

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110320\  
 Data File : VY003482.D  
 Acq On : 03 Nov 2020 11:07  
 Operator : SY/MD  
 Sample : VY1103SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1103SBL01

Quant Time: Nov 04 00:21:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y110220S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 02 12:40:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 208161   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 349772   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 301733   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 135171   | 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   | 123390   | 57.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.64% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 109059   | 51.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.48% |          |
| 50) Toluene-d8              | 10.18 | 98   | 419792   | 47.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 126645   | 43.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.34%  |          |

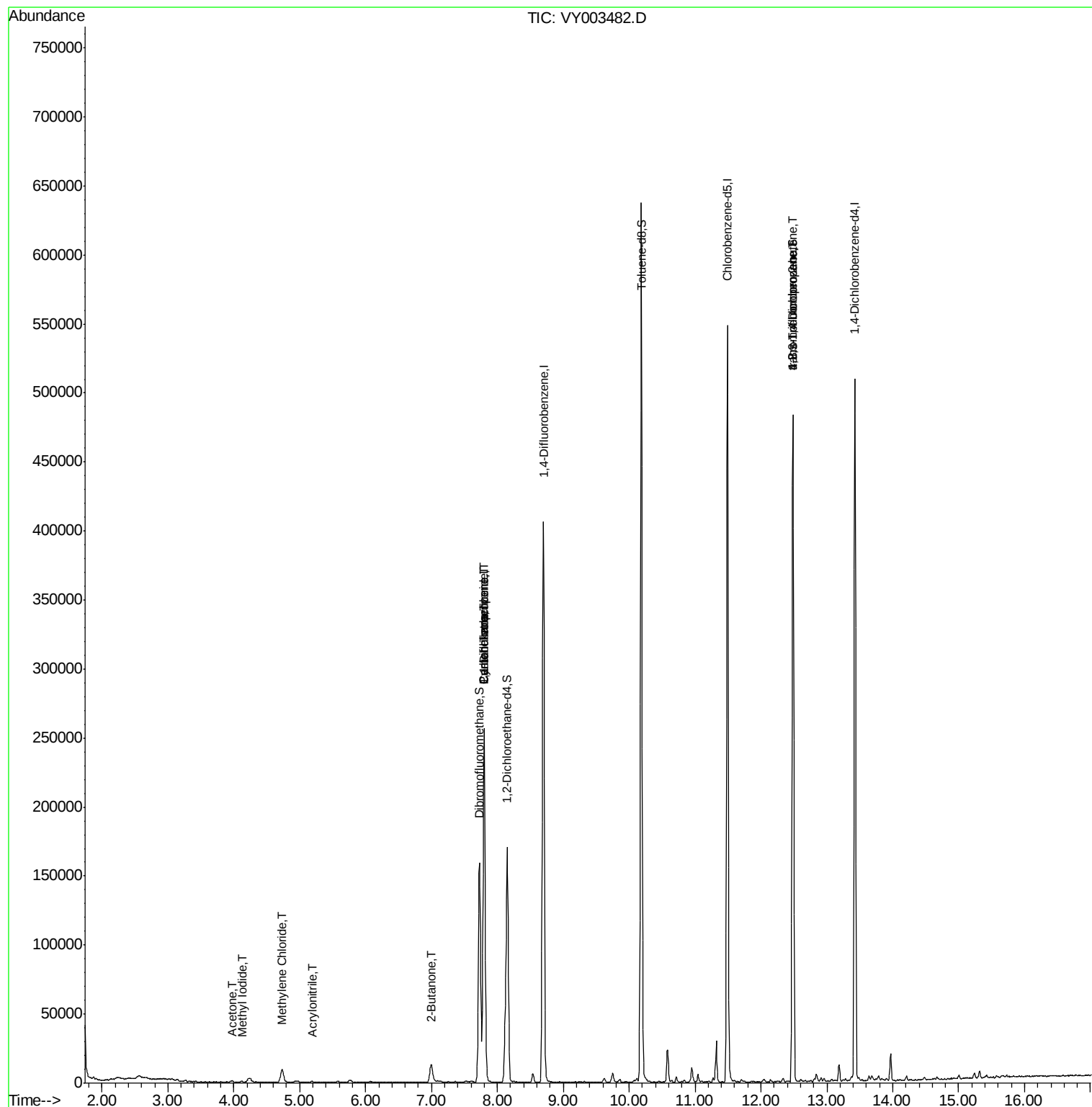
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.13  | 142  | 935      | 5.089     | ug/l # | 81     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 755      | Below Cal | #      | 73     |
| 15) Acrylonitrile              | 5.20  | 53   | 570      | 1.127     | ug/l # | 71     |
| 16) Acetone                    | 3.97  | 43   | 1999     | 2.840     | ug/l # | 87     |
| 20) Methylene Chloride         | 4.73  | 84   | 6730     | 3.395     | ug/l   | 98     |
| 25) 2-Butanone                 | 7.01  | 43   | 1463     | 1.662     | ug/l # | 76     |
| 31) Cyclohexane                | 7.80  | 56   | 4001     | 1.251     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 14600    | 4.427     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 18641    | 5.449     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 67336    | 47.081    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 67336    | 98.267    | ug/l # | 12     |

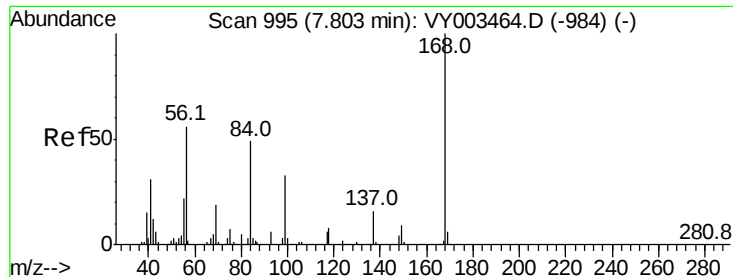
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY110320\  
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MSVOA\_Y  
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Quant Time: Nov 04 00:21:57 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y110220S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 02 12:40:51 2020  
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: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

