

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112019\  
 Data File : VY000751.D  
 Acq On : 20 Nov 2019 13:37  
 Operator : SY/MD  
 Sample : K5940-01  
 Misc : 5.09G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 21 07:42:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 183451   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 316287   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 276279   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 121463   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 113226   | 59.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.28% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 93338    | 50.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.54% |          |
| 50) Toluene-d8              | 10.18 | 98   | 360298   | 51.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.28% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 120249   | 44.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.66%  |          |

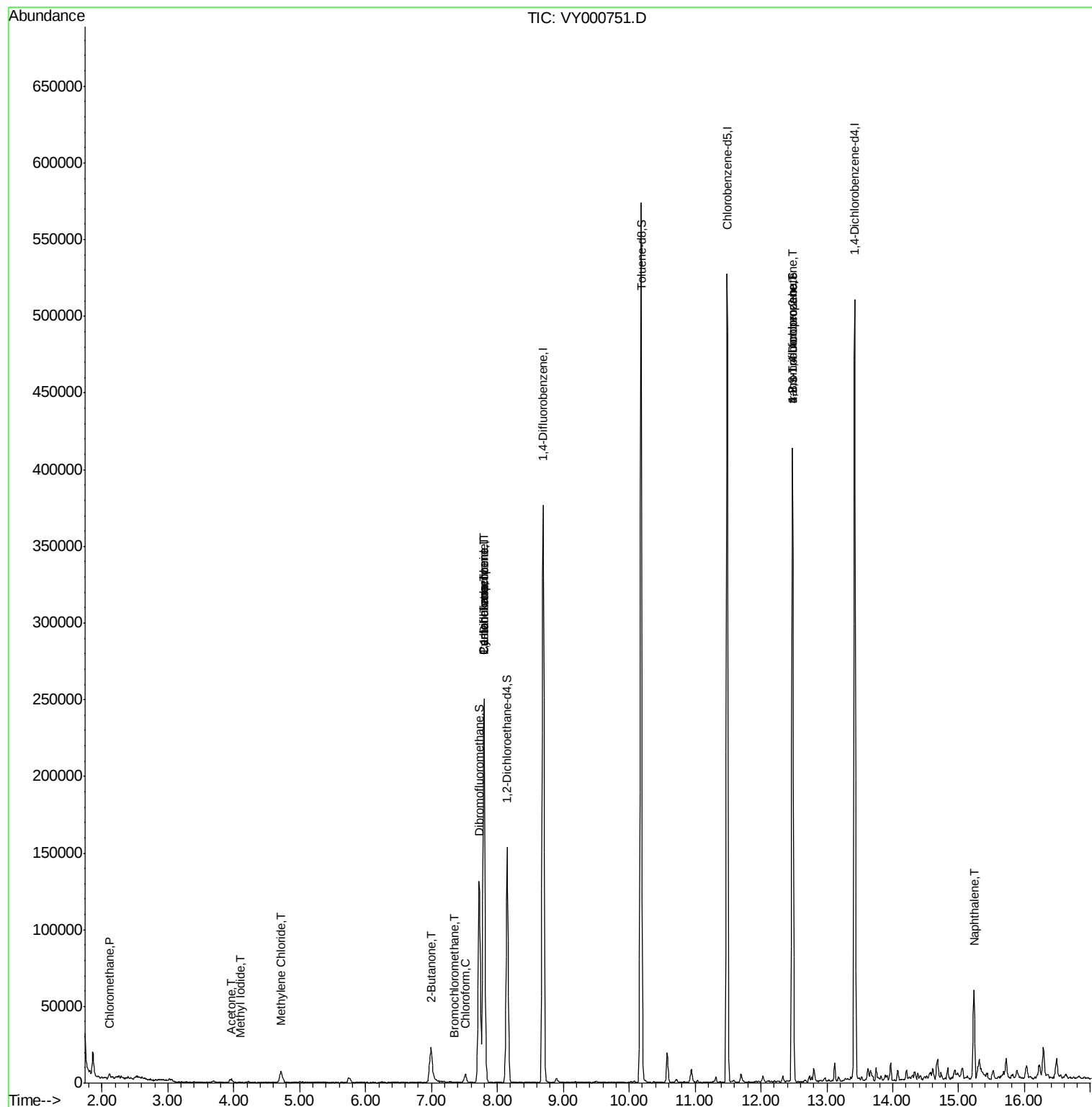
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane               | 2.11  | 50   | 2623     | 1.054   | ug/l # | 81     |
| 10) Methyl Iodide              | 4.10  | 142  | 131      | 3.249   | ug/l # | 41     |
| 16) Acetone                    | 3.96  | 43   | 4144     | 7.920   | ug/l   | 95     |
| 20) Methylene Chloride         | 4.71  | 84   | 5169     | 2.305   | ug/l # | 91     |
| 25) 2-Butanone                 | 7.00  | 43   | 1891     | 2.265   | ug/l # | 49     |
| 28) Bromochloromethane         | 7.34  | 49   | 25       | 4.107   | ug/l # | 14     |
| 30) Chloroform                 | 7.52  | 83   | 5501     | 1.550   | ug/l   | 91     |
| 31) Cyclohexane                | 7.80  | 56   | 4593     | 1.250   | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 15777    | 5.277   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 18839    | 6.548   | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 65367    | 47.264  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 65367    | 105.972 | ug/l # | 13     |
| 95) Naphthalene                | 15.23 | 128  | 44715    | 8.177   | ug/l   | 99     |

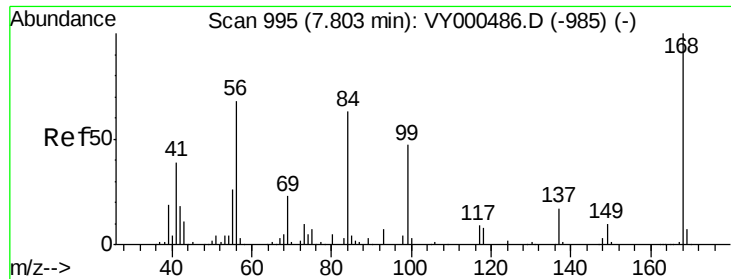
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY112019\  
Data File : VY000751.D  
Acq On : 20 Nov 2019 13:37  
Operator : SY/MD  
Sample : K5940-01  
Misc : 5.09G/5ML/MSVOA Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Nov 21 07:42:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 30 13:30:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

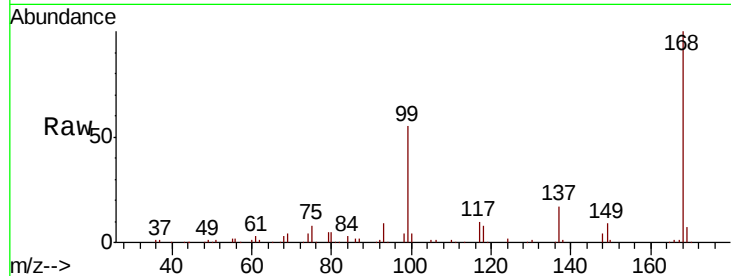
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:168 Resp: 183451

Ion Ratio Lower Upper

168 100

99 55.4 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)

