

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110220\  
 Data File : VY003468.D  
 Acq On : 02 Nov 2020 13:24  
 Operator : SY/MD  
 Sample : VY1102SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1102SBL01

Quant Time: Nov 03 01:53:41 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  | 239433   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 364028   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 307660   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 139683   | 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   | 127243   | 51.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.68% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 111743   | 50.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.88% |          |
| 50) Toluene-d8              | 10.18 | 98   | 426257   | 46.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.50%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 129709   | 42.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.96%  |          |

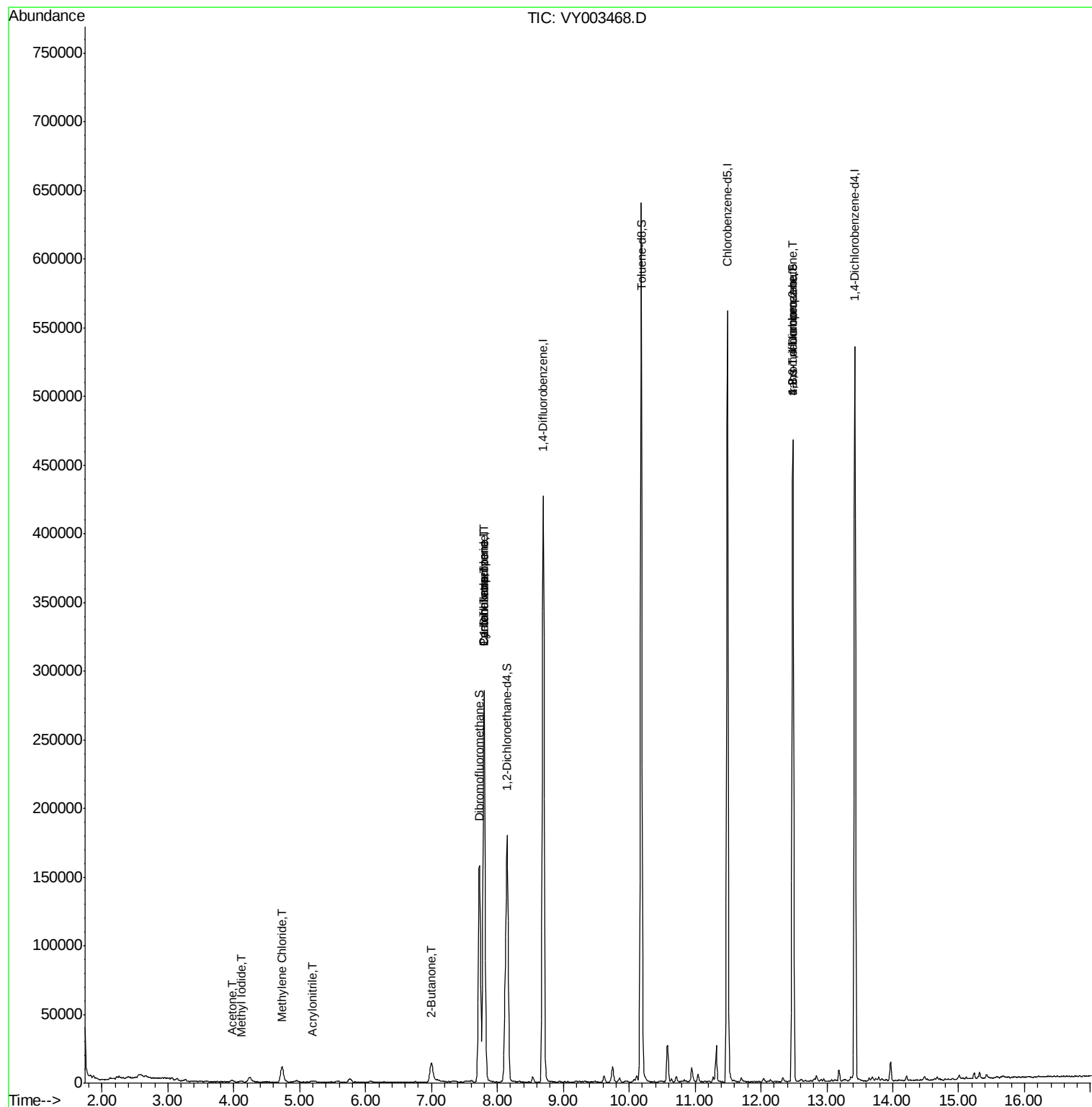
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.11  | 142  | 1242     | 5.164     | ug/l # | 84     |
| 11) Tert butyl alcohol         | 4.95  | 59   | 804      | Below Cal | #      | 73     |
| 15) Acrylonitrile              | 5.19  | 53   | 909      | 1.563     | ug/l # | 74     |
| 16) Acetone                    | 3.97  | 43   | 2343     | 2.894     | ug/l   | 93     |
| 20) Methylene Chloride         | 4.73  | 84   | 8174     | 3.584     | ug/l   | 94     |
| 25) 2-Butanone                 | 7.00  | 43   | 1651     | 1.630     | ug/l # | 87     |
| 31) Cyclohexane                | 7.80  | 56   | 4482     | 1.218     | ug/l # | 7      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 16700    | 4.866     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 21346    | 5.995     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 68876    | 46.603    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 68876    | 97.267    | ug/l # | 12     |

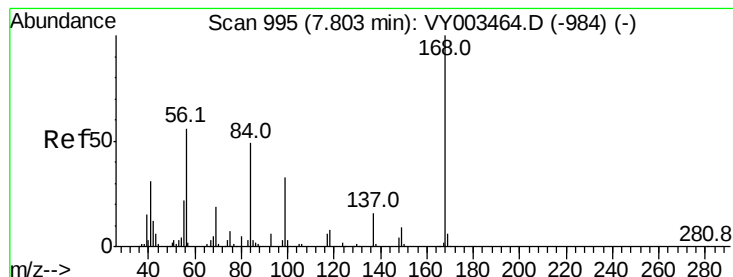
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY110220\  
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Sample : VY1102SBL01  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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VY1102SBL01

Quant Time: Nov 03 01:53:41 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: VY003468.D

Acq: 02 Nov 2020 13:24

Instrument :

MSVOA\_Y

ClientSampleId :

