

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012020\  
 Data File : VY001304.D  
 Acq On : 20 Jan 2020 18:29  
 Operator : SY/MD  
 Sample : L1210-01  
 Misc : 6.31G/5ML/MSVOA Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 21 07:03:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 21 06:54:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.83  | 168  | 125927   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.72  | 114  | 219349   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 192022   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 82331    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 67854    | 51.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.04% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 63969    | 49.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.62%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 257601   | 52.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.12% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 89867    | 44.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.84%  |          |

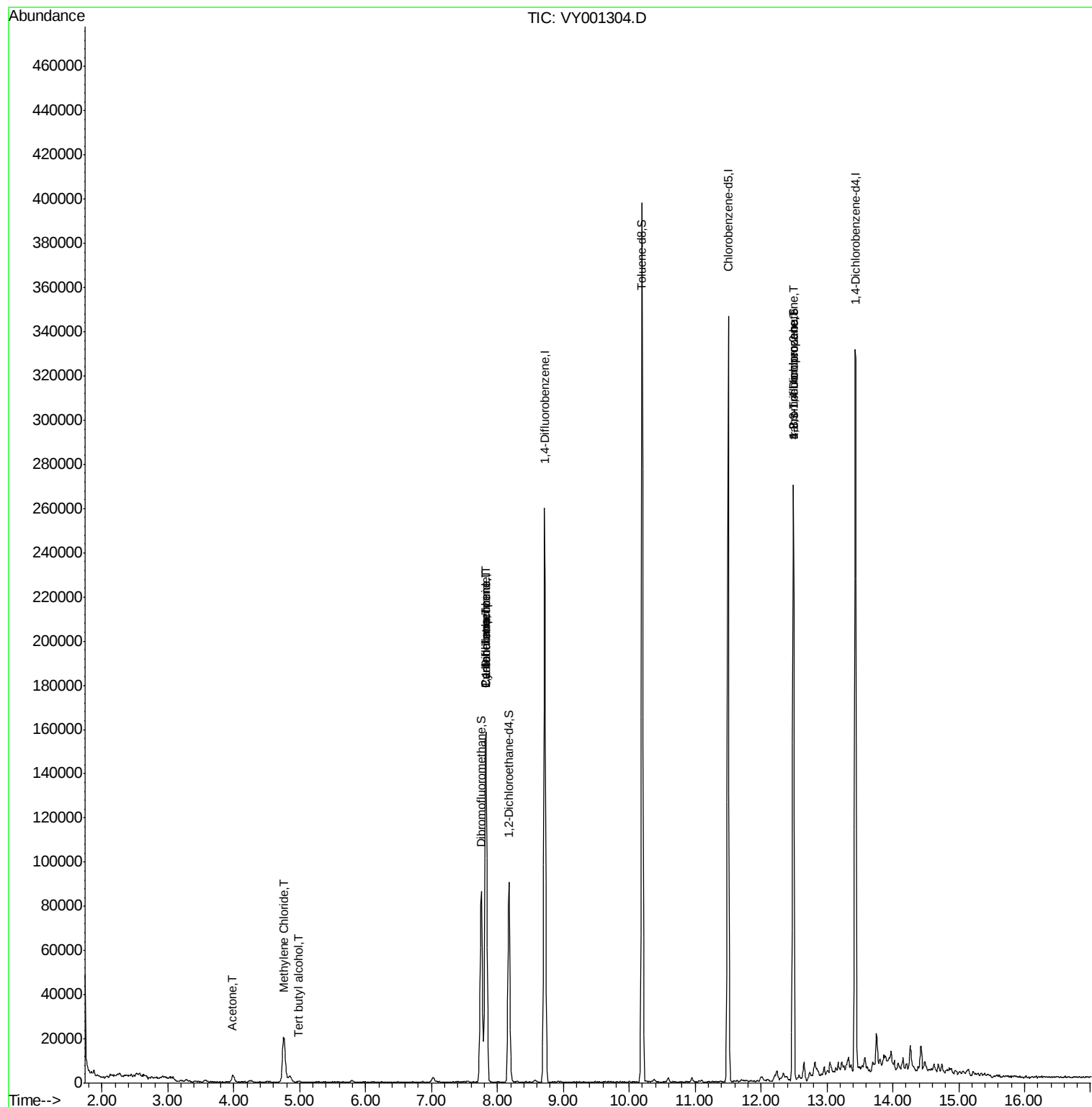
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.99  | 59   | 472      | 3.527  | ug/l # | 85     |
| 16) Acetone                    | 3.98  | 43   | 5686     | 18.408 | ug/l   | 97     |
| 20) Methylene Chloride         | 4.76  | 84   | 15431    | 5.842  | ug/l   | 96     |
| 31) Cyclohexane                | 7.82  | 56   | 2753     | 1.070  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 9717     | 4.860  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 12690    | 6.926  | ug/l # | 13     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 43188    | 49.002 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 43188    | 83.096 | ug/l # | 6      |

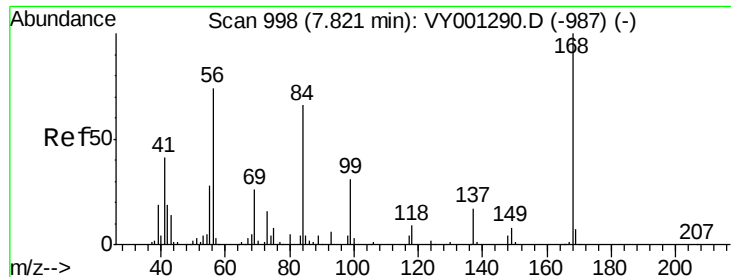
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY012020\  
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Sample : L1210-01  
Misc : 6.31G/5ML/MSVOA Y/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Jan 21 07:03:49 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 21 06:54:04 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.83 min Scan# 999

Delta R.T. 0.01 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

Instrument :

