

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110819\  
 Data File : VY000625.D  
 Acq On : 08 Nov 2019 18:10  
 Operator : SY/MD  
 Sample : K5723-12RE  
 Misc : 6.61G/5ML/MSVOA Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 10-A

Quant Time: Nov 11 04:46:17 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  | 213002   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 395228   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 352274   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 154132   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |        |          |      |         |
|---------------------------|-------|-----|--------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.16  | 65  | 131062 | 59.46    | ug/l | 0.00    |
| Spiked Amount             |       |     |        |          |      |         |
|                           |       |     |        | Recovery | =    | 118.92% |
| 35) Dibromofluoromethane  | 7.73  | 113 | 114769 | 49.46    | ug/l | 0.00    |
| Spiked Amount             |       |     |        |          |      |         |
|                           |       |     |        | Recovery | =    | 98.92%  |
| 50) Toluene-d8            | 10.18 | 98  | 460189 | 52.27    | ug/l | 0.00    |
| Spiked Amount             |       |     |        |          |      |         |
|                           |       |     |        | Recovery | =    | 104.54% |
| 62) 4-Bromofluorobenzene  | 12.48 | 95  | 158593 | 47.32    | ug/l | 0.00    |
| Spiked Amount             |       |     |        |          |      |         |
|                           |       |     |        | Recovery | =    | 94.64%  |

## Target Compounds

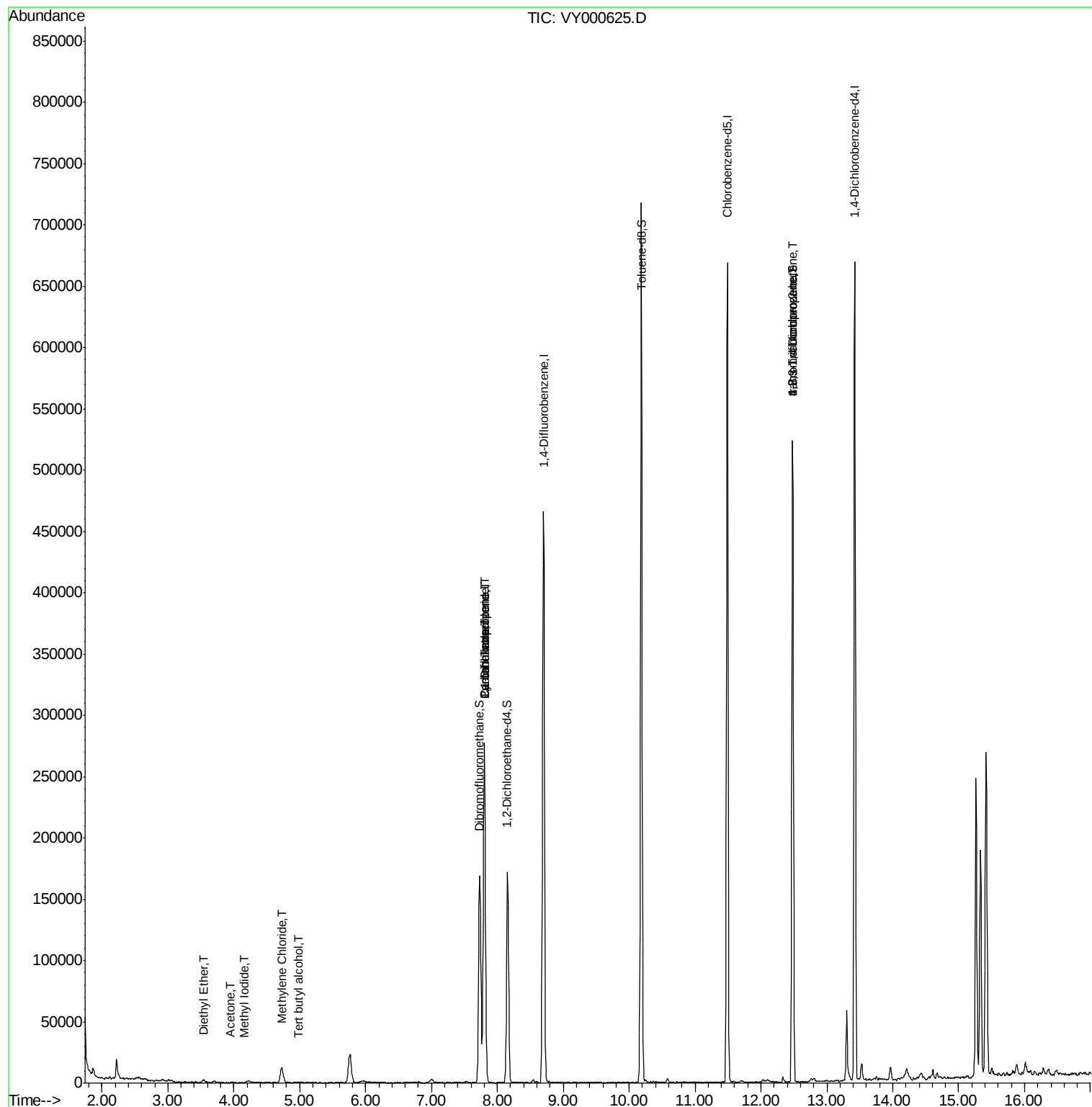
|                                |       |     |       |         | Qvalue |     |
|--------------------------------|-------|-----|-------|---------|--------|-----|
| 8) Diethyl Ether               | 3.55  | 74  | 1584  | 1.231   | ug/l   | 91  |
| 10) Methyl Iodide              | 4.15  | 142 | 27    | 3.208   | ug/l # | 41  |
| 11) Tert butyl alcohol         | 4.99  | 59  | 1139  | 5.308   | ug/l # | 72  |
| 16) Acetone                    | 3.96  | 43  | 615   | 1.012   | ug/l # | 42  |
| 20) Methylene Chloride         | 4.72  | 84  | 9052  | 3.477   | ug/l # | 84  |
| 31) Cyclohexane                | 7.81  | 56  | 5383  | 1.262   | ug/l # | 33  |
| 36) 1,1-Dichloropropene        | 7.80  | 75  | 17173 | 4.596   | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 7.80  | 117 | 21430 | 5.961   | ug/l # | 13  |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 84244 | 48.002  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 84244 | 107.627 | ug/l # | 13  |

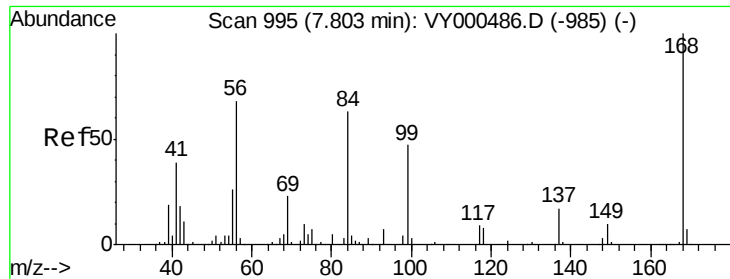
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 995

