

Data File : VY000861.D  
Acq On : 04 Dec 2019 14:18  
Operator : SY/MD  
Sample : K6119-11  
Misc : 4.52G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-1-(0-2)

Quant Time: Dec 05 07:54:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 27 12:40:47 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 225769   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 428805   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 381054   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 166416   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 136065   | 56.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.44% |      |
| 35) Dibromofluoromethane  | 7.73   | 113 | 123572   | 49.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90%  |      |
| 50) Toluene-d8            | 10.18  | 98  | 505721   | 50.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.24% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 167657   | 44.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.36%  |      |

Target Compounds

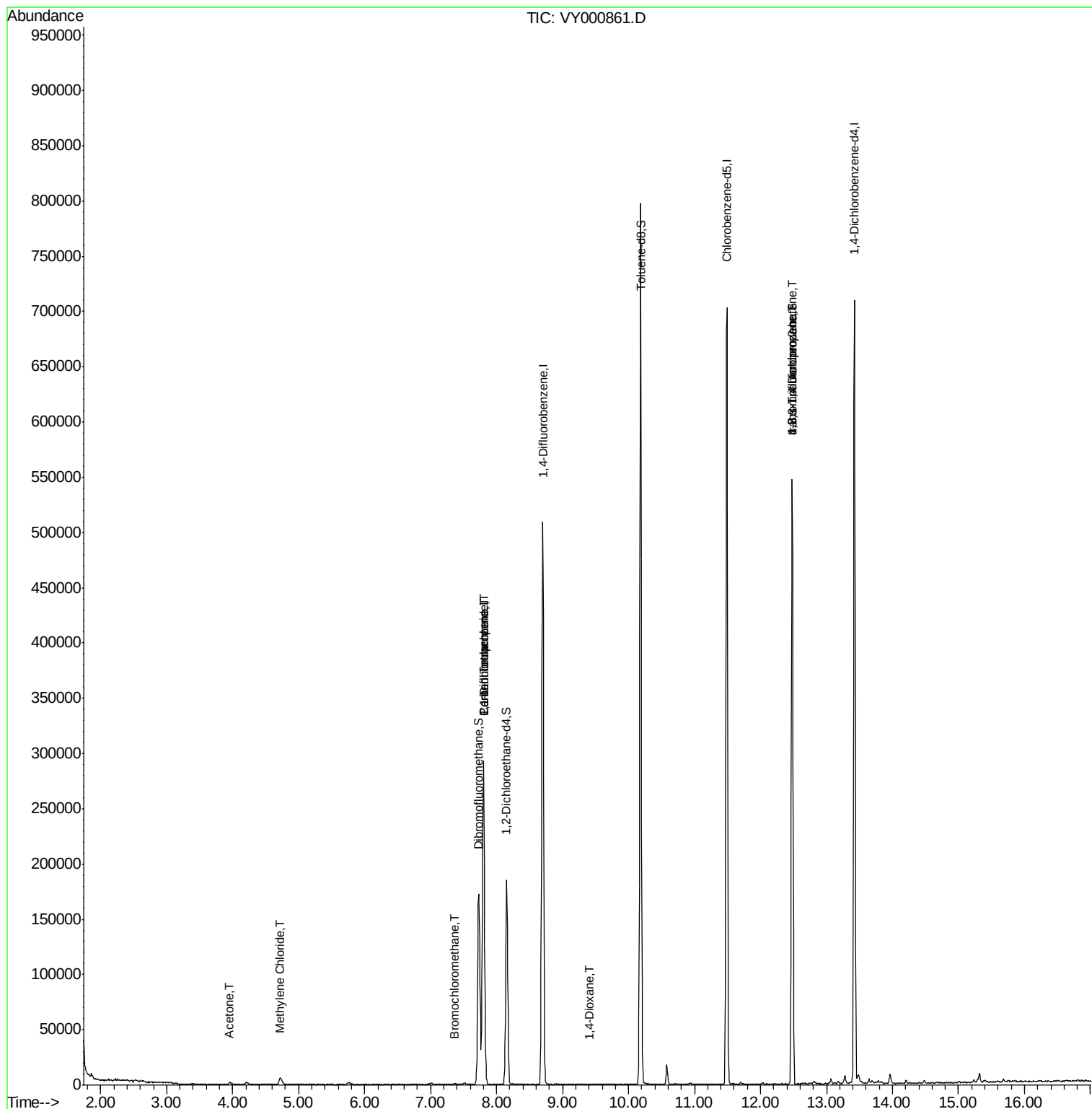
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.65  | 94  | 131   | Below Cal | #      | 3      |
| 16) Acetone                    | 3.96  | 43  | 3252  | 5.909     | ug/l # | 86     |
| 20) Methylene Chloride         | 4.72  | 84  | 4471  | 1.541     | ug/l # | 71     |
| 28) Bromochloromethane         | 7.36  | 49  | 42    | 2.038     | ug/l # | 15     |
| 36) 1,1-Dichloropropene        | 7.80  | 75  | 17659 | 4.142     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117 | 22044 | 5.806     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 9.41  | 88  | 29    | 1.256     | ug/l # | 27     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 90532 | 48.015    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 90532 | 94.316    | ug/l # | 18     |

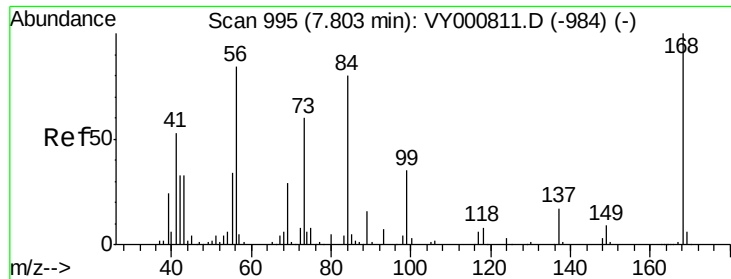
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

