

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012420\  
 Data File : VY001390.D  
 Acq On : 24 Jan 2020 18:08  
 Operator : SY/MD  
 Sample : L1263-02  
 Misc : 6.63G/5ML/MSVOA Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 25 03:52:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

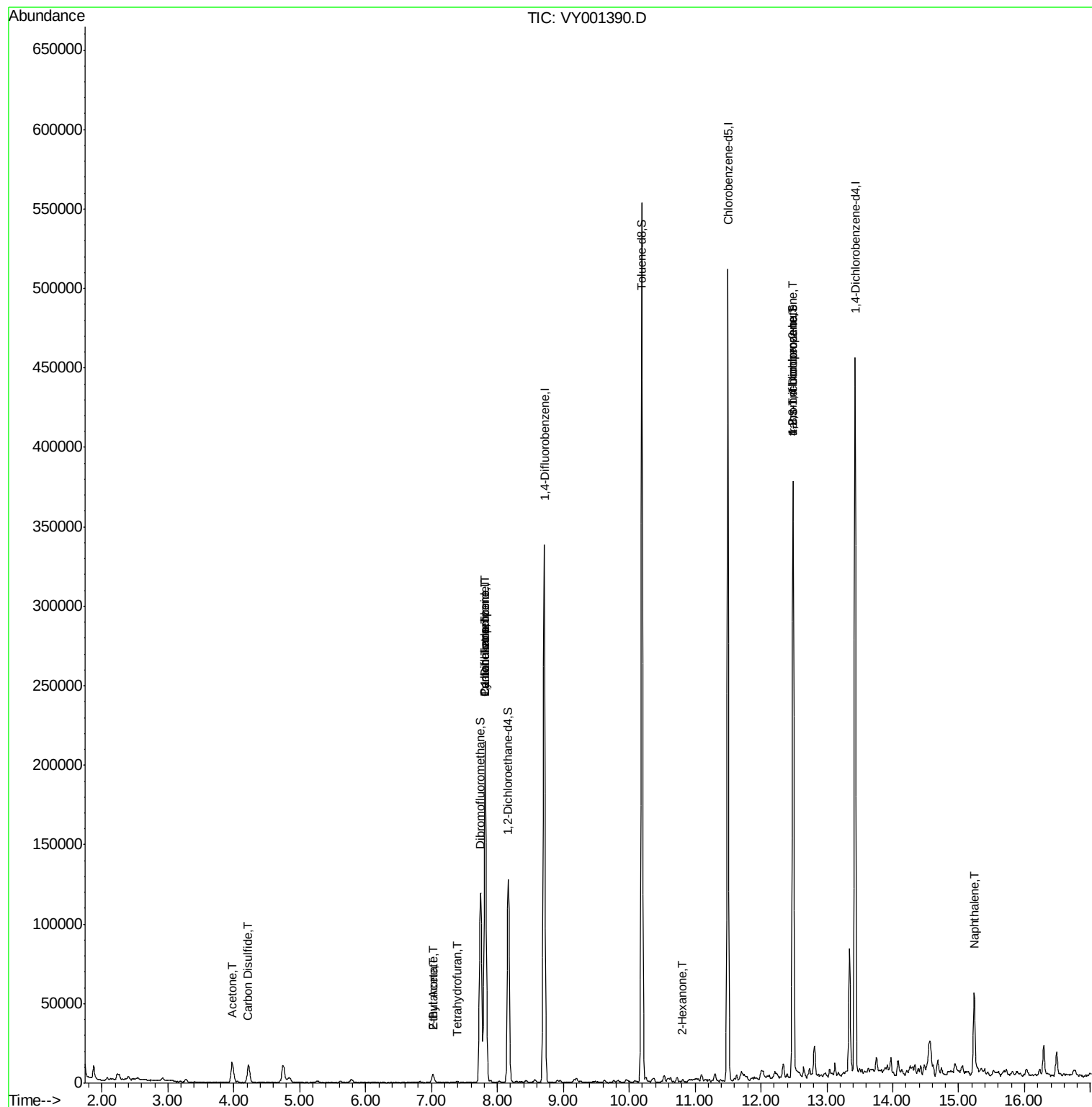
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.82   | 168  | 162815   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.71   | 114  | 295457   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.50  | 117  | 267505   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.43  | 152  | 110226   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.16   | 65   | 96908    | 54.70     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 109.40% |          |
| 35) Dibromofluoromethane       | 7.74   | 113  | 87595    | 50.51     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 101.02% |          |
| 50) Toluene-d8                 | 10.19  | 98   | 352265   | 52.29     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 104.58% |          |
| 62) 4-Bromofluorobenzene       | 12.49  | 95   | 122156   | 45.53     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 91.06%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 5.00   | 59   | 119      | Below Cal | #       | 74       |
| 13) Acrolein                   | 3.76   | 56   | 329      | Below Cal |         | 92       |
| 16) Acetone                    | 3.98   | 43   | 23166    | 43.372    | ug/l    | 100      |
| 17) Carbon Disulfide           | 4.22   | 76   | 21693    | 3.990     | ug/l    | 95       |
| 20) Methylene Chloride         | 4.75   | 84   | 8225     | Below Cal | #       | 90       |
| 25) 2-Butanone                 | 7.02   | 43   | 7525     | 9.759     | ug/l    | 99       |
| 29) Tetrahydrofuran            | 7.38   | 42   | 526      | 1.048     | ug/l #  | 63       |
| 31) Cyclohexane                | 7.82   | 56   | 6039     | 1.763     | ug/l #  | 22       |
| 36) 1,1-Dichloropropene        | 7.82   | 75   | 12883    | 4.615     | ug/l #  | 50       |
| 37) Ethyl Acetate              | 7.02   | 43   | 7525     | 4.412     | ug/l #  | 71       |
| 38) Carbon Tetrachloride       | 7.82   | 117  | 15493    | 6.228     | ug/l #  | 16       |
| 59) 2-Hexanone                 | 10.81  | 43   | 1222     | 1.028     | ug/l #  | 24       |
| 76) 1,2,3-Trichloropropane     | 12.49  | 75   | 60727    | 45.720    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49  | 75   | 60727    | 86.521    | ug/l #  | 14       |
| 95) Naphthalene                | 15.23  | 128  | 37537    | 7.148     | ug/l    | 98       |

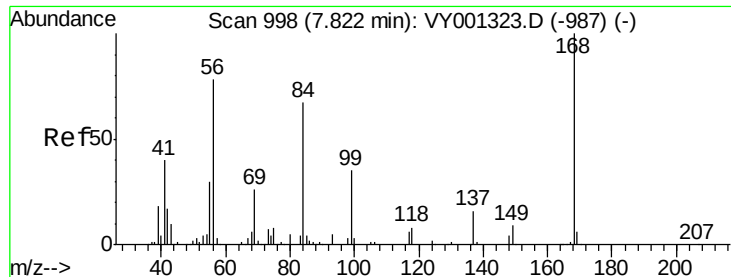
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY012420\  
Data File : VY001390.D  
Acq On : 24 Jan 2020 18:08  
Operator : SY/MD  
Sample : L1263-02  
Misc : 6.63G/5ML/MSVOA Y/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Jan 25 03:52:15 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 01:21:47 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001390.D

Acq: 24 Jan 2020 18:08

Instrument :

MSVOA\_Y

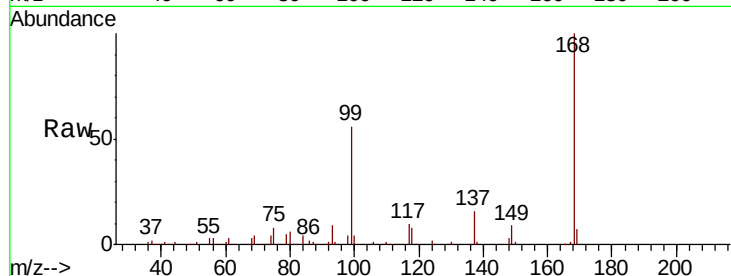
ClientSampled :

Tot Ion:168 Resp: 162815

Ion Ratio Lower Upper

168 100

99 55.7 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)