Delta R.T. -0.00 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampleId :

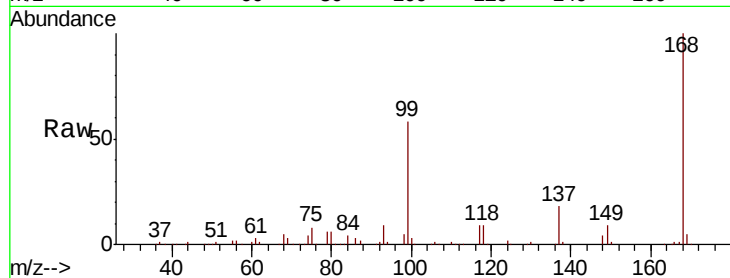
10-A

Tot Ion:168 Resp: 213002

Ion Ratio Lower Upper

168 100

99 57.7 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

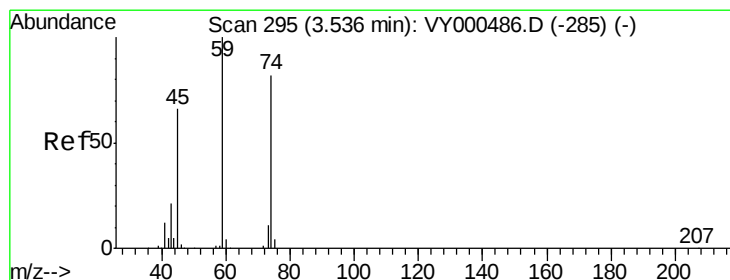
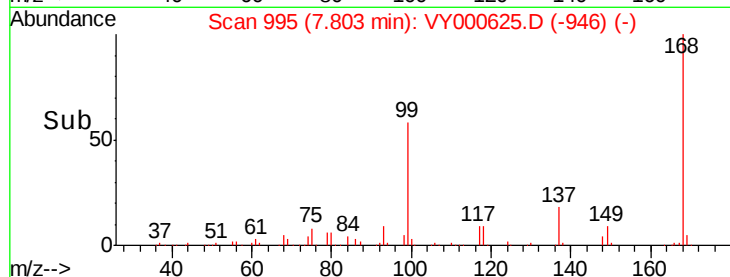
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.231 ug/l

RT: 3.55 min Scan# 297

Delta R.T. 0.01 min

Lab File: VY000625.D

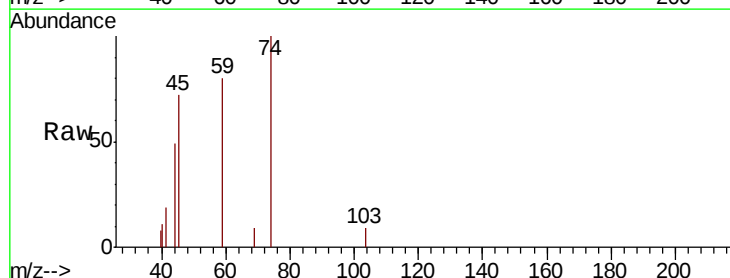
Acq: 08 Nov 2019 18:10

Tgt Ion: 74 Resp: 1584

Ion Ratio Lower Upper

74 100

45 82.3 45.5 136.4



Abundance Ion 74.00 (73.70 to 74.70): VY000486.D (-285) (-)

Ion 45.00 (44.70 to 45.70): VY000486.D (-285) (-)

3.55

800

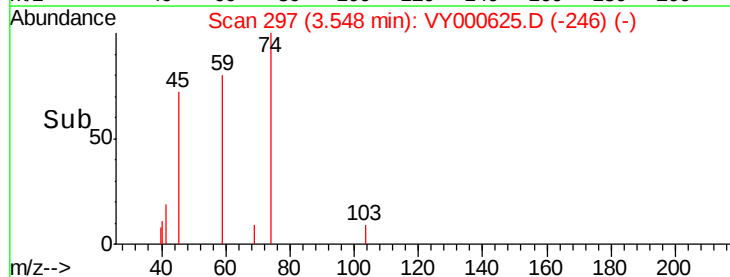
600

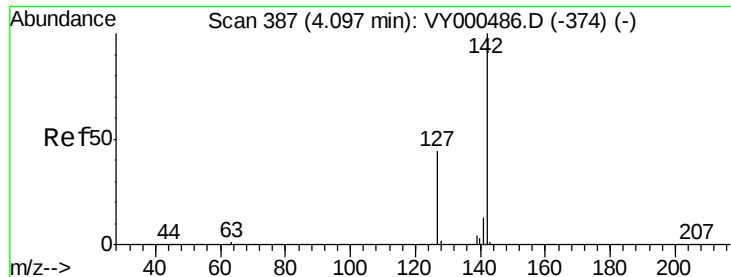
400

200

0

Time-->

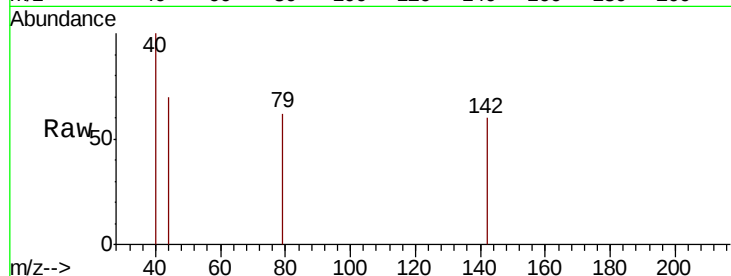




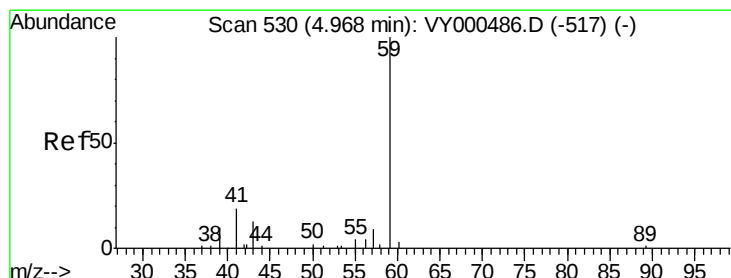
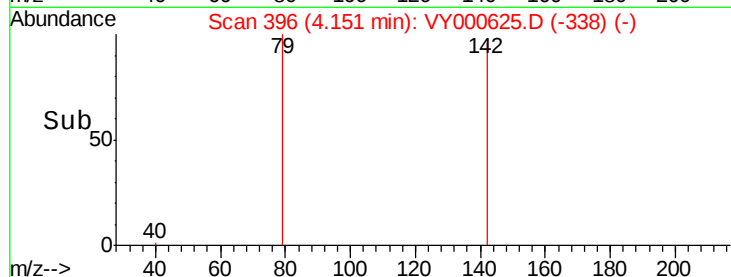
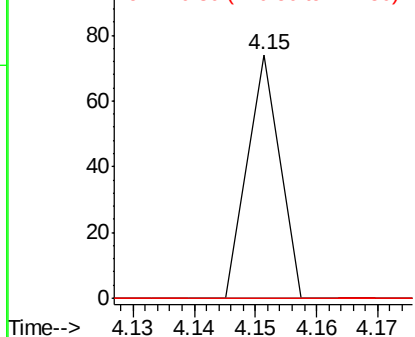
#10  
Methyl Iodide  
Concen: 3.208 ug/l  
RT: 4.15 min Scan# 396  
Delta R.T. 0.06 min  
Lab File: VY000625.D  
Acq: 08 Nov 2019 18:10