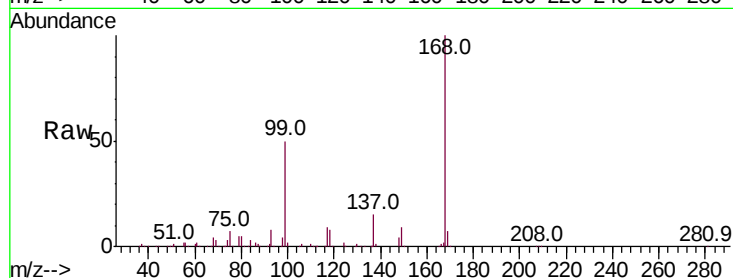
VY1102SBL01

Tot Ion:168 Resp: 239433

Ion Ratio Lower Upper

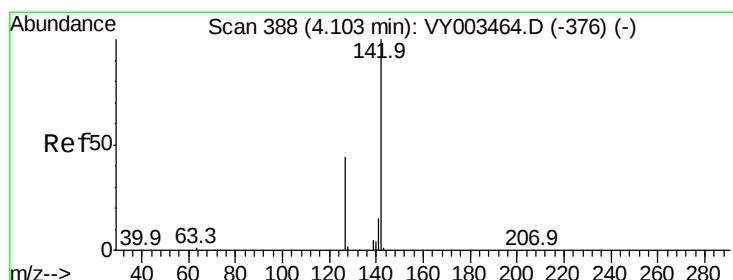
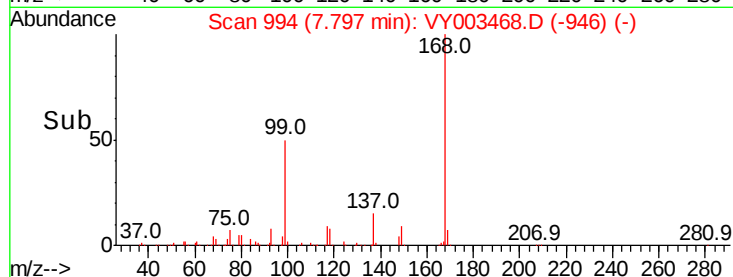
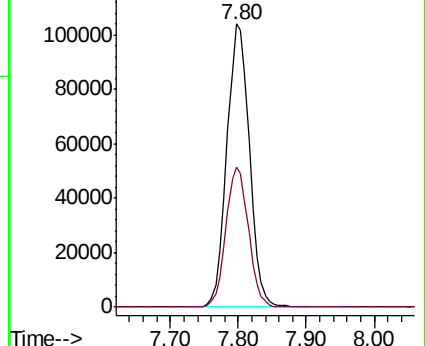
168 100

99 49.6 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0



#10

Methyl Iodide

Concen: 5.164 ug/l

RT: 4.11 min Scan# 390

Delta R.T. 0.01 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

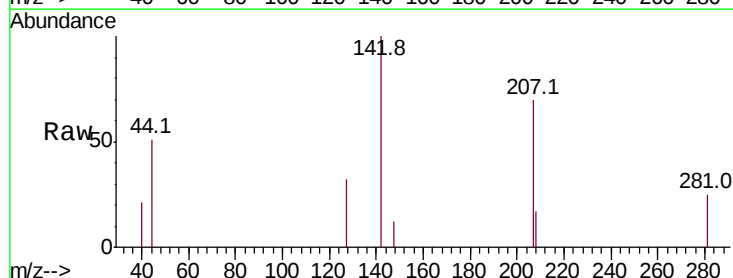
Tgt Ion:142 Resp: 1242

Ion Ratio Lower Upper

142 100

127 37.0 34.5 51.7

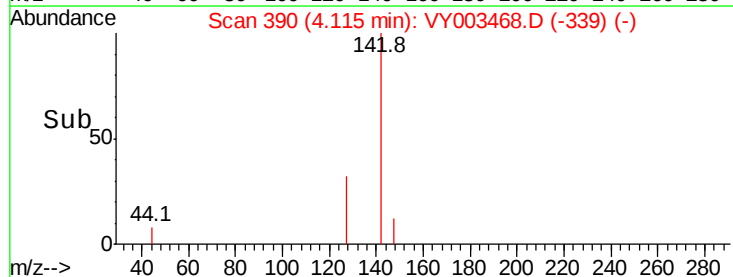
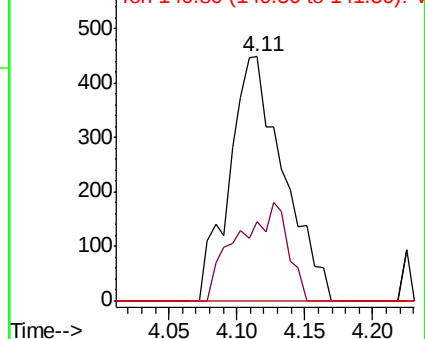
141 0.0 11.8 17.8#

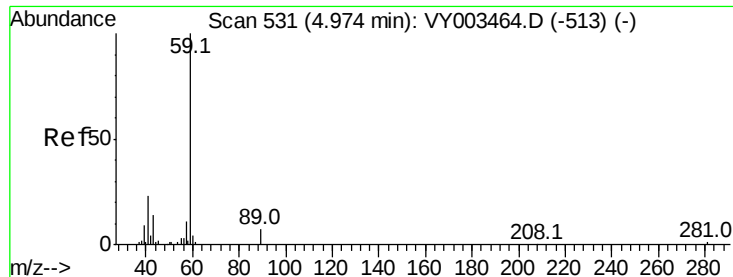


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



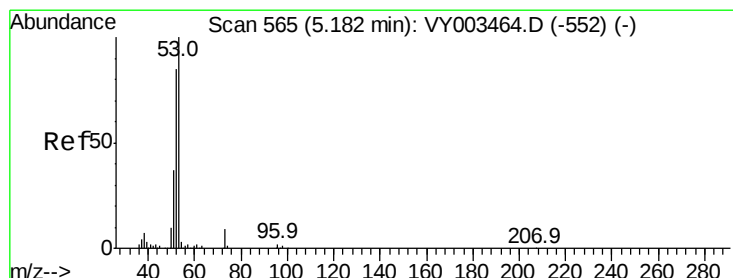
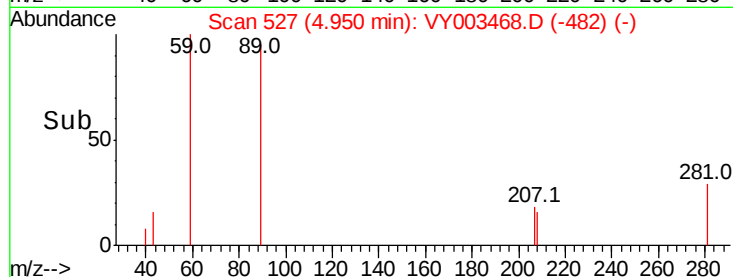
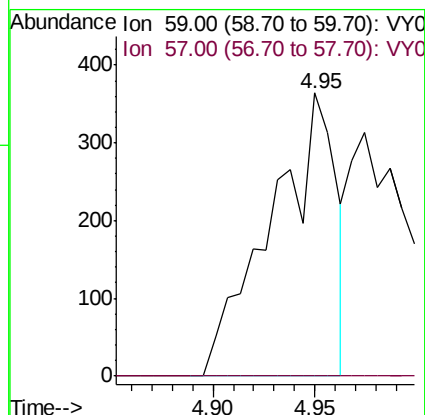
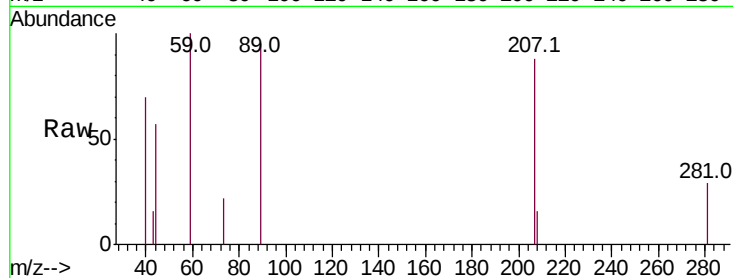


