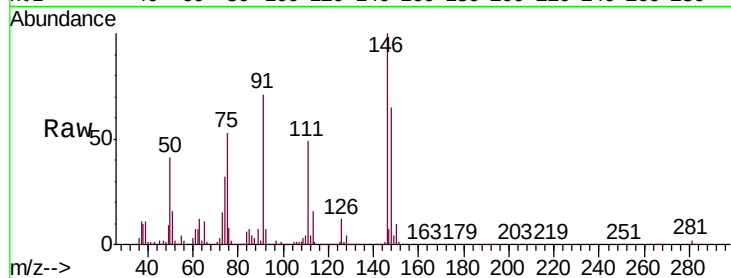




#75  
 1,3-Dichlorobenzene  
 Concen: 8.612 ppbv  
 RT: 17.09 min Scan# 4449  
 Delta R.T. -0.00 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

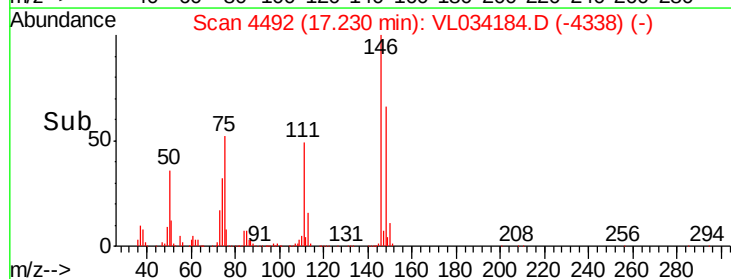
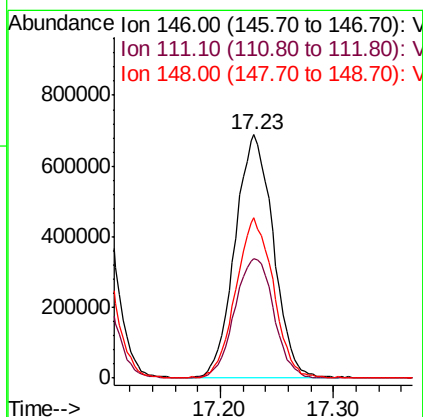
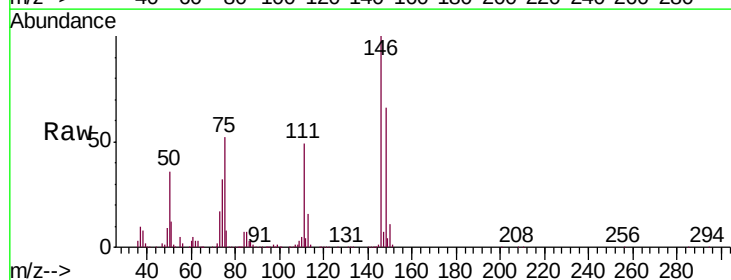
Instrument :  
 MSVOA\_L  
 ClientSampleId :

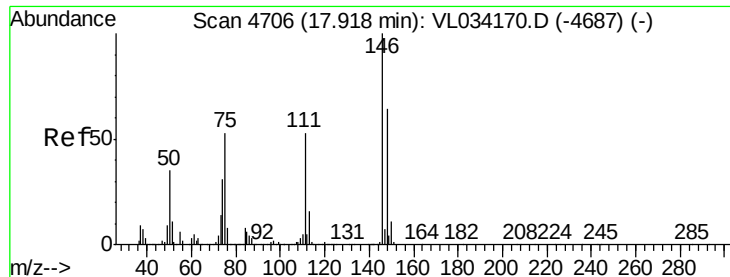
Tgt Ion:146 Resp: 1596900  
 Ion Ratio Lower Upper  
 146 100  
 111 50.7 25.9 77.8  
 148 64.2 32.6 97.7



#76  
 1,4-Dichlorobenzene  
 Concen: 8.514 ppbv  
 RT: 17.23 min Scan# 4492  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion:146 Resp: 1616834  
 Ion Ratio Lower Upper  
 146 100  
 111 50.4 24.6 74.0  
 148 65.1 32.4 97.0