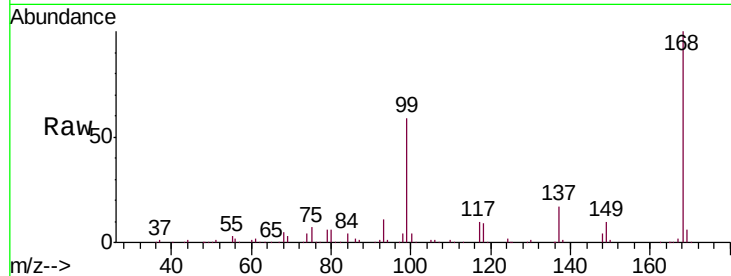
SB-1-(0-2)

Tgt Ion:168 Resp: 225769

Ion Ratio Lower Upper

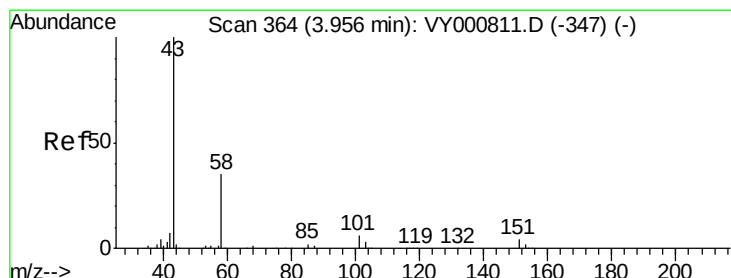
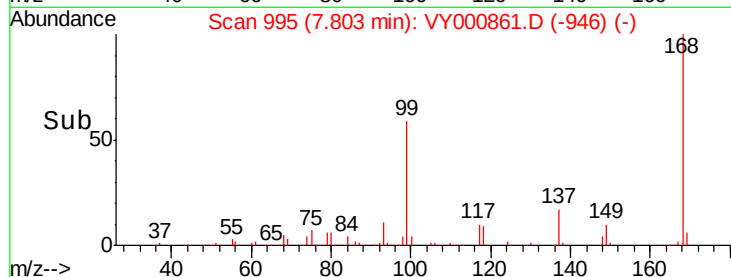
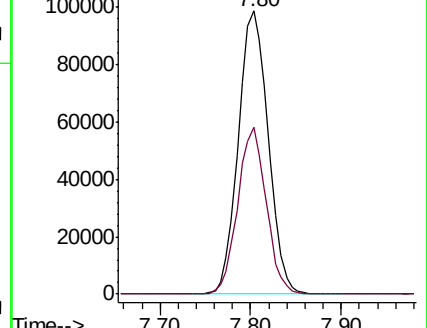
168 100

99 58.8 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000861.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000861.D (-984) (-)



#16

Acetone

Concen: 5.909 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000861.D

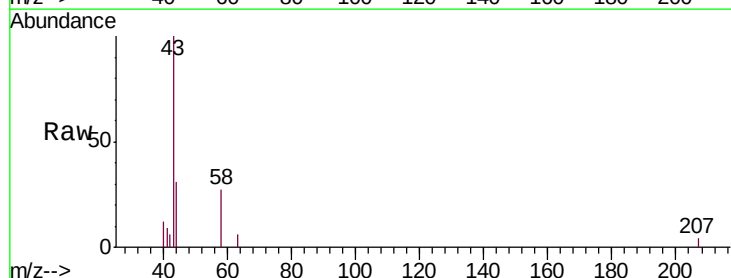
Acq: 04 Dec 2019 14:18

Tgt Ion: 43 Resp: 3252

Ion Ratio Lower Upper

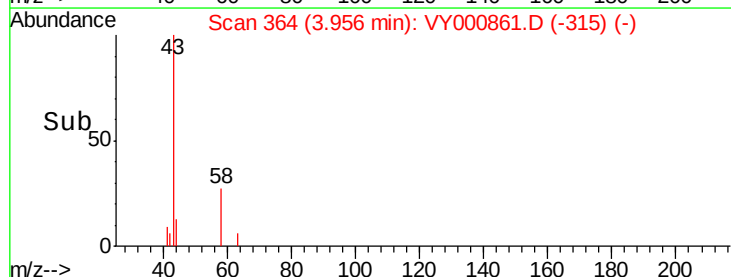
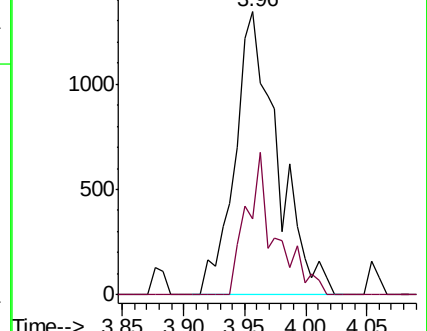
43 100

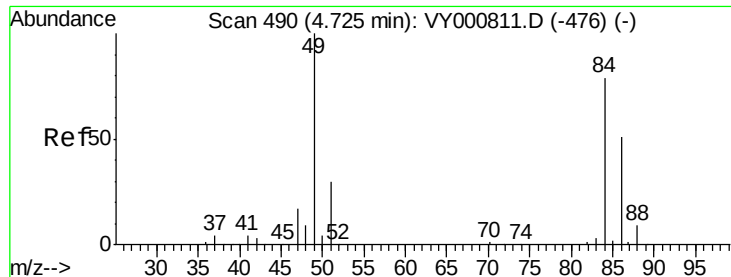
58 27.0 28.0 42.0#



Abundance Ion 43.00 (42.70 to 43.70): VY000861.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY000861.D (-347) (-)





#20

Methylene Chloride

Concen: 1.541 ug/l

RT: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

SB-1-(0-2)