MSVOA\_Y

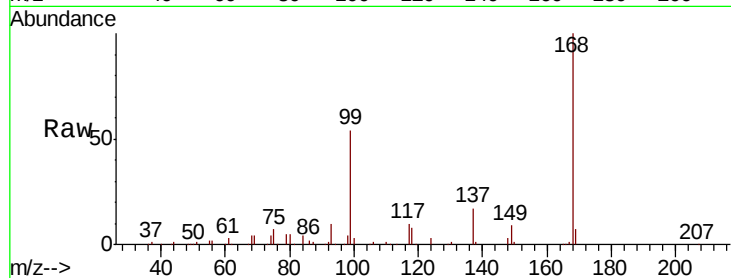
ClientSampled :

Tot Ion:168 Resp: 125927

Ion Ratio Lower Upper

168 100

99 54.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001290.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001290.D (-987) (-)

7.83

60000

50000

40000

30000

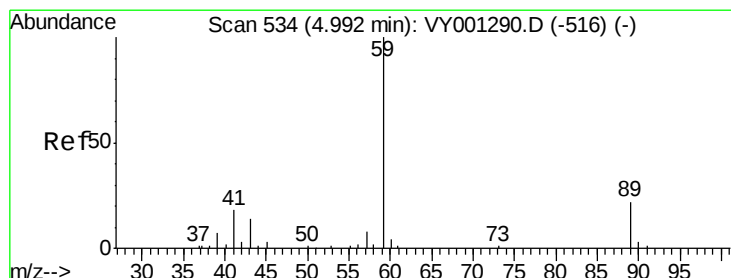
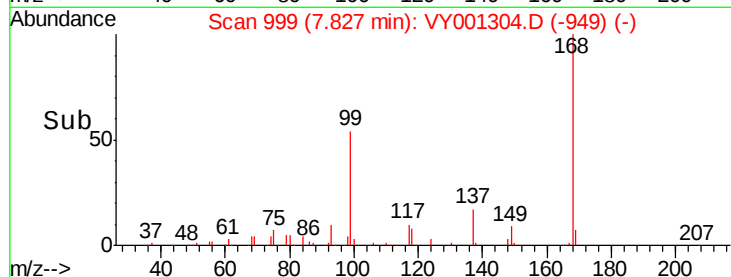
20000

10000

0

Time-->

7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 3.527 ug/l

RT: 4.99 min Scan# 533

Delta R.T. -0.01 min

Lab File: VY001304.D

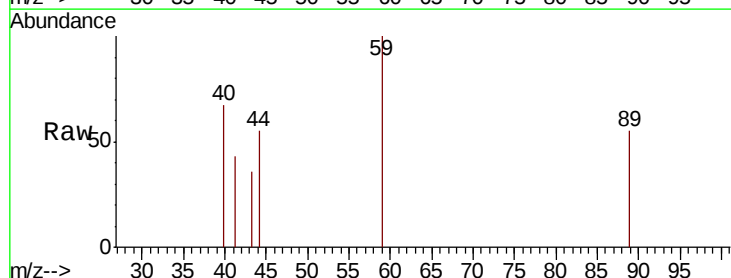
Acq: 20 Jan 2020 18:29

Tgt Ion: 59 Resp: 472

Ion Ratio Lower Upper

59 100

57 4.4 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VY001290.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY001290.D (-516) (-)

4.99

250

200

150

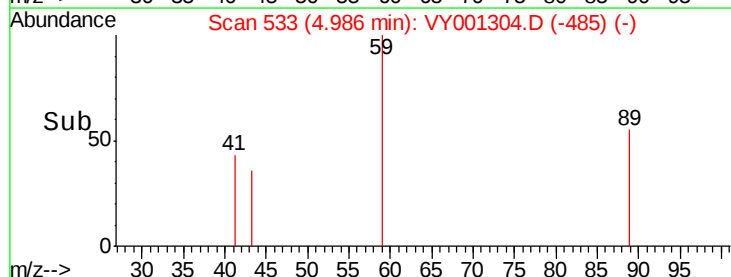
100

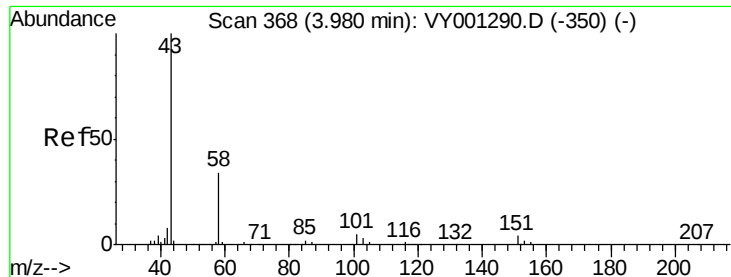
50

0

Time-->

4.95 5.00





#16

Acetone

Concen: 18.408 ug/l

RT: 3.98 min Scan# 368

Delta R.T. -0.00 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

Instrument :

MSVOA\_Y

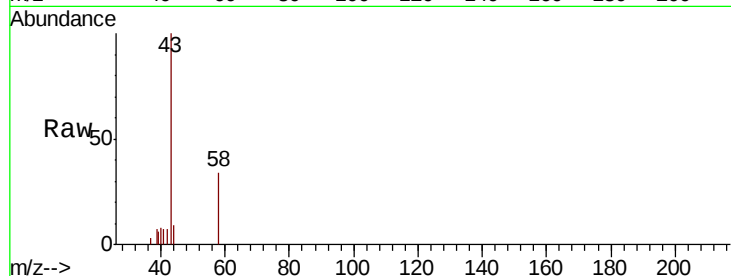
ClientSampleId :

Tot Ion: 43 Resp: 5686

Ion Ratio Lower Upper

43 100

58 34.1 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY001290.D (-350) (-)

Ion 58.00 (57.70 to 58.70): VY001290.D (-350) (-)