7.80

100000

80000

60000

40000

20000

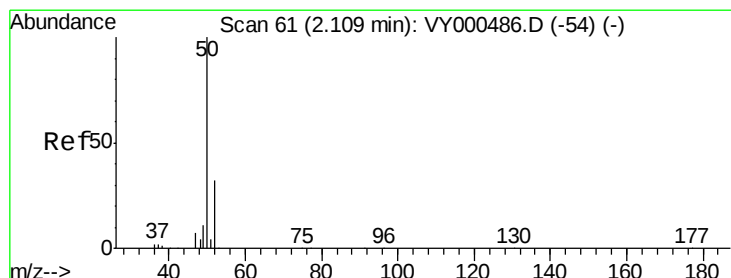
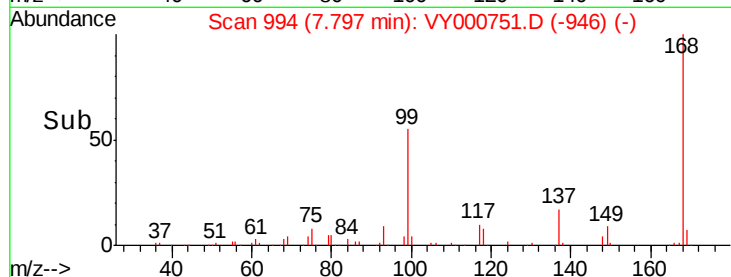
0

Time-->

7.70

7.80

7.90



#3

Chloromethane

Concen: 1.054 ug/l

RT: 2.11 min Scan# 61

Delta R.T. 0.00 min

Lab File: VY000751.D

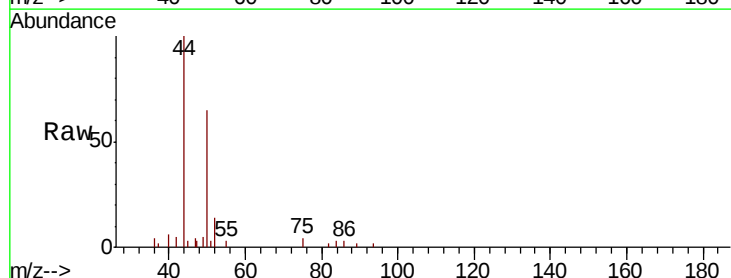
Acq: 20 Nov 2019 13:37

Tgt Ion: 50 Resp: 2623

Ion Ratio Lower Upper

50 100

52 21.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VY000486.D (-54) (-)

Ion 51.90 (51.60 to 52.60): VY000486.D (-54) (-)

2.11

2000

1500

1000

500

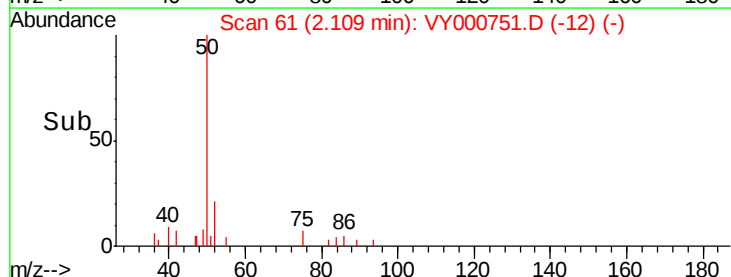
0

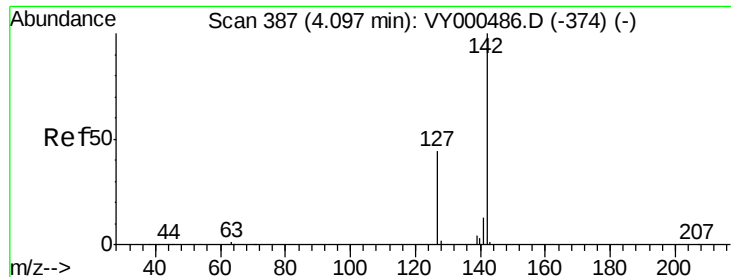
Time-->

2.05

2.10

2.15

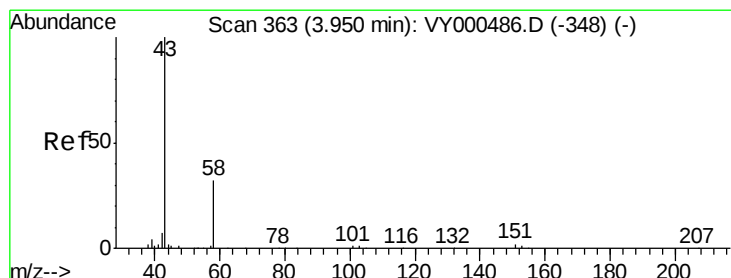
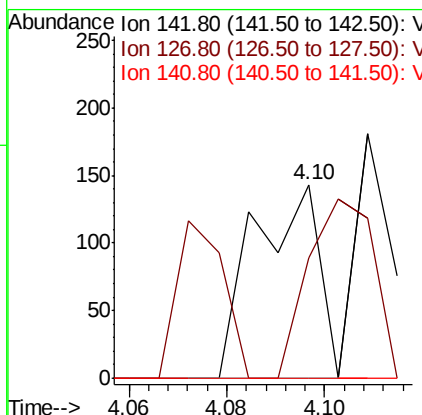
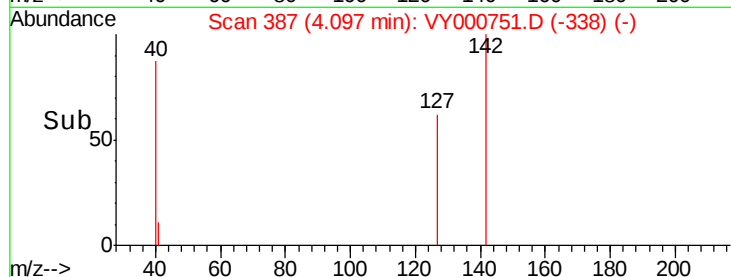
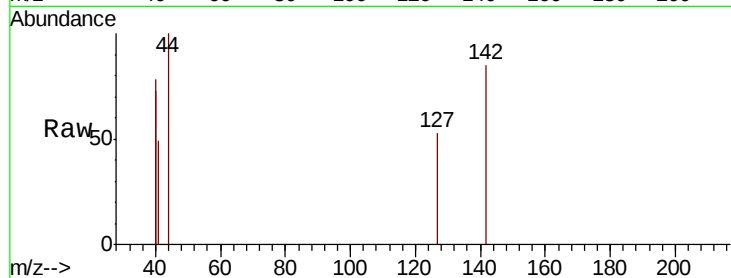




#10  
Methvl Iodide  
Concen: 3.249 ug/l  
RT: 4.10 min Scan# 387  
Delta R.T. 0.00 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

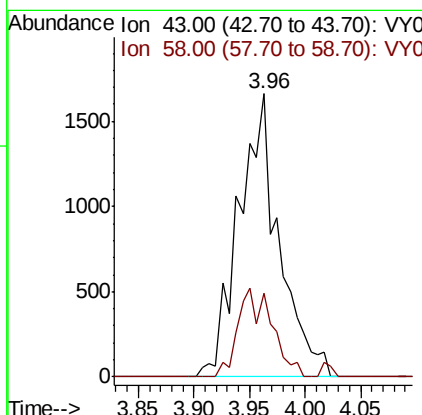
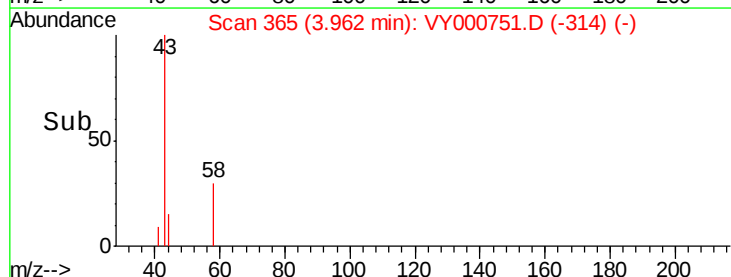
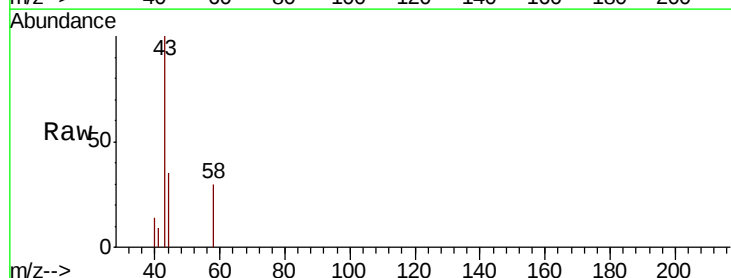
Instrument :  
MSVOA\_Y  
ClientSampleId :