Instrument :  
MSVOA\_Y  
ClientSampleId :  
10-A

Tot Ion:142 Resp: 27  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.7 50.5#  
141 0.0 10.9 16.3#

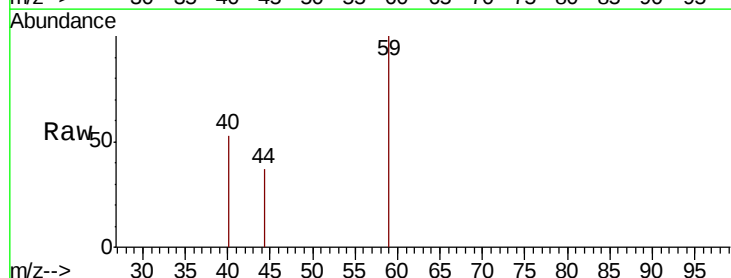


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

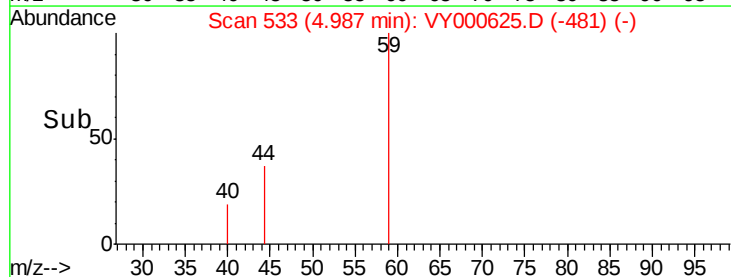
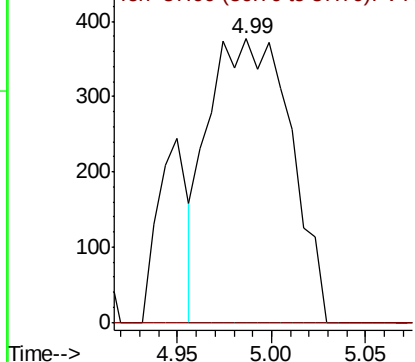


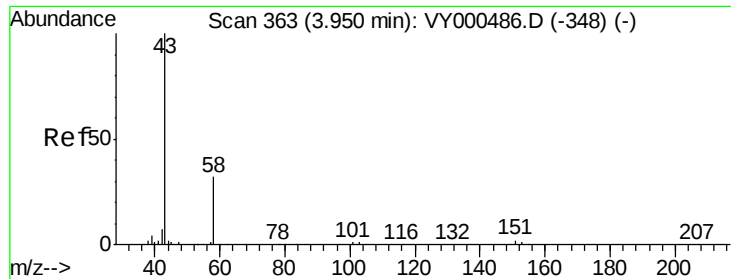
#11  
Tert butyl alcohol  
Concen: 5.308 ug/l  
RT: 4.99 min Scan# 533  
Delta R.T. 0.02 min  
Lab File: VY000625.D  
Acq: 08 Nov 2019 18:10

Tgt Ion: 59 Resp: 1139  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VY0  
Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 1.012 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampleId :

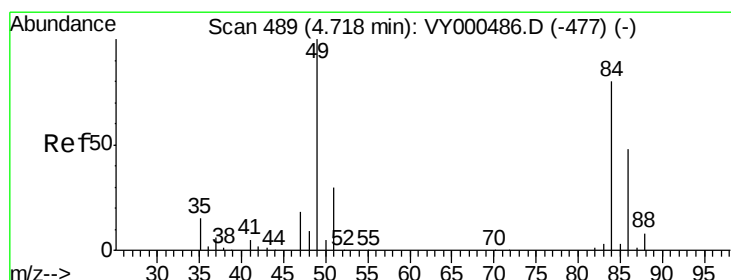
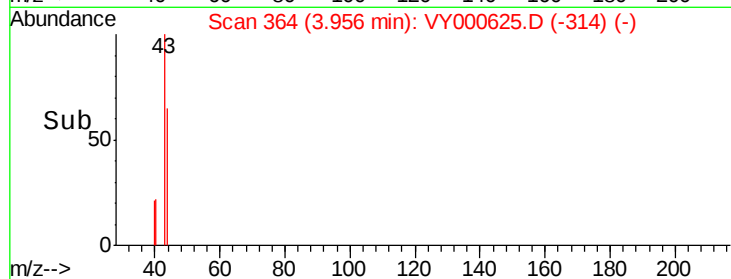
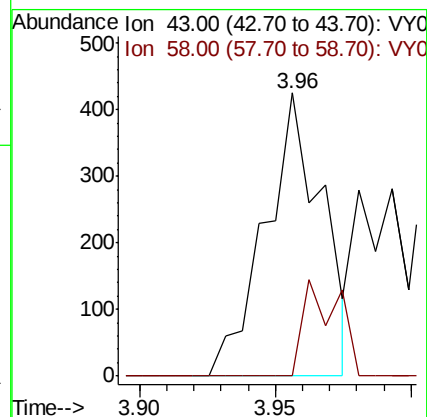
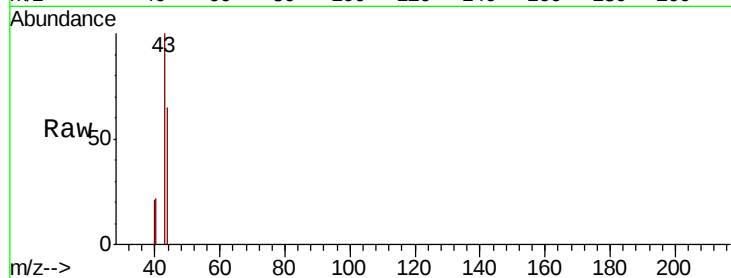
10-A

Tot Ion: 43 Resp: 615

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



#20

Methylene Chloride

Concen: 3.477 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.01 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Tgt Ion: 84 Resp: 9052