7.82

80000

60000

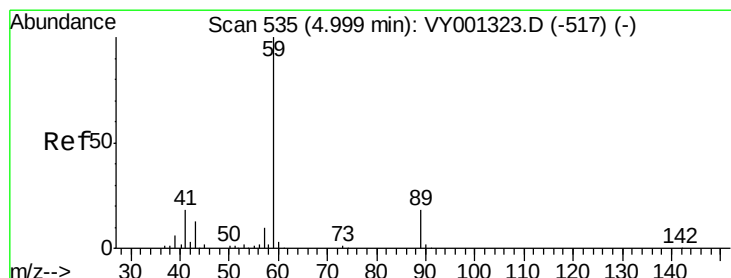
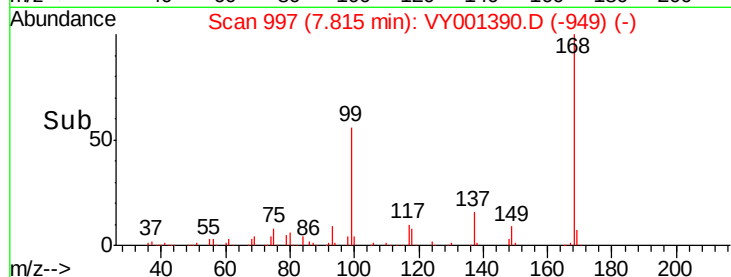
40000

20000

0

7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 536

Delta R.T. 0.01 min

Lab File: VY001390.D

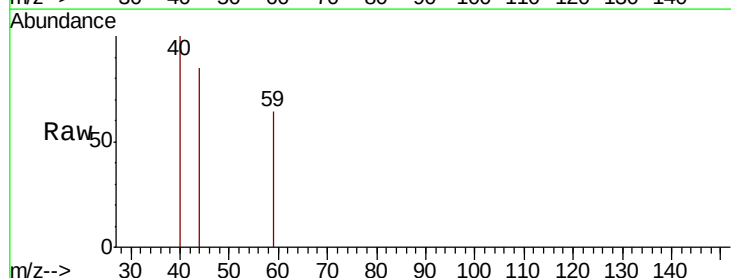
Acq: 24 Jan 2020 18:08

Tgt Ion: 59 Resp: 119

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001323.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY001323.D (-517) (-)

5.00

150

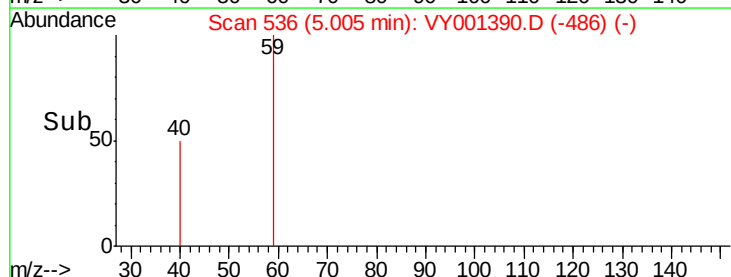
100

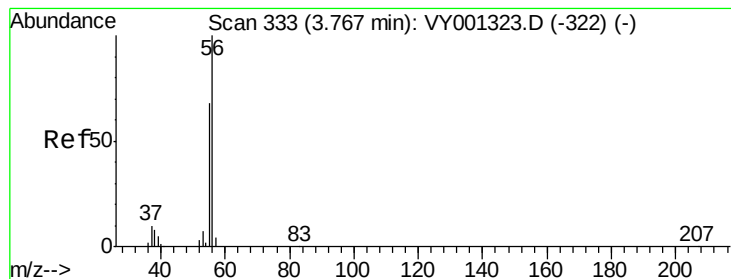
50

0

4.98 4.99 5.00 5.01

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.76 min Scan# 332

Delta R.T. -0.01 min

Lab File: VY001390.D

Acq: 24 Jan 2020 18:08

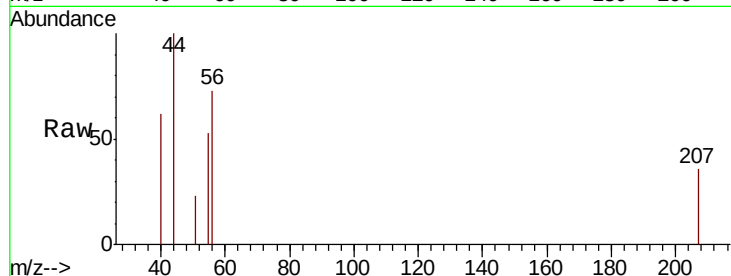
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 56 Resp: 329

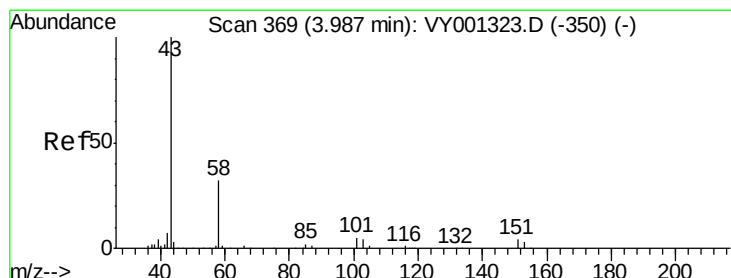
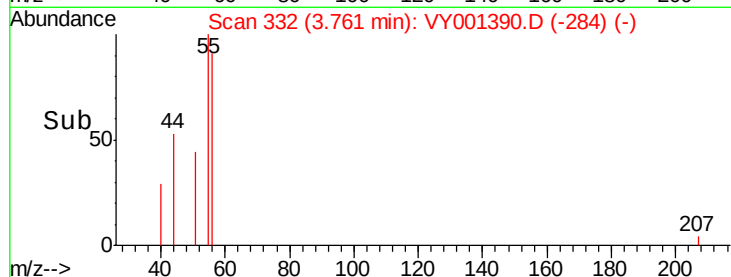
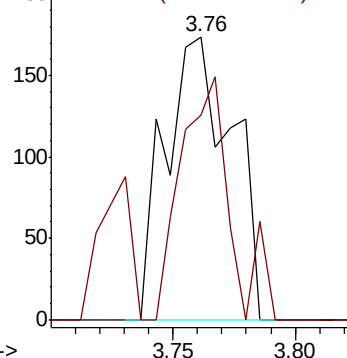
Ion Ratio Lower Upper

56 100

55 63.5 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 43.372 ug/l

RT: 3.98 min Scan# 368

Delta R.T. -0.01 min

Lab File: VY001390.D

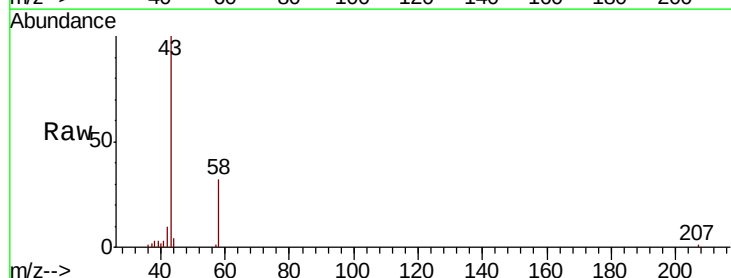
Acq: 24 Jan 2020 18:08

Tgt Ion: 43 Resp: 23166

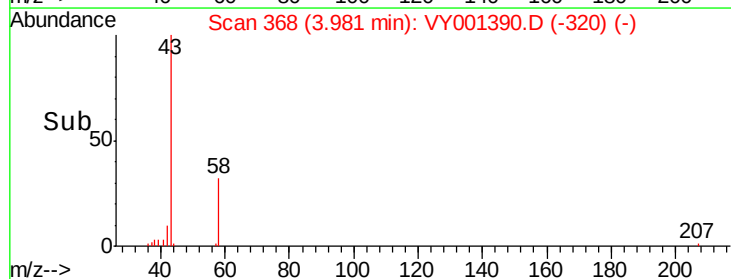
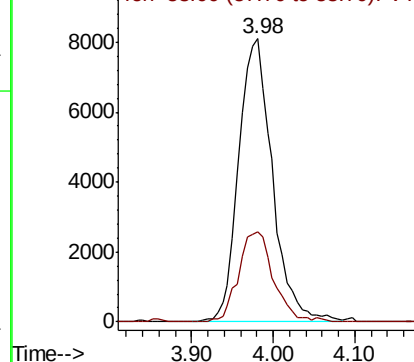
Ion Ratio Lower Upper