Tgt Ion: 84 Resp: 4471

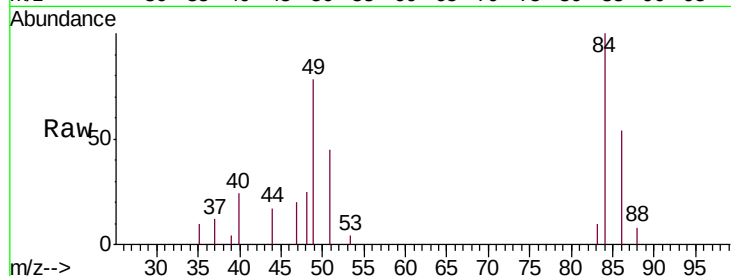
Ion Ratio Lower Upper

84 100

49 78.5 101.3 151.9#

51 44.5 30.6 45.8

86 53.9 51.3 76.9

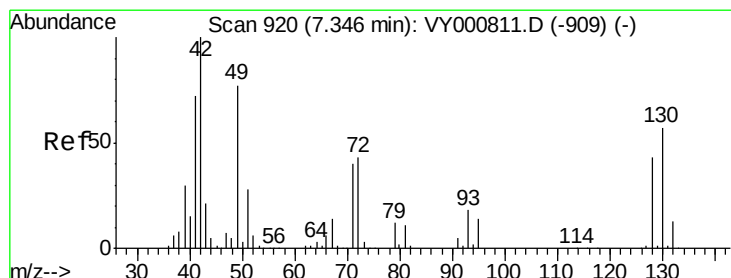
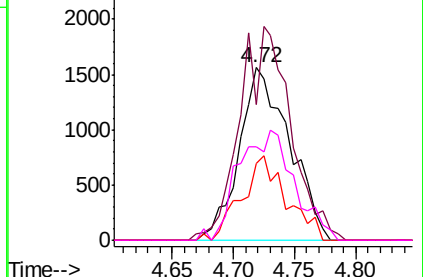
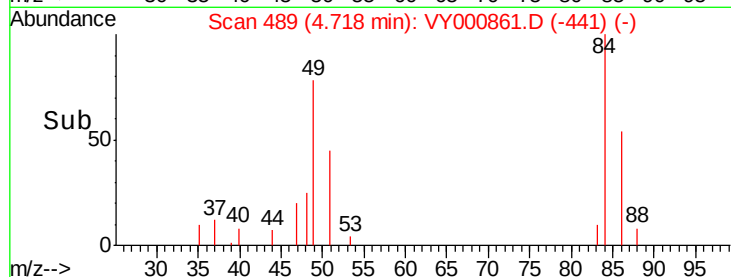


Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0



#28

Bromochloromethane

Concen: 2.038 ug/l

RT: 7.36 min Scan# 922

Delta R.T. 0.01 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

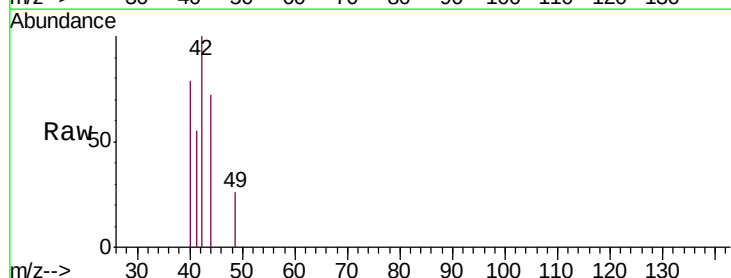
Tgt Ion: 49 Resp: 42

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

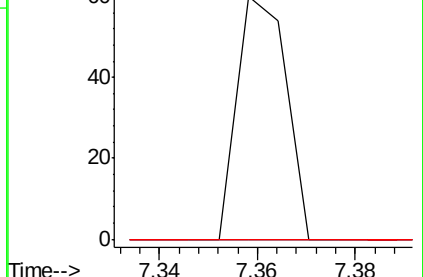
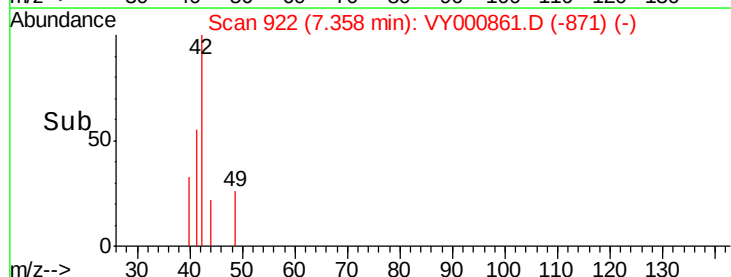
130 0.0 58.7 88.1#

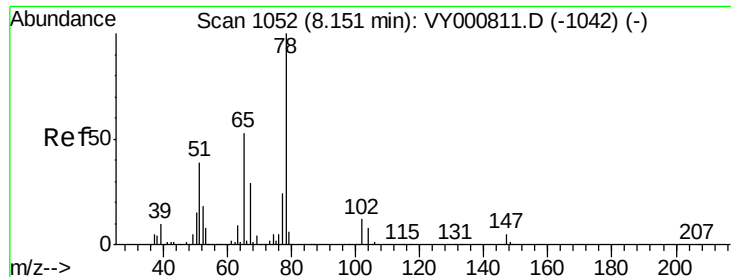


Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

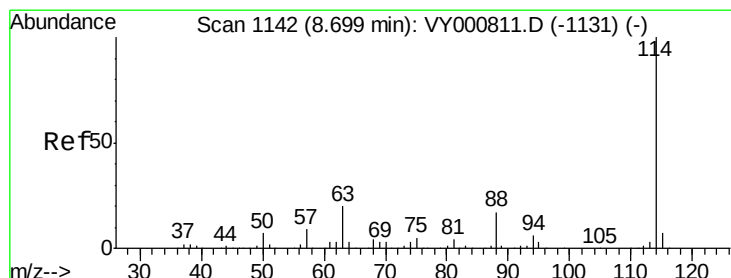
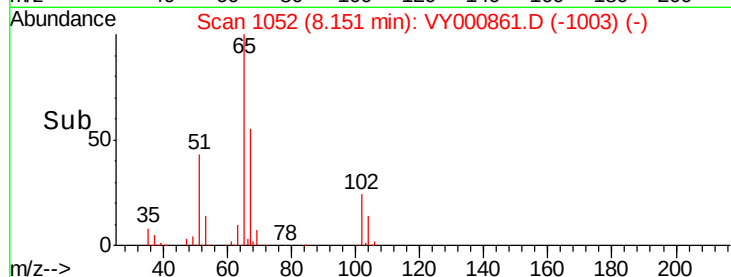
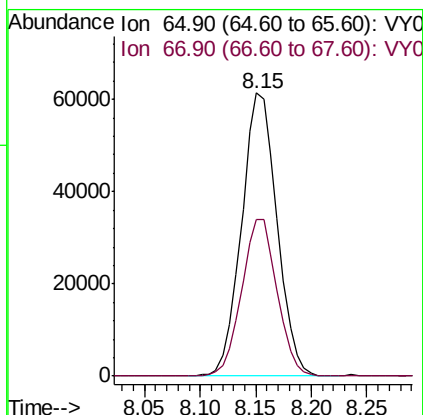
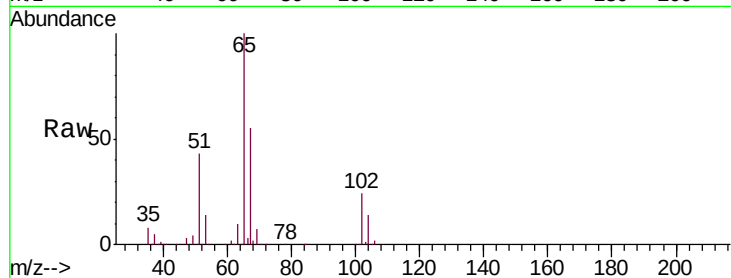