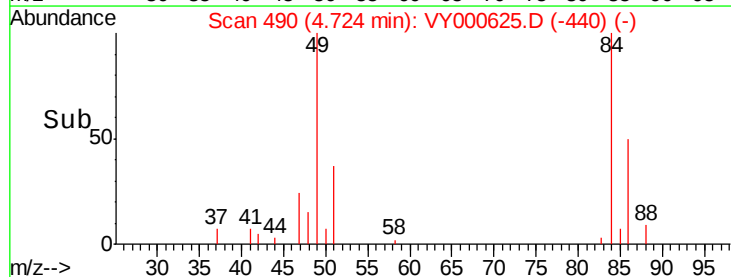
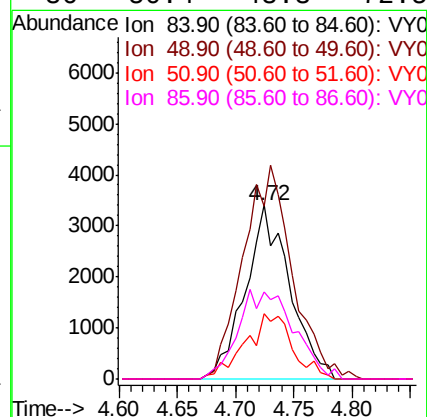
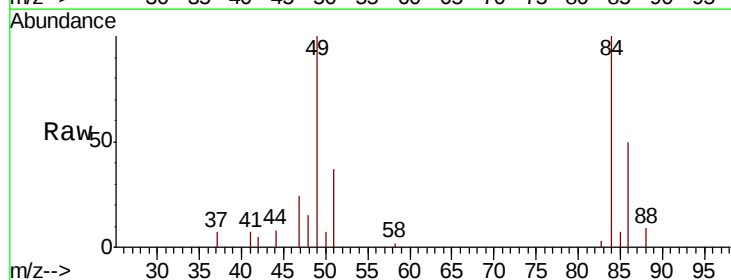
Ion Ratio Lower Upper

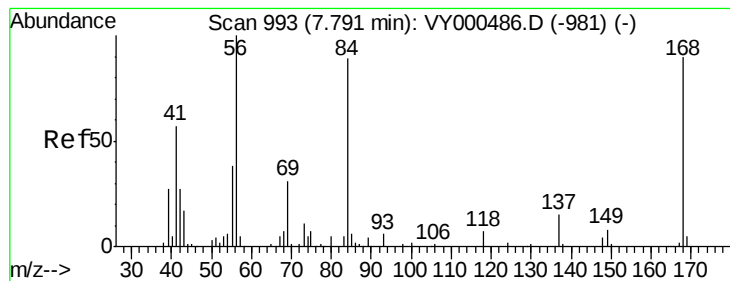
84 100

49 99.8 100.2 150.4#

51 37.3 29.6 44.4

86 50.4 48.3 72.5





#31

Cyclohexane

Concen: 1.262 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.02 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampled :

10-A

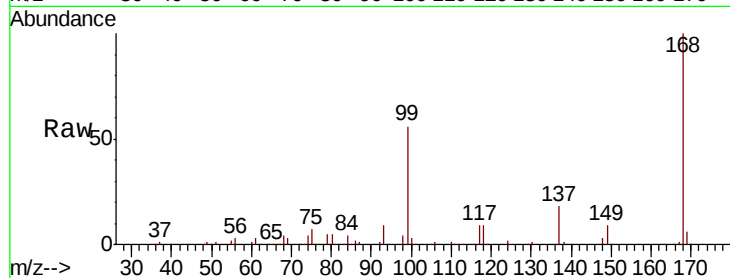
Tot Ion: 56 Resp: 5383

Ion Ratio Lower Upper

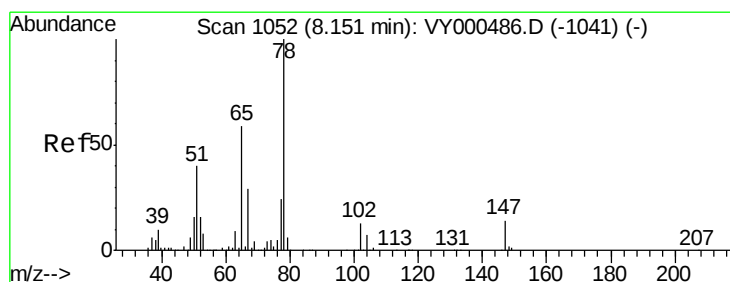
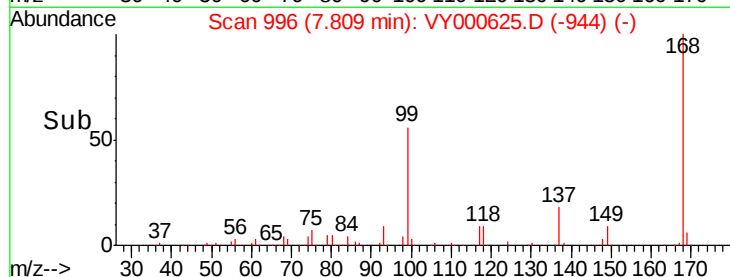
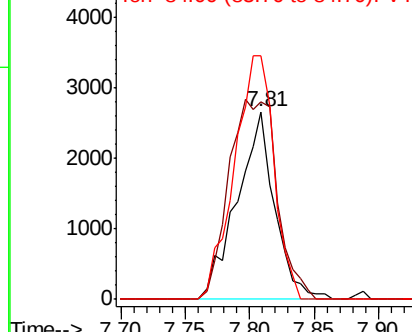
56 100

69 105.1 25.0 37.6#

84 129.7 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: 59.458 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VY000625.D

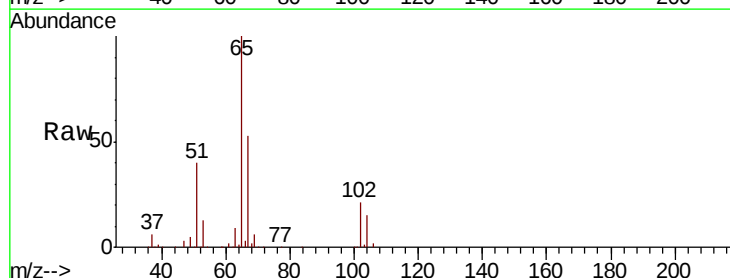
Acq: 08 Nov 2019 18:10

Tgt Ion: 65 Resp: 131062

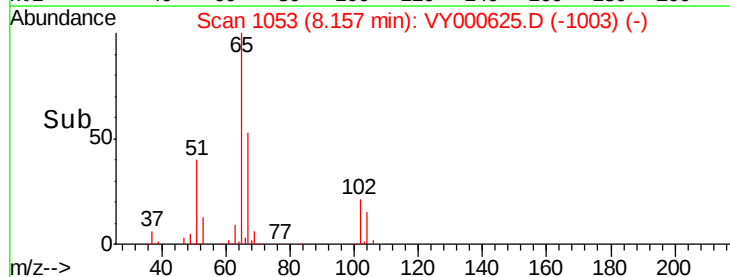
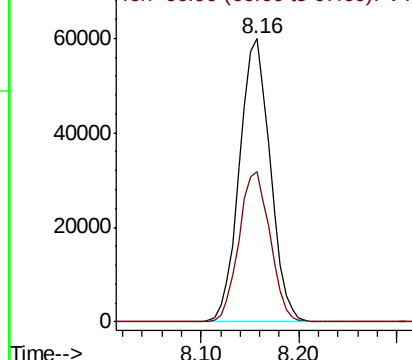
Ion Ratio Lower Upper