2500

2000

1500

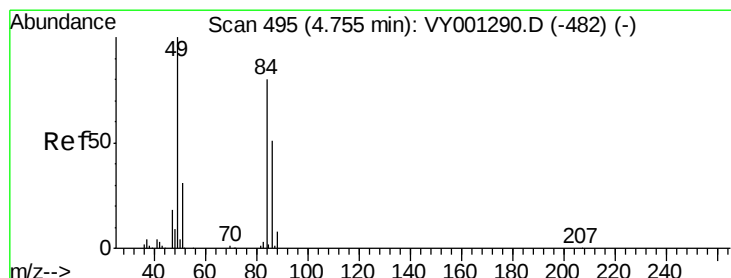
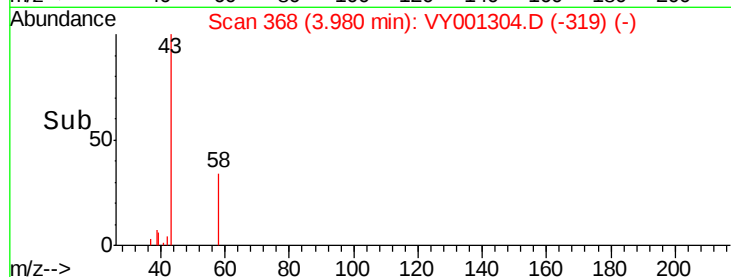
1000

500

0

3.90 4.00 4.10

Time-->



#20

Methylene Chloride

Concen: 5.842 ug/l

RT: 4.76 min Scan# 496

Delta R.T. 0.01 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

Tgt Ion: 84 Resp: 15431

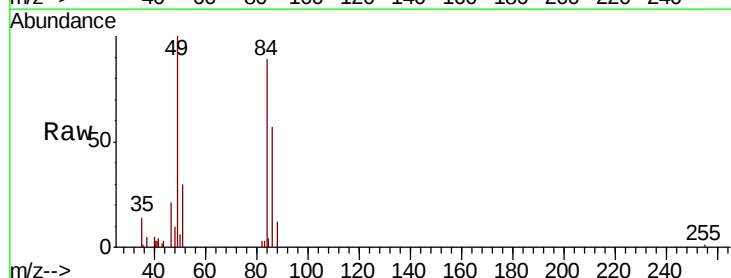
Ion Ratio Lower Upper

84 100

49 112.5 93.8 140.6

51 34.2 29.9 44.9

86 63.9 52.6 78.8



Abundance Ion 83.90 (83.60 to 84.60): VY001290.D (-482) (-)

Ion 48.90 (48.60 to 49.60): VY001290.D (-482) (-)

Ion 50.90 (50.60 to 51.60): VY001290.D (-482) (-)

Ion 85.90 (85.60 to 86.60): VY001290.D (-482) (-)

10000

8000

6000

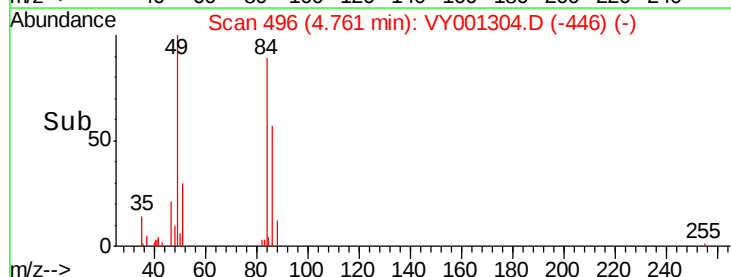
4000

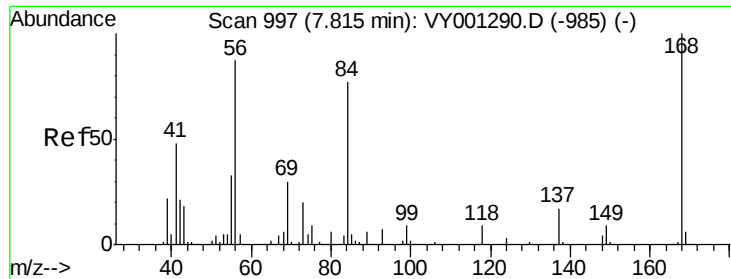
2000

0

4.70 4.80 4.90

Time-->

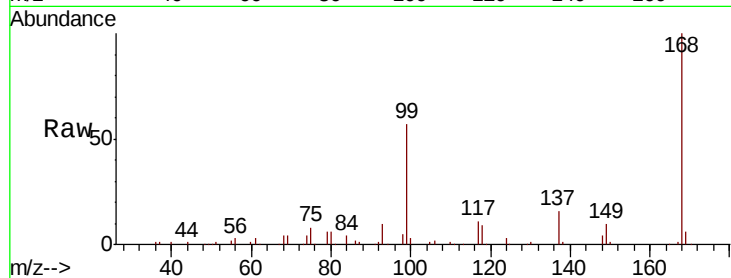




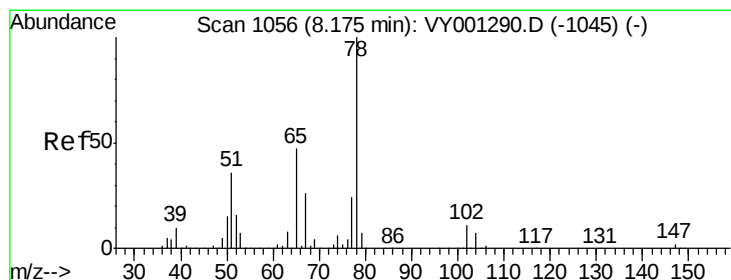
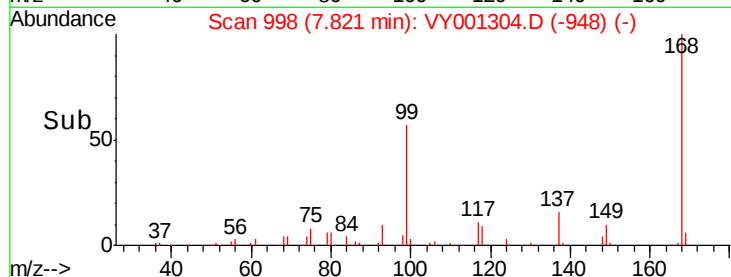
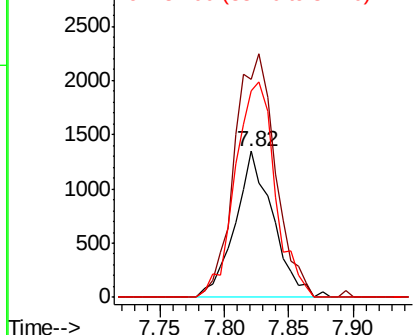
#31  
Cyclohexane  
Concen: 1.070 ug/l  
RT: 7.82 min Scan# 998  
Delta R.T. 0.01 min  
Lab File: VY001304.D  
Acq: 20 Jan 2020 18:29

