

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY102319\  
 Data File : VY000382.D  
 Acq On : 23 Oct 2019 15:38  
 Operator : SY/MD  
 Sample : K5494-01RE  
 Misc : 6.56G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 24 04:45:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 17 02:03:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 224758   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 386579   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 321477   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 132918   | 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   | 129887   | 54.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.58% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 108926   | 46.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.42%  |          |
| 50) Toluene-d8              | 10.18 | 98   | 440301   | 49.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.18%  |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 138410   | 40.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.24%  |          |

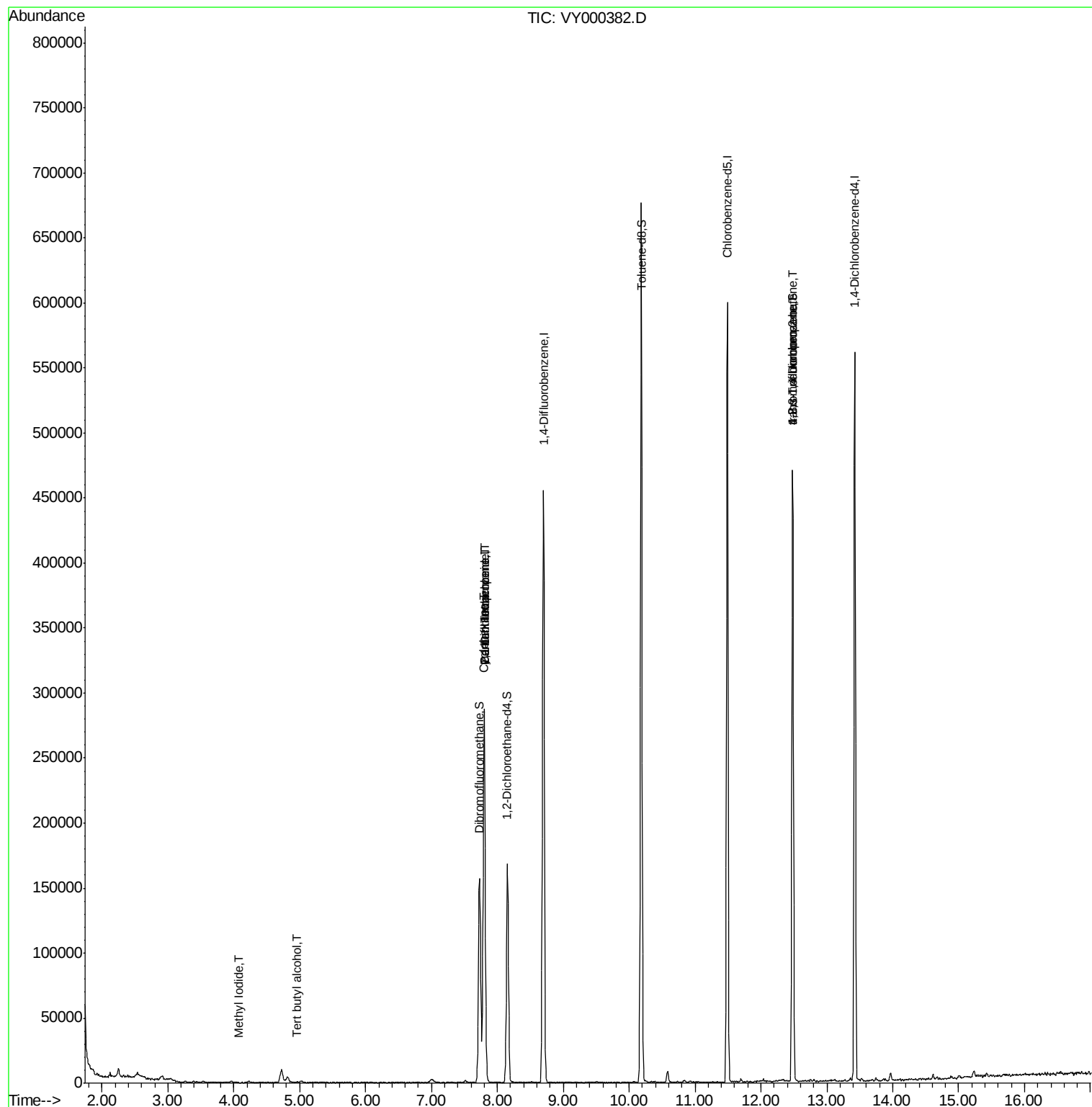
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.90  | 85   | 46       | Below Cal | #      | 41     |
| 10) Methyl Iodide              | 4.08  | 142  | 26       | 1.194     | ug/l # | 41     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 581      | 2.342     | ug/l # | 85     |
| 20) Methylene Chloride         | 4.72  | 84   | 6520     | Below Cal | #      | 90     |
| 31) Cyclohexane                | 7.79  | 56   | 5585     | 1.231     | ug/l # | 51     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 17282    | 4.566     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 21904    | 5.977     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 71462    | 43.723    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 71462    | 95.664    | ug/l # | 14     |