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.95 min Scan# 527  
 Delta R.T. -0.02 min  
 Lab File: VY003468.D  
 Acq: 02 Nov 2020 13:24

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1102SBL01

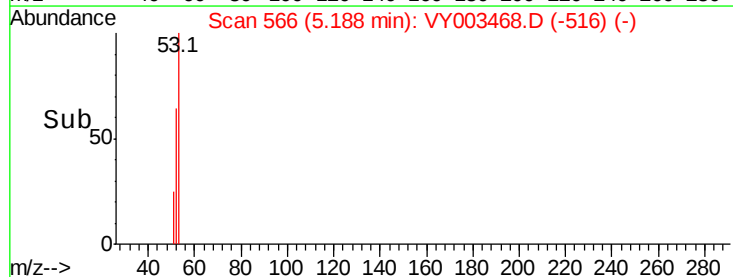
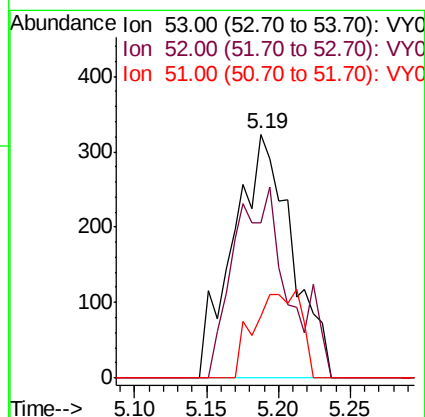
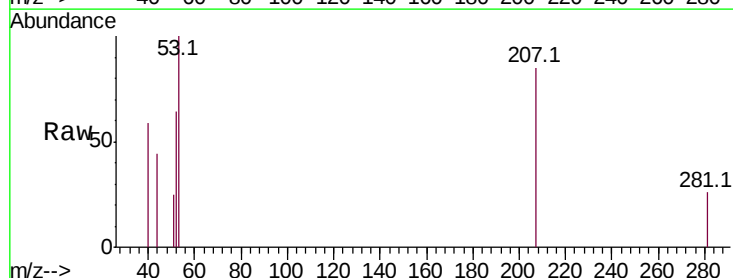
Tot Ion: 59 Resp: 804  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.9 11.9#

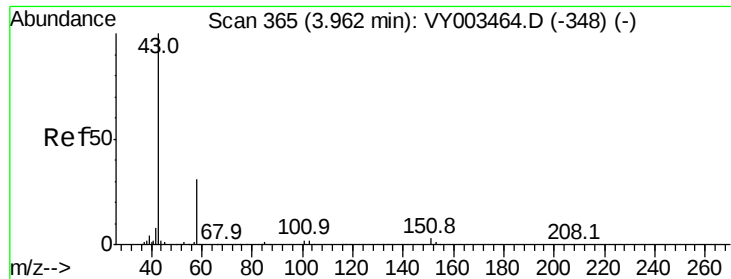


#15

Acrylonitrile  
 Concen: 1.563 ug/l  
 RT: 5.19 min Scan# 566  
 Delta R.T. 0.01 min  
 Lab File: VY003468.D  
 Acq: 02 Nov 2020 13:24

Tgt Ion: 53 Resp: 909  
 Ion Ratio Lower Upper  
 53 100  
 52 73.8 66.9 100.3  
 51 0.0 29.3 43.9#

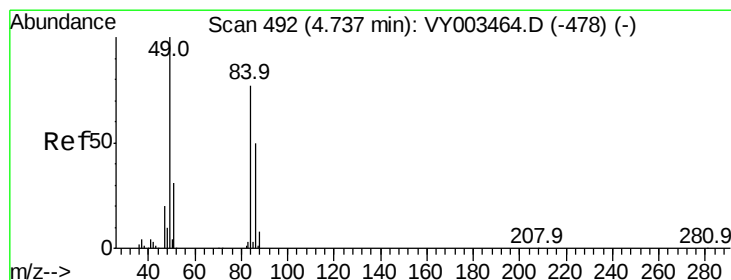
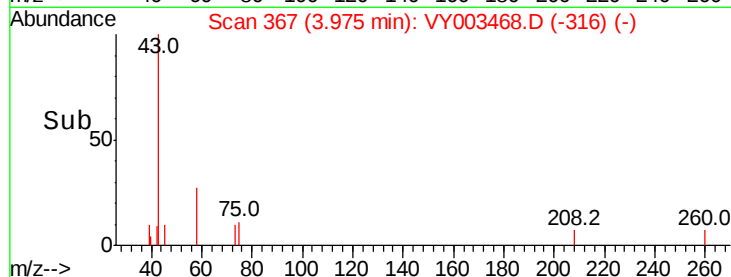
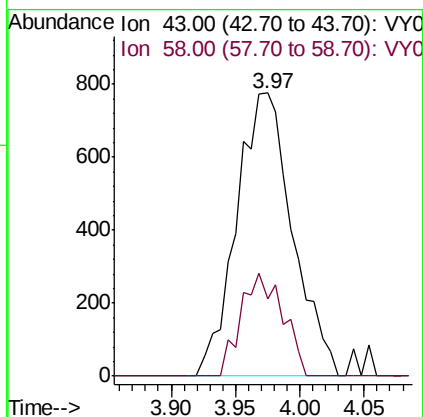
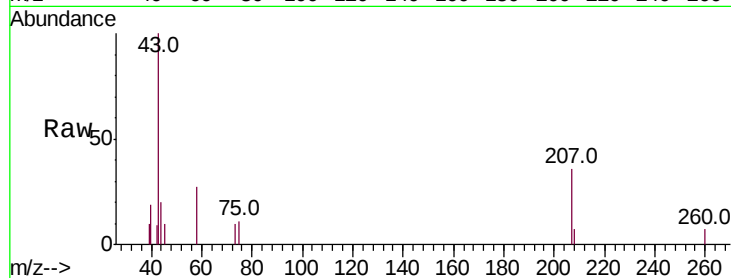




#16  
Acetone  
Concen: 2.894 ug/l  
RT: 3.97 min Scan# 367  
Delta R.T. 0.01 min  
Lab File: VY003468.D  
Acq: 02 Nov 2020 13:24