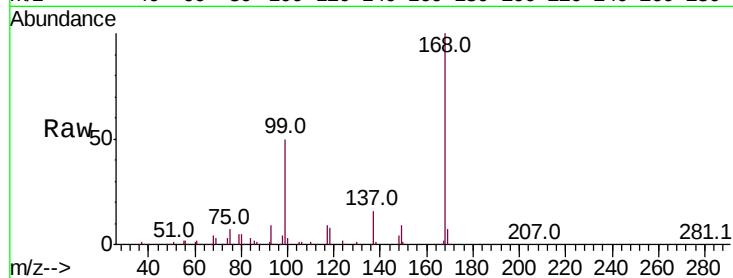
VY1103SBL01

Tot Ion:168 Resp: 208161

Ion Ratio Lower Upper

168 100

99 50.4 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0

7.80

100000

80000

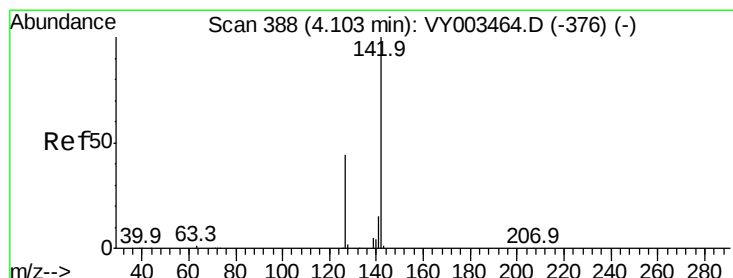
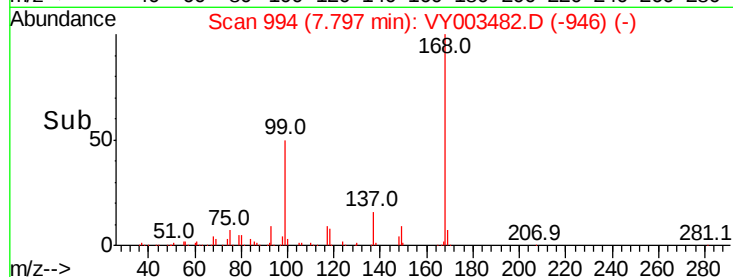
60000

40000

20000

0

Time-->



#10

Methyl Iodide

Concen: 5.089 ug/l

RT: 4.13 min Scan# 392

Delta R.T. 0.02 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

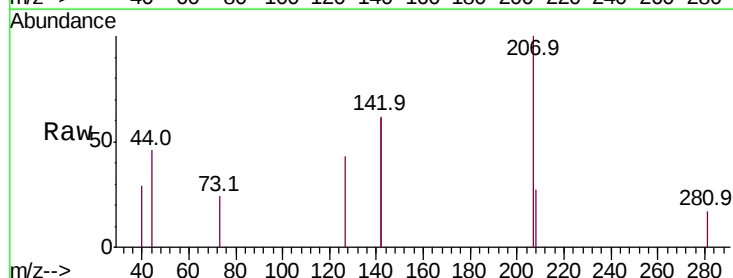
Tgt Ion:142 Resp: 935

Ion Ratio Lower Upper

142 100

127 34.5 34.5 51.7

141 0.0 11.8 17.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.13

500

400

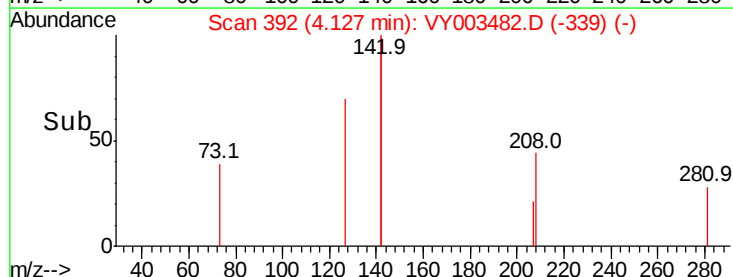
300

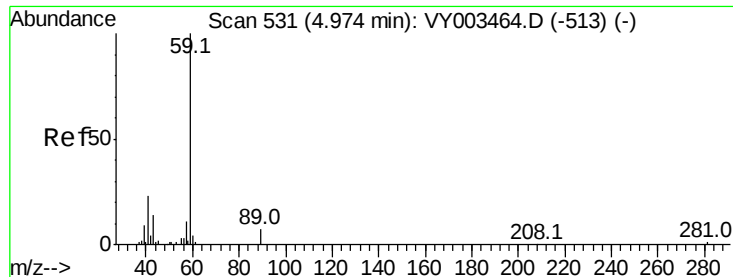
200

100

0

Time-->



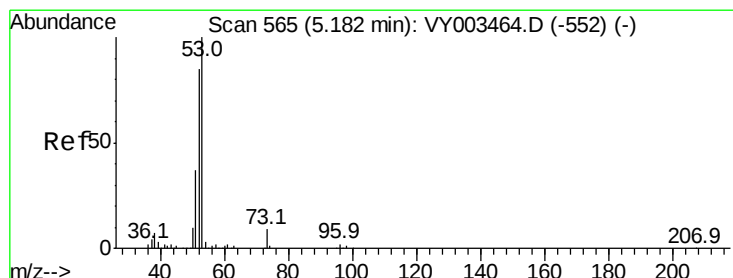
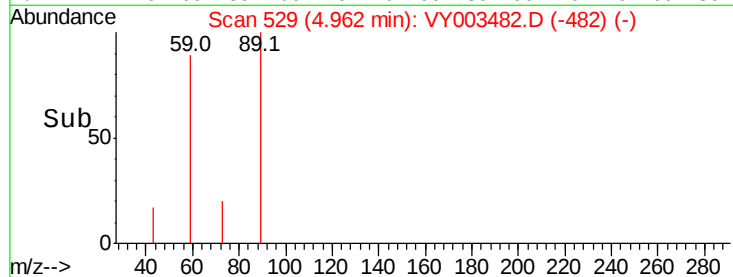
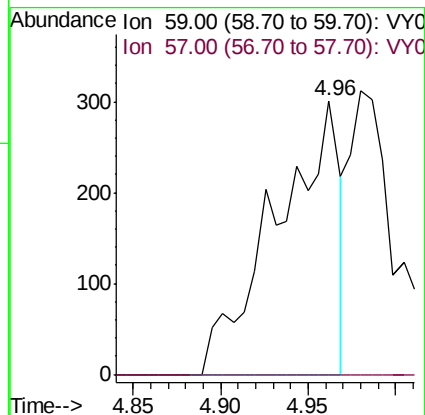
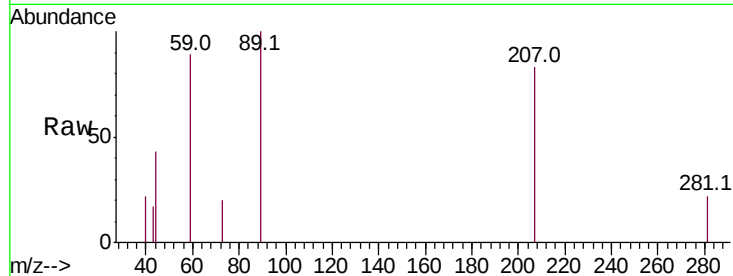


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.96 min Scan# 529  
 Delta R.T. -0.01 min  
 Lab File: VY003482.D  
 Acq: 03 Nov 2020 11:07