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.718 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.00 min  
 Lab File: VY000861.D  
 Acq: 04 Dec 2019 14:18

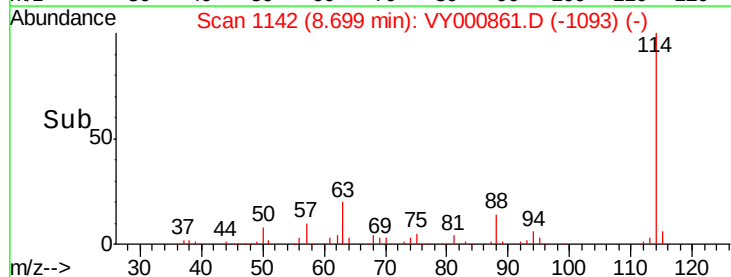
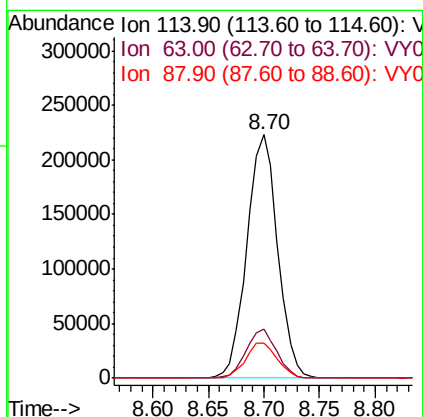
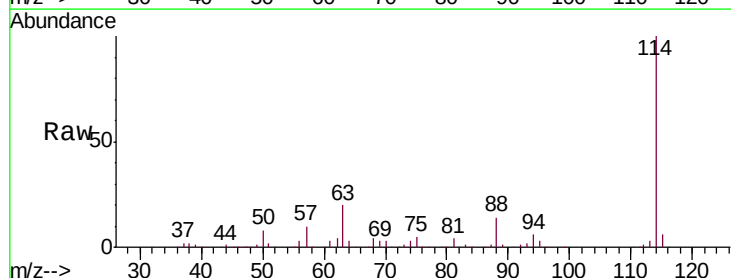
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-1(0-2)

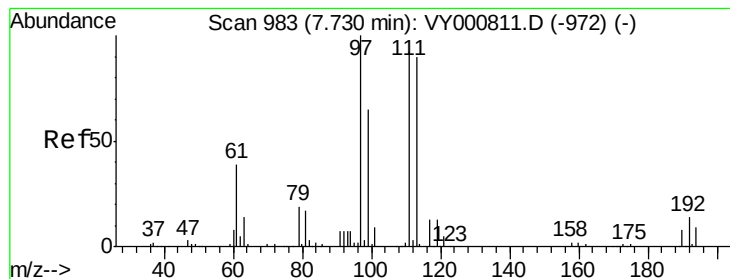
Tgt Ion: 65 Resp: 136065  
 Ion Ratio Lower Upper  
 65 100  
 67 55.2 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY000861.D  
 Acq: 04 Dec 2019 14:18

Tgt Ion: 114 Resp: 428805  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 39.8  
 88 14.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.447 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

SB-1-(0-2)

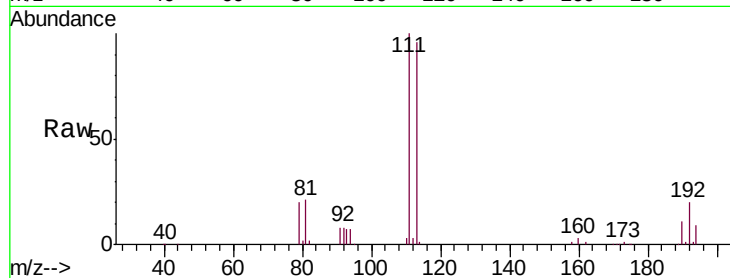
Tgt Ion:113 Resp: 123572

Ion Ratio Lower Upper

113 100

111 104.1 82.4 123.6

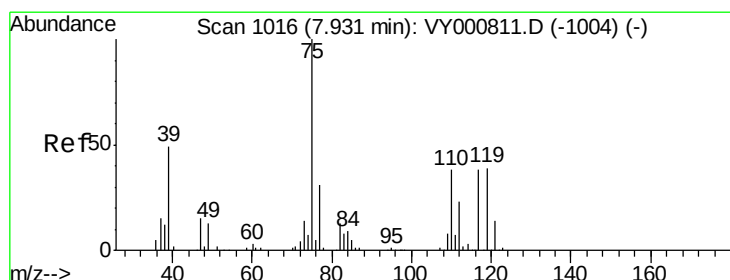
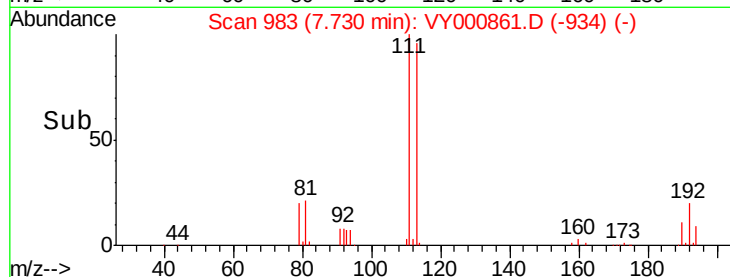
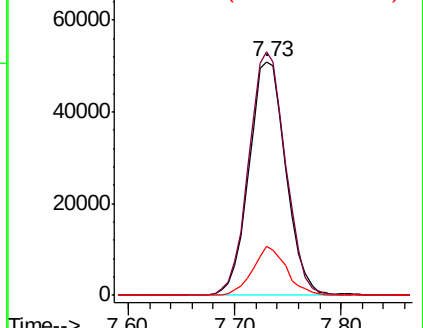
192 19.0 14.2 21.2