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 56 Resp: 2753  
Ion Ratio Lower Upper  
56 100  
69 149.8 27.8 41.8#  
84 141.4 68.9 103.3#

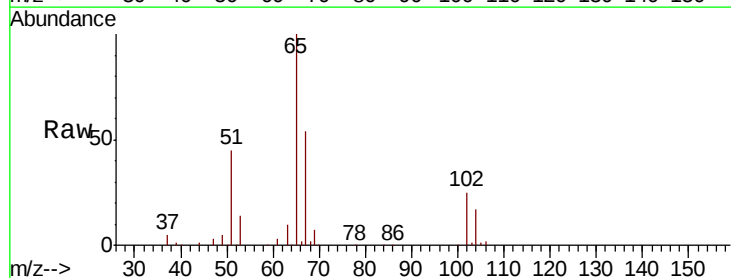


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

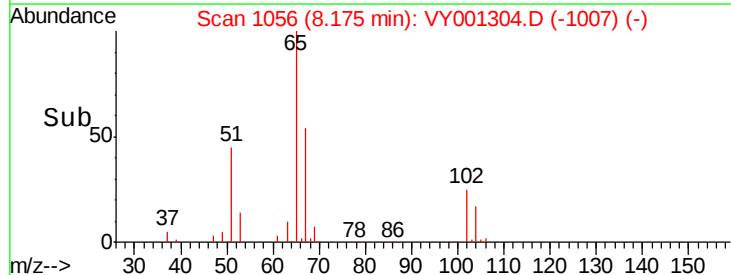
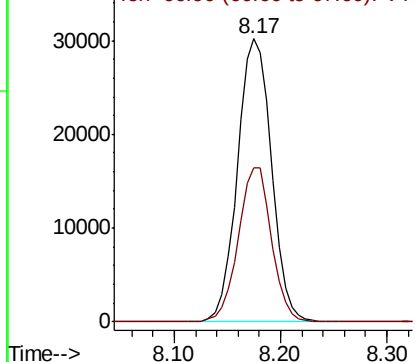


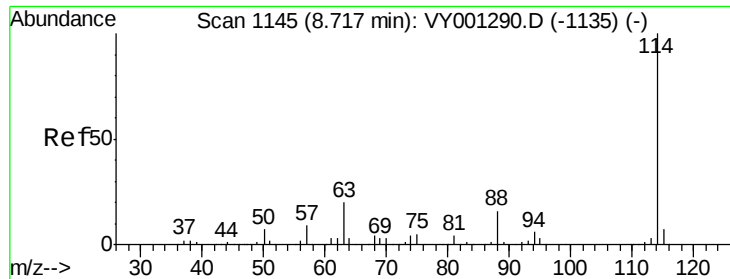
#33  
1,2-Dichloroethane-d4  
Concen: 51.018 ug/l  
RT: 8.17 min Scan# 1056  
Delta R.T. -0.00 min  
Lab File: VY001304.D  
Acq: 20 Jan 2020 18:29

Tgt Ion: 65 Resp: 67854  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 105.2



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

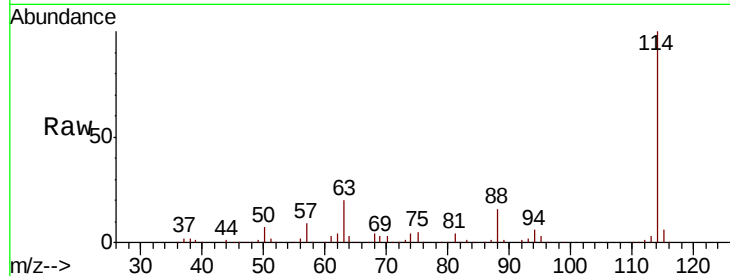




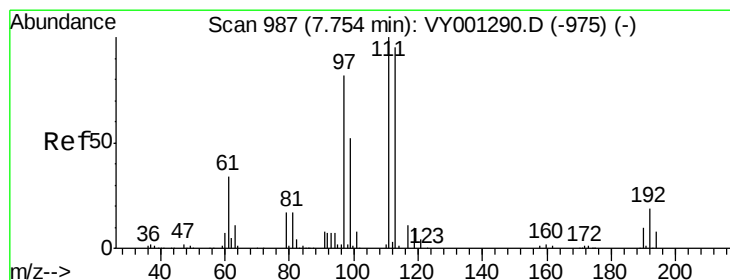
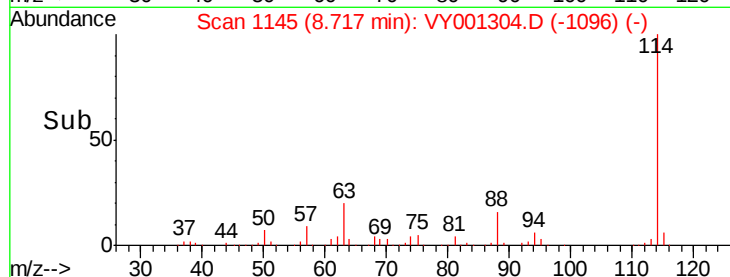
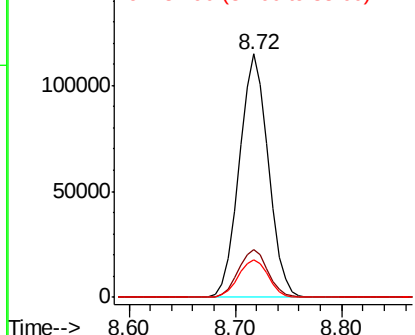
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.72 min Scan# 1145  
 Delta R.T. -0.00 min  
 Lab File: VY001304.D  
 Acq: 20 Jan 2020 18:29