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1103SBL01

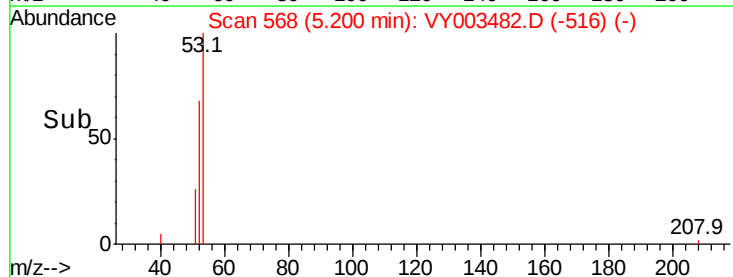
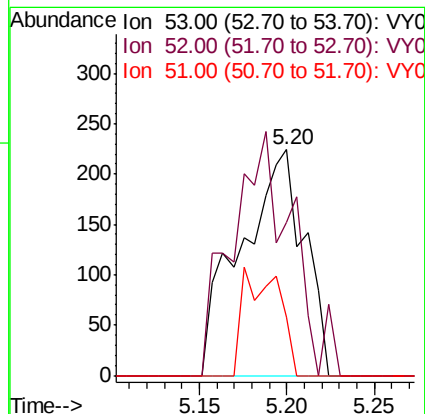
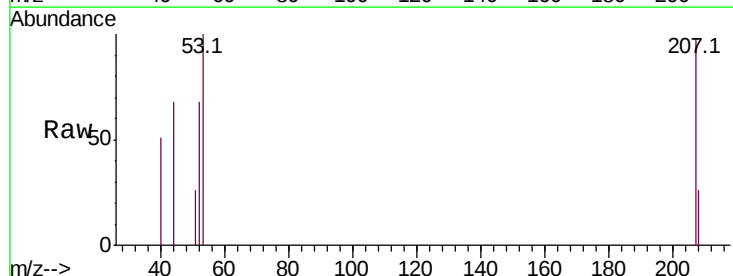
Tot Ion: 59 Resp: 755  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.9 11.9#

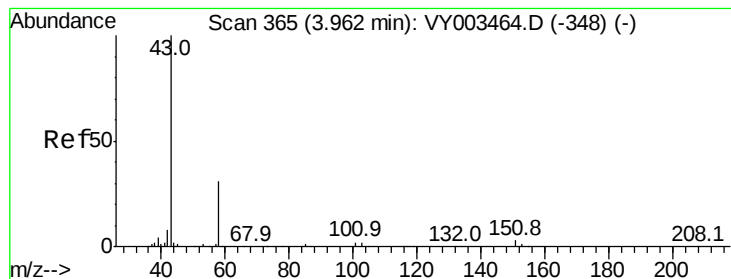


#15

Acrylonitrile  
 Concen: 1.127 ug/l  
 RT: 5.20 min Scan# 568  
 Delta R.T. 0.02 min  
 Lab File: VY003482.D  
 Acq: 03 Nov 2020 11:07

Tgt Ion: 53 Resp: 570  
 Ion Ratio Lower Upper  
 53 100  
 52 96.8 66.9 100.3  
 51 0.0 29.3 43.9#





#16

Acetone

Concen: 2.840 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

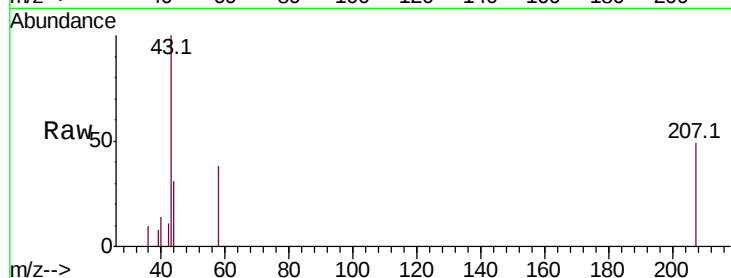
VY1103SBL01

Tot Ion: 43 Resp: 1999

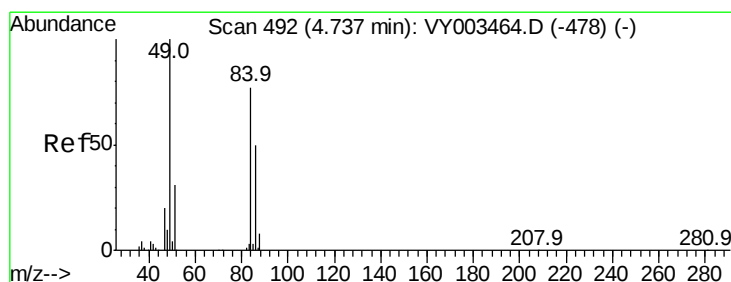
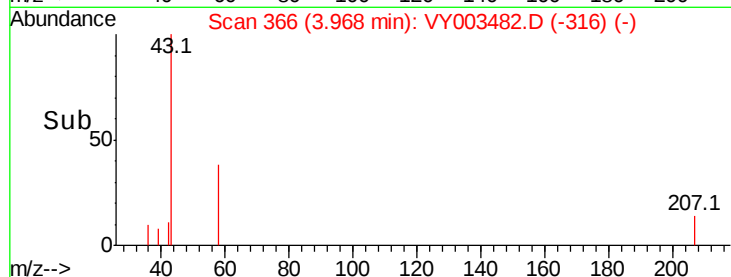
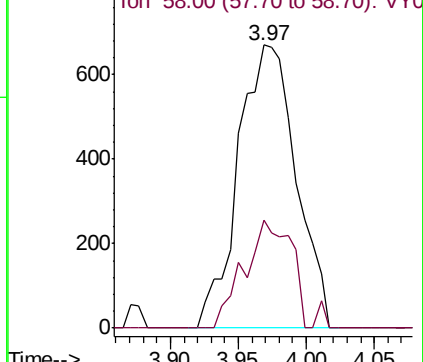
Ion Ratio Lower Upper

43 100

58 38.4 25.0 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VY003464.D (-348) (-)



#20

Methylene Chloride

Concen: 3.395 ug/l

RT: 4.73 min Scan# 491

Delta R.T. -0.01 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Tgt Ion: 84 Resp: 6730

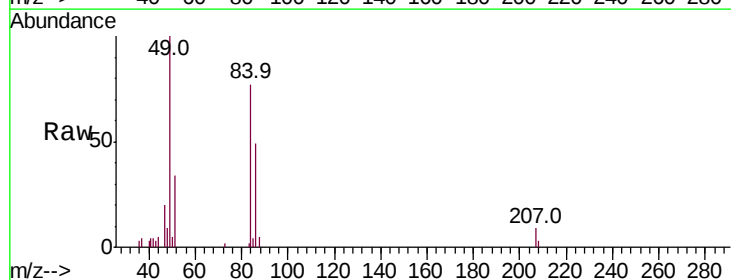
Ion Ratio Lower Upper

84 100

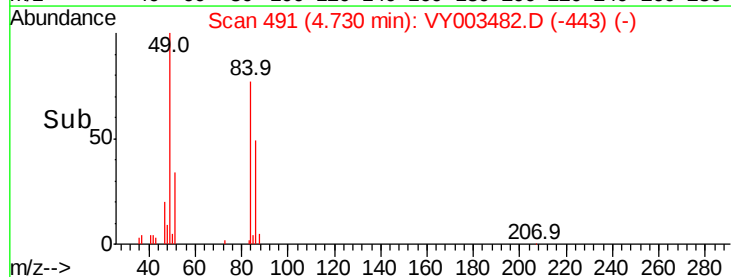
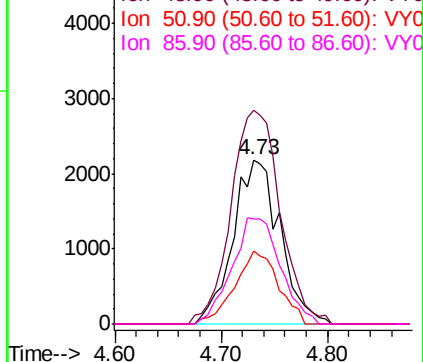
49 129.8 104.3 156.5