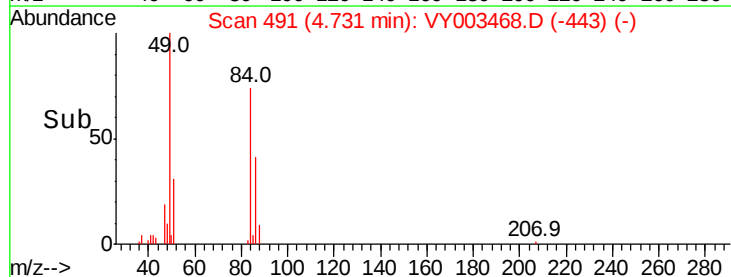
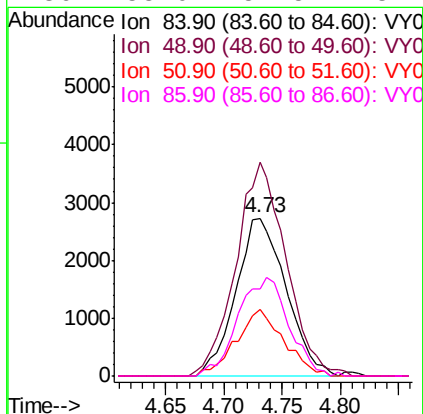
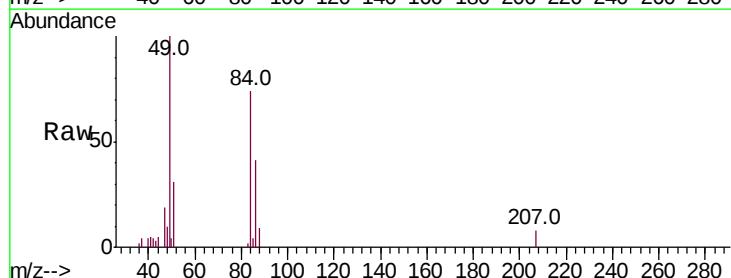
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1102SBL01

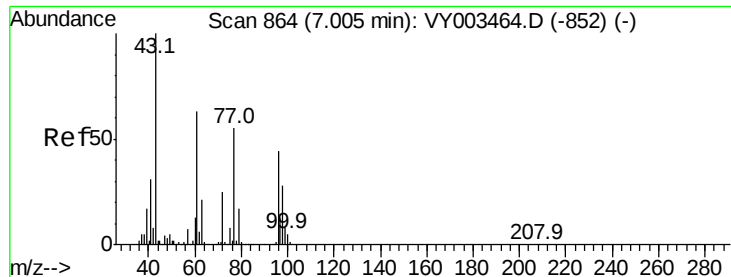
Tot Ion: 43 Resp: 2343  
Ion Ratio Lower Upper  
43 100  
58 27.3 25.0 37.4



#20  
Methylene Chloride  
Concen: 3.584 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: VY003468.D  
Acq: 02 Nov 2020 13:24

Tgt Ion: 84 Resp: 8174  
Ion Ratio Lower Upper  
84 100  
49 135.2 104.3 156.5  
51 41.9 32.5 48.7  
86 55.0 52.5 78.7





#25

2-Butanone

Concen: 1.630 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

Instrument :

MSVOA\_Y

ClientSampleId :

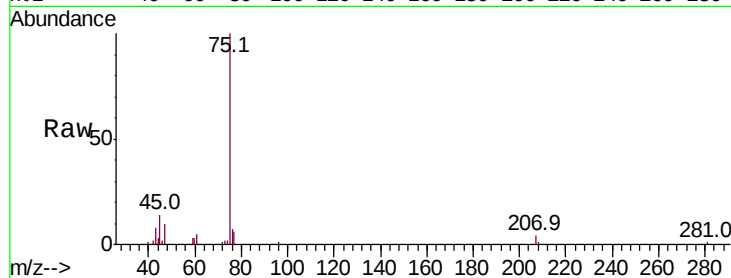
VY1102SBL01

Tot Ion: 43 Resp: 1651

Ion Ratio Lower Upper

43 100

72 18.4 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.00

600

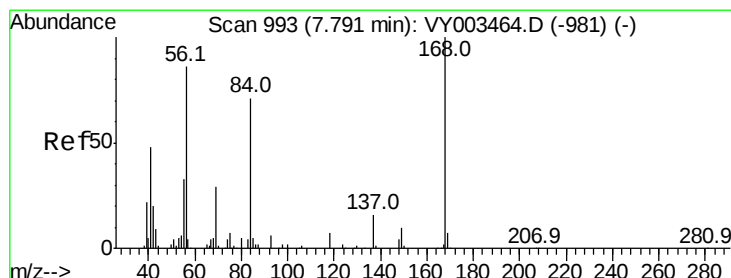
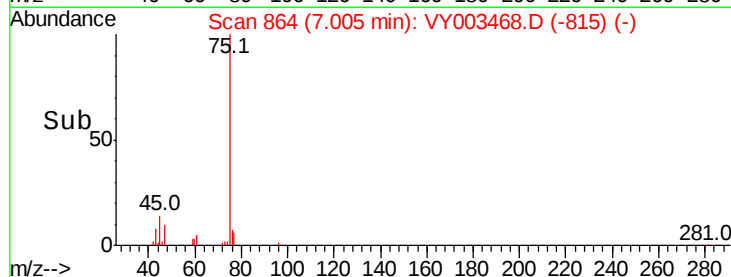
400

200

0

6.90 6.95 7.00 7.05

Time-->



#31

Cyclohexane

Concen: 1.218 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

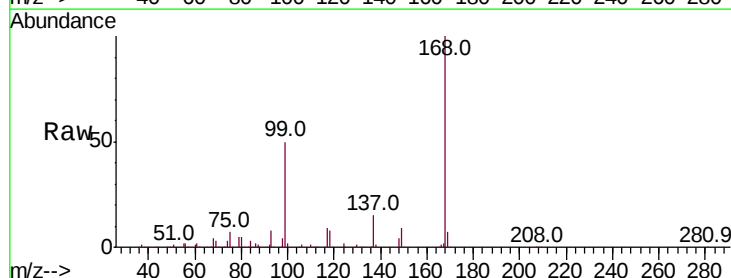
Tgt Ion: 56 Resp: 4482

Ion Ratio Lower Upper

56 100

69 154.1 26.6 39.8#

84 122.8 65.9 98.9#



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

4000

3000

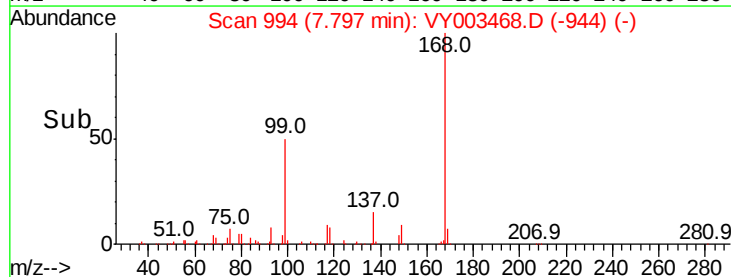
2000

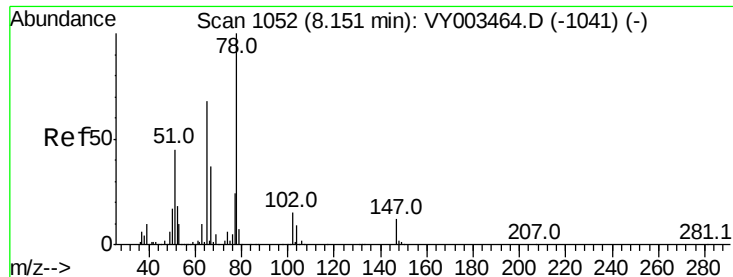
1000

0

7.70 7.75 7.80 7.85

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.838 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

Instrument :

MSVOA\_Y

ClientSampleId :