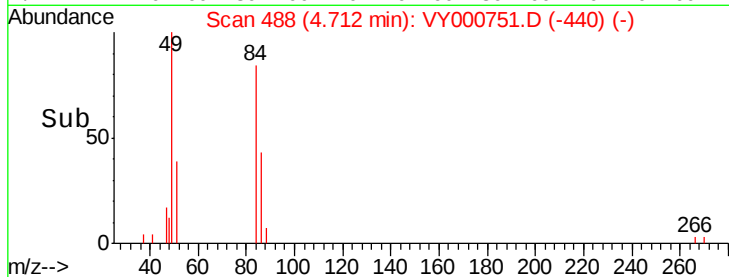
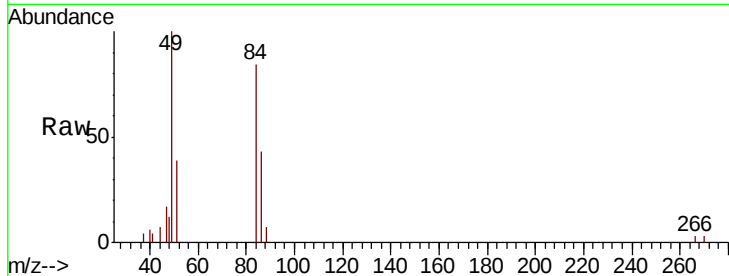
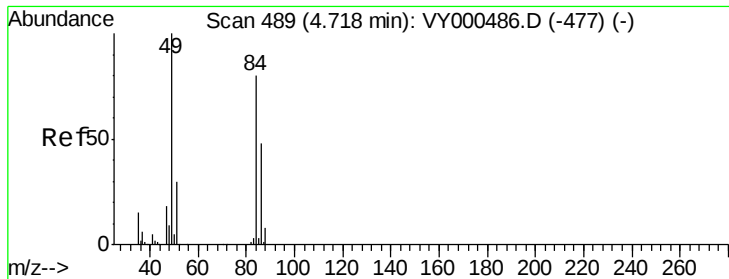
Tot Ion:142 Resp: 131  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.7 50.5#  
141 0.0 10.9 16.3#



#16  
Acetone  
Concen: 7.920 ug/l  
RT: 3.96 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

Tgt Ion: 43 Resp: 4144  
Ion Ratio Lower Upper  
43 100  
58 29.7 25.8 38.6

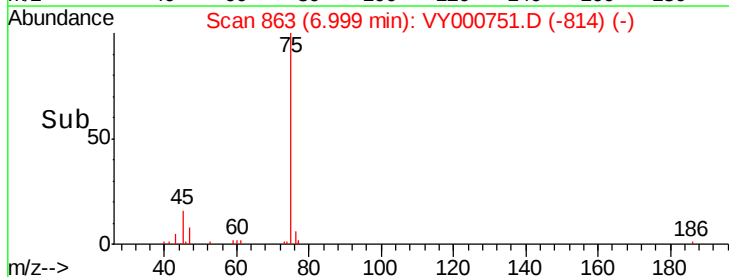
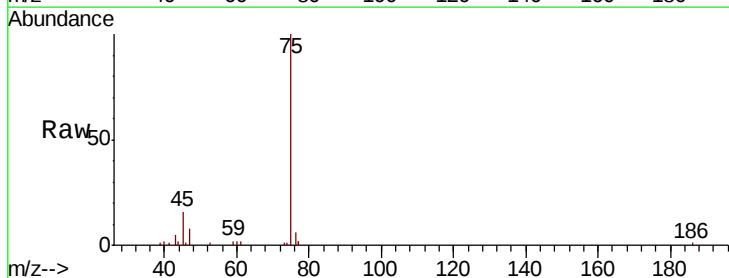
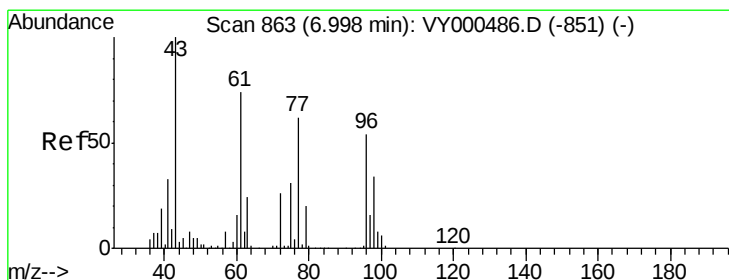
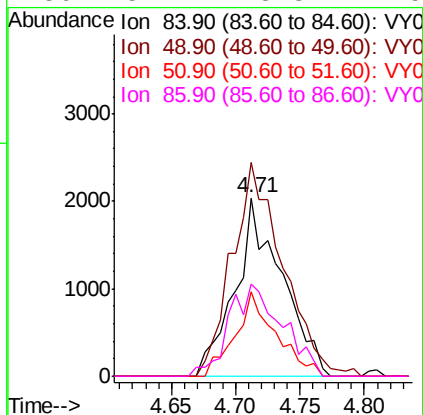




#20  
Methvlene Chloride  
Concen: 2.305 ug/l  
RT: 4.71 min Scan# 488  
Delta R.T. -0.01 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

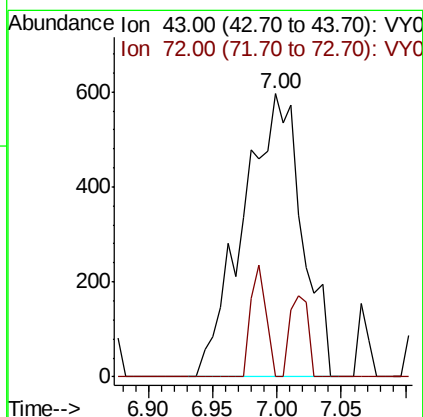
Instrument :  
MSVOA\_Y  
ClientSampleId :

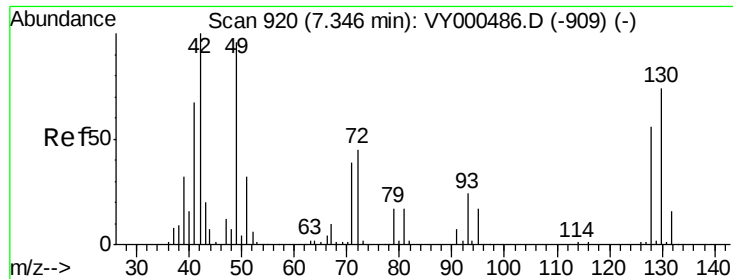
Tot Ion: 84 Resp: 5169  
Ion Ratio Lower Upper  
84 100  
49 119.7 100.2 150.4  
51 47.2 29.6 44.4#  
86 51.7 48.3 72.5



#25  
2-Butanone  
Concen: 2.265 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

Tgt Ion: 43 Resp: 1891  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.9 31.3#