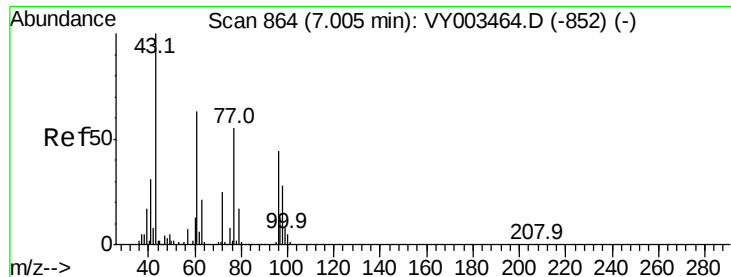
51 44.1 32.5 48.7

86 63.5 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VY003464.D (-478) (-)

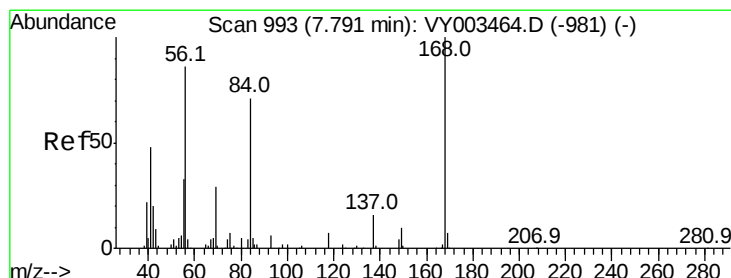
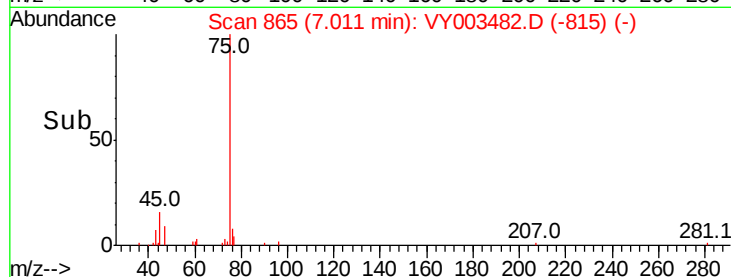
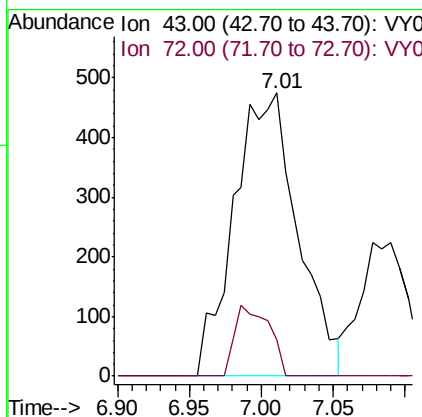
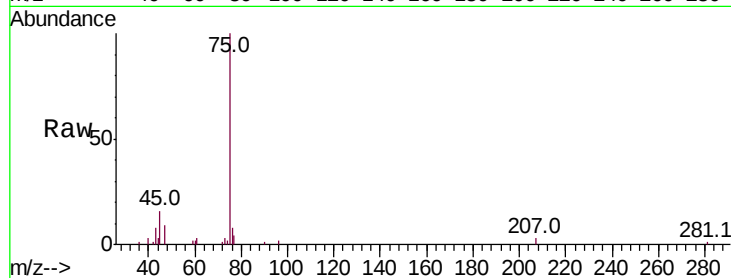




#25  
2-Butanone  
Concen: 1.662 ug/l  
RT: 7.01 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VY003482.D  
Acq: 03 Nov 2020 11:07

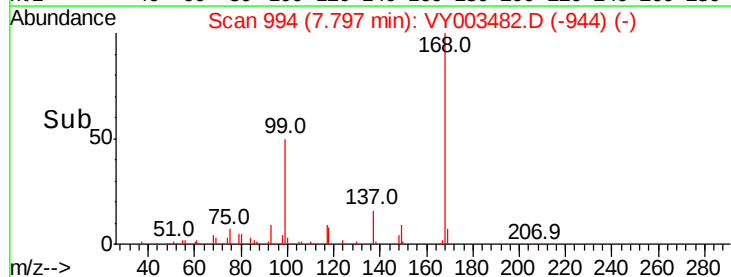
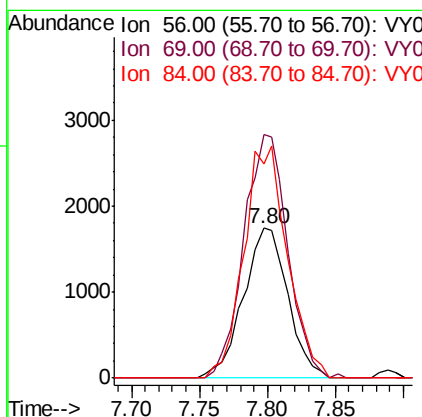
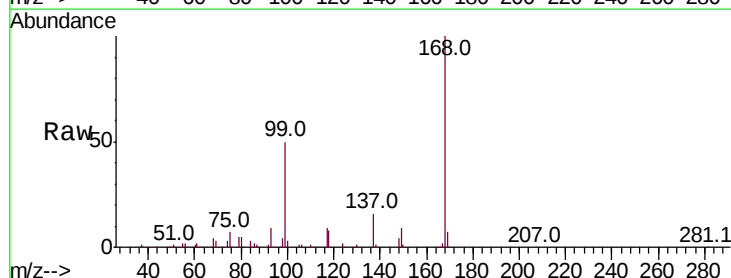
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1103SBL01

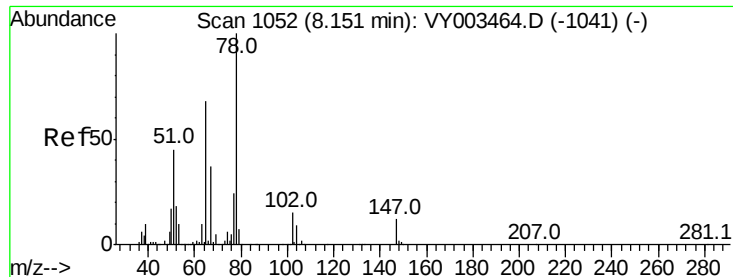
Tot Ion: 43 Resp: 1463  
Ion Ratio Lower Upper  
43 100  
72 12.9 20.1 30.1#