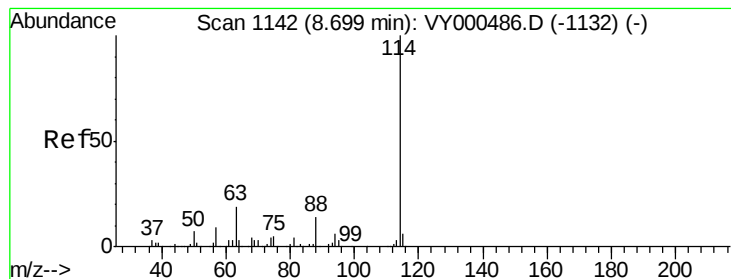
65 100

67 53.5 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: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampled :

10-A

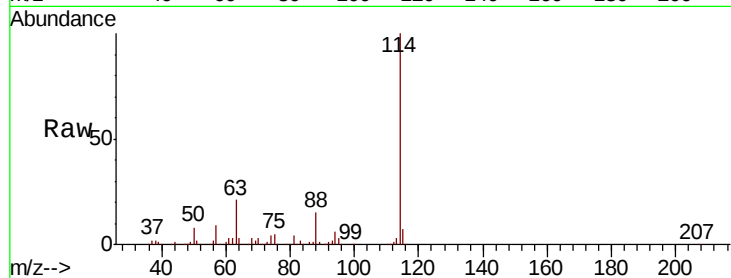
Tot Ion:114 Resp: 395228

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.0

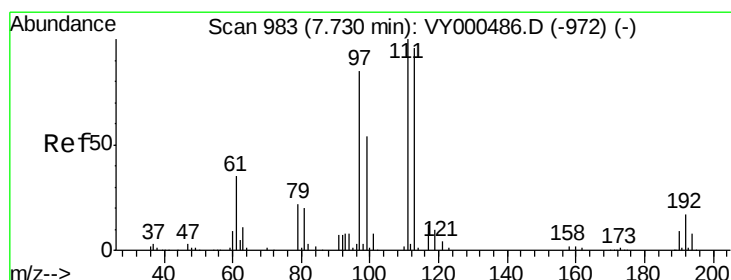
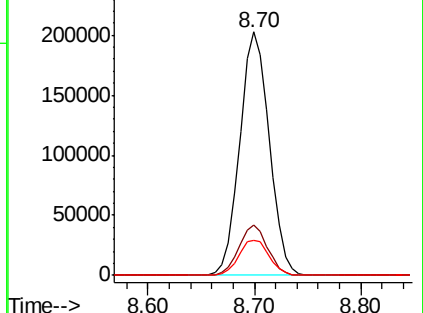
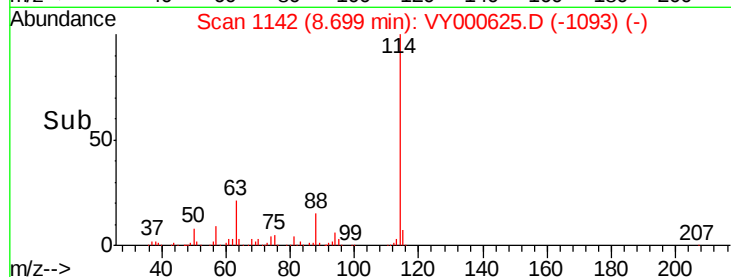
88 14.6 0.0 28.6



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: 49.464 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

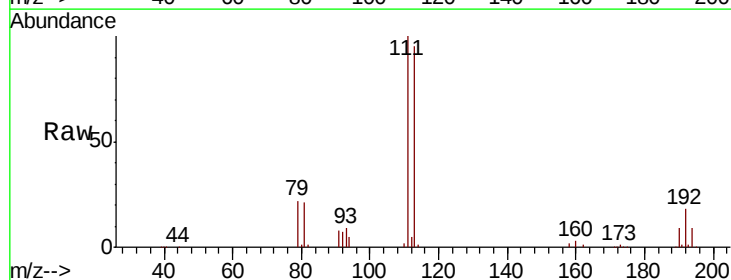
Tgt Ion:113 Resp: 114769

Ion Ratio Lower Upper

113 100

111 105.0 81.7 122.5

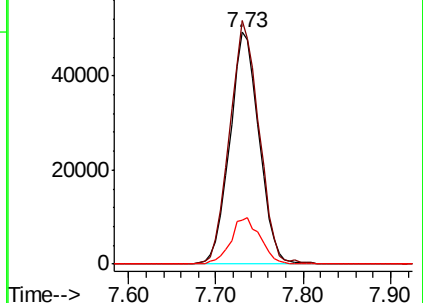
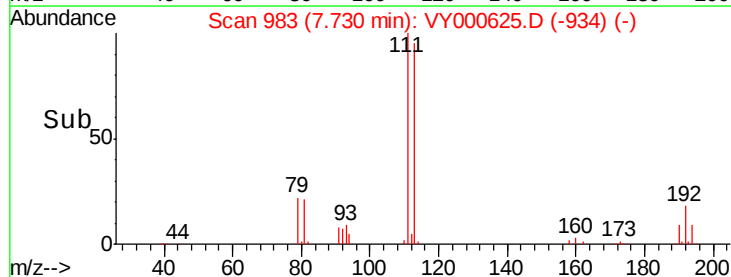
192 20.2 15.0 22.4

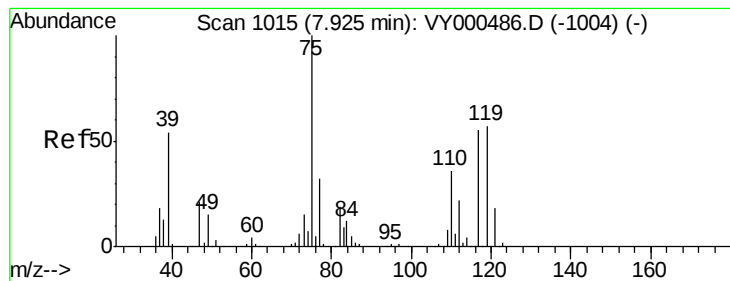


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.596 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.12 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampleId :