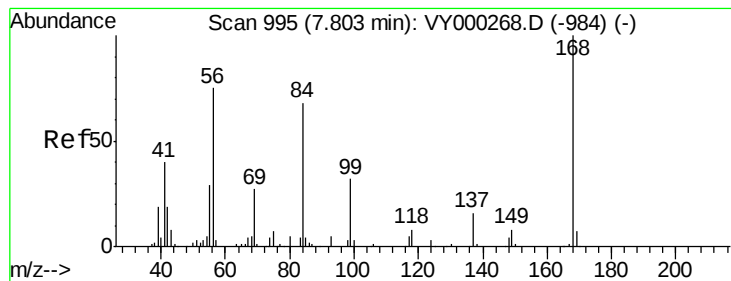
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY102319\  
Data File : VY000382.D  
Acq On : 23 Oct 2019 15:38  
Operator : SY/MD  
Sample : K5494-01RE  
Misc : 6.56G/5ML/MSVOA Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Oct 24 04:45:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 17 02:03:07 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: VY000382.D

Acq: 23 Oct 2019 15:38

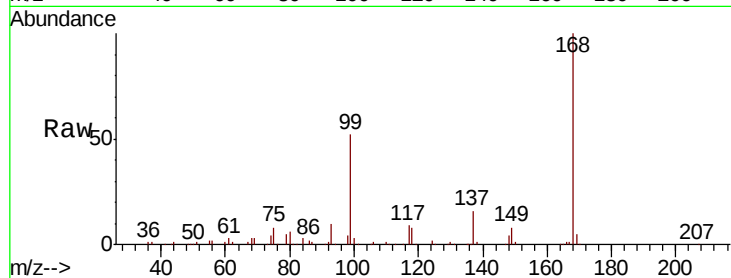
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 224758

Ion Ratio Lower Upper

168 100

99 52.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000382.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000382.D (-946) (-)

7.80

100000

80000

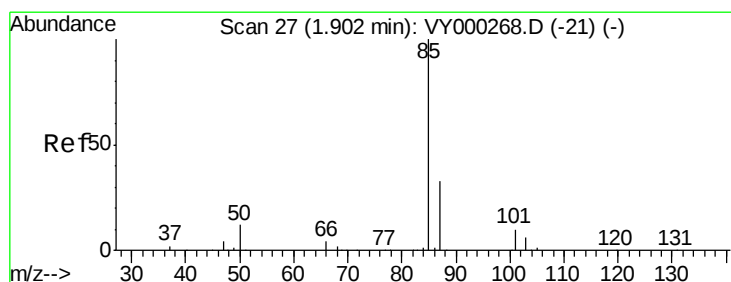
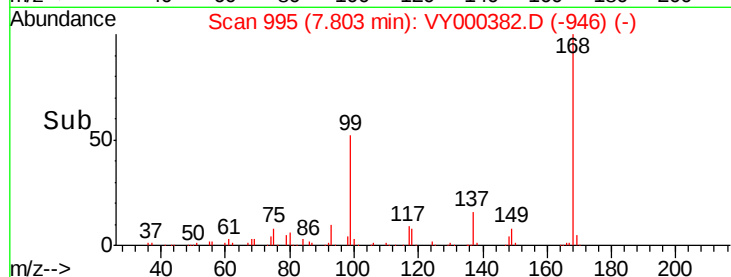
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000382.D