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: 4.142 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

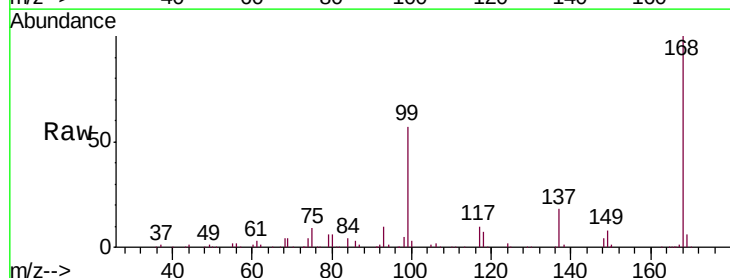
Tgt Ion: 75 Resp: 17659

Ion Ratio Lower Upper

75 100

110 8.6 17.9 53.7#

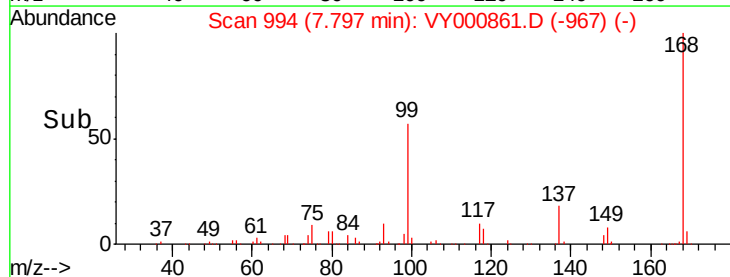
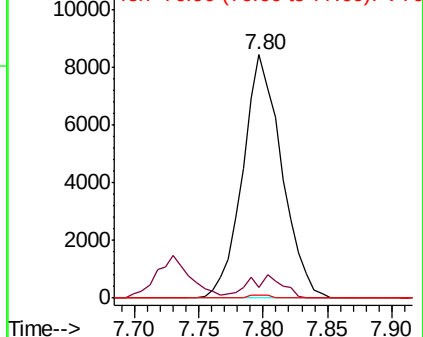
77 0.6 24.7 37.1#

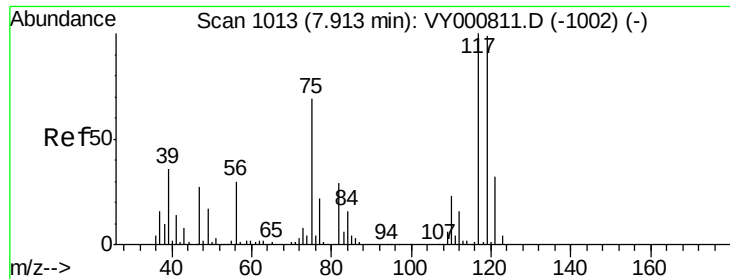


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

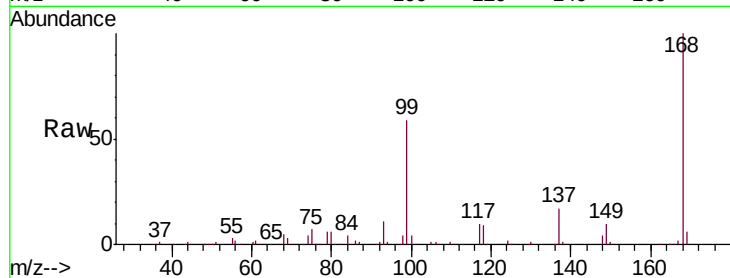




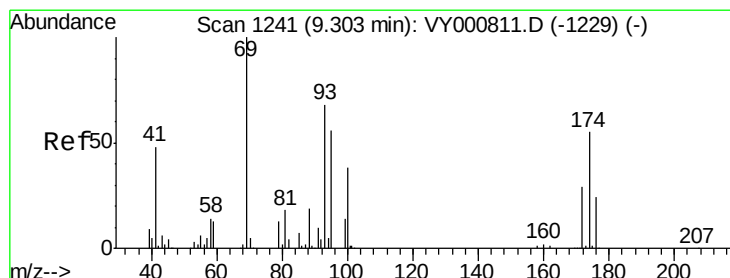
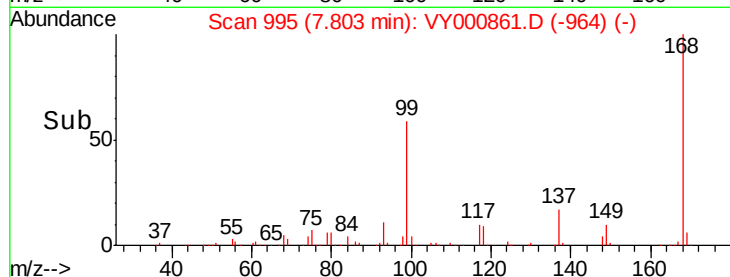
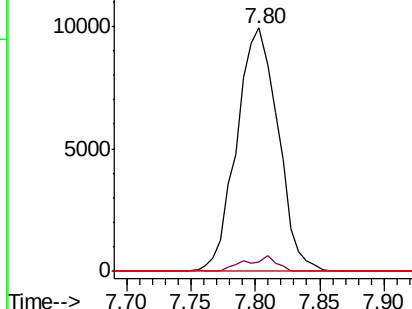
#38  
Carbon Tetrachloride  
Concen: 5.806 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.11 min  
Lab File: VY000861.D  
Acq: 04 Dec 2019 14:18