10-A

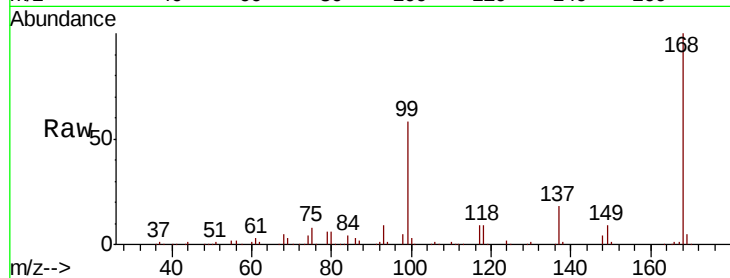
Tot Ion: 75 Resp: 17173

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

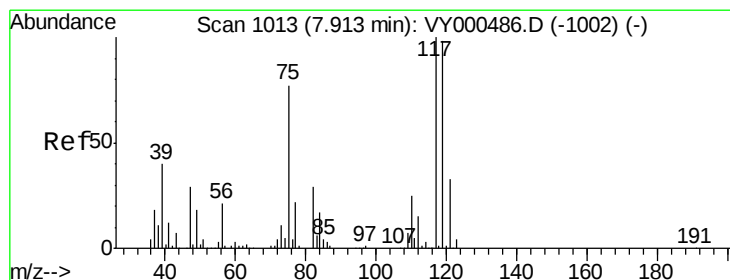
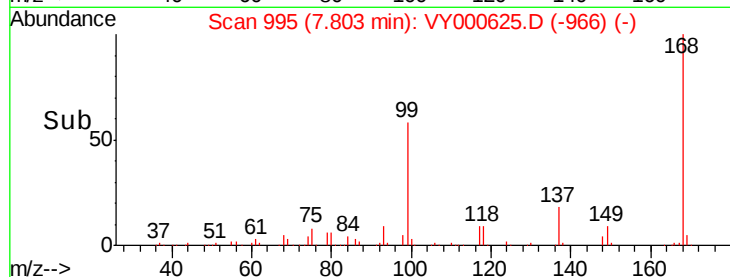
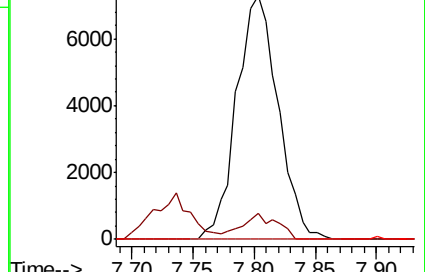
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VY000486.D (-1004) (-)

Ion 109.90 (109.60 to 110.60): VY000486.D (-1004) (-)

Ion 76.90 (76.60 to 77.60): VY000486.D (-1004) (-)



#38

Carbon Tetrachloride

Concen: 5.961 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

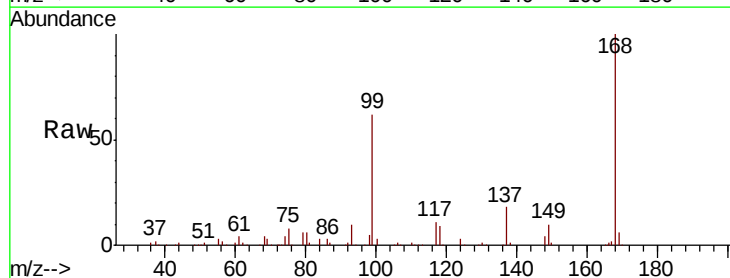
Tgt Ion: 117 Resp: 21430

Ion Ratio Lower Upper

117 100

119 2.6 78.0 117.0#

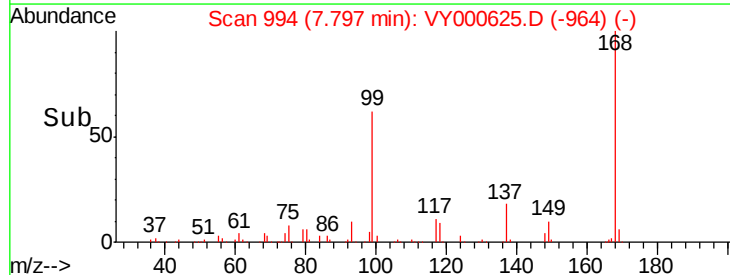
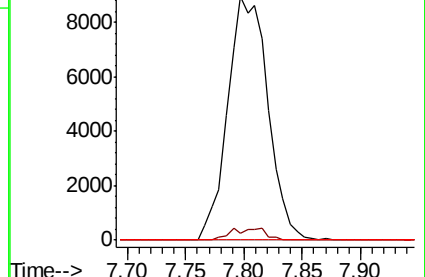
121 0.0 26.6 40.0#

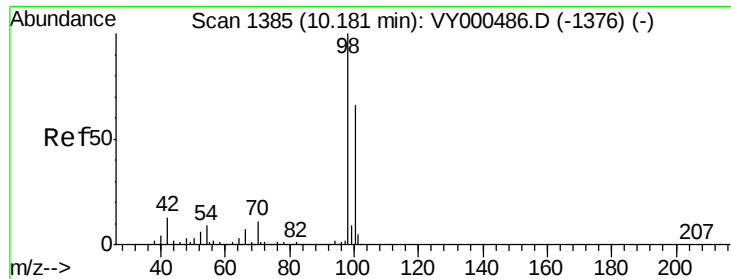


Abundance Ion 116.80 (116.50 to 117.50): VY000486.D (-1002) (-)

Ion 118.80 (118.50 to 119.50): VY000486.D (-1002) (-)

Ion 120.80 (120.50 to 121.50): VY000486.D (-1002) (-)





#50

Toluene-d8

Concen: 52.270 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampleId :