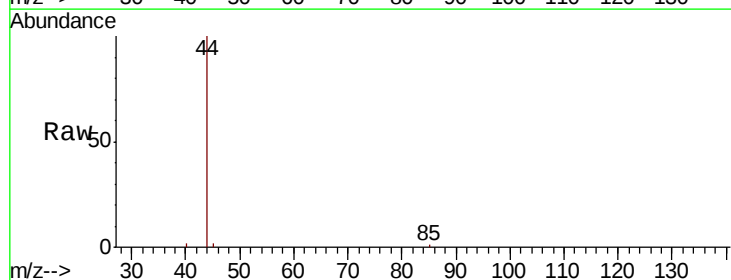
Acq: 23 Oct 2019 15:38

Tgt Ion: 85 Resp: 46

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000382.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000382.D (-1) (-)

1.90

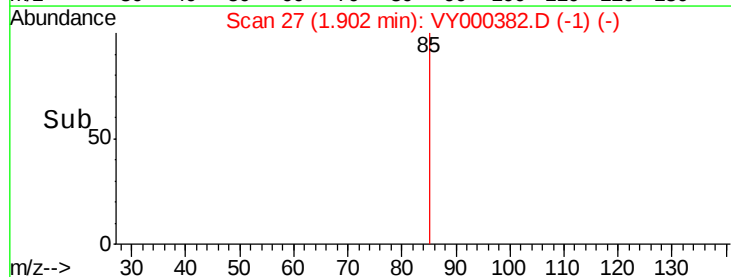
60

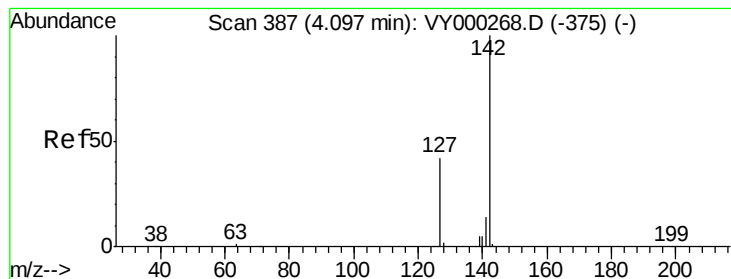
40

20

0

Time-->





#10

Methvl Iodide

Concen: 1.194 ug/l

RT: 4.08 min Scan# 384

Delta R.T. -0.02 min

Lab File: VY000382.D

Acq: 23 Oct 2019 15:38

Instrument :

MSVOA\_Y

ClientSampleId :