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:114 Resp: 219349  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 40.8  
 88 15.7 0.0 32.4

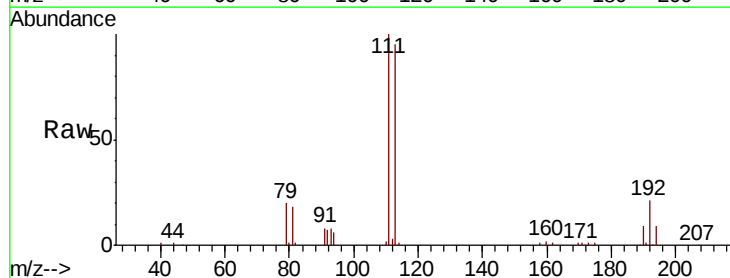


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

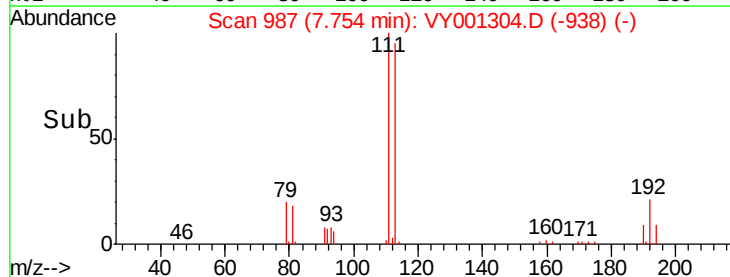
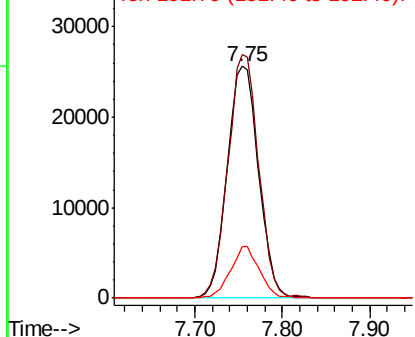


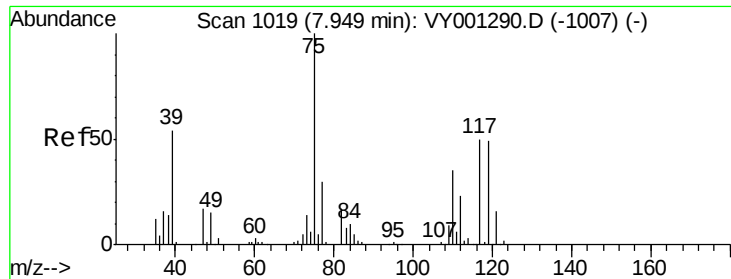
#35  
 Dibromofluoromethane  
 Concen: 49.809 ug/l  
 RT: 7.75 min Scan# 987  
 Delta R.T. -0.00 min  
 Lab File: VY001304.D  
 Acq: 20 Jan 2020 18:29

Tgt Ion:113 Resp: 63969  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.9 124.3  
 192 20.4 15.4 23.2



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

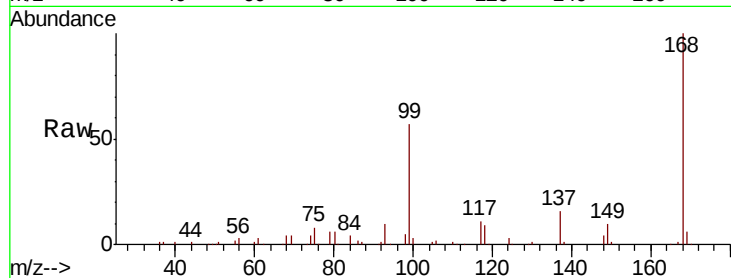




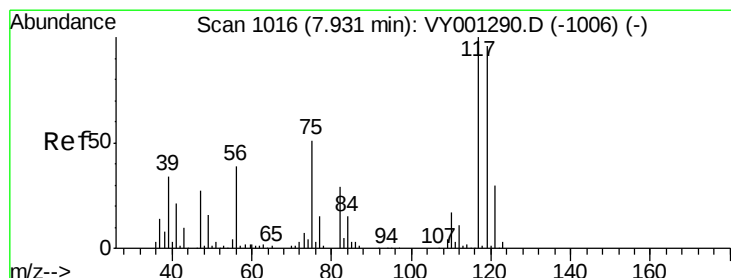
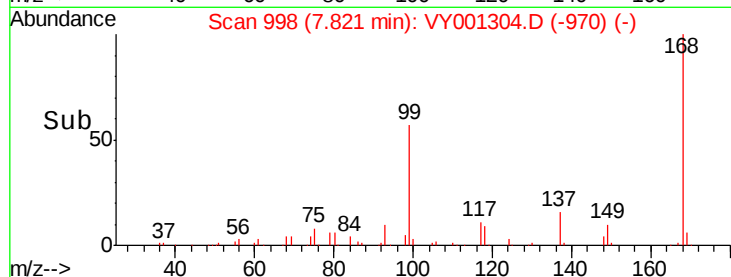
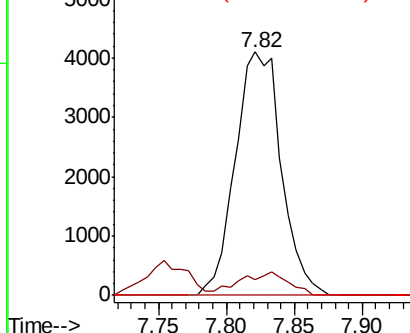
#36  
 1,1-Dichloropropene  
 Concen: 4.860 ug/l  
 RT: 7.82 min Scan# 998  
 Delta R.T. -0.13 min  
 Lab File: VY001304.D  
 Acq: 20 Jan 2020 18:29