#31  
Cyclohexane  
Concen: 1.251 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VY003482.D  
Acq: 03 Nov 2020 11:07

Tgt Ion: 56 Resp: 4001  
Ion Ratio Lower Upper  
56 100  
69 162.6 26.6 39.8#  
84 143.3 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 57.820 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

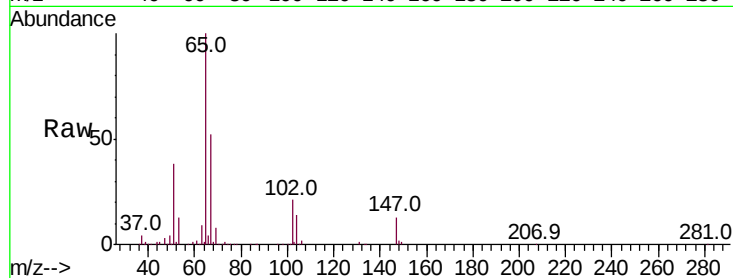
VY1103SBL01

Tot Ion: 65 Resp: 123390

Ion Ratio Lower Upper

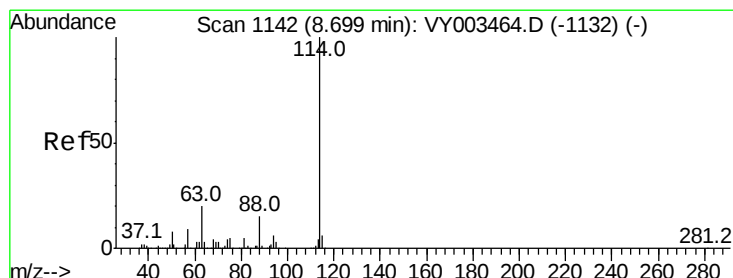
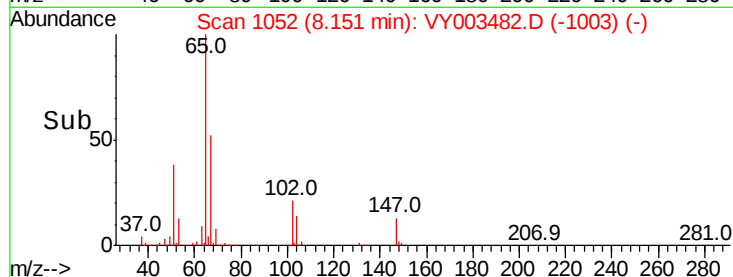
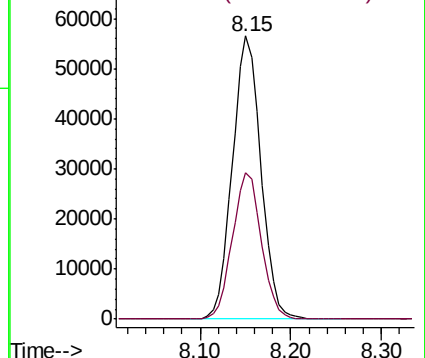
65 100

67 52.5 0.0 106.0



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: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

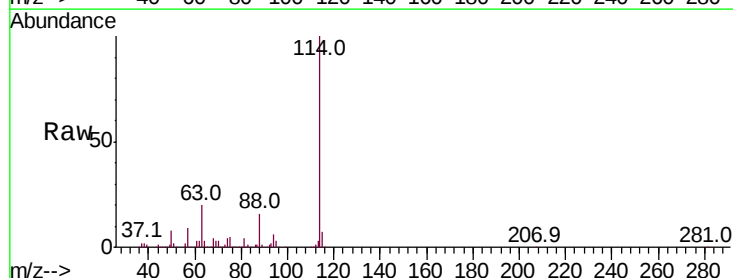
Tgt Ion: 114 Resp: 349772

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.6

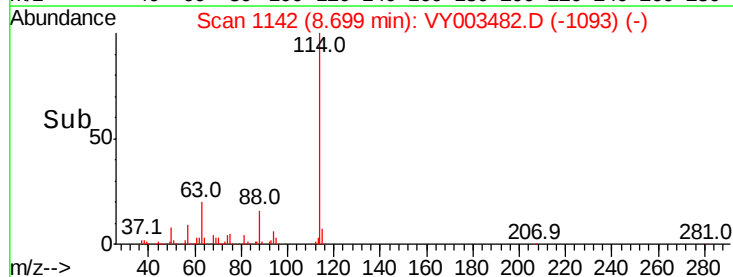
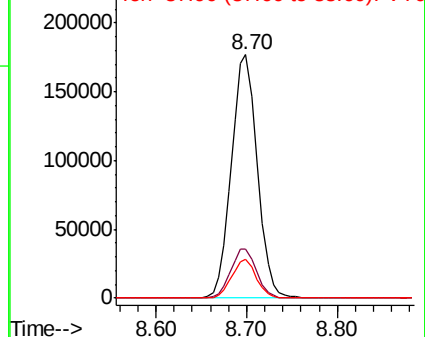
88 15.8 0.0 29.4