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-1-(0-2)

Tgt Ion: 117 Resp: 22044  
Ion Ratio Lower Upper  
117 100  
119 3.9 79.3 118.9#  
121 0.0 25.5 38.3#

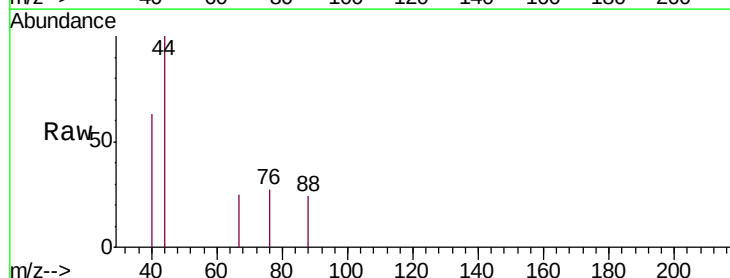


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

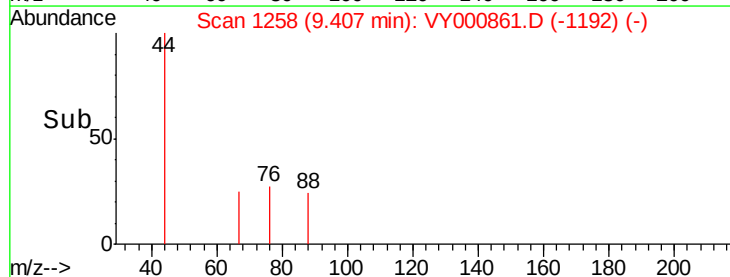
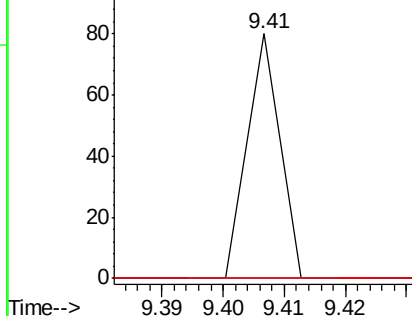


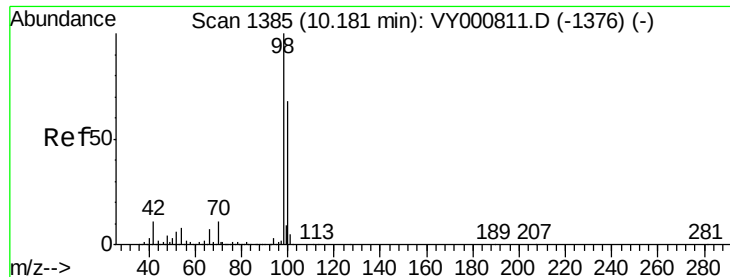
#49  
1,4-Dioxane  
Concen: 1.256 ug/l  
RT: 9.41 min Scan# 1258  
Delta R.T. 0.10 min  
Lab File: VY000861.D  
Acq: 04 Dec 2019 14:18

Tgt Ion: 88 Resp: 29  
Ion Ratio Lower Upper  
88 100  
43 0.0 21.1 31.7#  
58 0.0 50.7 76.1#



Abundance Ion 88.00 (87.70 to 88.70): VY0  
Ion 43.00 (42.70 to 43.70): VY0  
Ion 58.00 (57.70 to 58.70): VY0





#50

Toluene-d8

Concen: 50.617 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

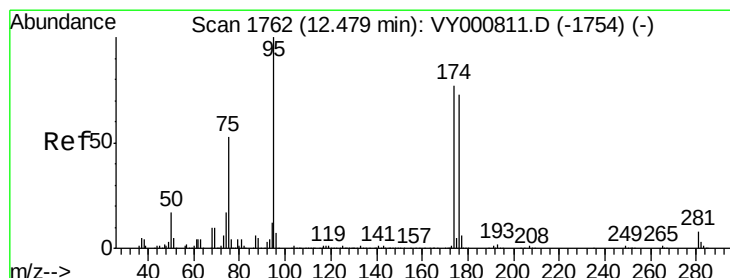
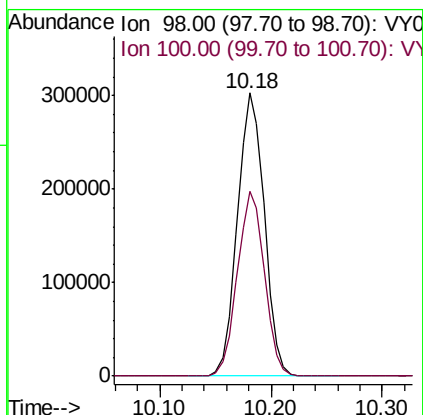
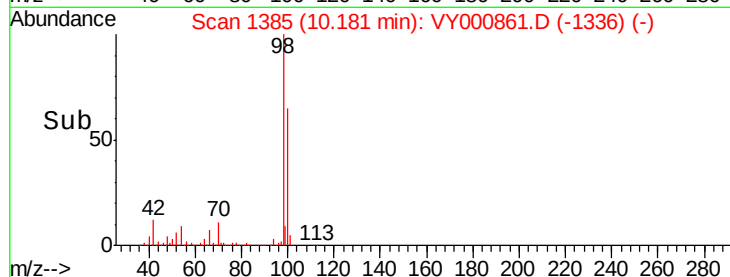
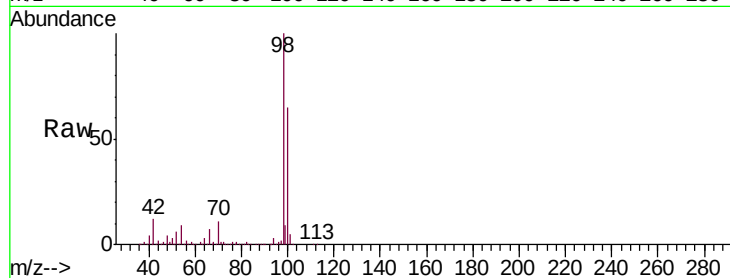
SB-1-(0-2)