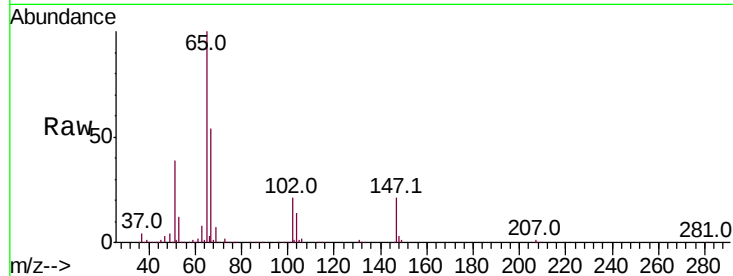
VY1102SBL01

Tot Ion: 65 Resp: 127243

Ion Ratio Lower Upper

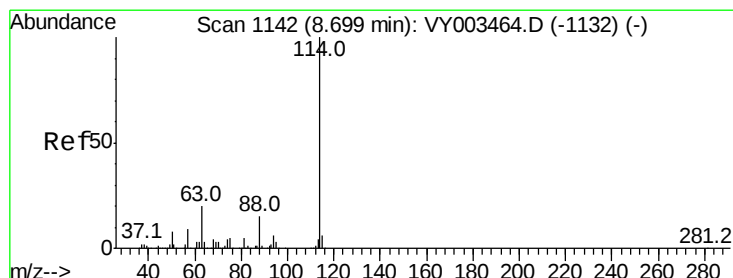
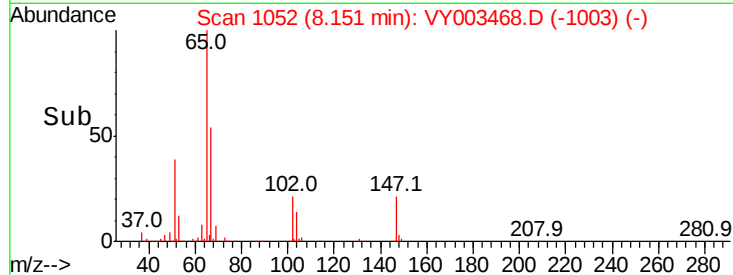
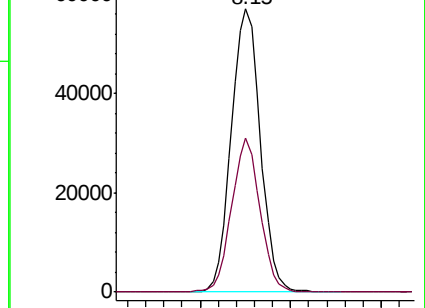
65 100

67 53.2 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VY003468.D (-1041) (-)

Ion 66.90 (66.60 to 67.60): VY003468.D (-1041) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

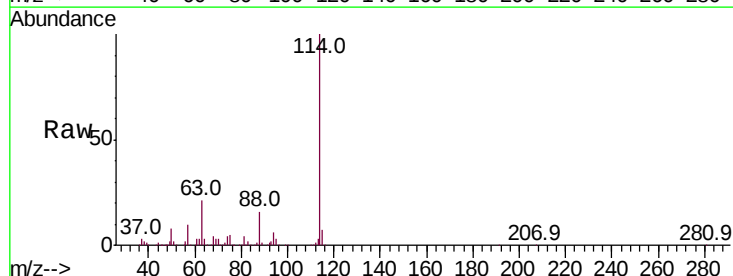
Tgt Ion: 114 Resp: 364028

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.6

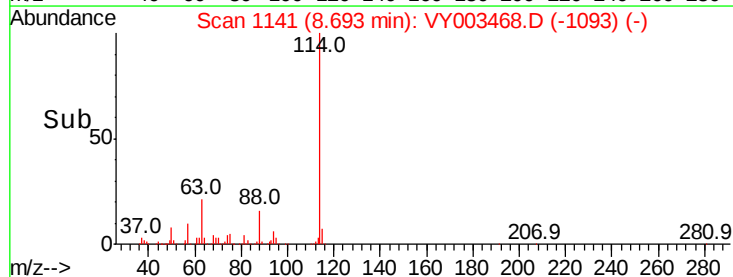
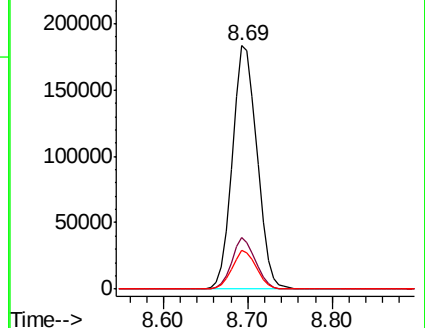
88 15.9 0.0 29.4

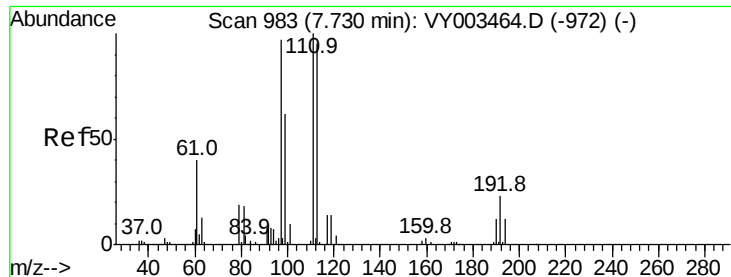


Abundance Ion 113.90 (113.60 to 114.60): VY003468.D (-1093) (-)

Ion 63.00 (62.70 to 63.70): VY003468.D (-1093) (-)

Ion 87.90 (87.60 to 88.60): VY003468.D (-1093) (-)

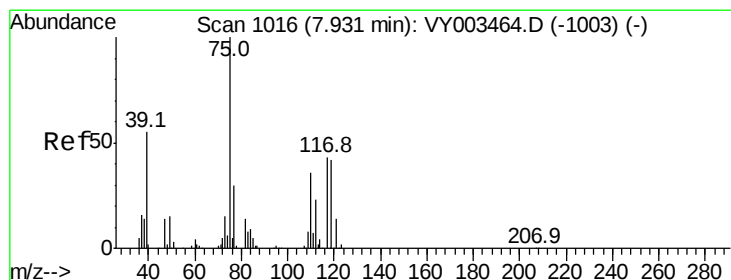
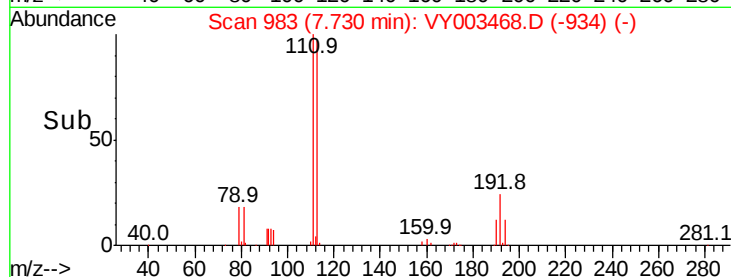
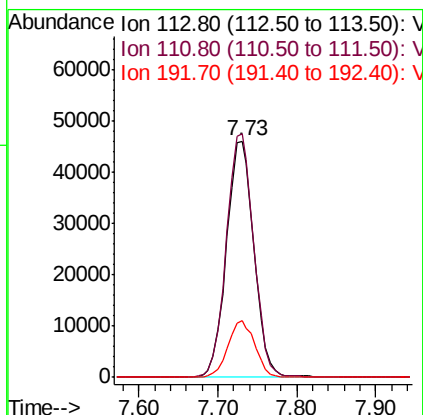
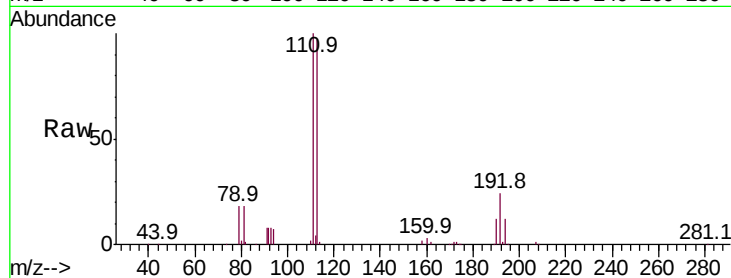