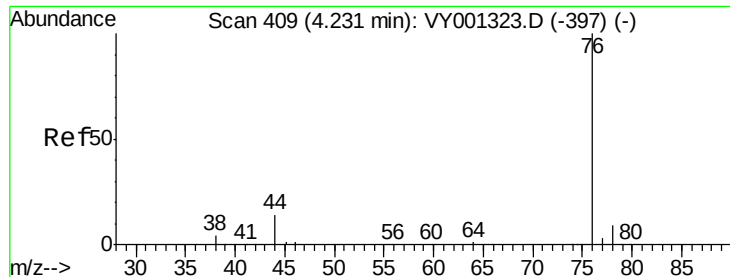
43 100

58 31.8 25.4 38.0



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

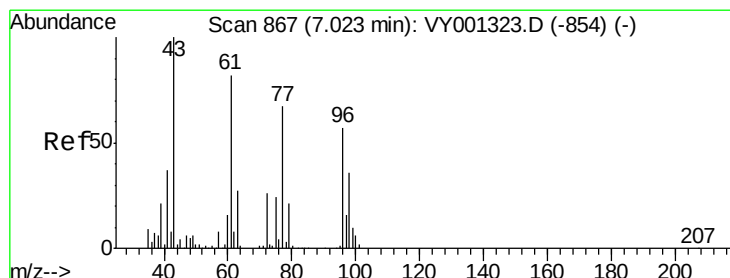
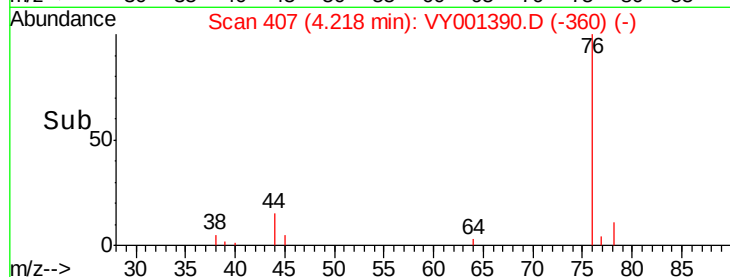
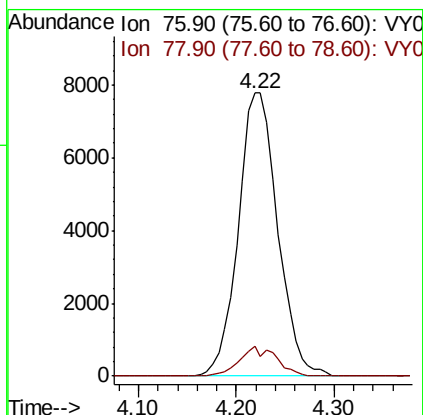
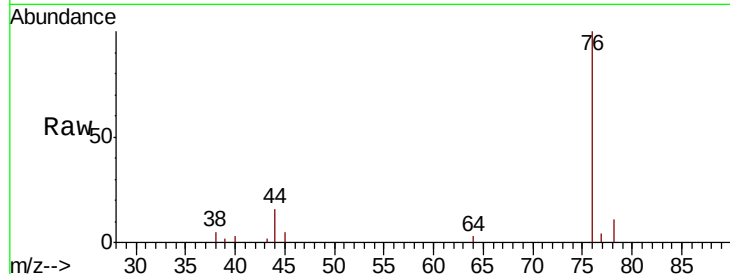




#17  
Carbon Disulfide  
Concen: 3.990 ug/l  
RT: 4.22 min Scan# 407  
Delta R.T. -0.01 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

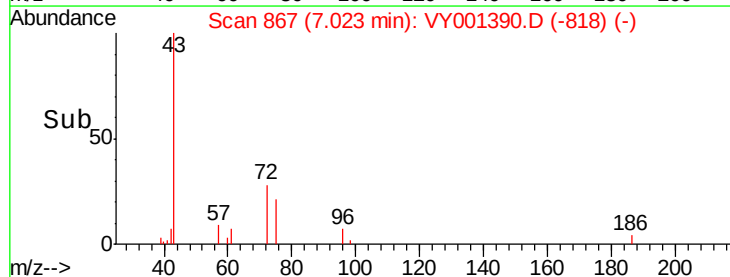
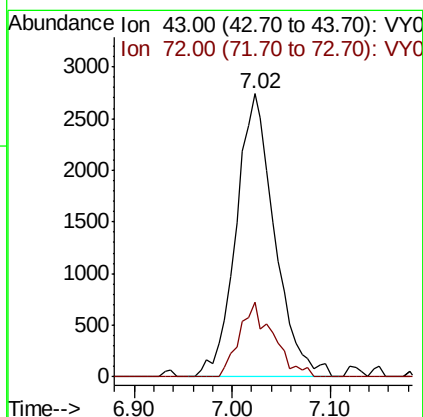
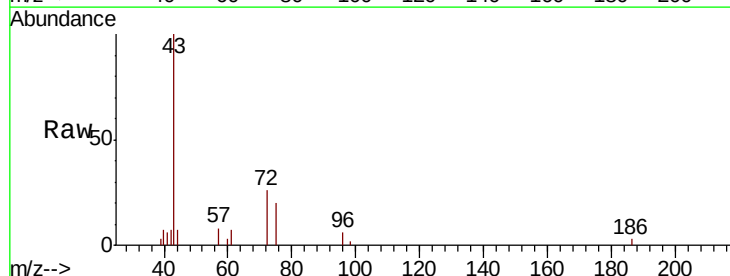
Instrument :  
MSVOA\_Y  
ClientSampleId :

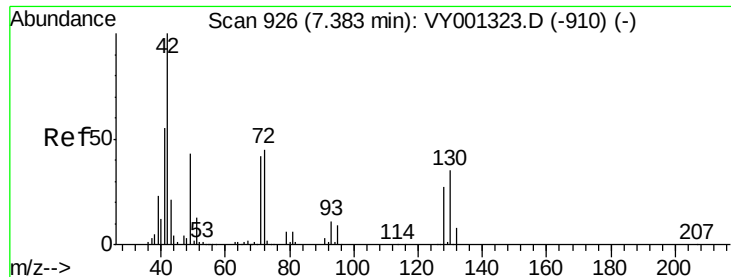
Tot Ion: 76 Resp: 21693  
Ion Ratio Lower Upper  
76 100  
78 10.6 7.0 10.6



#25  
2-Butanone  
Concen: 9.759 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. -0.00 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

Tgt Ion: 43 Resp: 7525  
Ion Ratio Lower Upper  
43 100  
72 26.3 20.6 31.0

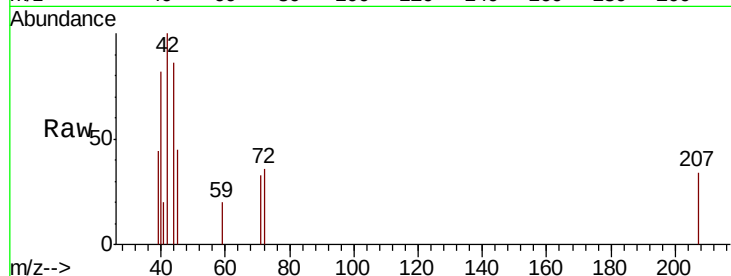




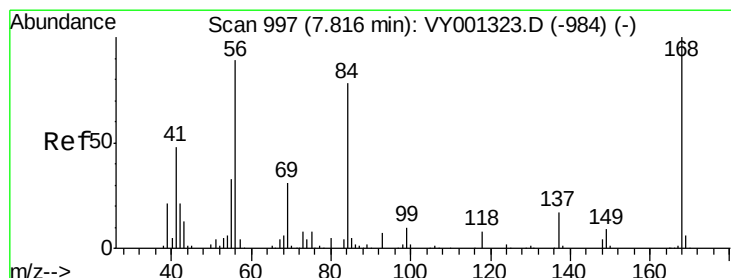
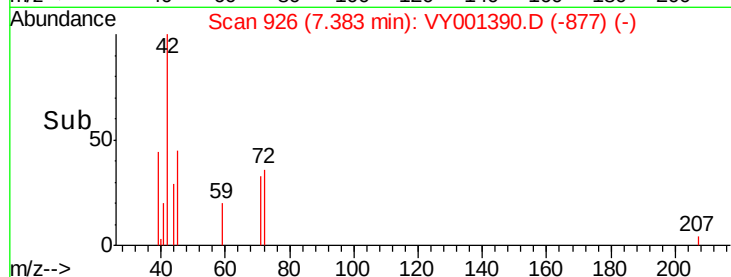
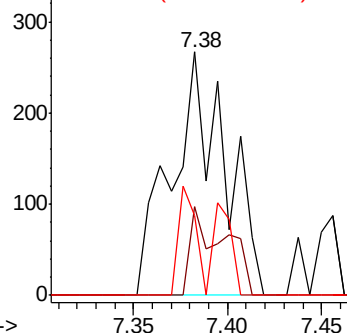
#29  
Tetrahydrofuran  
Concen: 1.048 ug/l  
RT: 7.38 min Scan# 926  
Delta R.T. -0.00 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 42 Resp: 526  
Ion Ratio Lower Upper  
42 100  
72 23.2 34.6 51.8#  
71 14.4 32.6 48.8#