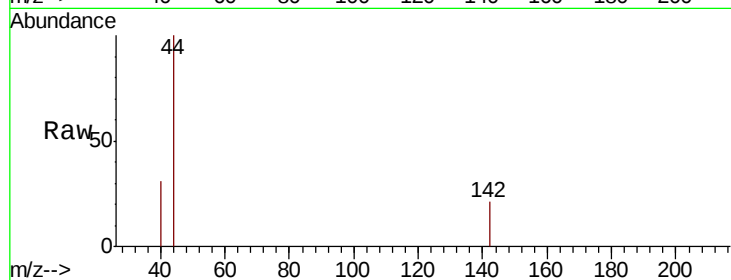
Tot Ion:142 Resp: 26

Ion Ratio Lower Upper

142 100

127 0.0 33.9 50.9#

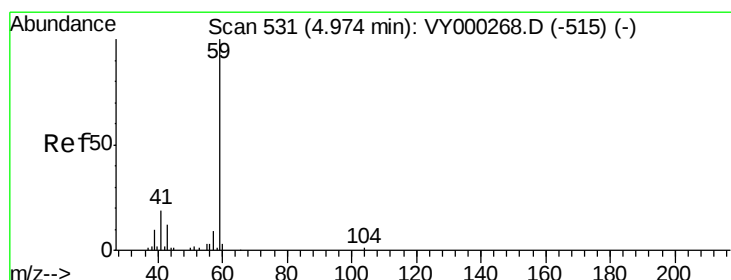
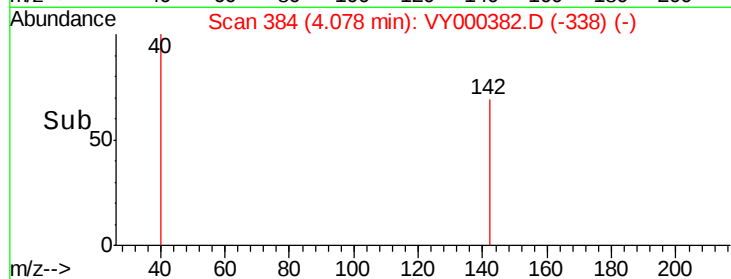
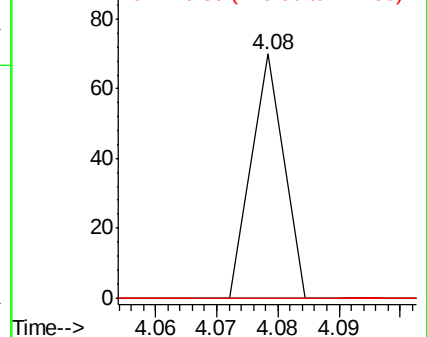
141 0.0 11.2 16.8#



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: 2.342 ug/l

RT: 4.96 min Scan# 528

Delta R.T. -0.02 min

Lab File: VY000382.D

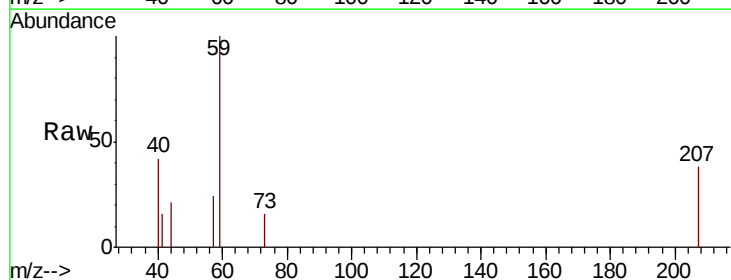
Acq: 23 Oct 2019 15:38

Tgt Ion: 59 Resp: 581

Ion Ratio Lower Upper

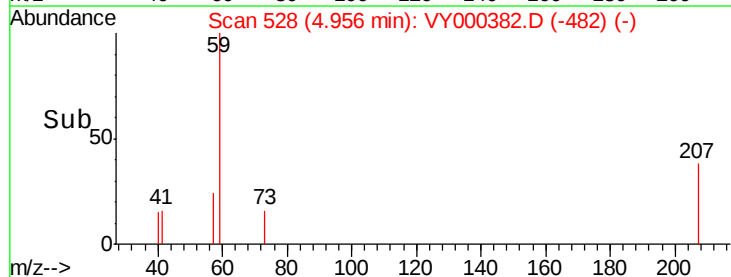
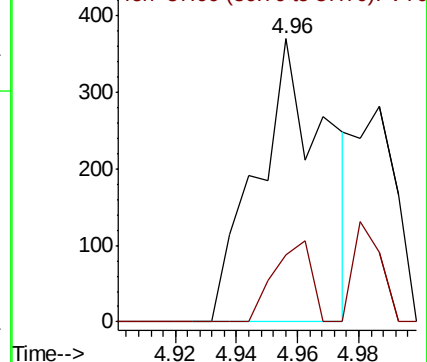
59 100

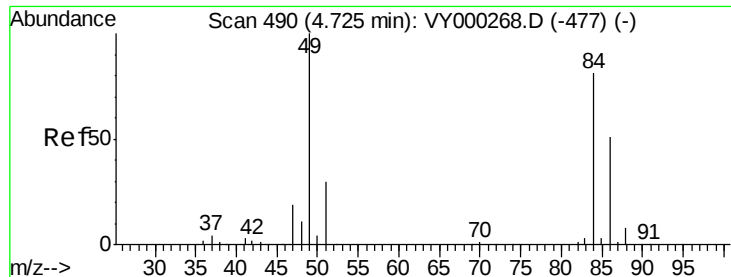
57 15.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