#28

Bromochloromethane

Concen: 4.107 ug/l

RT: 7.34 min Scan# 919

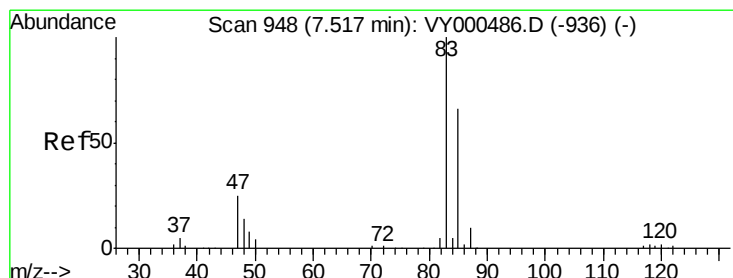
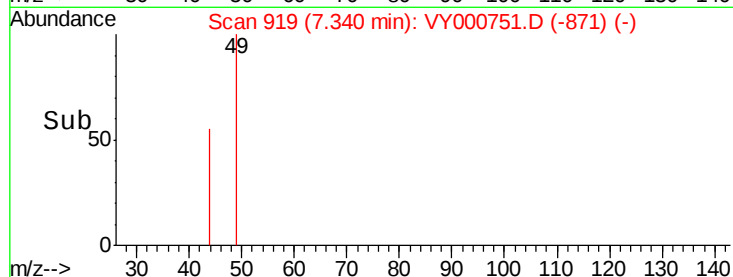
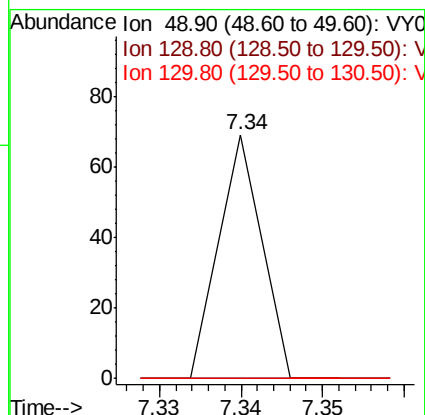
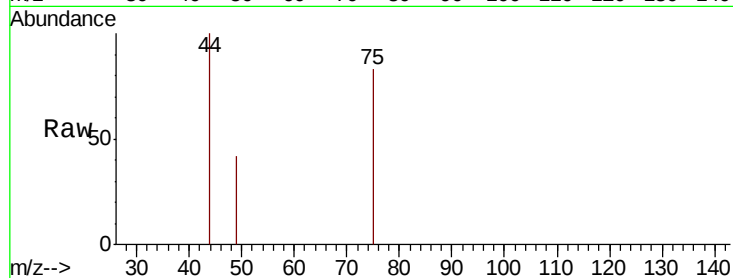
Delta R.T. -0.01 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 49 Resp: 25  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 59.4 89.0#



#30

Chloroform

Concen: 1.550 ug/l

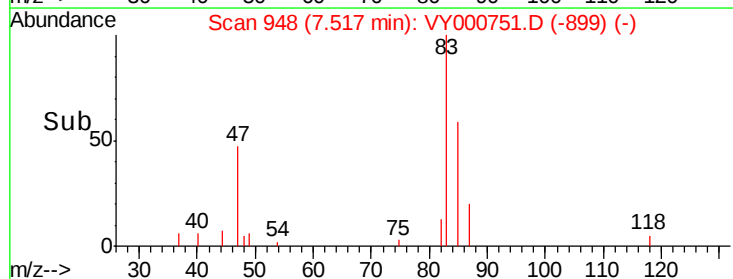
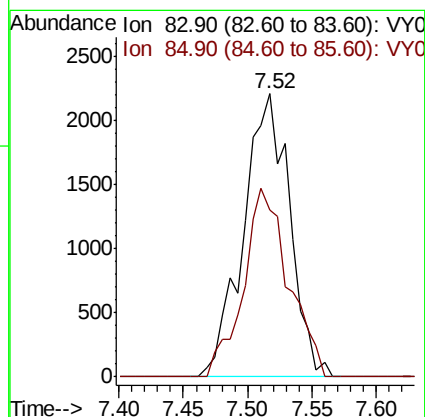
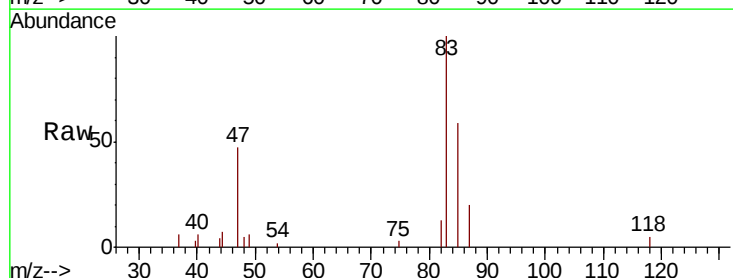
RT: 7.52 min Scan# 948

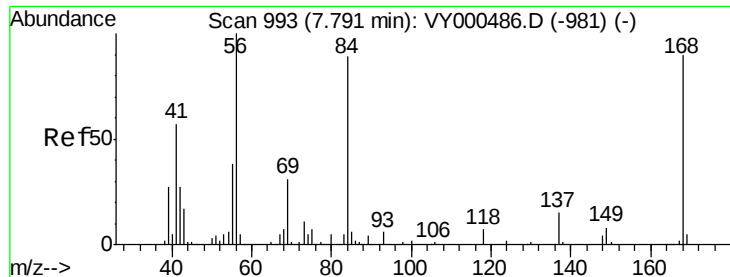
Delta R.T. 0.00 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

Tgt Ion: 83 Resp: 5501  
Ion Ratio Lower Upper  
83 100  
85 59.1 53.0 79.4

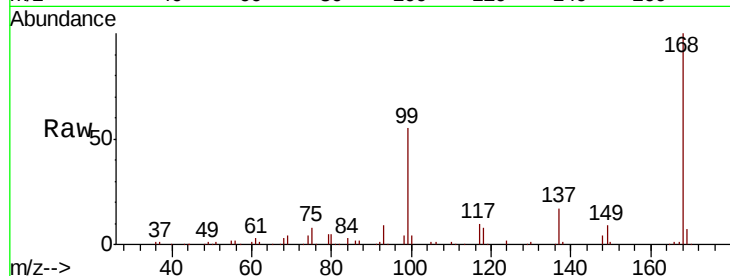




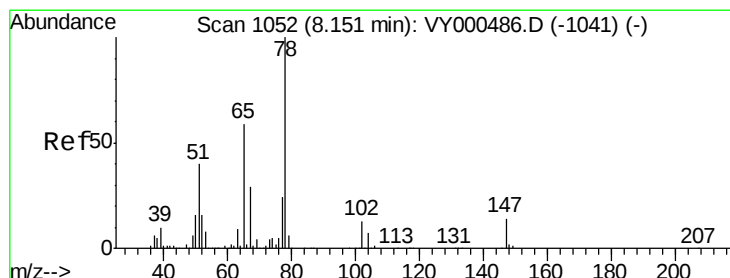
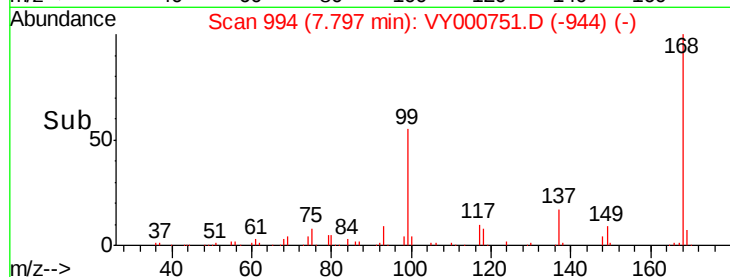
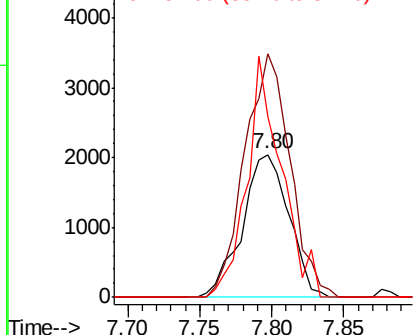
#31  
Cyclohexane  
Concen: 1.250 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 56 Resp: 4593  
Ion Ratio Lower Upper  
56 100  
69 170.3 25.0 37.6#  
84 126.5 71.4 107.2#