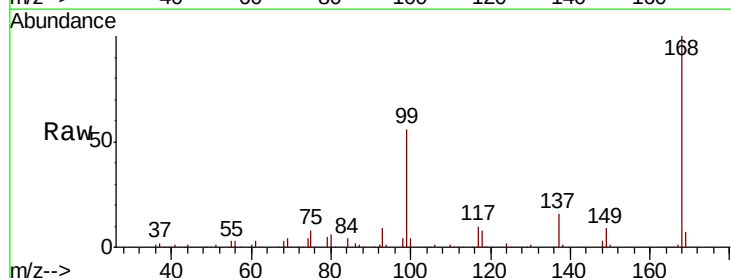


Abundance Ion 42.00 (41.70 to 42.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0  
Ion 71.00 (70.70 to 71.70): VY0

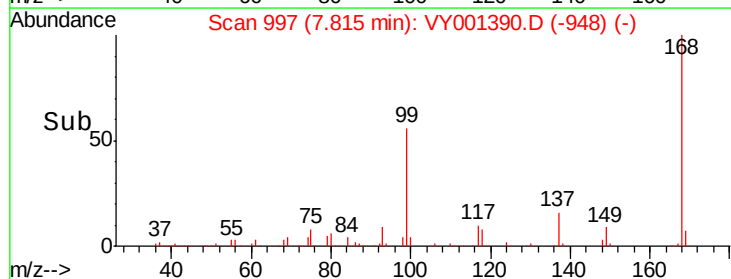
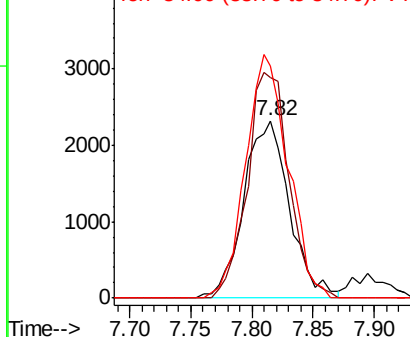


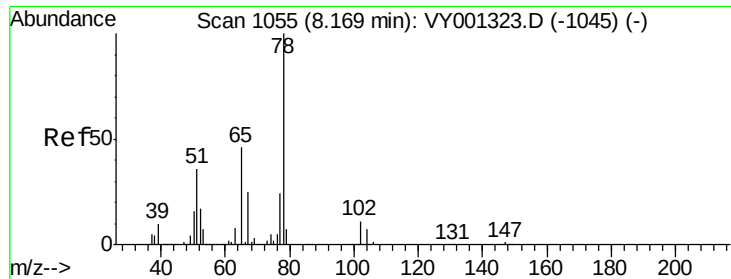
#31  
Cyclohexane  
Concen: 1.763 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

Tgt Ion: 56 Resp: 6039  
Ion Ratio Lower Upper  
56 100  
69 124.4 27.6 41.4#  
84 130.6 69.7 104.5#



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

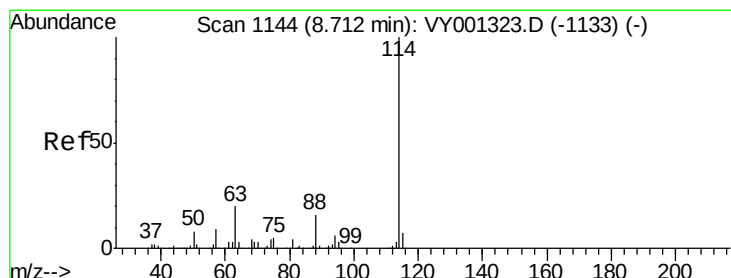
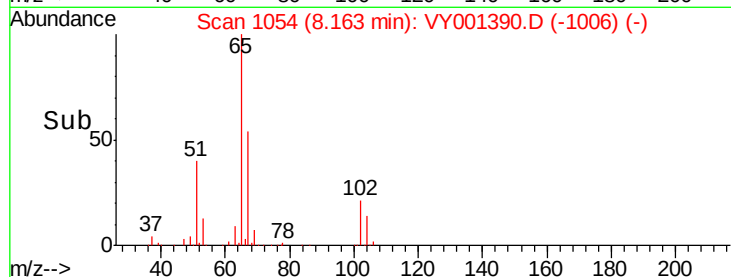
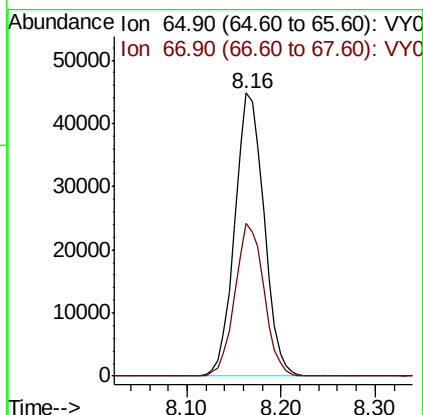
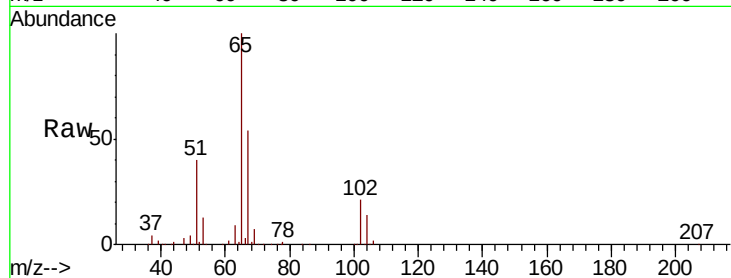




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.699 ug/l  
 RT: 8.16 min Scan# 1054  
 Delta R.T. -0.01 min  
 Lab File: VY001390.D  
 Acq: 24 Jan 2020 18:08

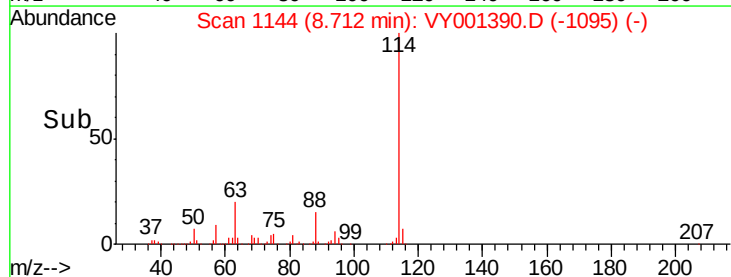
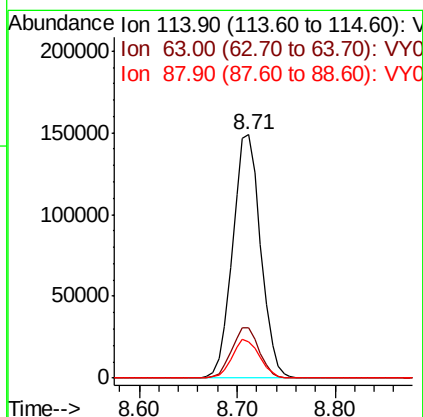
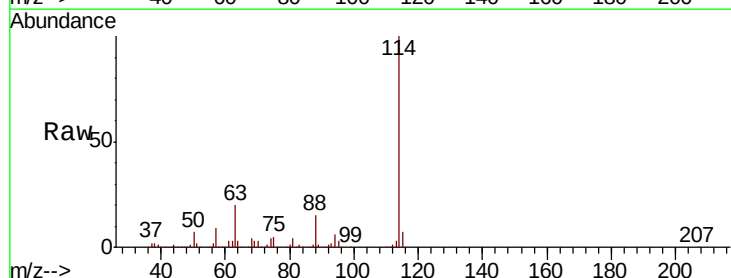
Instrument :  
 MSVOA\_Y  
 ClientSampled :