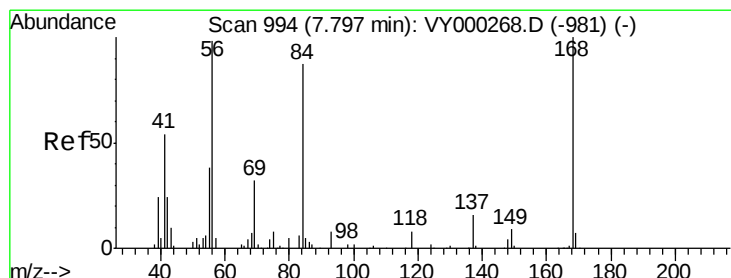
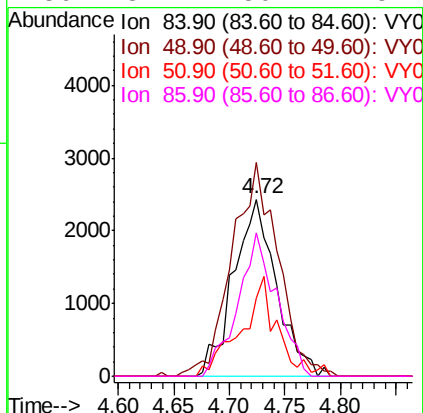
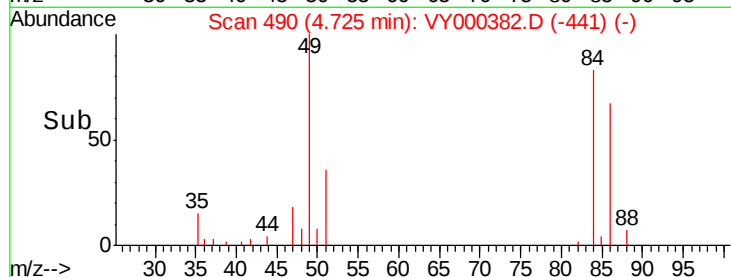
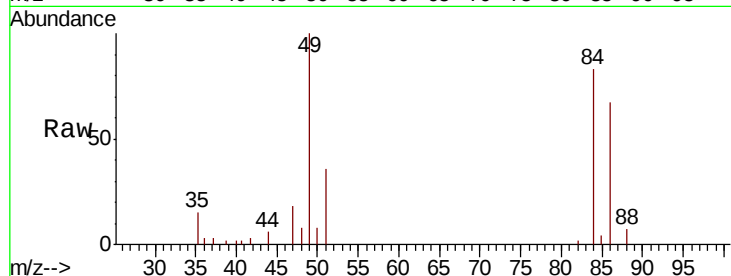




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

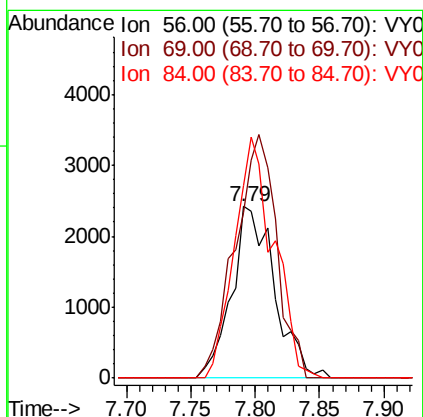
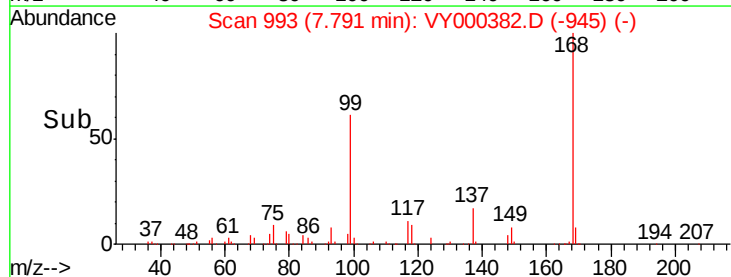
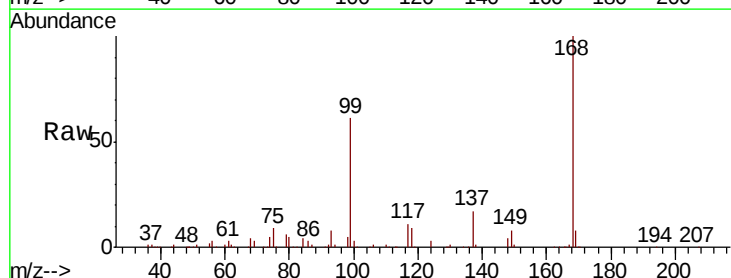
Instrument :  
MSVOA\_Y  
ClientSampleId :