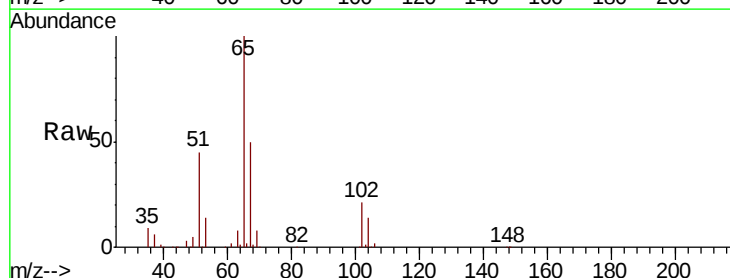


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

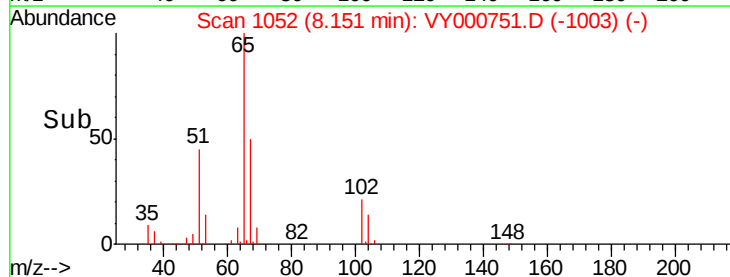
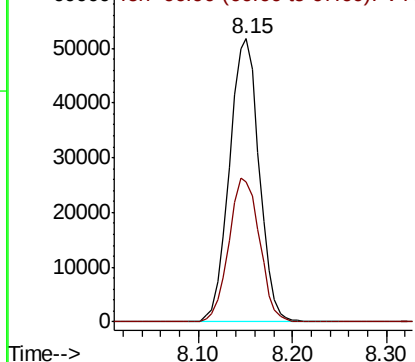


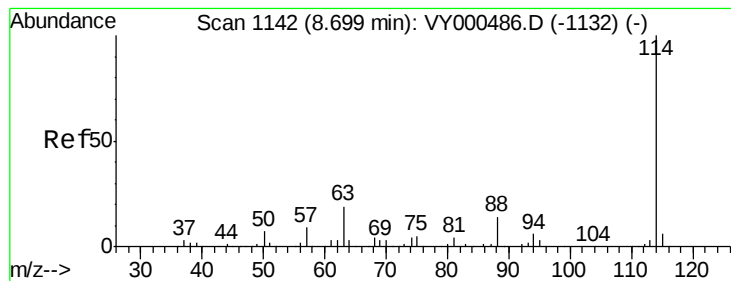
#33  
1,2-Dichloroethane-d4  
Concen: 59.640 ug/l  
RT: 8.15 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

Tgt Ion: 65 Resp: 113226  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

Instrument :

MSVOA\_Y

ClientSampleId :

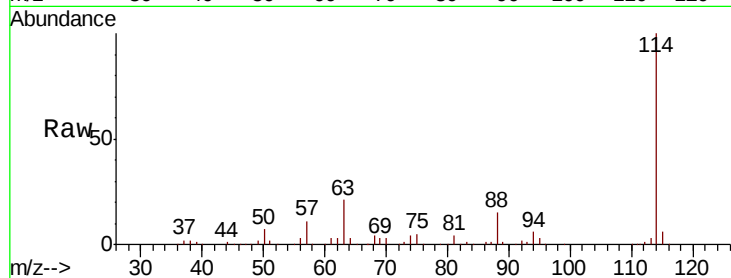
Tot Ion:114 Resp: 316287

Ion Ratio Lower Upper

114 100

63 21.1 0.0 38.0

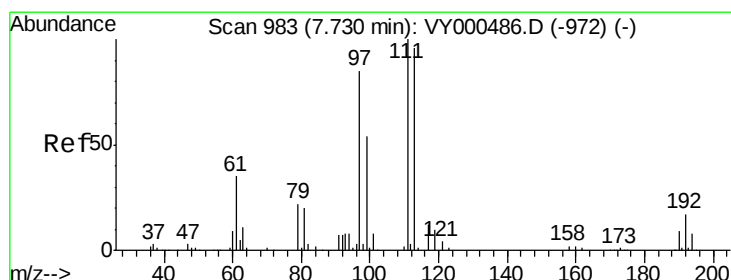
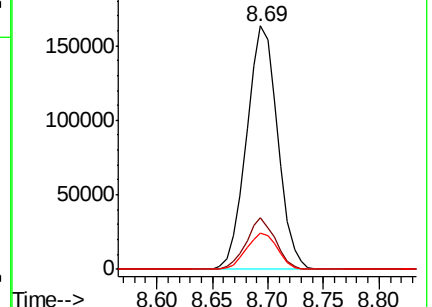
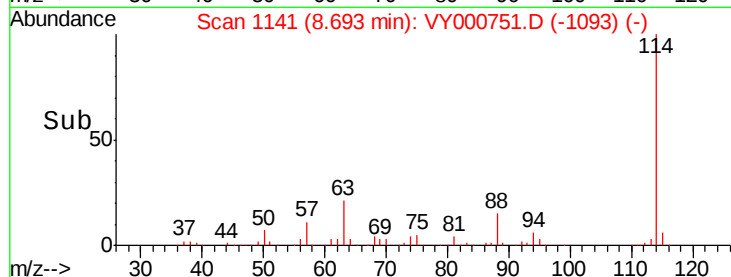
88 14.7 0.0 28.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 50.268 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

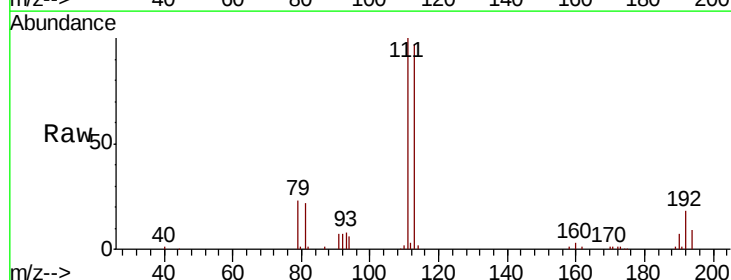
Tgt Ion:113 Resp: 93338

Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

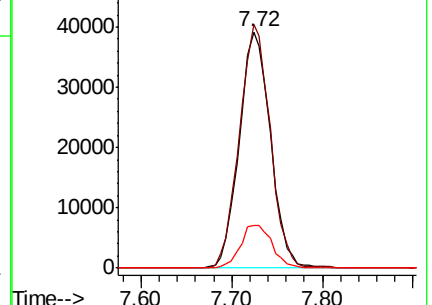
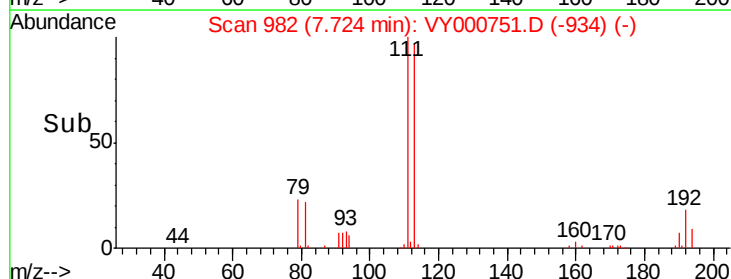
192 18.4 15.0 22.4

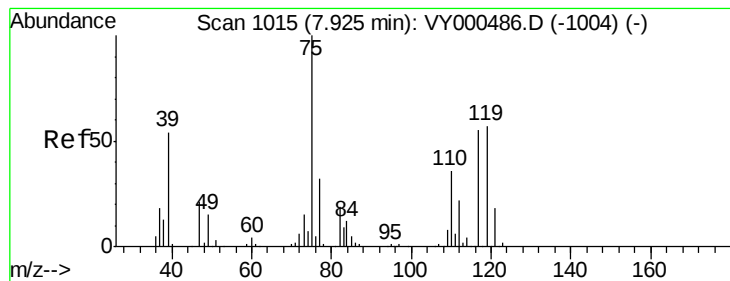


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.277 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