Tgt Ion: 98 Resp: 505721

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 44.682 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

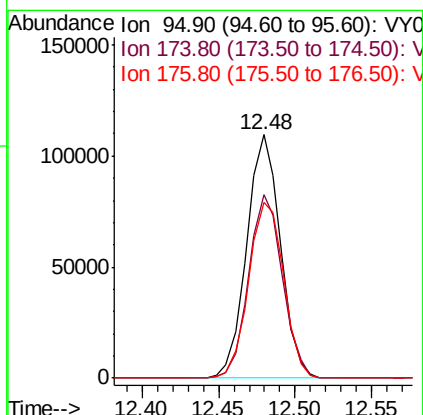
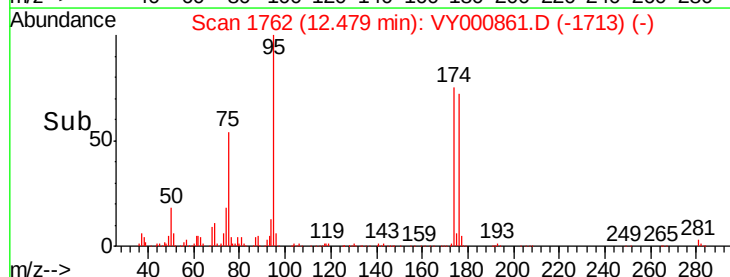
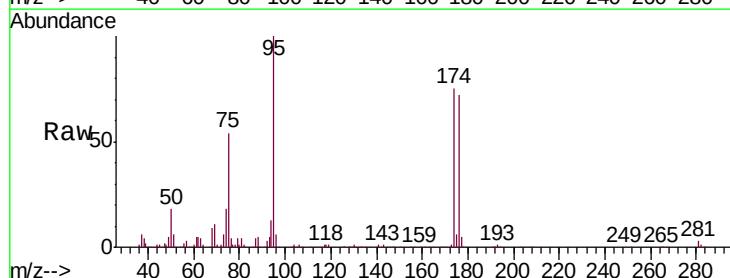
Tgt Ion: 95 Resp: 167657

Ion Ratio Lower Upper

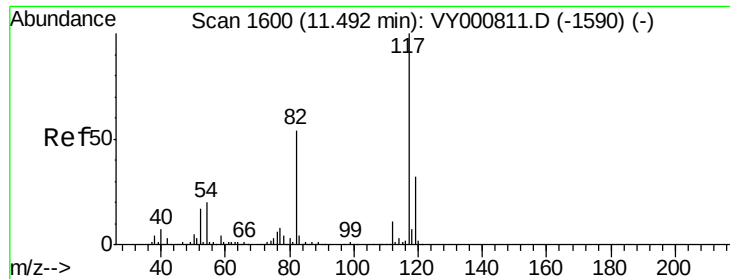
95 100

174 75.7 0.0 150.6

176 75.0 0.0 145.2



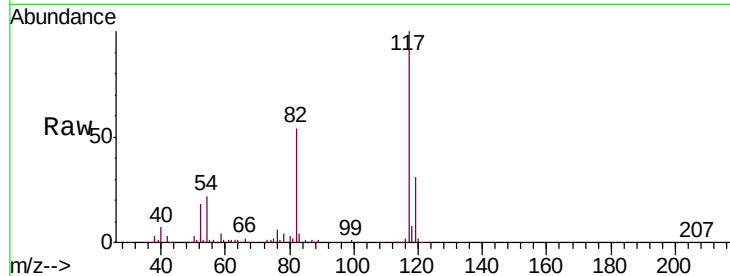




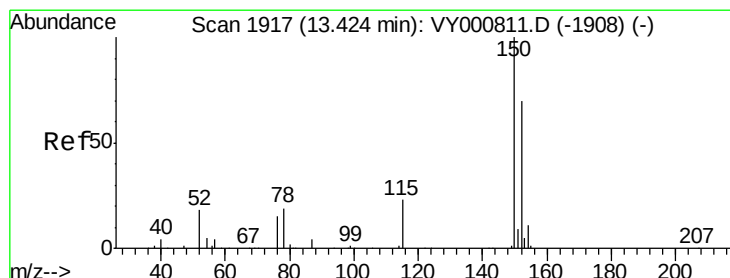
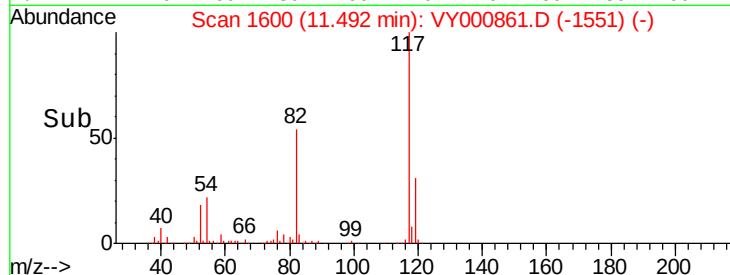
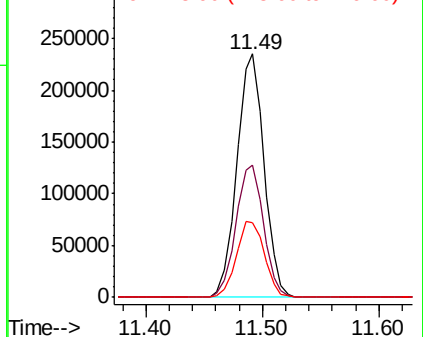
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000861.D  
Acq: 04 Dec 2019 14:18

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-1(0-2)

Tgt Ion:117 Resp: 381054  
Ion Ratio Lower Upper  
117 100  
82 54.2 43.1 64.7  
119 30.9 25.3 37.9