Instrument :  
 MSVOA\_Y  
 ClientSampled :

Tot Ion: 75 Resp: 9717  
 Ion Ratio Lower Upper  
 75 100  
 110 10.0 18.3 54.8#  
 77 0.0 25.1 37.7#

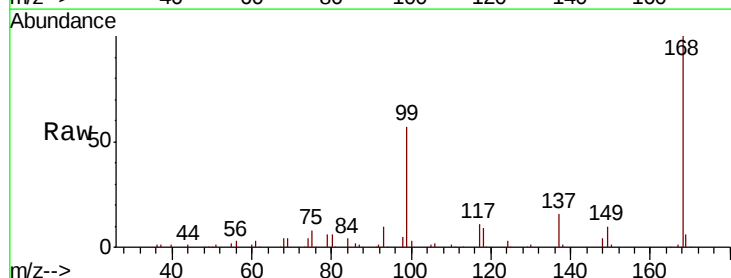


Abundance Ion 74.90 (74.60 to 75.60): VY001290.D (-1007) (-)  
 Ion 109.90 (109.60 to 110.60): VY001290.D (-1007) (-)  
 Ion 76.90 (76.60 to 77.60): VY001290.D (-1007) (-)

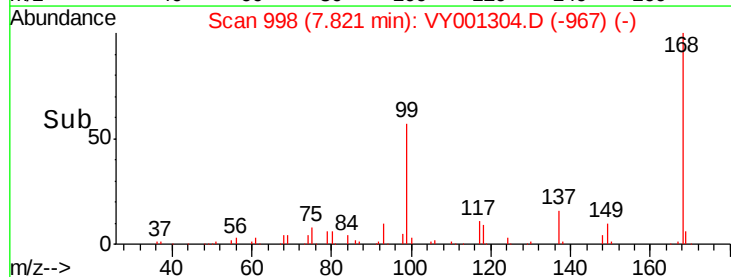
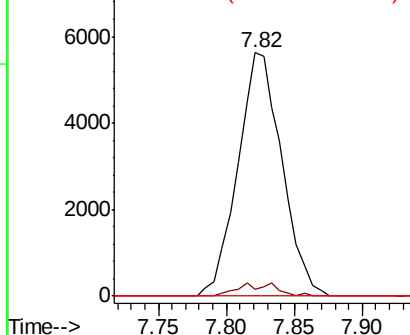


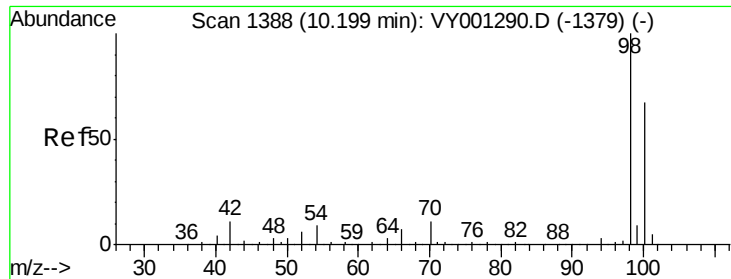
#38  
 Carbon Tetrachloride  
 Concen: 6.926 ug/l  
 RT: 7.82 min Scan# 998  
 Delta R.T. -0.11 min  
 Lab File: VY001304.D  
 Acq: 20 Jan 2020 18:29

Tgt Ion: 117 Resp: 12690  
 Ion Ratio Lower Upper  
 117 100  
 119 3.0 78.3 117.5#  
 121 0.0 23.5 35.3#



Abundance Ion 116.80 (116.50 to 117.50): VY001290.D (-1006) (-)  
 Ion 118.80 (118.50 to 119.50): VY001290.D (-1006) (-)  
 Ion 120.80 (120.50 to 121.50): VY001290.D (-1006) (-)





#50

Toluene-d8

Concen: 52.056 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

Instrument :

MSVOA\_Y

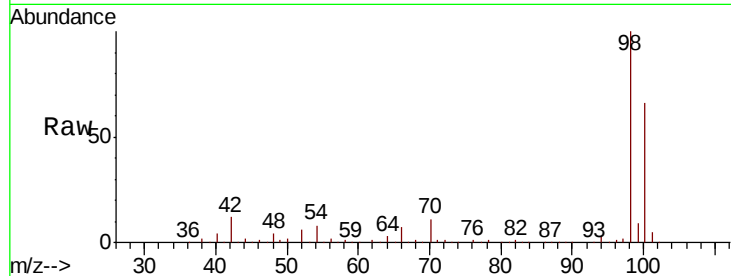
ClientSampleId :

Tot Ion: 98 Resp: 257601

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY001290.D (-1379) (-)

Ion 100.00 (99.70 to 100.70): VY001290.D (-1379) (-)

10.19

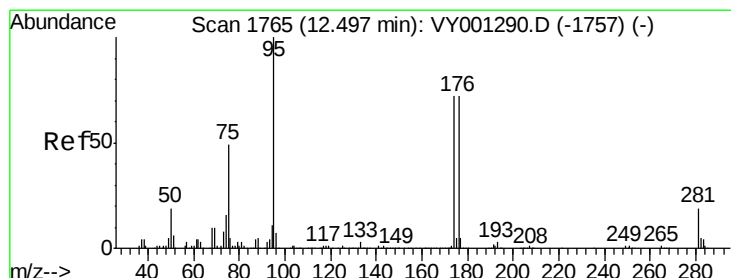
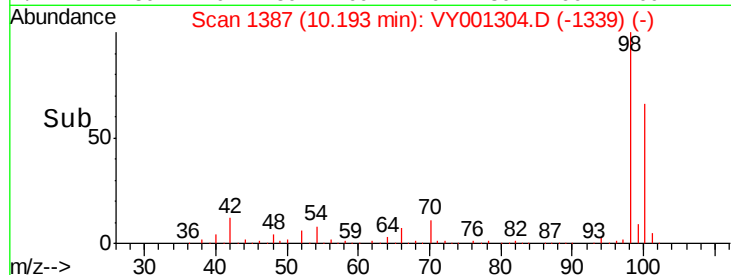
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.420 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.01 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