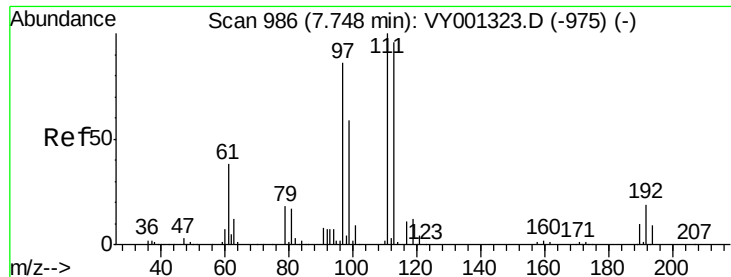
Tot Ion: 65 Resp: 96908  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. -0.00 min  
 Lab File: VY001390.D  
 Acq: 24 Jan 2020 18:08

Tgt Ion: 114 Resp: 295457  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 0.0 40.8  
 88 14.8 0.0 31.0

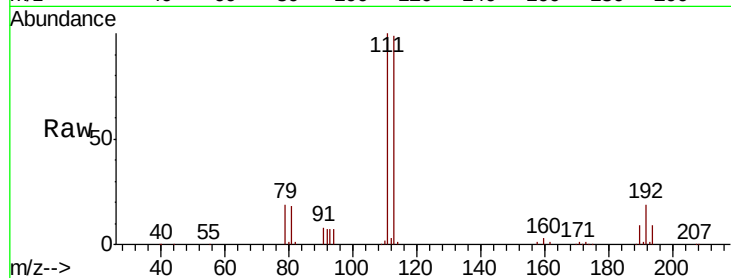




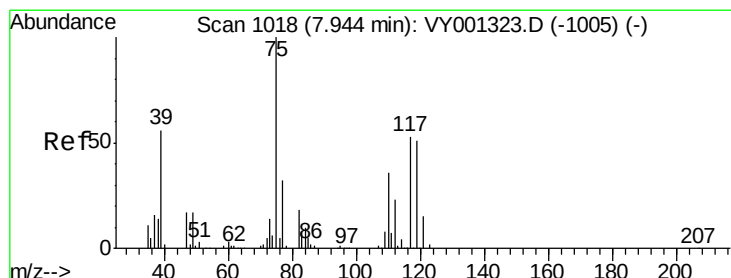
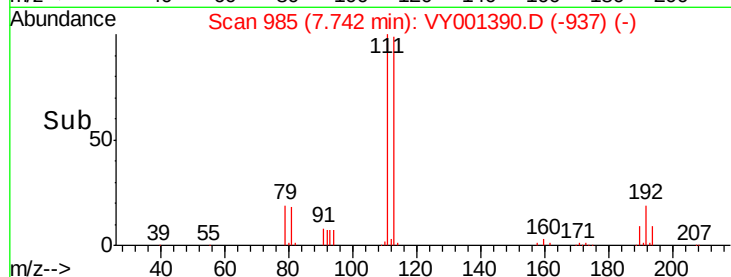
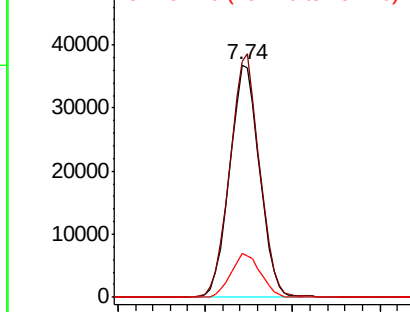
#35  
 Dibromofluoromethane  
 Concen: 50.514 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. -0.01 min  
 Lab File: VY001390.D  
 Acq: 24 Jan 2020 18:08

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:113 Resp: 87595  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 82.8 124.2  
 192 18.7 15.5 23.3

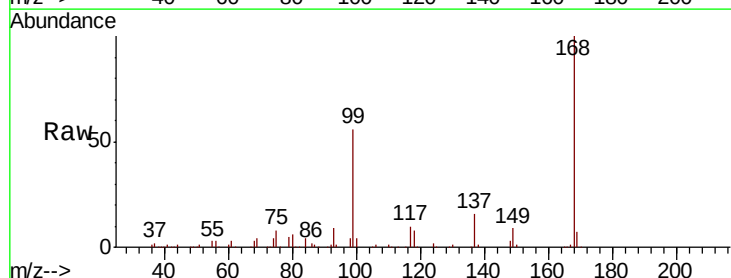


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

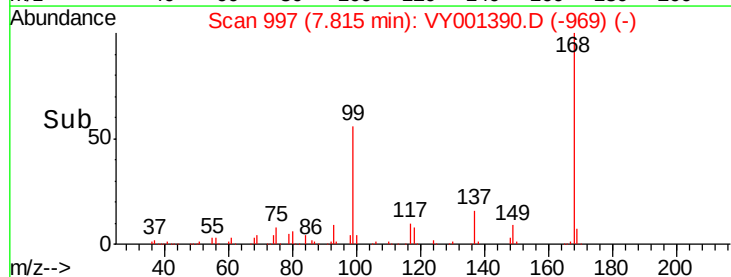
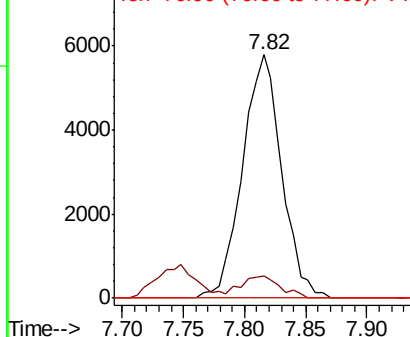


#36  
 1,1-Dichloropropene  
 Concen: 4.615 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.13 min  
 Lab File: VY001390.D  
 Acq: 24 Jan 2020 18:08

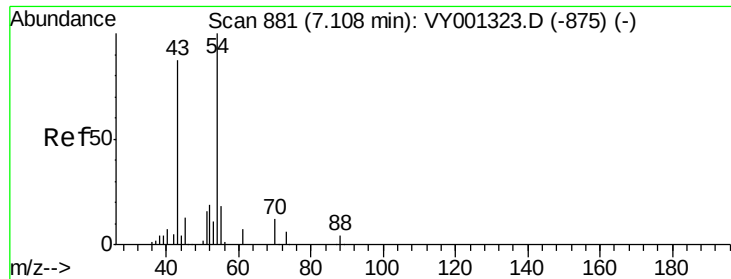
Tgt Ion: 75 Resp: 12883  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 17.6 52.8#  
 77 0.0 24.7 37.1#