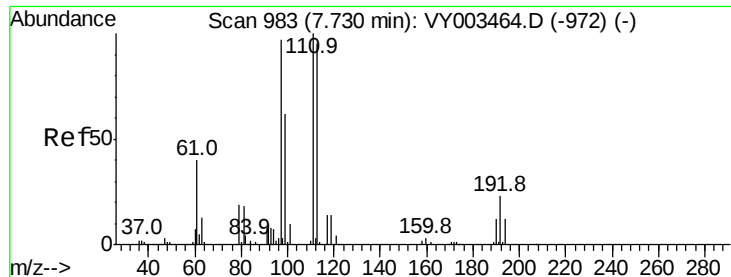


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0





#35

Dibromofluoromethane

Concen: 51.239 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1103SBL01

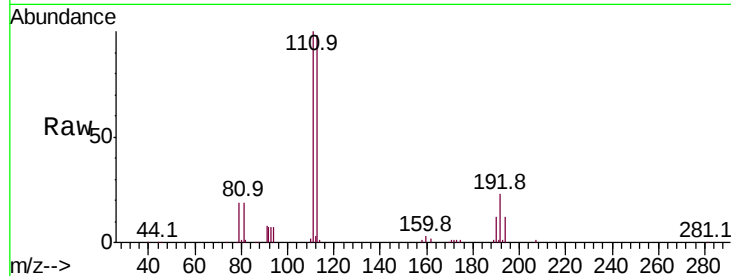
Tot Ion:113 Resp: 109059

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.6

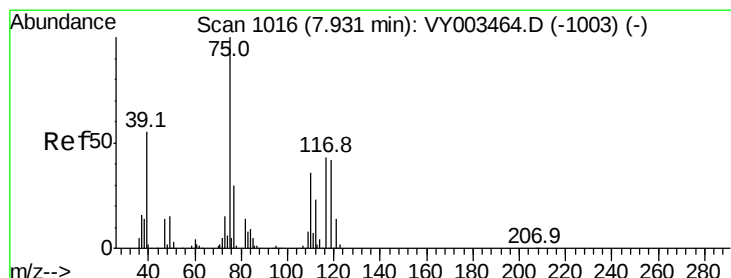
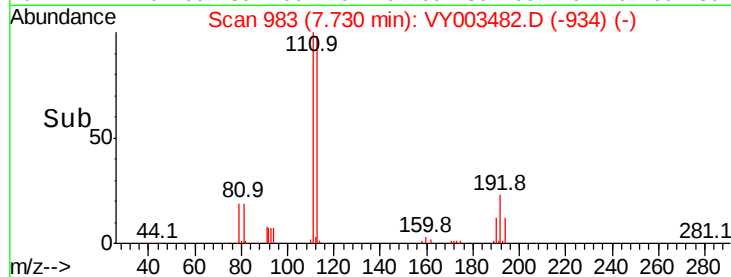
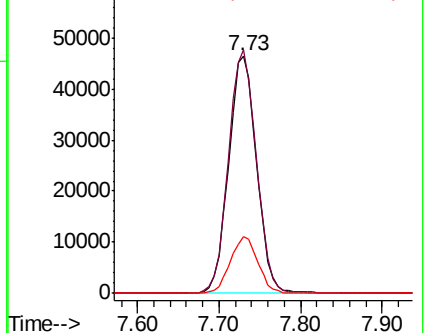
192 23.7 18.8 28.2



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: 4.427 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

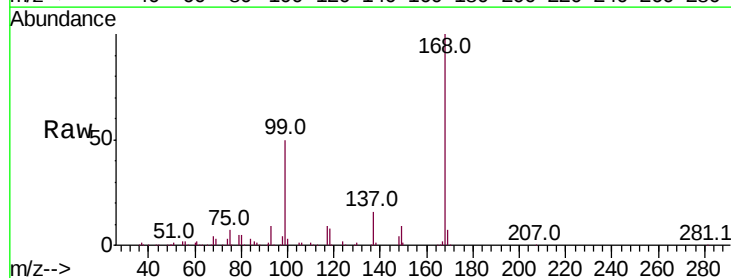
Tgt Ion: 75 Resp: 14600

Ion Ratio Lower Upper

75 100

110 9.6 17.6 52.9#

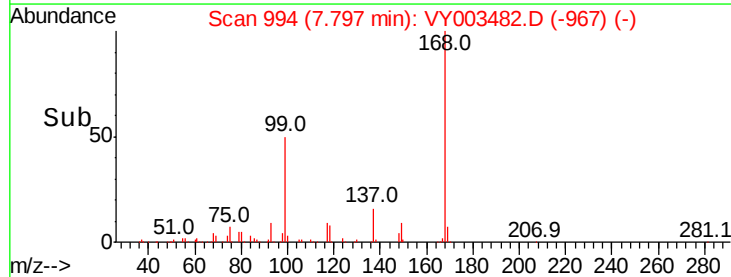
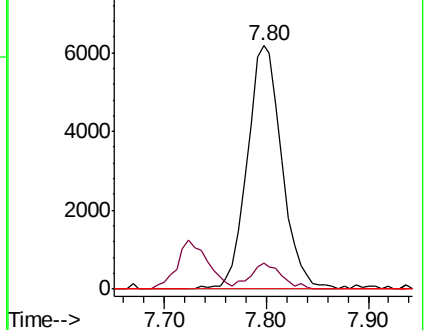
77 0.0 24.7 37.1#

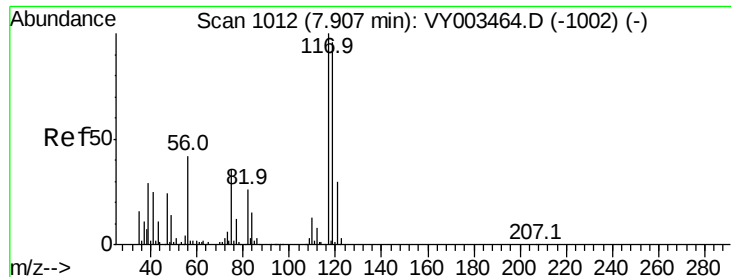


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#38

Carbon Tetrachloride

Concen: 5.449 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1103SBL01

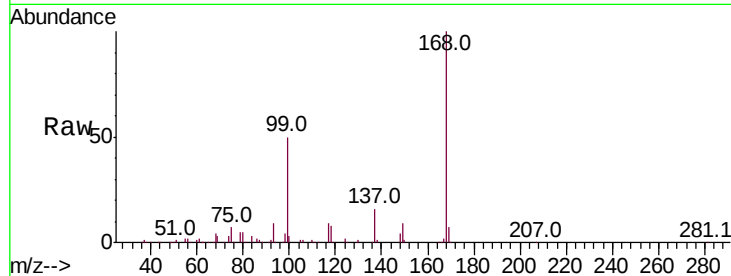
Tot Ion:117 Resp: 18641

Ion Ratio Lower Upper

117 100

119 4.0 76.2 114.4#

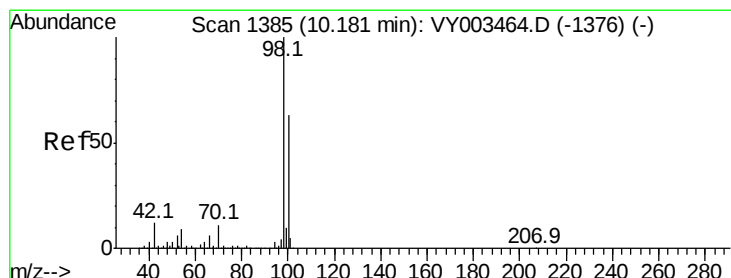
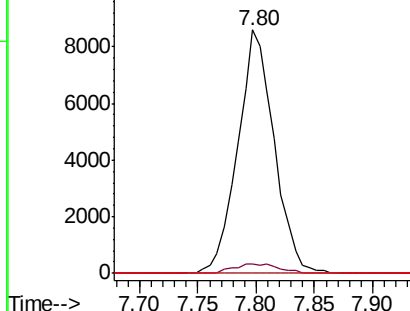
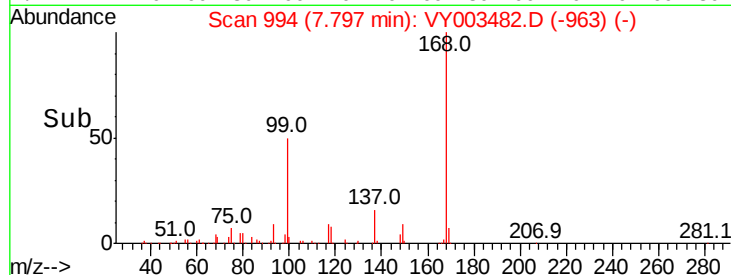
121 0.0 24.2 36.4#



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: 47.410 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003482.D