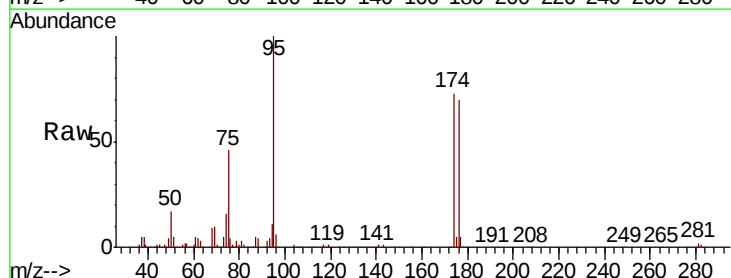
Tgt Ion: 95 Resp: 89867

Ion Ratio Lower Upper

95 100

174 73.1 0.0 143.2

176 71.7 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VY001290.D (-1757) (-)

Ion 173.80 (173.50 to 174.50): VY001290.D (-1757) (-)

Ion 175.80 (175.50 to 176.50): VY001290.D (-1757) (-)

80000

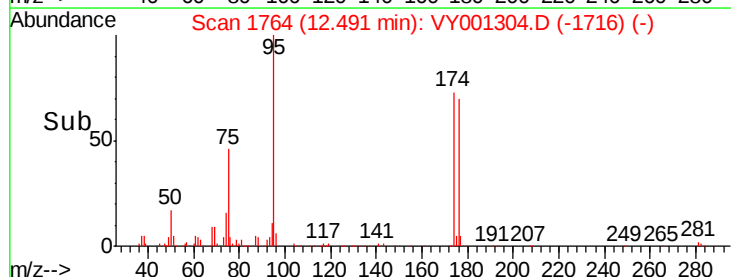
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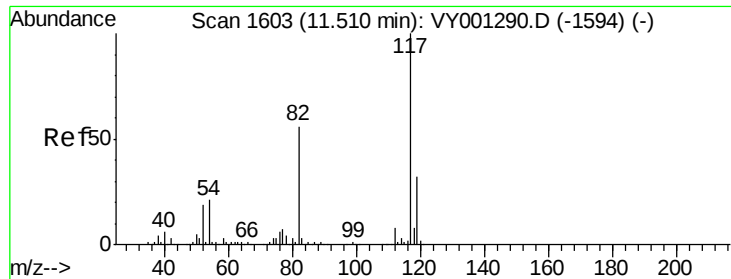
40000

20000

0

Time-->

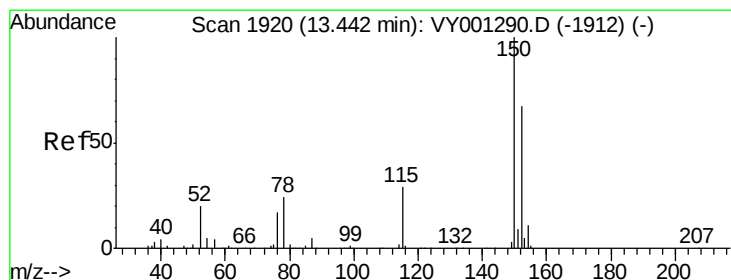
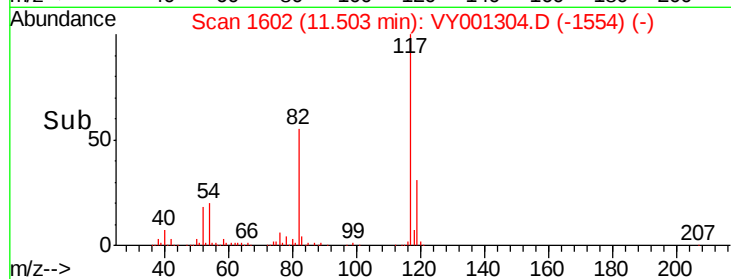
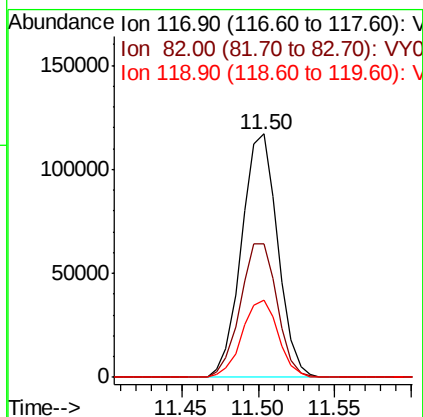
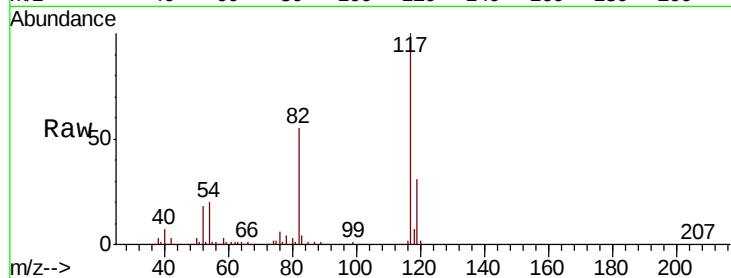




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. -0.01 min  
Lab File: VY001304.D  
Acq: 20 Jan 2020 18:29