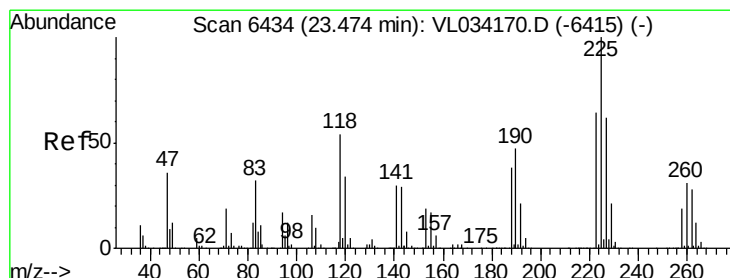
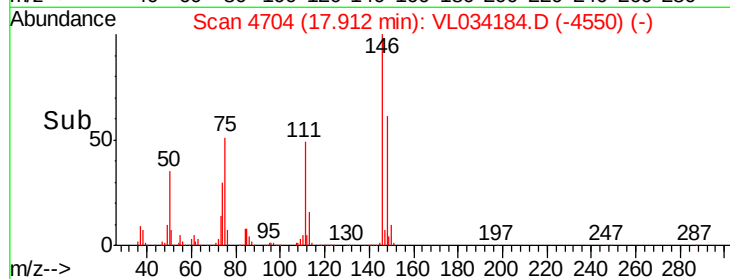
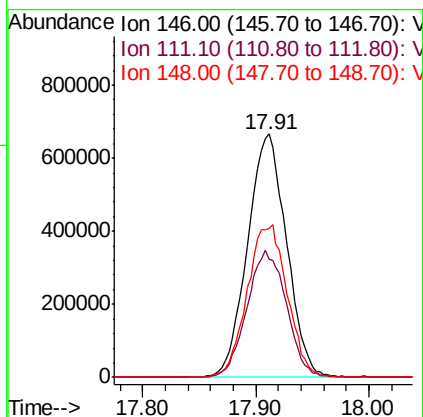
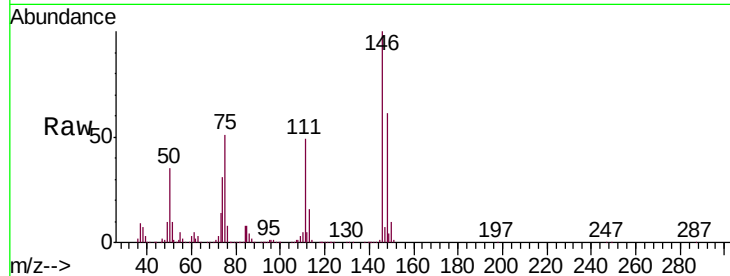




#77  
 1,2-Dichlorobenzene  
 Concen: 8.497 ppbv  
 RT: 17.91 min Scan# 4704  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

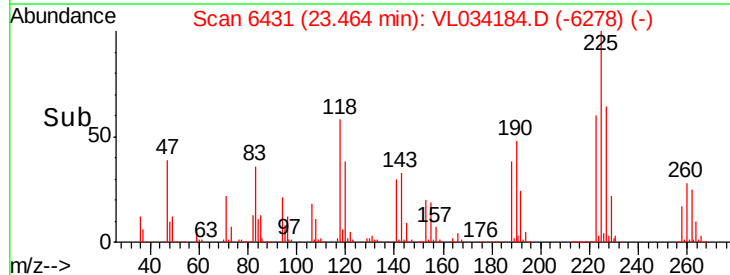
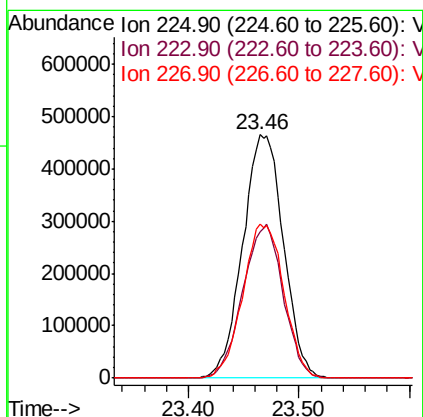
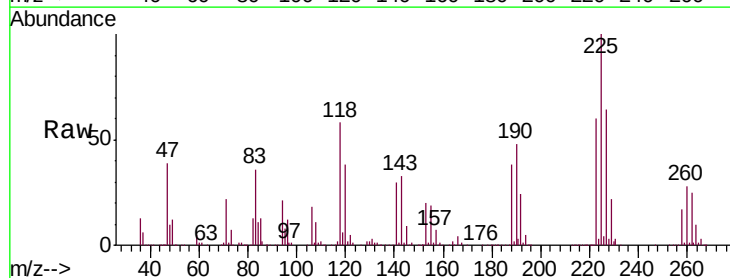
Instrument :  
 MSVOA\_L  
 ClientSampled :