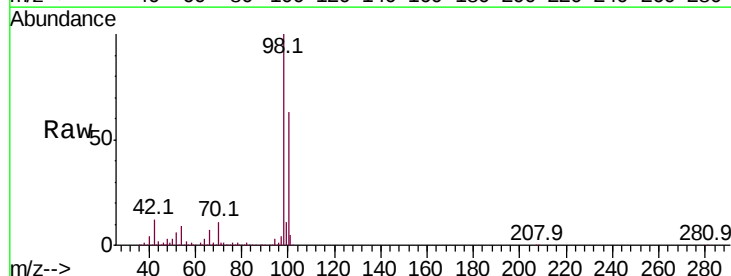
Acq: 03 Nov 2020 11:07

Tgt Ion: 98 Resp: 419792

Ion Ratio Lower Upper

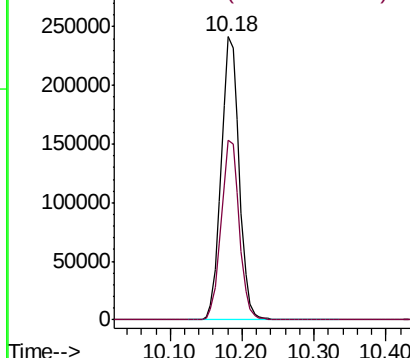
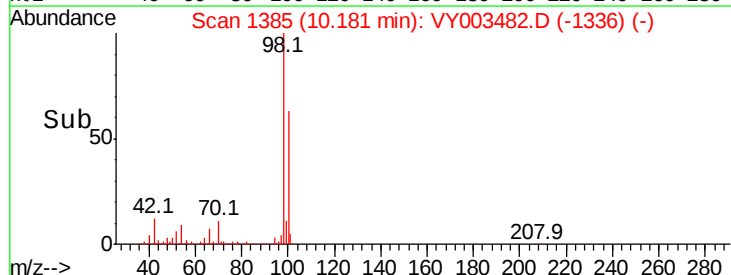
98 100

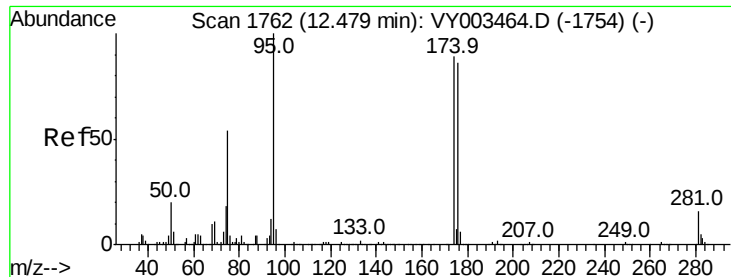
100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

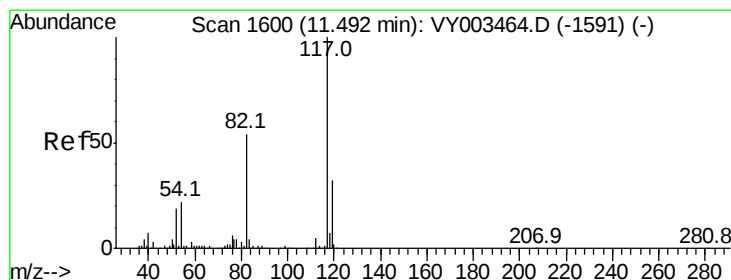
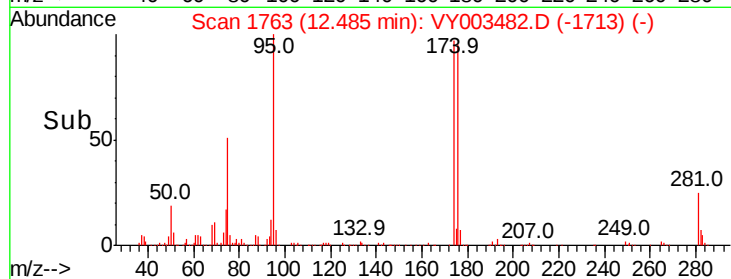
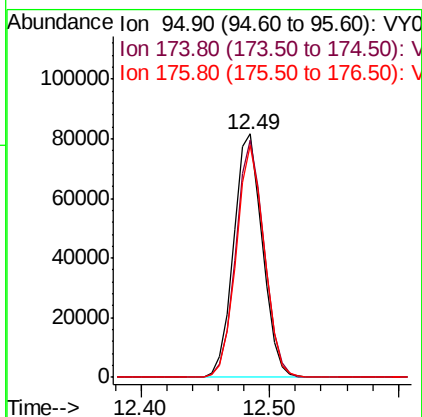
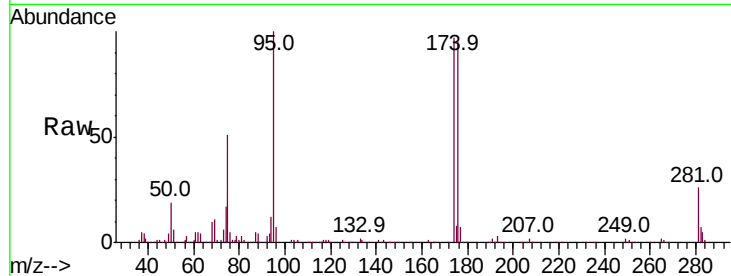




#62  
4-Bromofluorobenzene  
Concen: 43.168 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. 0.01 min  
Lab File: VY003482.D  
Acq: 03 Nov 2020 11:07

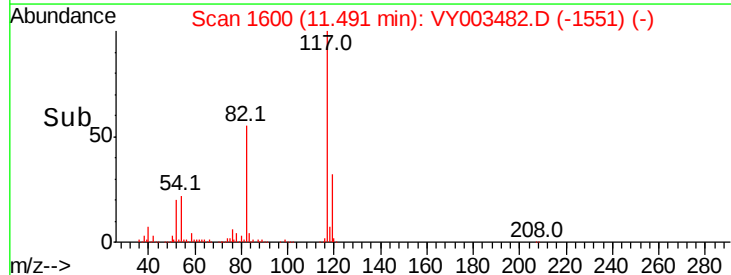
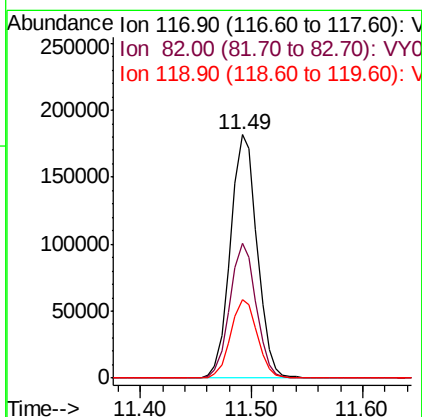
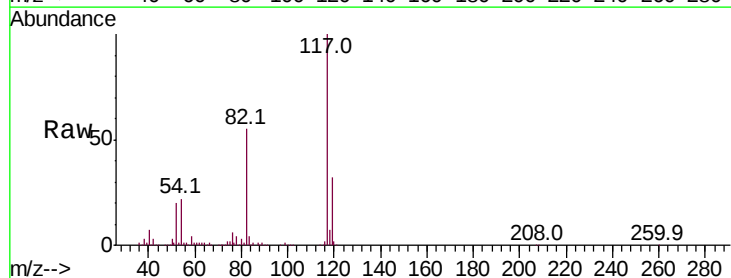
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1103SBL01