#35  
 Dibromofluoromethane  
 Concen: 50.444 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. 0.00 min  
 Lab File: VY003468.D  
 Acq: 02 Nov 2020 13:24

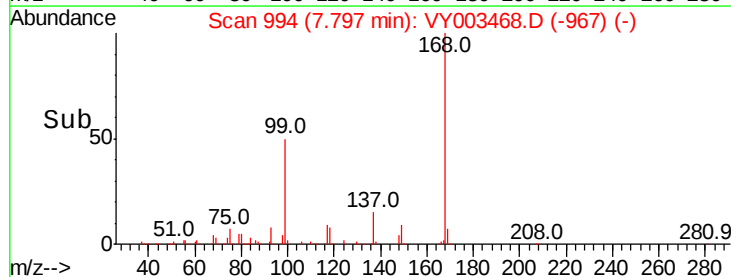
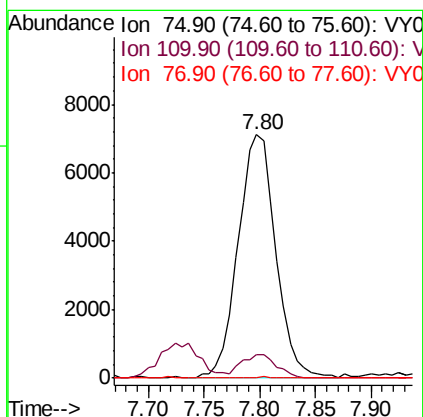
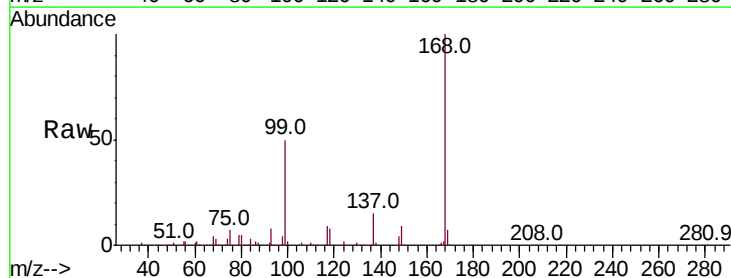
Instrument :  
 MSVOA\_Y  
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 VY1102SBL01

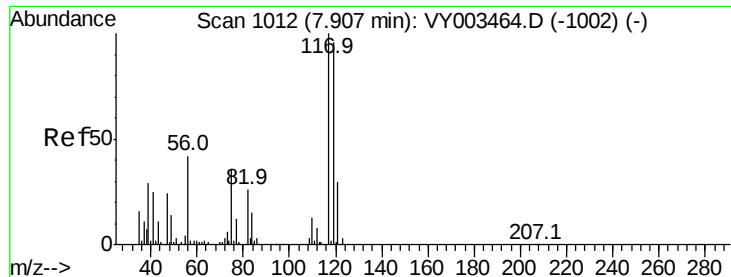
Tot Ion:113 Resp: 111743  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.8 122.6  
 192 23.6 18.8 28.2



#36  
 1,1-Dichloropropene  
 Concen: 4.866 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY003468.D  
 Acq: 02 Nov 2020 13:24

Tgt Ion: 75 Resp: 16700  
 Ion Ratio Lower Upper  
 75 100  
 110 8.8 17.6 52.9#  
 77 0.1 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.995 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

Instrument :

MSVOA\_Y

ClientSampleId :

VY1102SBL01

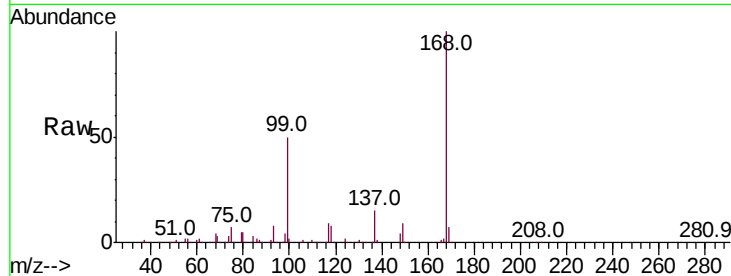
Tot Ion:117 Resp: 21346

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.4#

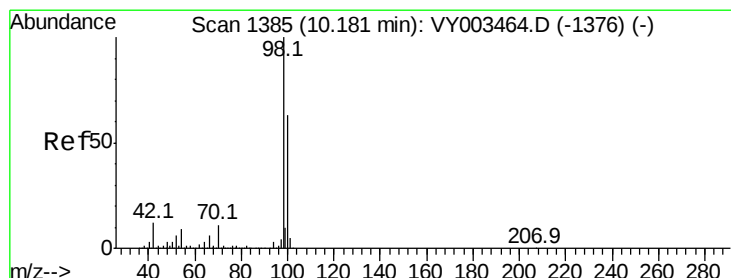
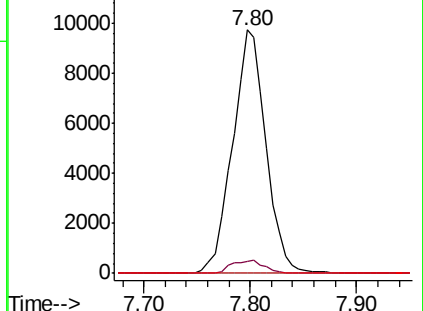
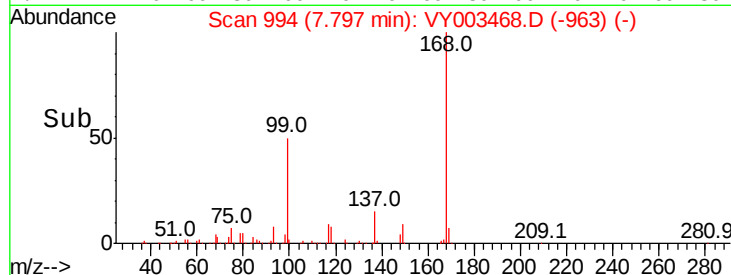
121 0.0 24.2 36.4#