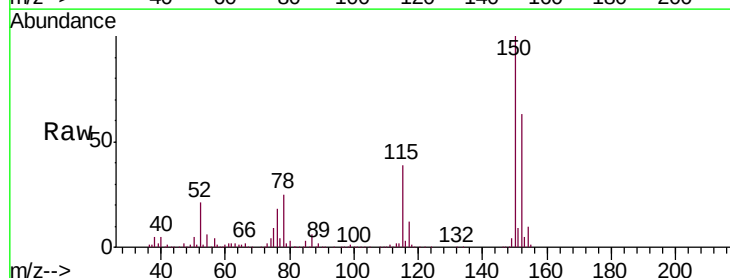


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

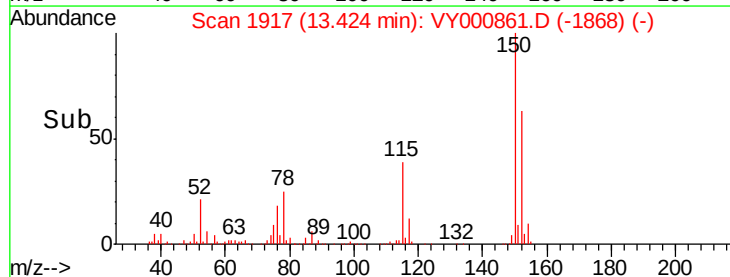
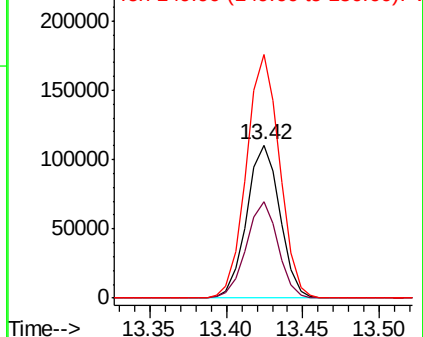


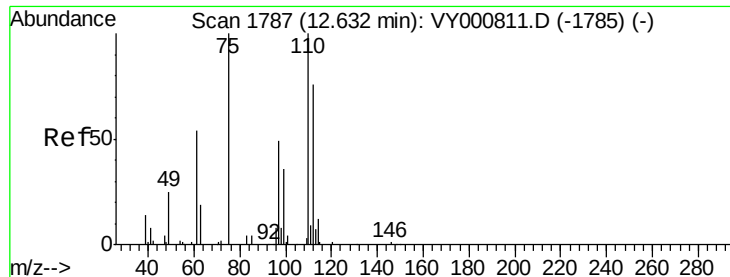
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000861.D  
Acq: 04 Dec 2019 14:18

Tgt Ion:152 Resp: 166416  
Ion Ratio Lower Upper  
152 100  
115 60.4 29.3 87.8  
150 159.1 0.0 351.2



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: 48.015 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

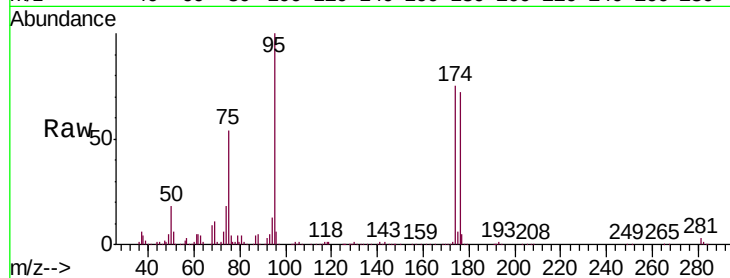
SB-1-(0-2)

Tgt Ion: 75 Resp: 90532

Ion Ratio Lower Upper

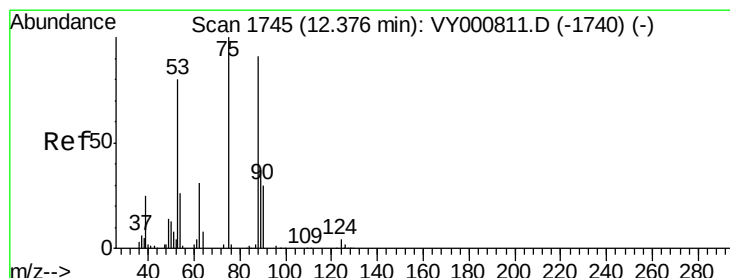
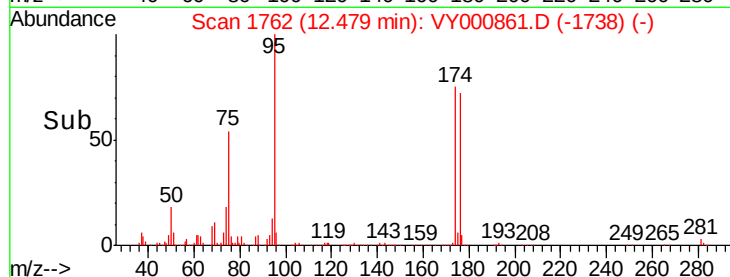
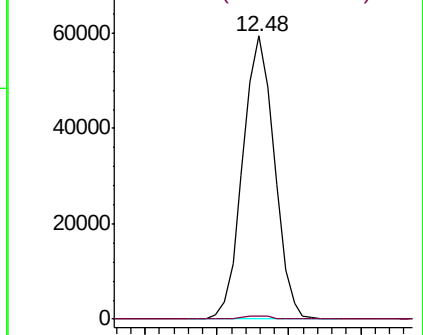
75 100

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: 94.316 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000861.D

Acq: 04 Dec 2019 14:18

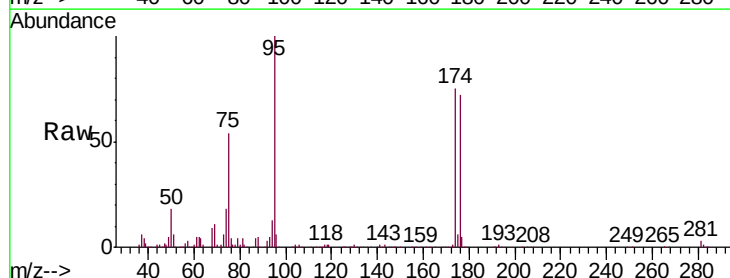
Tgt Ion: 75 Resp: 90532

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

89 0.3 33.6 50.4#



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