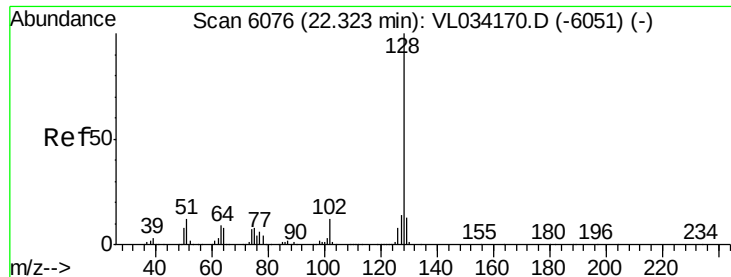
Tgt Ion:146 Resp: 1594731  
 Ion Ratio Lower Upper  
 146 100  
 111 52.6 26.1 78.3  
 148 64.2 31.9 95.9



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.562 ppbv  
 RT: 23.46 min Scan# 6431  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Tgt Ion:225 Resp: 1188618  
 Ion Ratio Lower Upper  
 225 100  
 223 62.3 51.7 77.5  
 227 64.2 52.1 78.1





#79

Naphthalene

Concen: 8.703 ppbv

RT: 22.32 min Scan# 6074

Delta R.T. -0.01 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

Instrument :

MSVOA\_L

ClientSampleId :

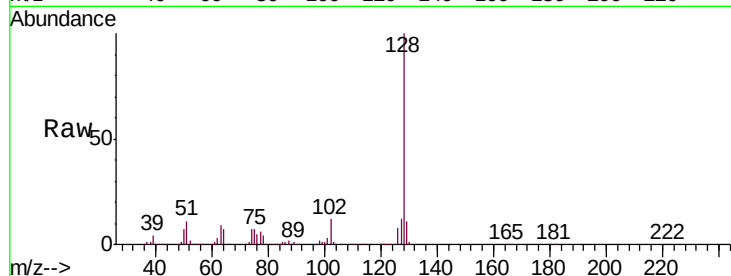
Tgt Ion:128 Resp: 2647931

Ion Ratio Lower Upper

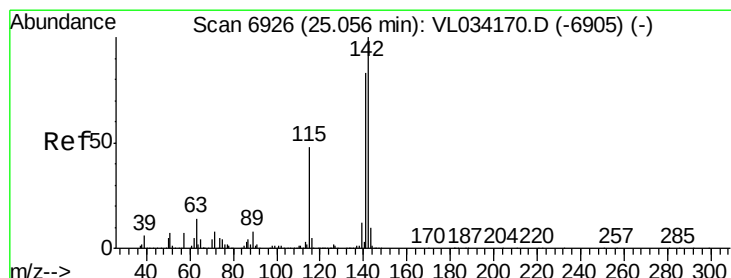
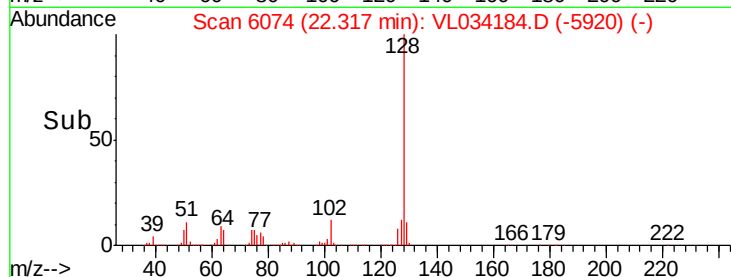
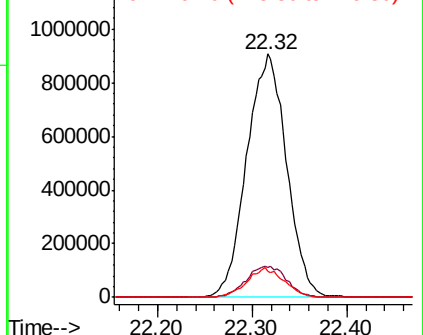
128 100