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: 46.255 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY003468.D

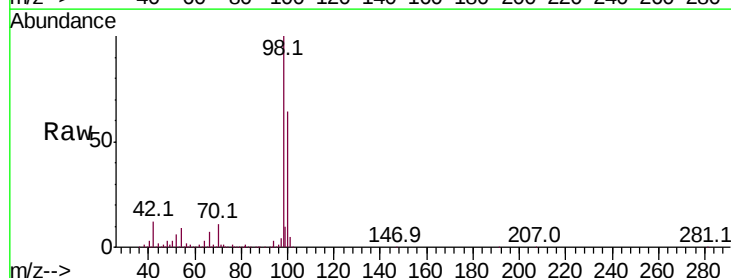
Acq: 02 Nov 2020 13:24

Tgt Ion: 98 Resp: 426257

Ion Ratio Lower Upper

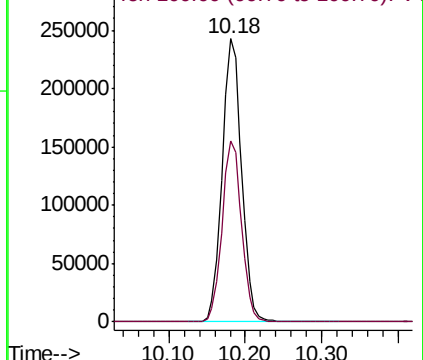
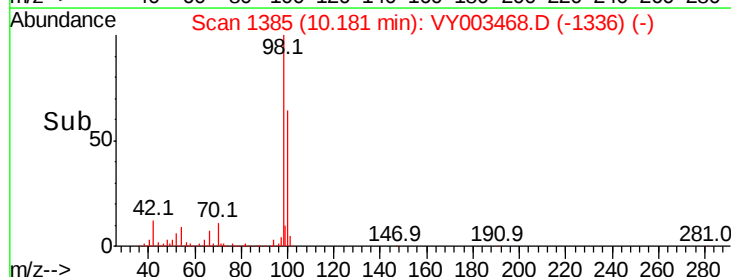
98 100

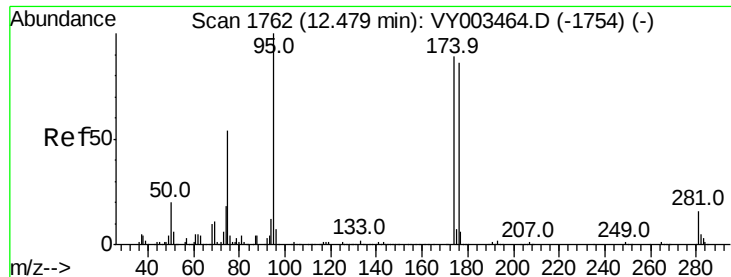
100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

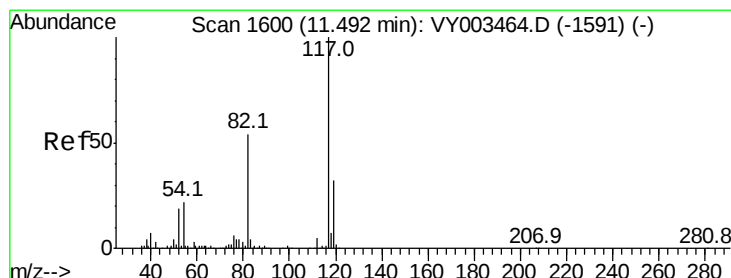
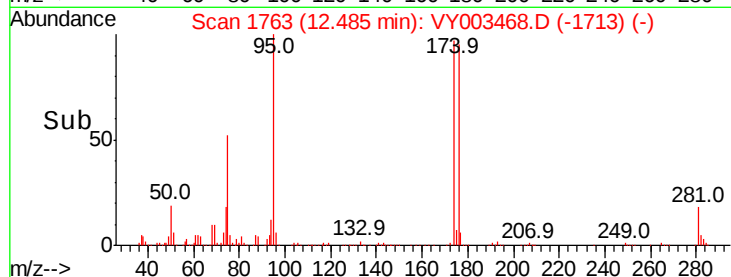
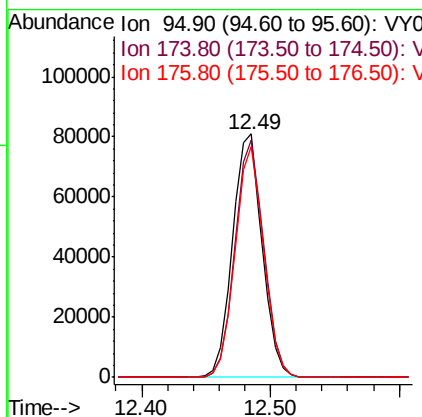
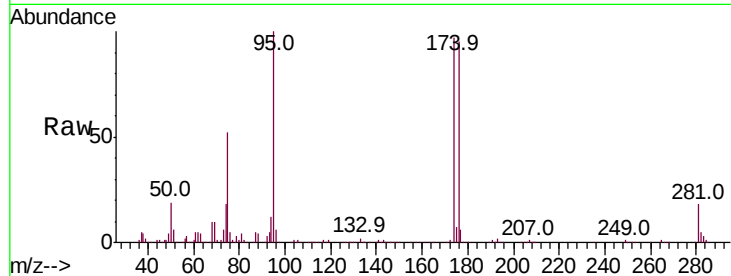




#62  
4-Bromofluorobenzene  
Concen: 42.481 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. 0.01 min  
Lab File: VY003468.D  
Acq: 02 Nov 2020 13:24

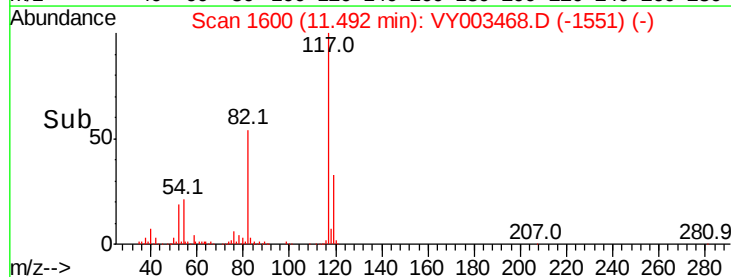
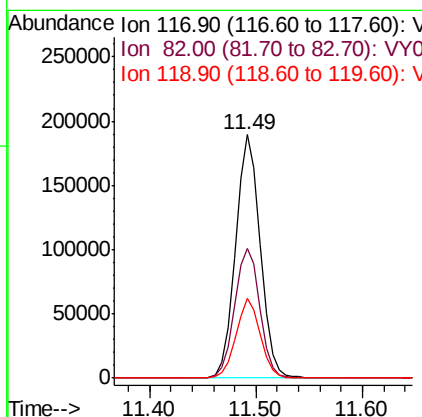
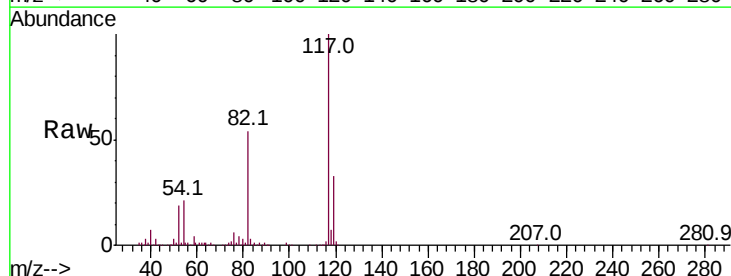
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1102SBL01