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



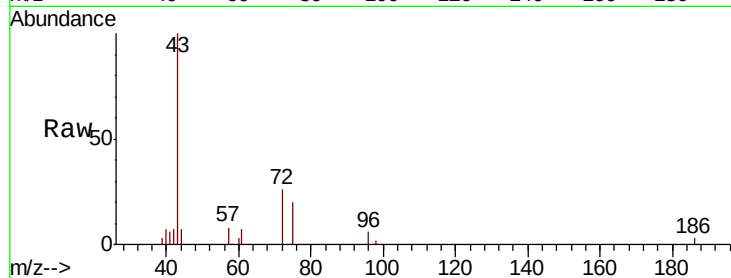




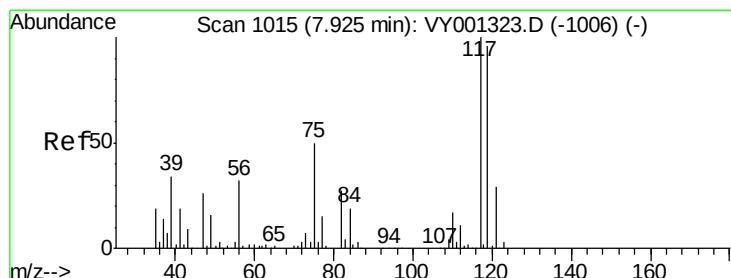
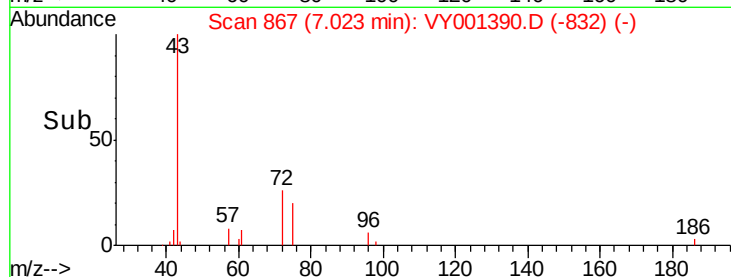
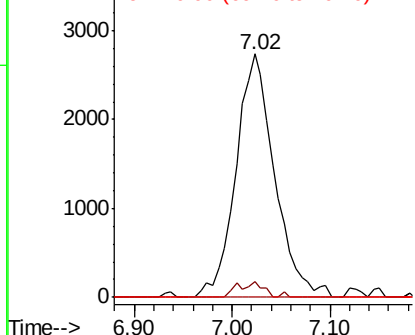
#37  
Ethyl Acetate  
Concen: 4.412 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. -0.09 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 43 Resp: 7525  
Ion Ratio Lower Upper  
43 100  
61 2.5 11.3 16.9#  
70 0.0 8.7 13.1#

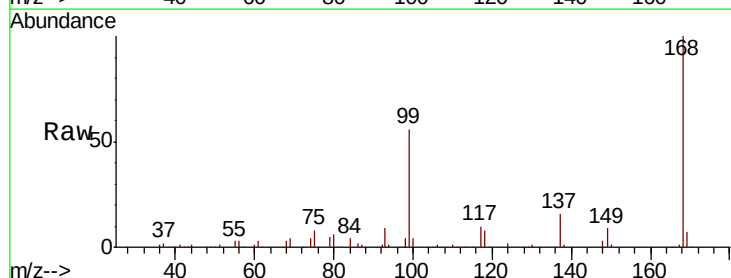


Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 70.00 (69.70 to 70.70): VY0

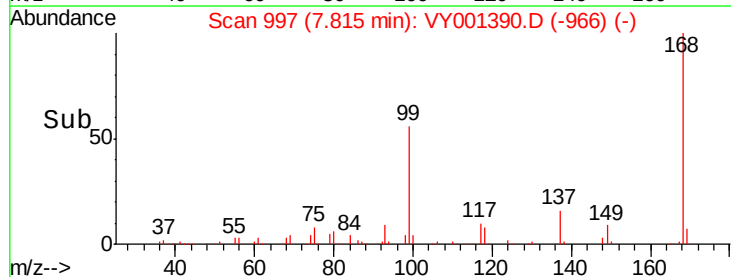
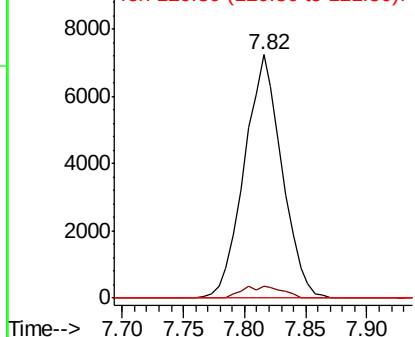


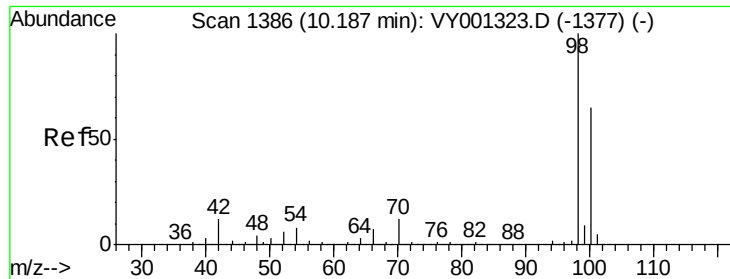
#38  
Carbon Tetrachloride  
Concen: 6.228 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. -0.11 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

Tgt Ion: 117 Resp: 15493  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.3 114.5#  
121 0.0 23.5 35.3#



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





#50

Toluene-d8

Concen: 52.286 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001390.D

Acq: 24 Jan 2020 18:08

Instrument :

MSVOA\_Y

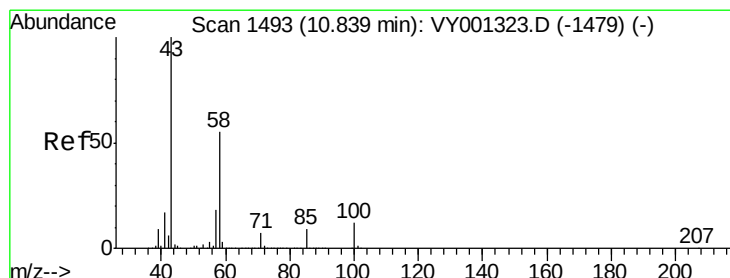
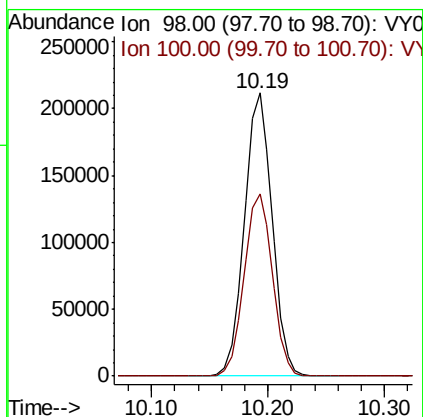
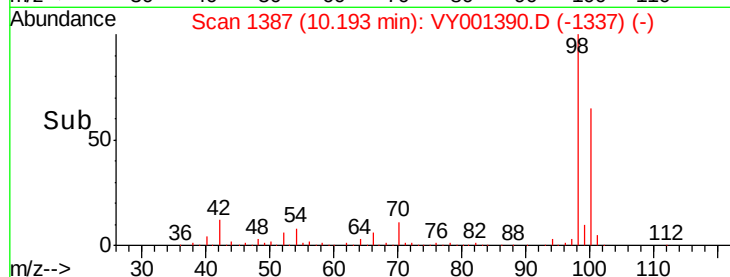
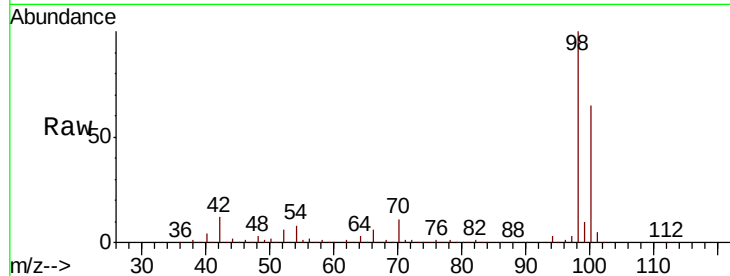
ClientSampleId :

Tot Ion: 98 Resp: 352265

Ion Ratio Lower Upper

98 100

100 65.8 52.6 79.0



#59

2-Hexanone

Concen: 1.028 ug/l

RT: 10.81 min Scan# 1488

Delta R.T. -0.03 min

Lab File: VY001390.D

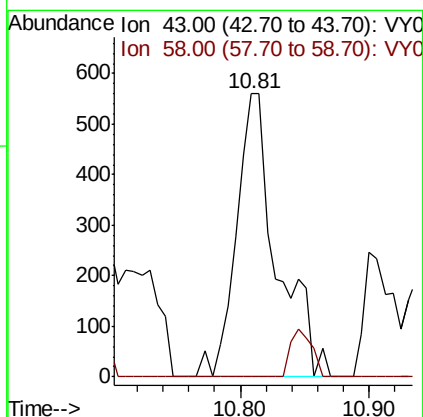
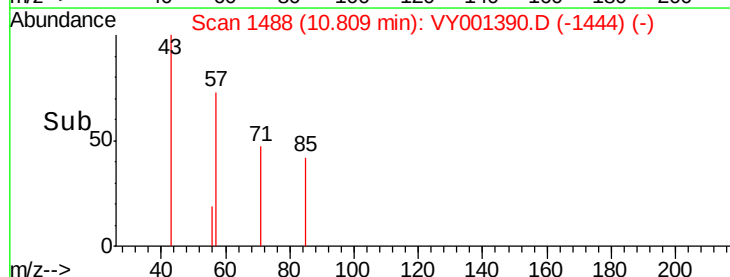
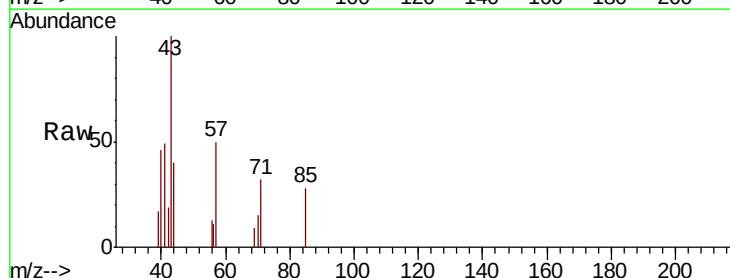
Acq: 24 Jan 2020 18:08