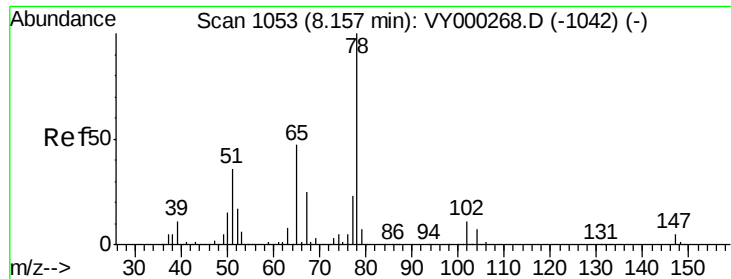
Tot Ion: 84 Resp: 6520  
Ion Ratio Lower Upper  
84 100  
49 120.8 99.0 148.4  
51 44.0 29.3 43.9#  
86 81.1 50.2 75.4#



#31  
Cyclohexane  
Concen: 1.231 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. -0.01 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

Tgt Ion: 56 Resp: 5585  
Ion Ratio Lower Upper  
56 100  
69 96.1 26.3 39.5#  
84 112.0 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 54.785 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000382.D

Acq: 23 Oct 2019 15:38

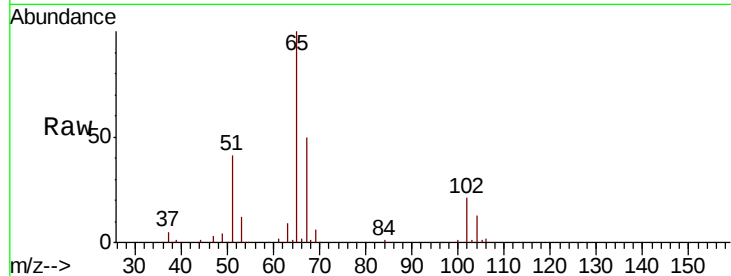
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 65 Resp: 129887

Ion Ratio Lower Upper

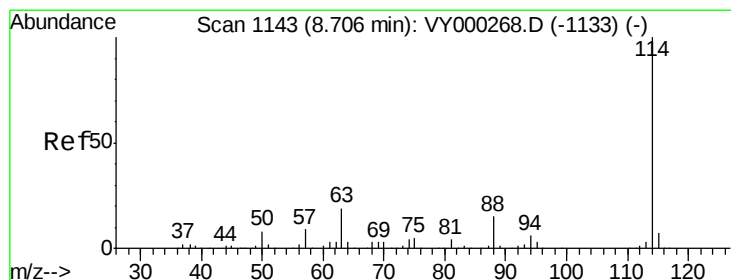
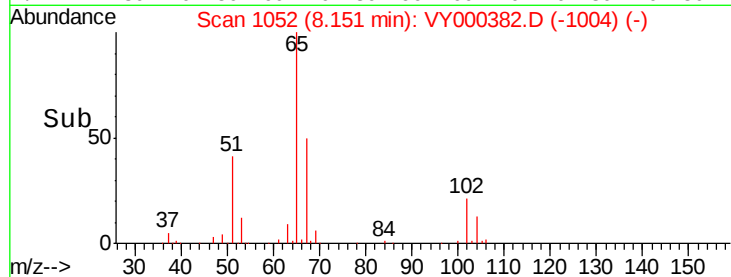
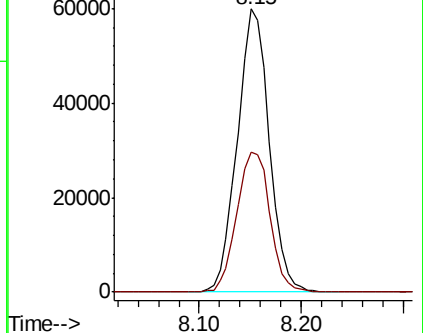
65 100