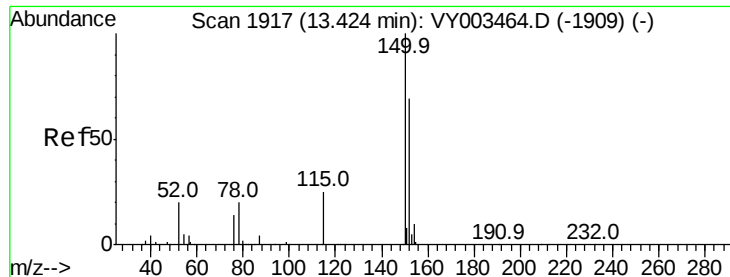
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 94.6  | 0.0   | 193.0 |
| 176     | 91.0  | 0.0   | 187.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY003468.D  
Acq: 02 Nov 2020 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.5  | 43.4  | 65.2  |
| 119     | 32.6  | 25.8  | 38.6  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

Instrument :

MSVOA\_Y

ClientSampleId :

VY1102SBL01

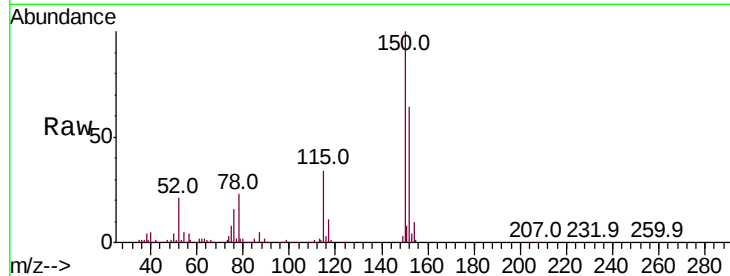
Tot Ion:152 Resp: 139683

Ion Ratio Lower Upper

152 100

115 54.8 27.5 82.4

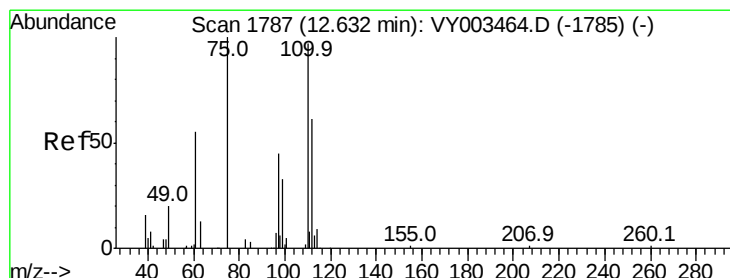
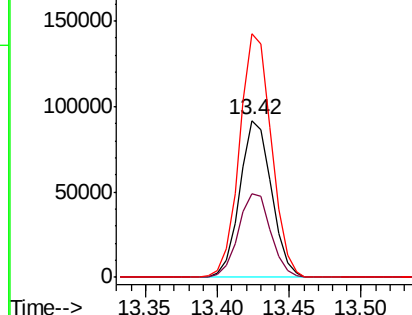
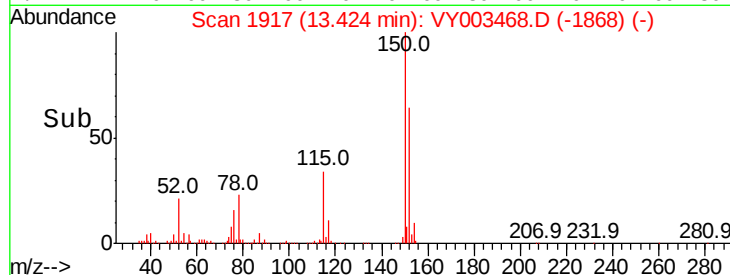
150 156.6 0.0 345.8



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: 46.603 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003468.D

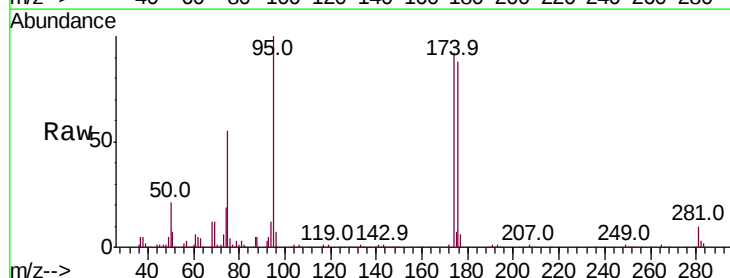
Acq: 02 Nov 2020 13:24

Tgt Ion: 75 Resp: 68876

Ion Ratio Lower Upper

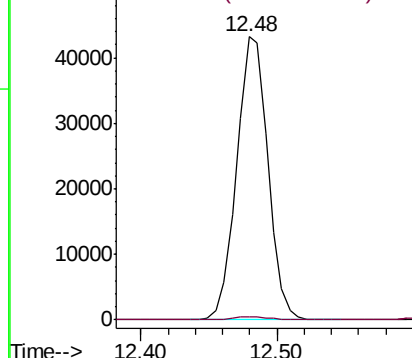
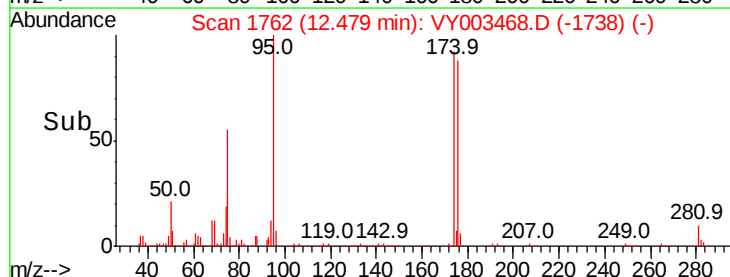
75 100

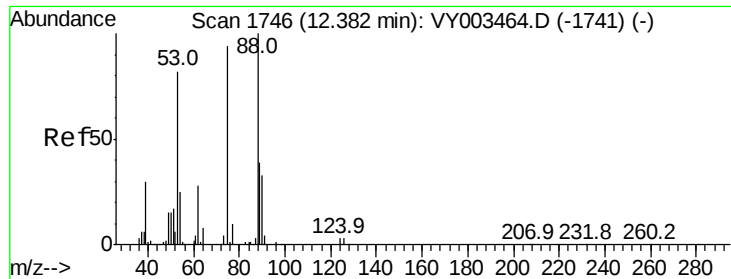
77 1.2 0.0 0.0#



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: 97.267 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003468.D

Acq: 02 Nov 2020 13:24

Instrument :

MSVOA\_Y

ClientSampleId :

VY1102SBL01

Tot Ion: 75 Resp: 68876

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.2 35.8 53.8#