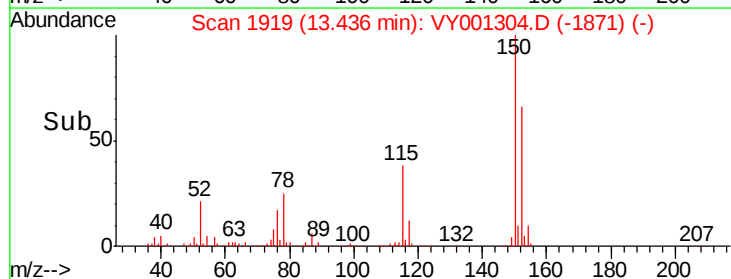
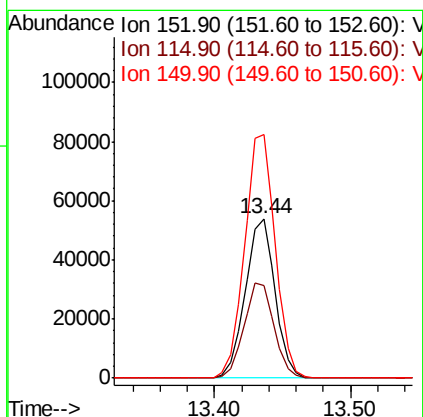
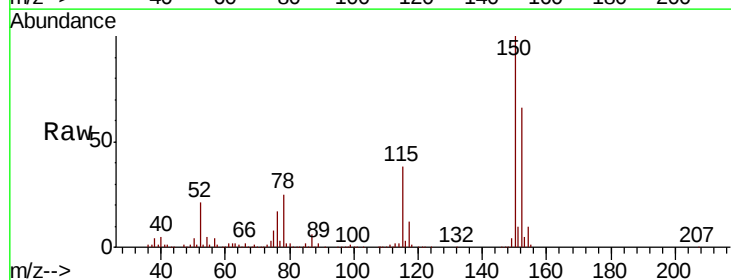
Instrument :  
MSVOA\_Y  
ClientSampleId :

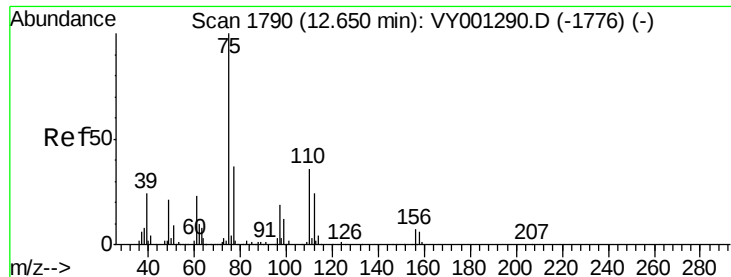
Tot Ion:117 Resp: 192022  
Ion Ratio Lower Upper  
117 100  
82 54.9 44.9 67.3  
119 31.5 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. -0.01 min  
Lab File: VY001304.D  
Acq: 20 Jan 2020 18:29

Tgt Ion:152 Resp: 82331  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.9 92.5  
150 157.1 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 49.002 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.16 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

Instrument :

MSVOA\_Y

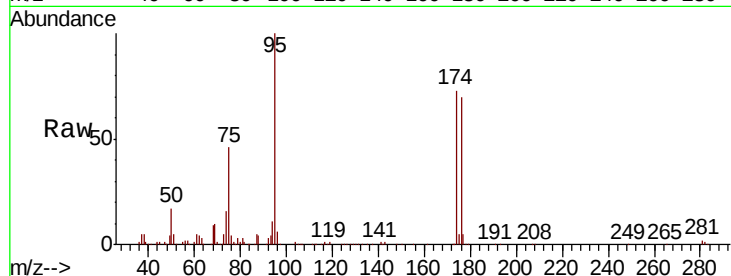
ClientSampled :

Tot Ion: 75 Resp: 43188

Ion Ratio Lower Upper

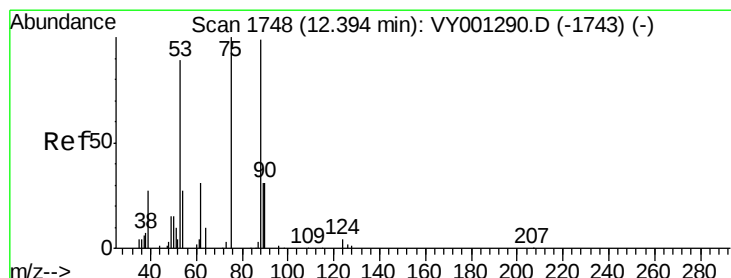
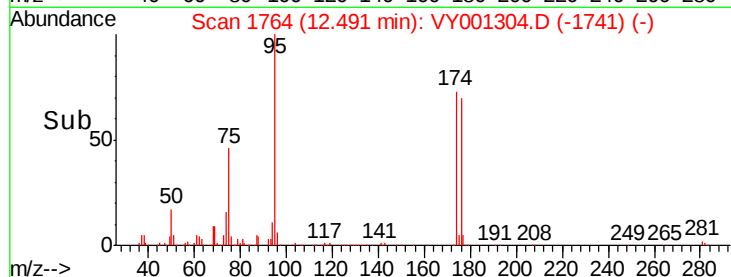
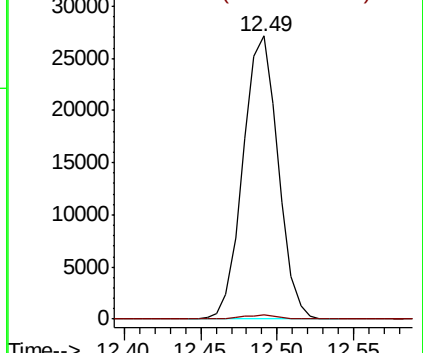
75 100

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: 83.096 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001304.D

Acq: 20 Jan 2020 18:29

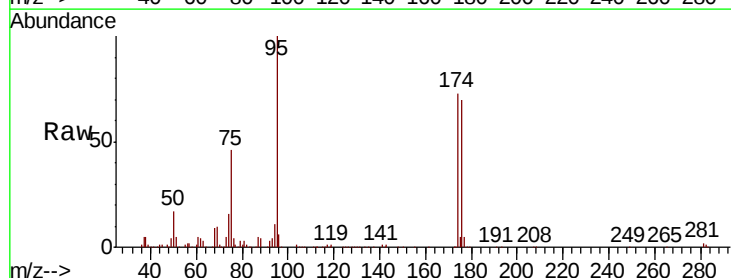
Tgt Ion: 75 Resp: 43188

Ion Ratio Lower Upper

75 100

53 0.1 69.4 104.2#

89 0.0 0.0 0.0



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