127 12.4 11.1 16.7

129 10.6 10.2 15.4



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: 10.135 ppbv

RT: 25.05 min Scan# 6925

Delta R.T. -0.00 min

Lab File: VL034184.D

Acq: 18 Sep 2019 14:39

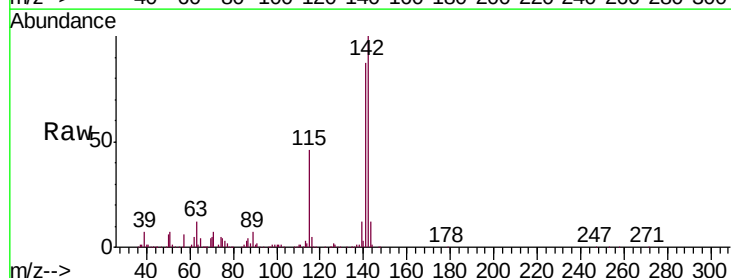
Tgt Ion:142 Resp: 1433983

Ion Ratio Lower Upper

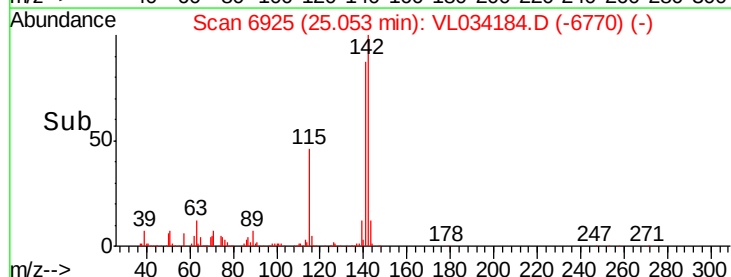
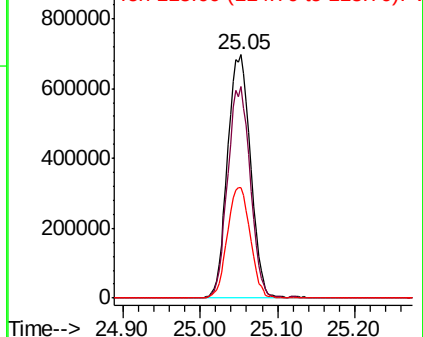
142 100

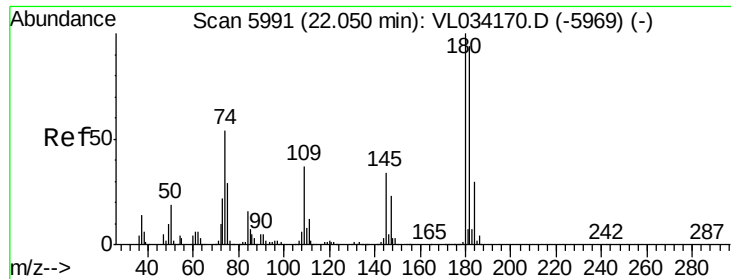
141 85.1 67.6 101.4

115 45.2 36.9 55.3



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

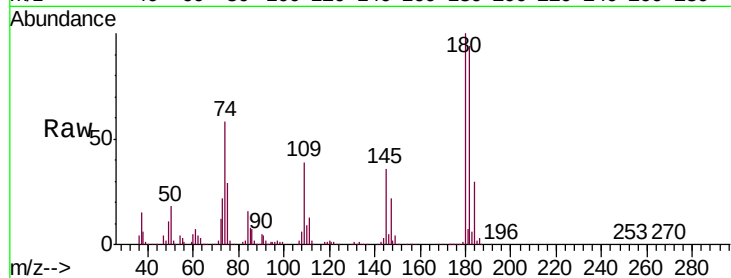




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.529 ppbv  
 RT: 22.04 min Scan# 5989  
 Delta R.T. -0.01 min  
 Lab File: VL034184.D  
 Acq: 18 Sep 2019 14:39

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tgt Ion:180 Resp: 1437502  
 Ion Ratio Lower Upper  
 180 100  
 182 96.8 77.4 116.2  
 184 31.4 25.0 37.4



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