Instrument :  
MSVOA\_Y  
ClientSampleId :

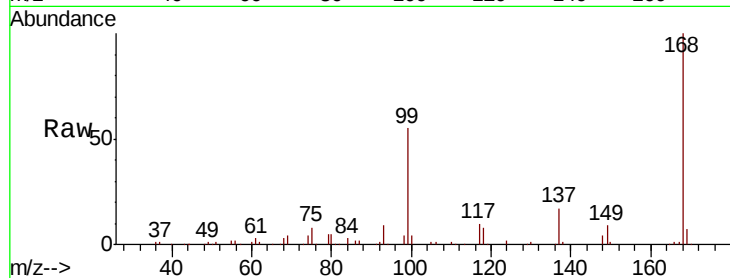
Tot Ion: 75 Resp: 15777

Ion Ratio Lower Upper

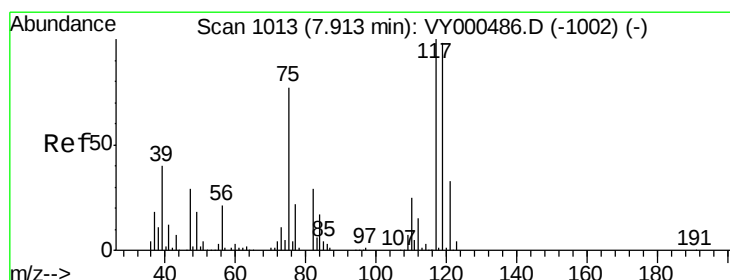
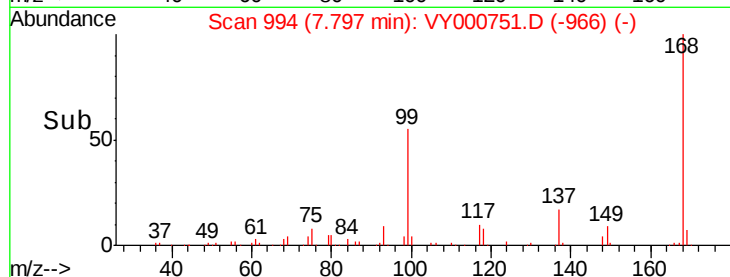
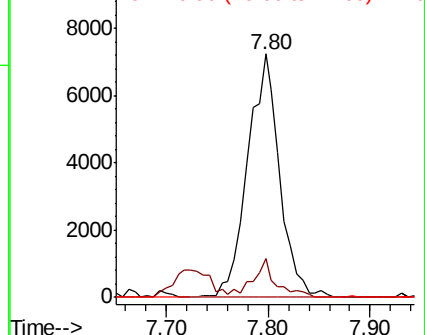
75 100

110 11.6 18.1 54.1#

77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VY0



#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

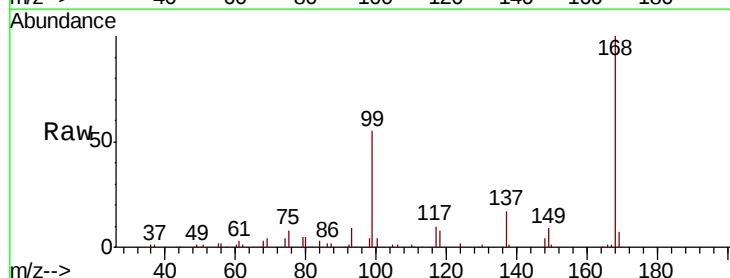
Tgt Ion: 117 Resp: 18839

Ion Ratio Lower Upper

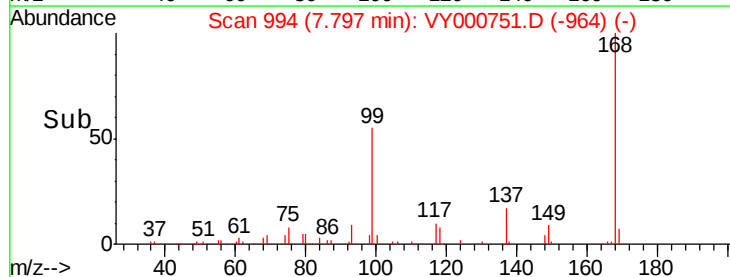
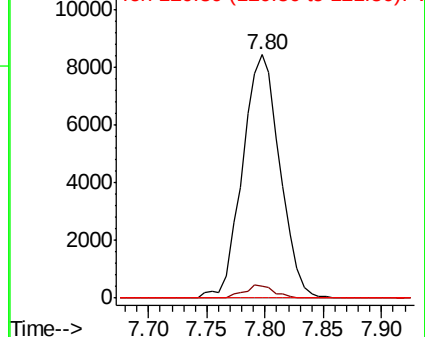
117 100

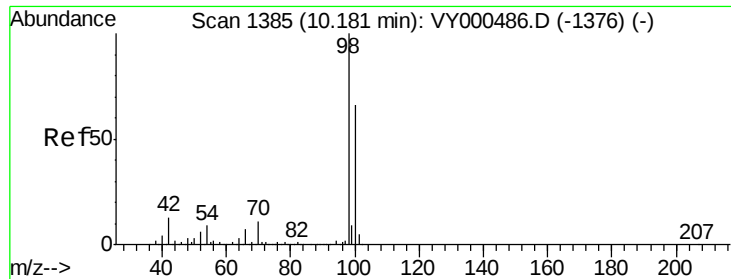
119 4.7 78.0 117.0#

121 0.0 26.6 40.0#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.138 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

Instrument :

MSVOA\_Y

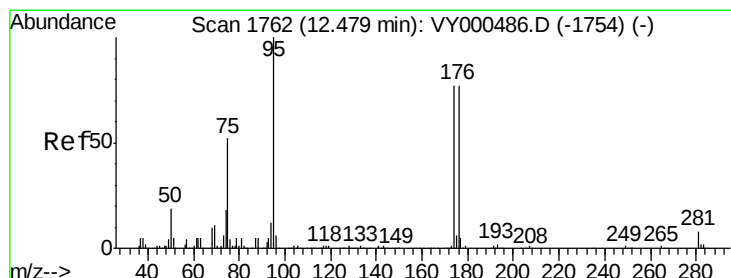
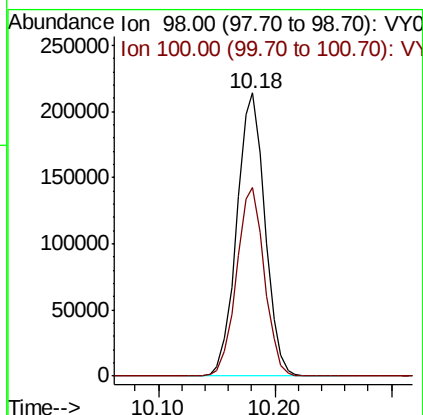
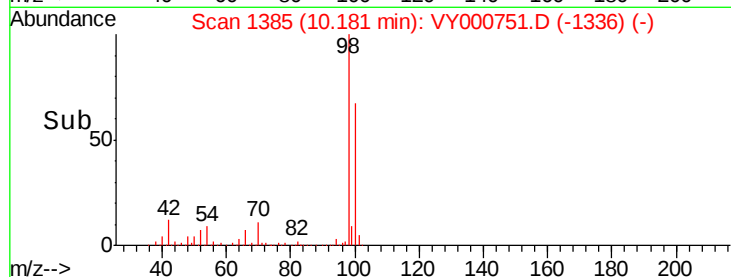
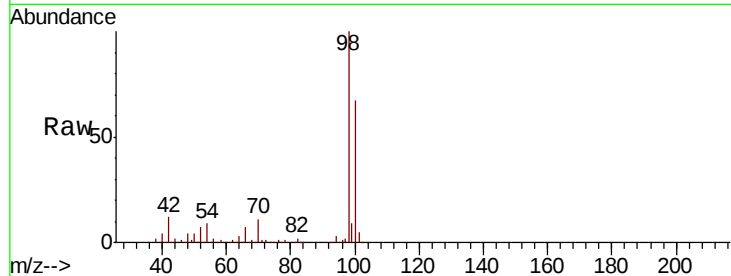
ClientSampleId :