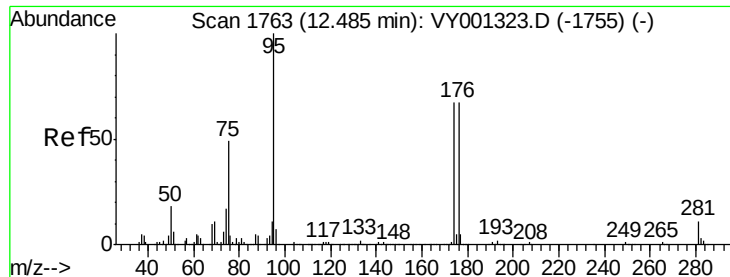
Tgt Ion: 43 Resp: 1222

Ion Ratio Lower Upper

43 100

58 0.0 27.6 82.8#

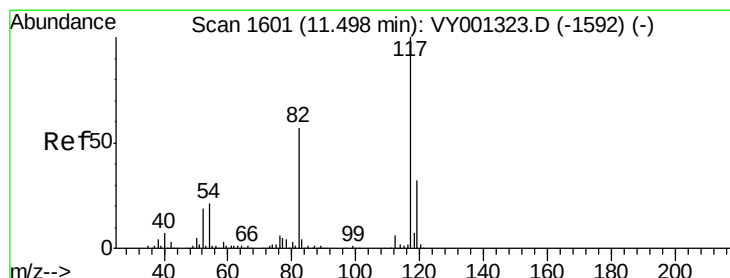
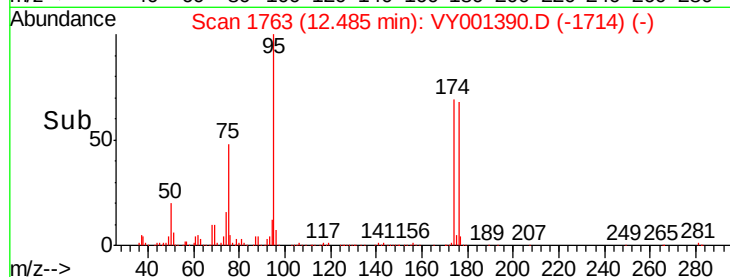
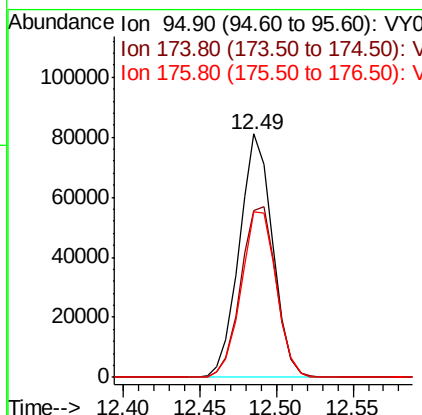
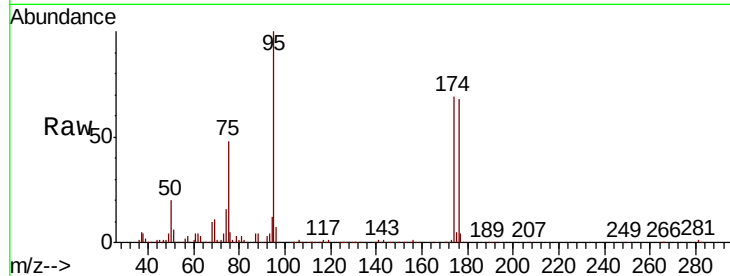




#62  
4-Bromofluorobenzene  
Concen: 45.530 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. -0.00 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

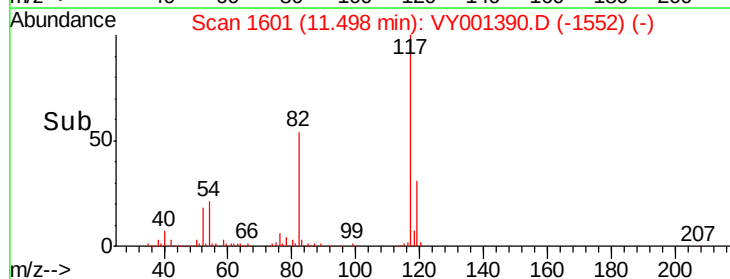
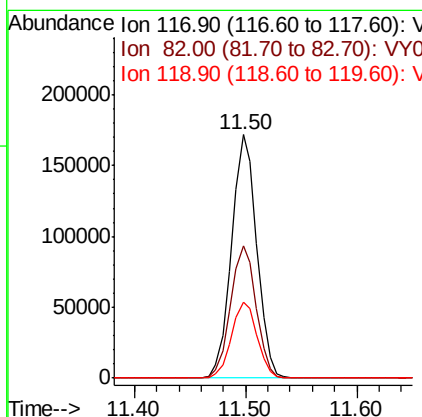
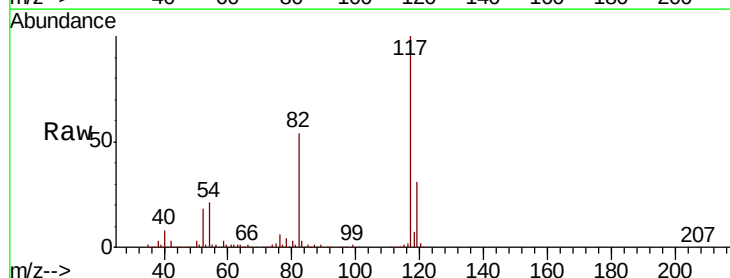
Instrument :  
MSVOA\_Y  
ClientSampleId :

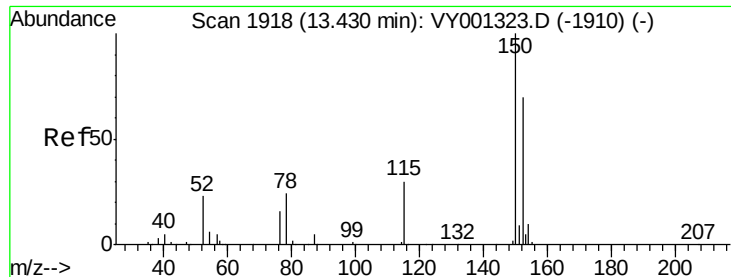
Tot Ion: 95 Resp: 122156  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.0 142.0  
176 72.0 0.0 138.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.00 min  
Lab File: VY001390.D  
Acq: 24 Jan 2020 18:08

Tgt Ion: 117 Resp: 267505  
Ion Ratio Lower Upper  
117 100  
82 54.3 45.5 68.3  
119 31.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.00 min

Lab File: VY001390.D

Acq: 24 Jan 2020 18:08

Instrument :

MSVOA\_Y

ClientSampleId :