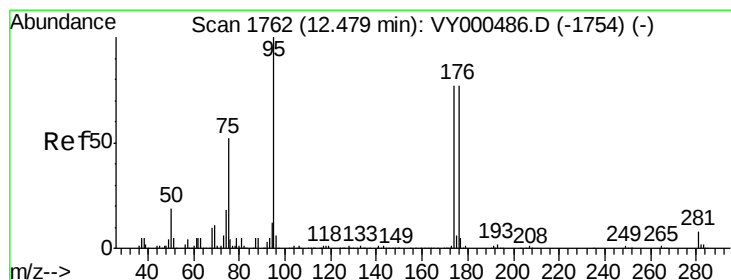
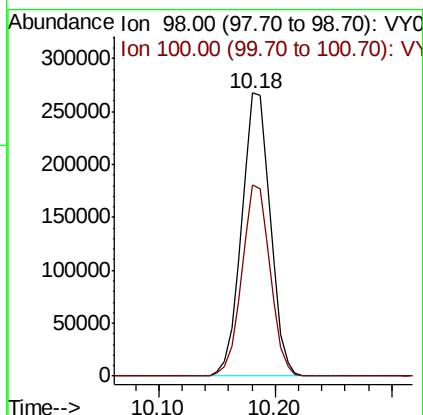
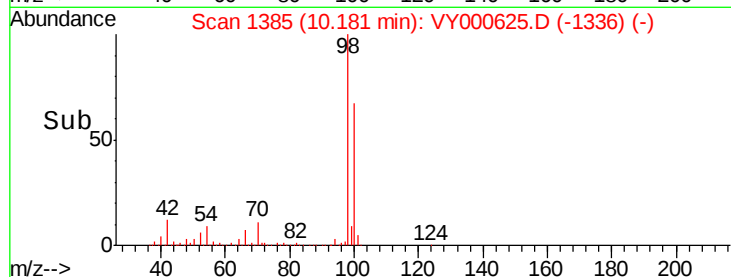
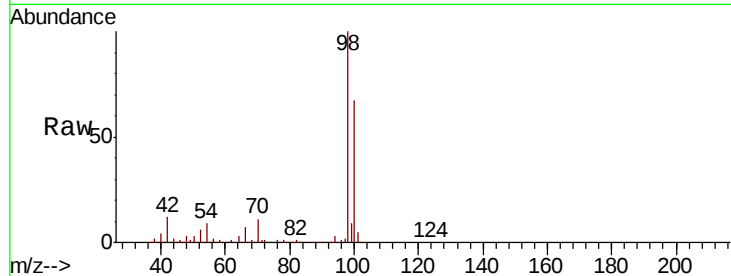
10-A

Tot Ion: 98 Resp: 460189

Ion Ratio Lower Upper

98 100

100 66.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 47.318 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

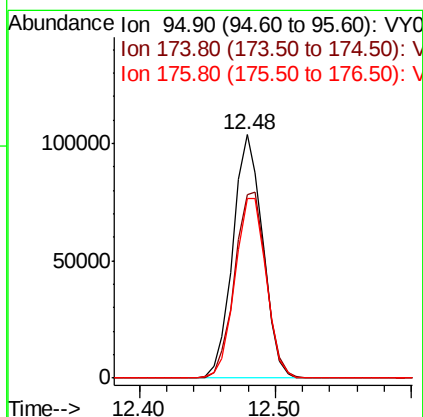
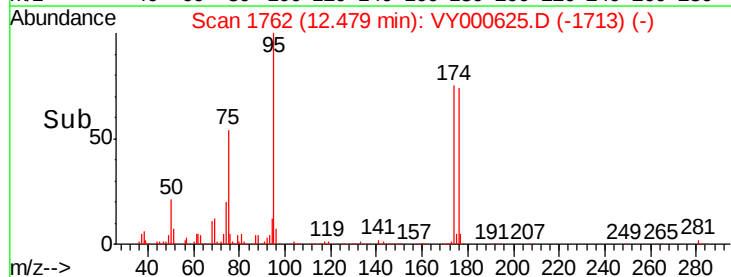
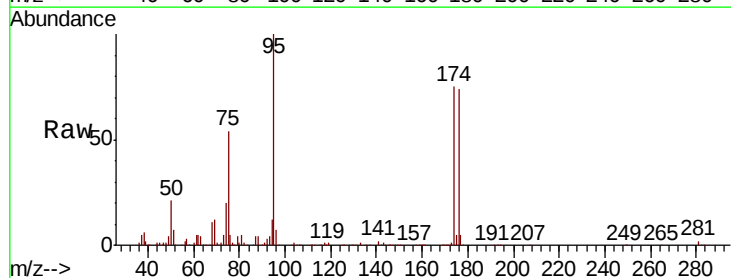
Tgt Ion: 95 Resp: 158593

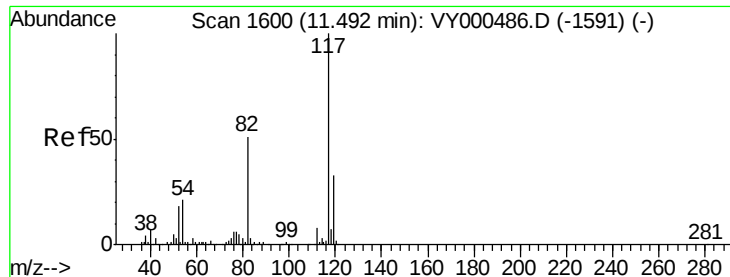
Ion Ratio Lower Upper

95 100

174 80.8 0.0 161.6

176 77.4 0.0 157.8

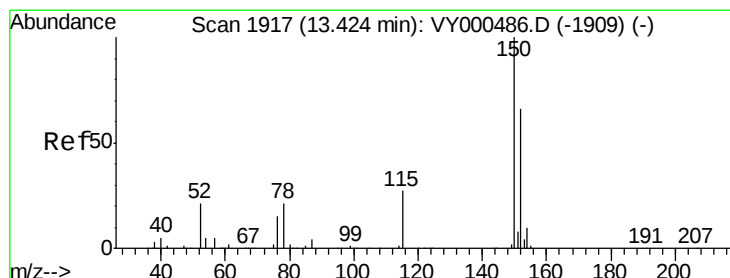
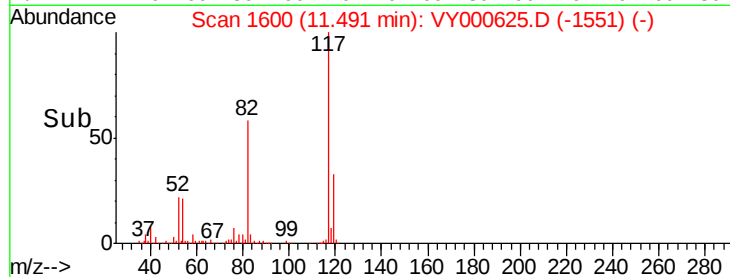
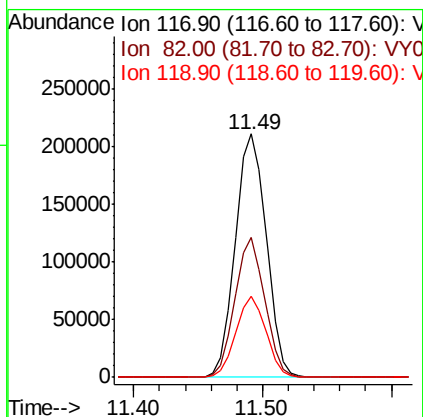
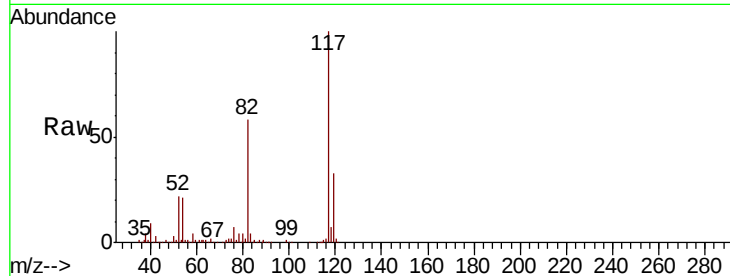