Tot Ion: 98 Resp: 360298

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 44.832 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

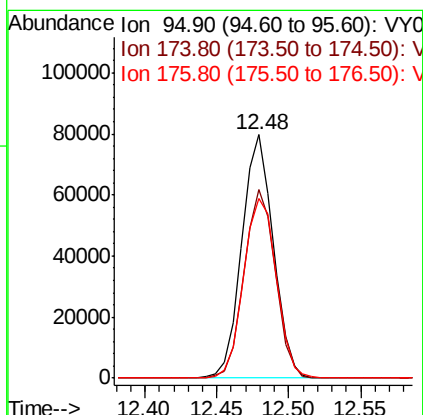
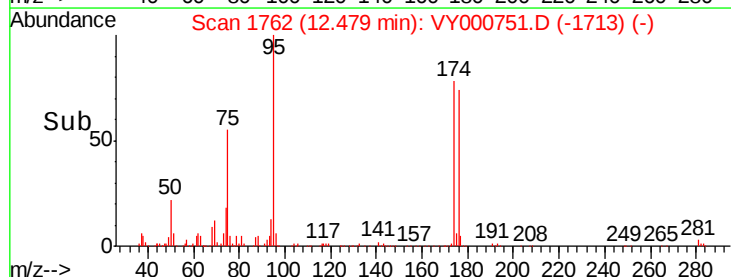
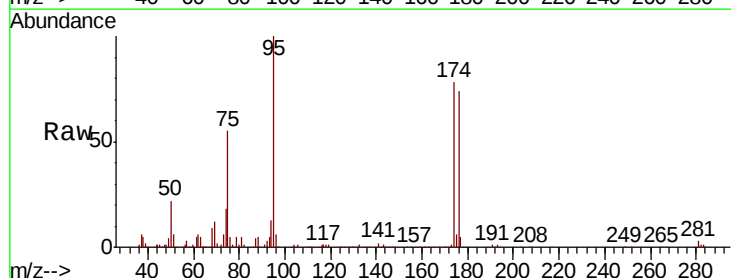
Tgt Ion: 95 Resp: 120249

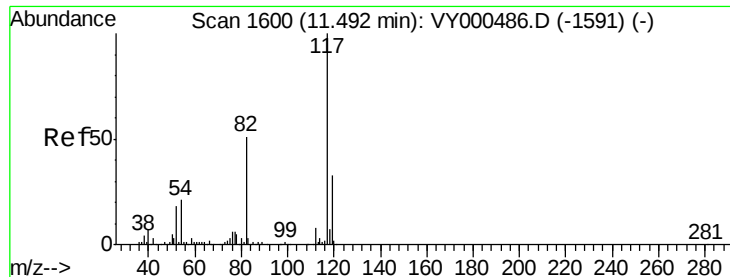
Ion Ratio Lower Upper

95 100

174 76.8 0.0 161.6

176 77.0 0.0 157.8

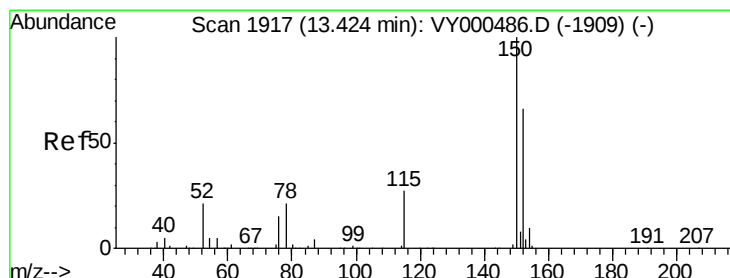
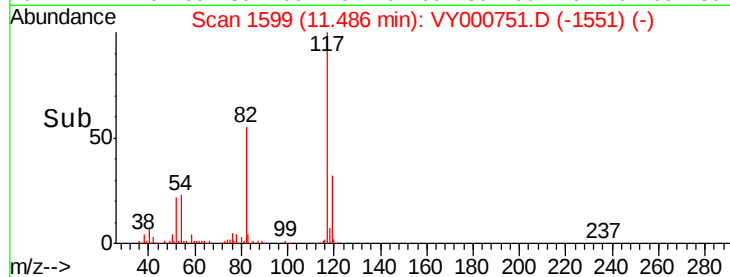
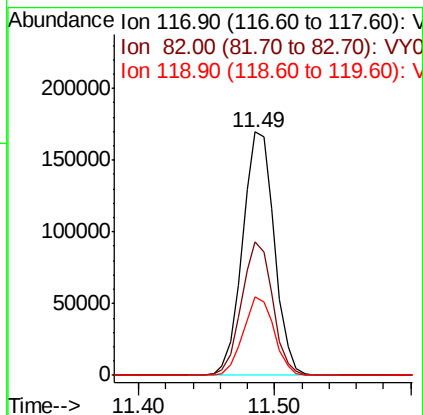
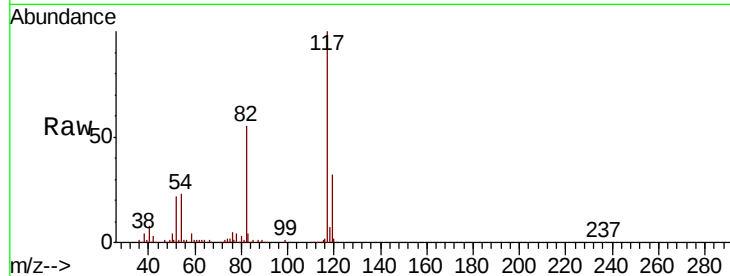




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

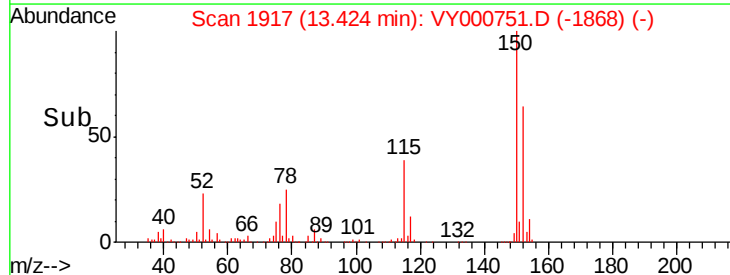
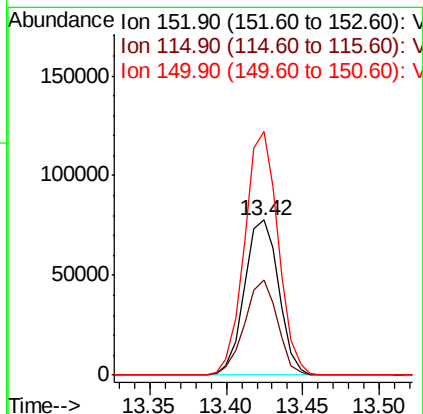
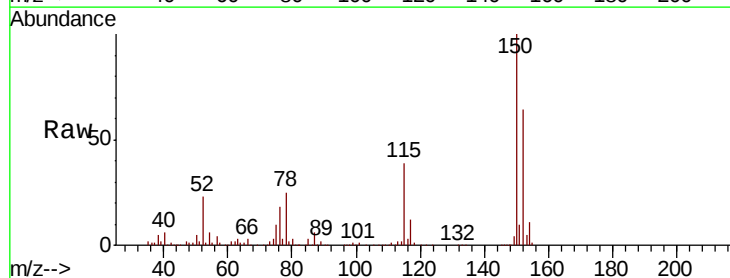
Instrument :  
MSVOA\_Y  
ClientSampleId :