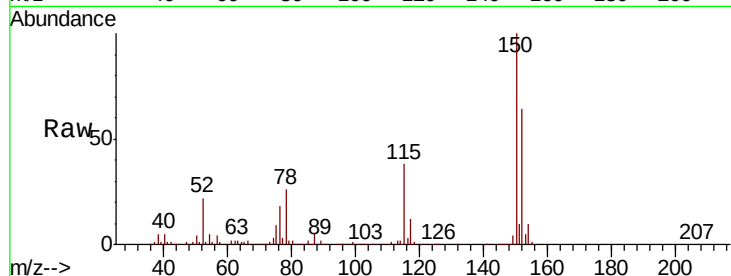
Tot Ion:152 Resp: 110226

Ion Ratio Lower Upper

152 100

115 60.9 30.9 92.8

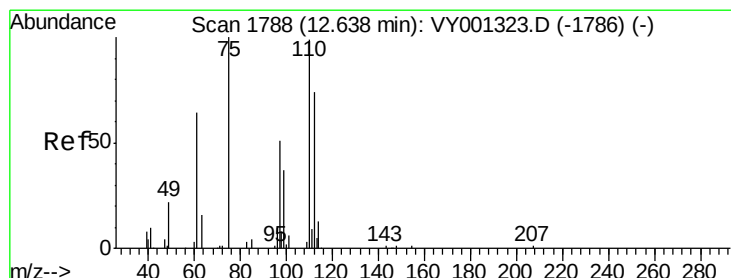
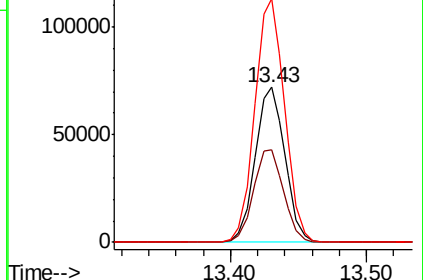
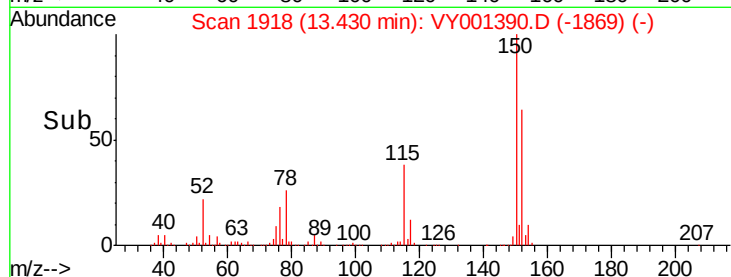
150 157.8 0.0 349.2



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: 45.720 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001390.D

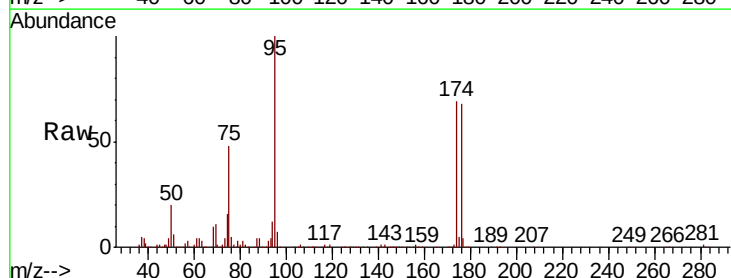
Acq: 24 Jan 2020 18:08

Tgt Ion: 75 Resp: 60727

Ion Ratio Lower Upper

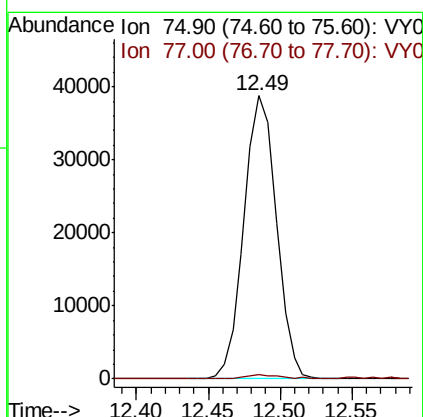
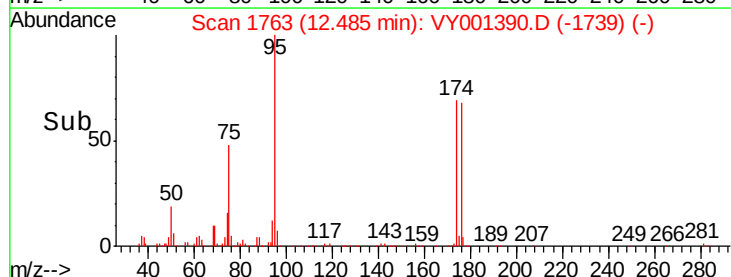
75 100

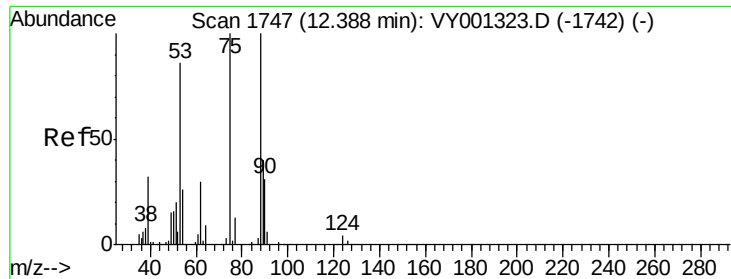
77 2.0 0.0 0.0#



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: 86.521 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001390.D

Acq: 24 Jan 2020 18:08

Instrument :

MSVOA\_Y

ClientSampled :

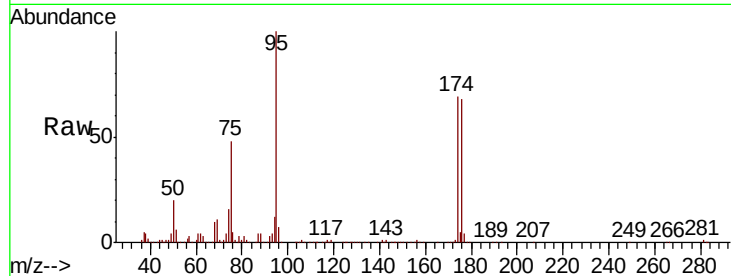
Tot Ion: 75 Resp: 60727

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

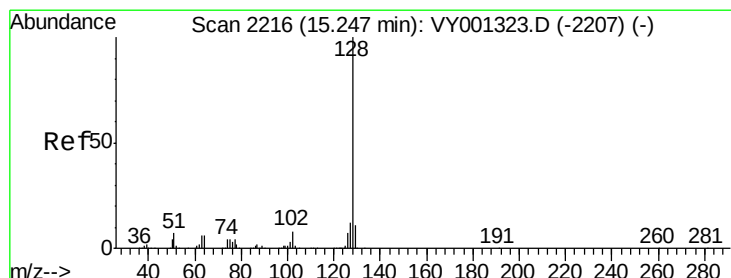
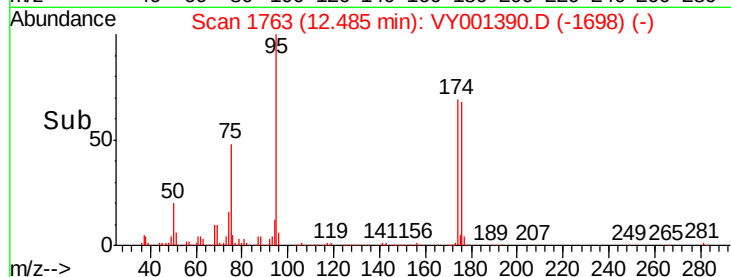
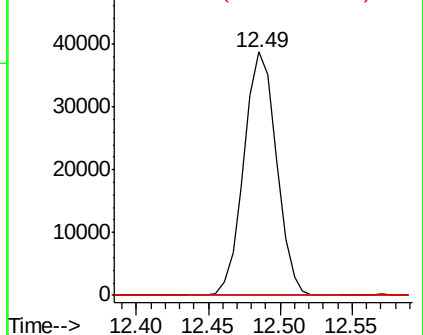
89 0.2 36.6 54.8#



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



#95

Naphthalene

Concen: 7.148 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.01 min

Lab File: VY001390.D

Acq: 24 Jan 2020 18:08

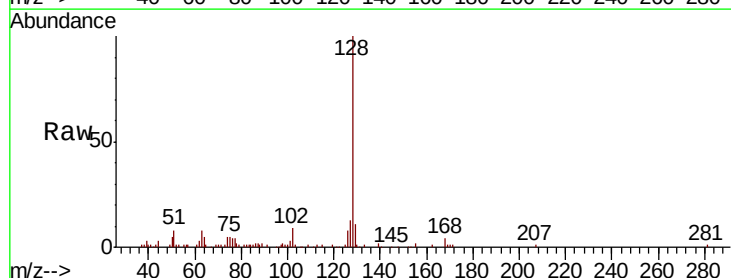
Tgt Ion: 128 Resp: 37537

Ion Ratio Lower Upper

128 100

127 14.0 10.2 15.2

129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