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000625.D  
Acq: 08 Nov 2019 18:10

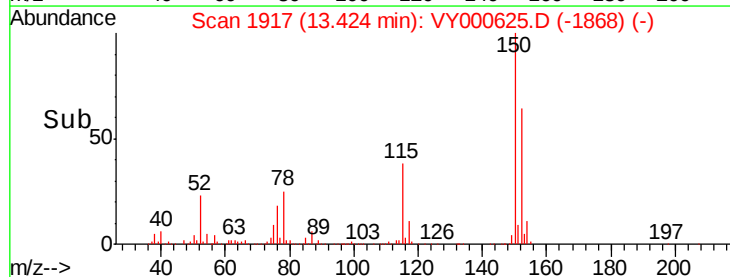
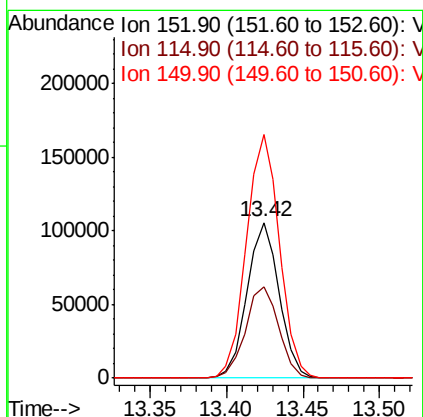
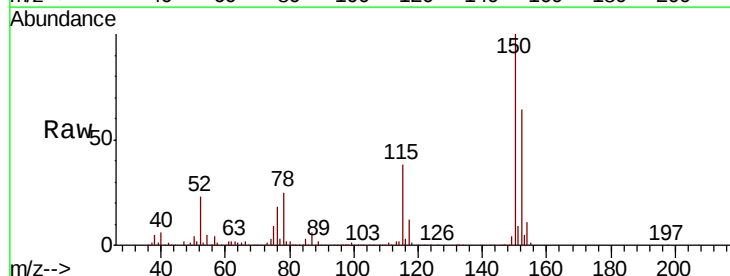
Instrument :  
MSVOA\_Y  
ClientSampled :  
10-A

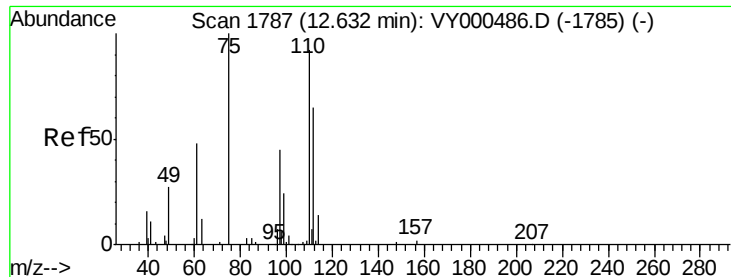
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.5  | 40.8  | 61.2  |
| 119     | 33.4  | 26.2  | 39.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000625.D  
Acq: 08 Nov 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.6  | 29.1  | 87.4  |
| 150     | 160.7 | 0.0   | 348.8 |





#76

1,2,3-Trichloropropane

Concen: 48.002 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

Instrument :

MSVOA\_Y

ClientSampleId :

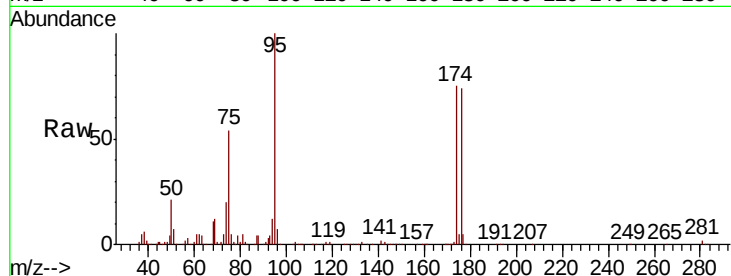
10-A

Tot Ion: 75 Resp: 84244

Ion Ratio Lower Upper

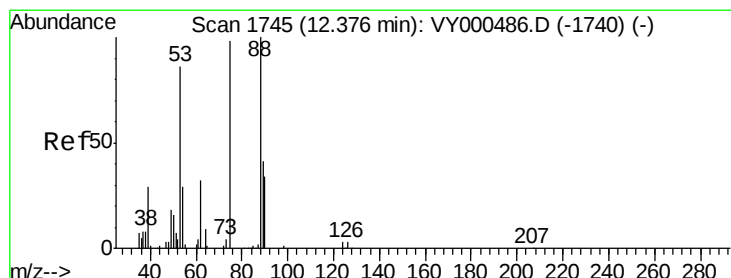
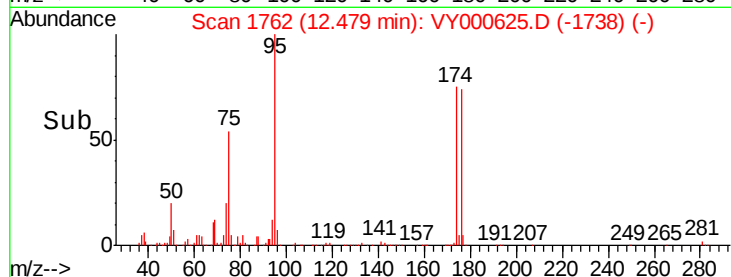
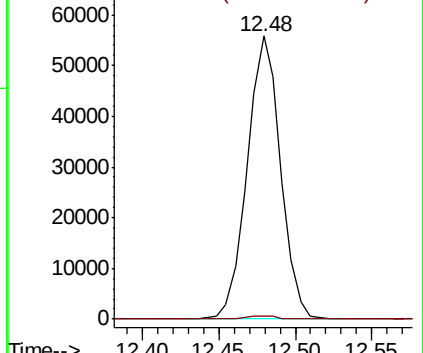
75 100

77 1.3 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: 107.627 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000625.D

Acq: 08 Nov 2019 18:10

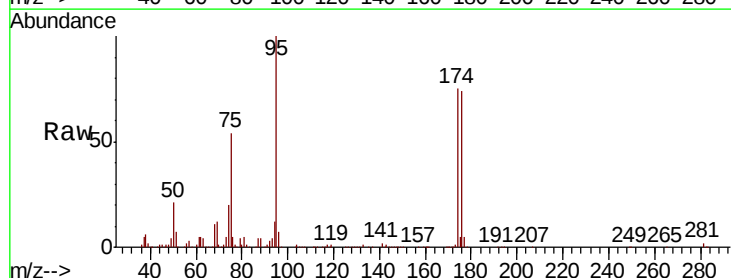
Tgt Ion: 75 Resp: 84244

Ion Ratio Lower Upper

75 100

53 0.0 73.2 109.8#

89 0.1 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