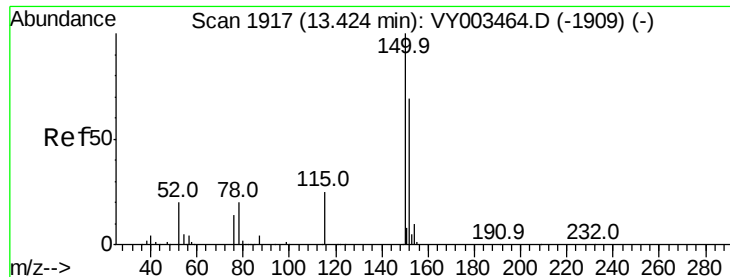
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 95.1  | 0.0   | 193.0 |
| 176     | 92.4  | 0.0   | 187.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003482.D  
Acq: 03 Nov 2020 11:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.3  | 43.4  | 65.2  |
| 119     | 32.2  | 25.8  | 38.6  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.01 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1103SBL01

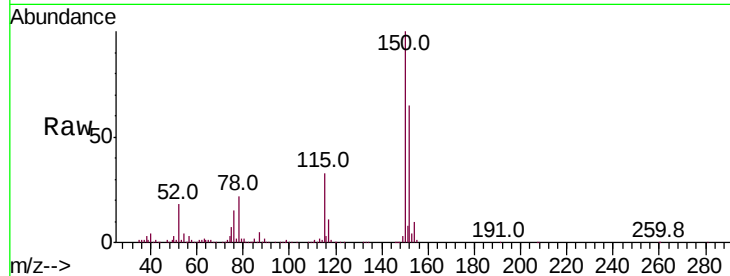
Tot Ion:152 Resp: 135171

Ion Ratio Lower Upper

152 100

115 54.5 27.5 82.4

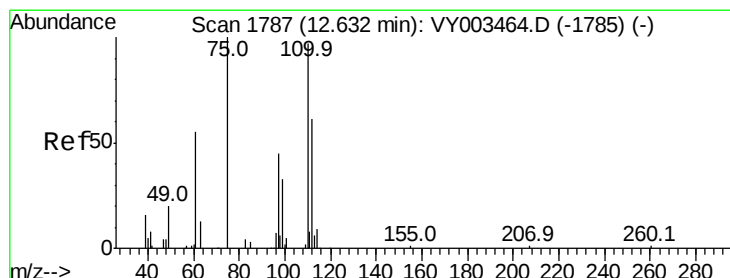
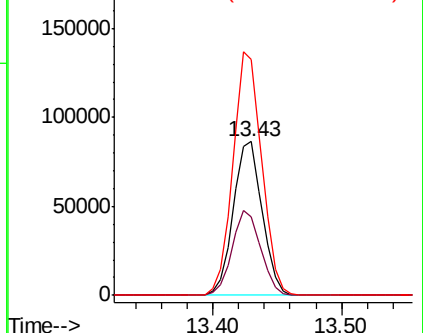
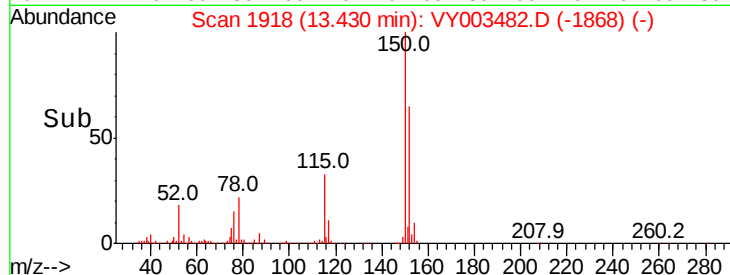
150 157.2 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 47.081 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY003482.D

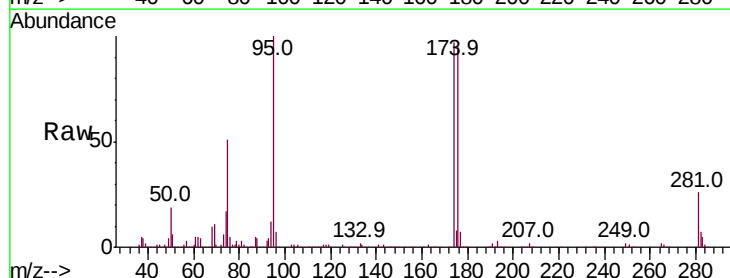
Acq: 03 Nov 2020 11:07

Tgt Ion: 75 Resp: 67336

Ion Ratio Lower Upper

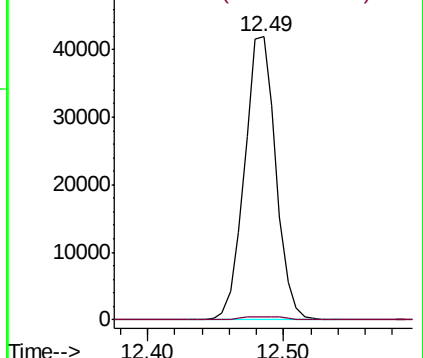
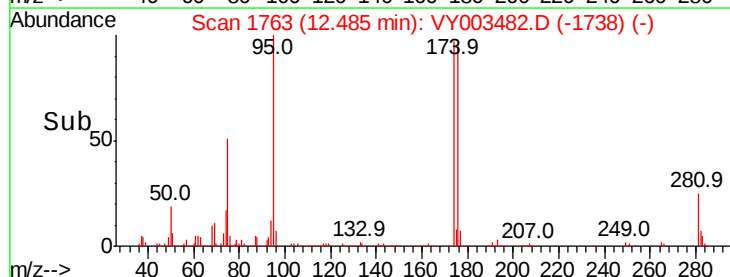
75 100

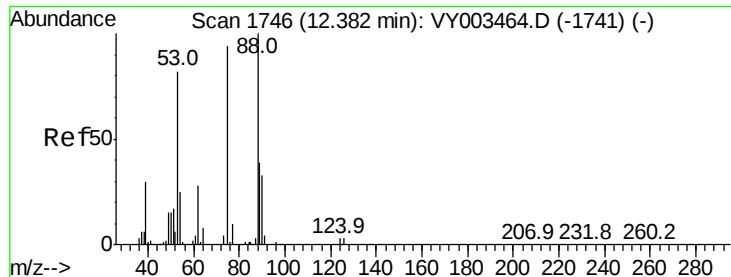
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 98.267 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY003482.D

Acq: 03 Nov 2020 11:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1103SBL01

Tot Ion: 75 Resp: 67336

Ion Ratio Lower Upper

75 100

53 0.1 74.7 112.1#

89 0.4 35.8 53.8#