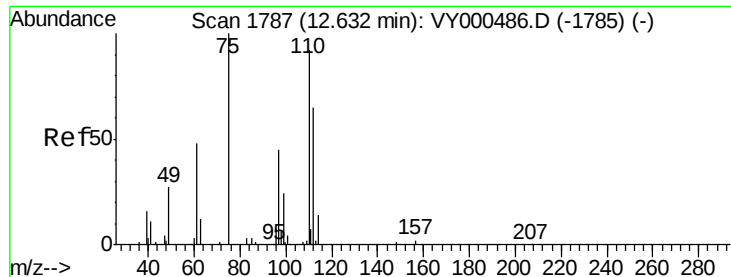
Tot Ion:117 Resp: 276279  
Ion Ratio Lower Upper  
117 100  
82 54.7 40.8 61.2  
119 32.4 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

Tgt Ion:152 Resp: 121463  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.1 87.4  
150 153.6 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 47.264 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

Instrument :

MSVOA\_Y

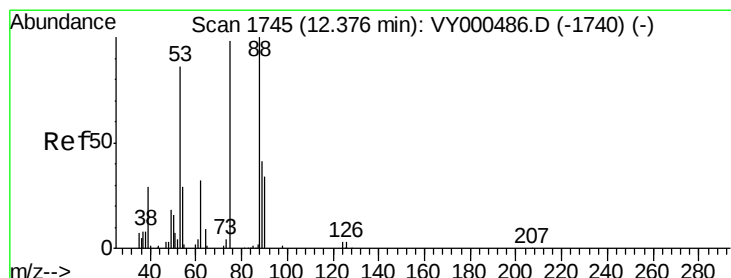
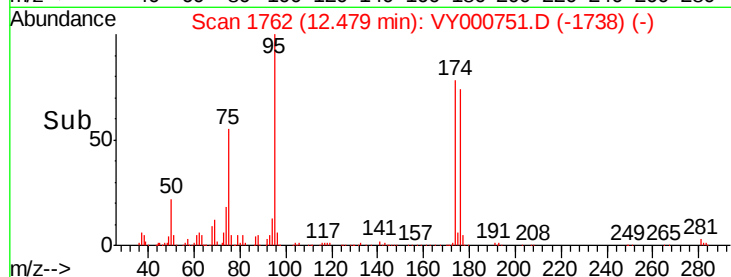
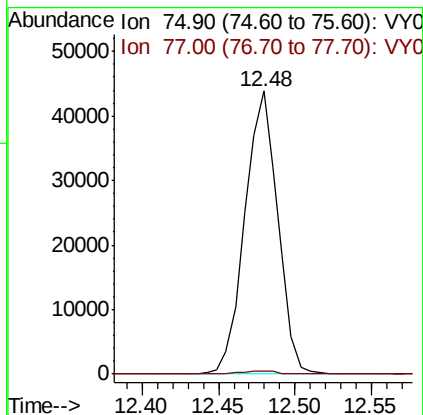
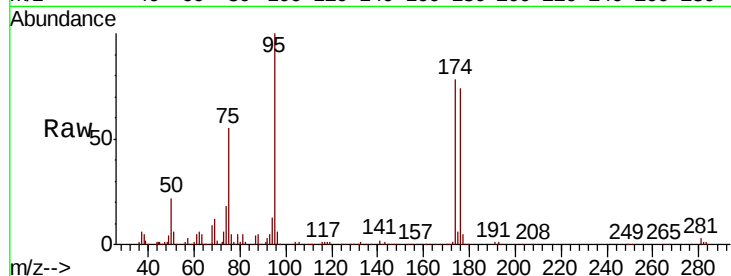
ClientSampleId :

Tot Ion: 75 Resp: 65367

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 105.972 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000751.D

Acq: 20 Nov 2019 13:37

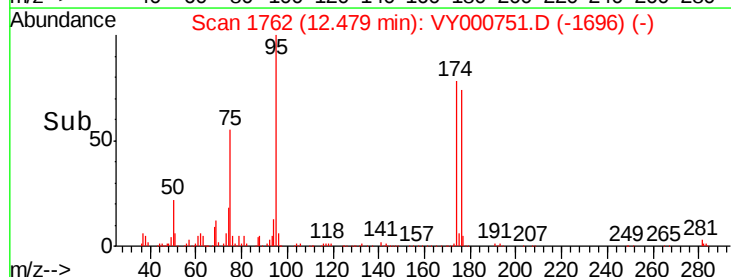
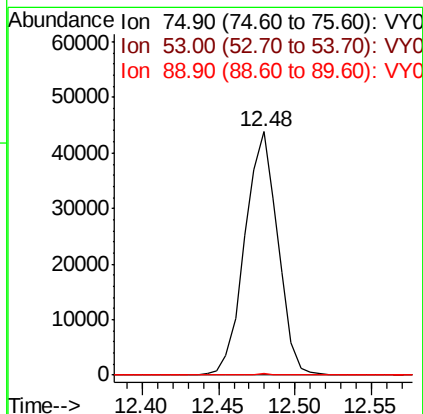
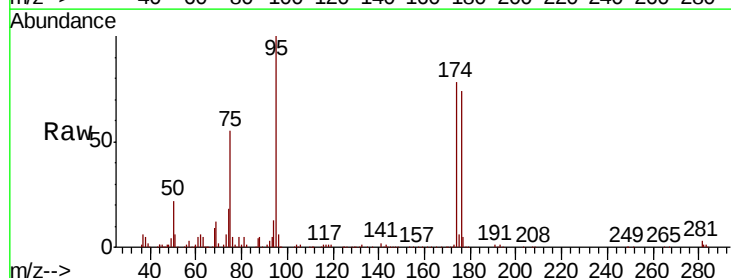
Tgt Ion: 75 Resp: 65367

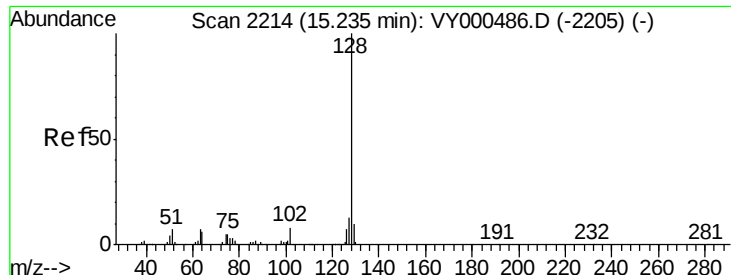
Ion Ratio Lower Upper

75 100

53 0.1 73.2 109.8#

89 0.3 35.9 53.9#

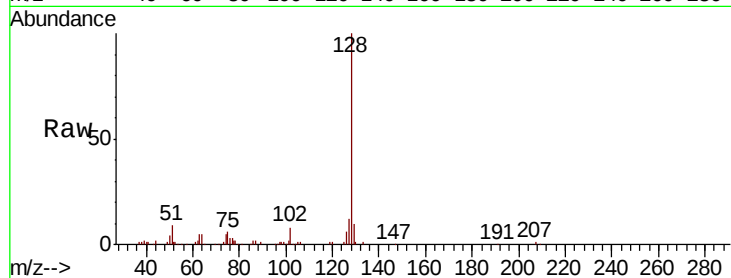




#95  
Naphthalene  
Concen: 8.177 ug/l  
RT: 15.23 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VY000751.D  
Acq: 20 Nov 2019 13:37

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.6  | 9.8   | 14.6  |
| 129     | 11.4  | 8.7   | 13.1  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