67 51.5 0.0 109.4



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. -0.01 min

Lab File: VY000382.D

Acq: 23 Oct 2019 15:38

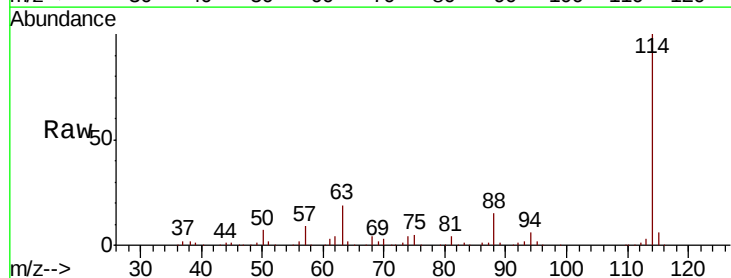
Tgt Ion: 114 Resp: 386579

Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.2

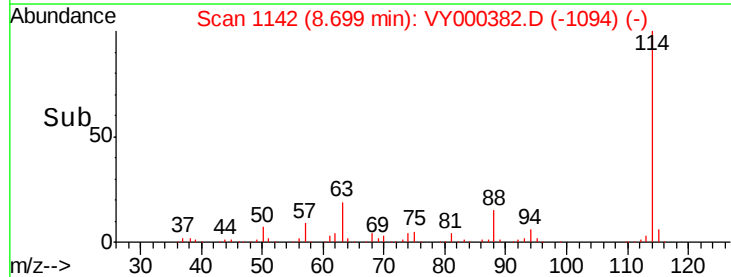
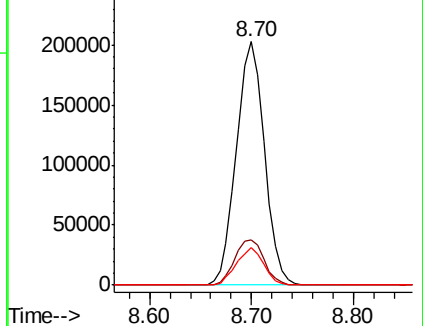
88 15.2 0.0 30.2

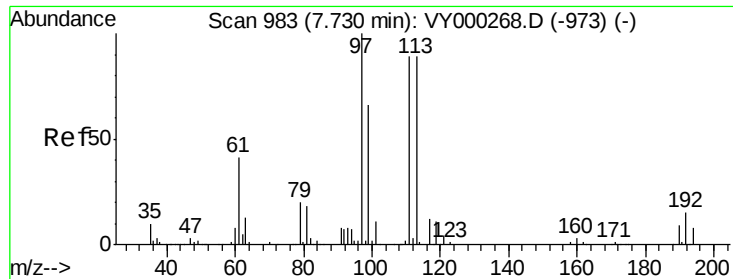


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

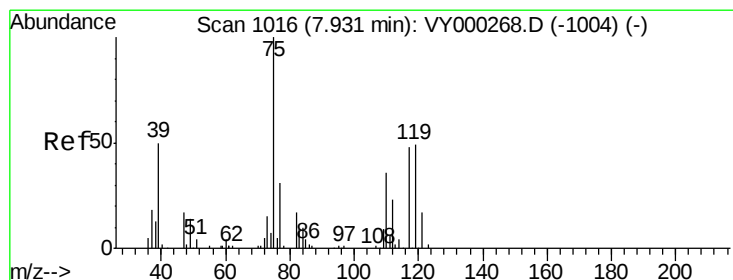
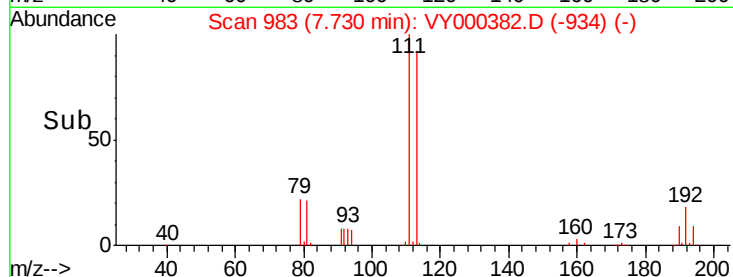
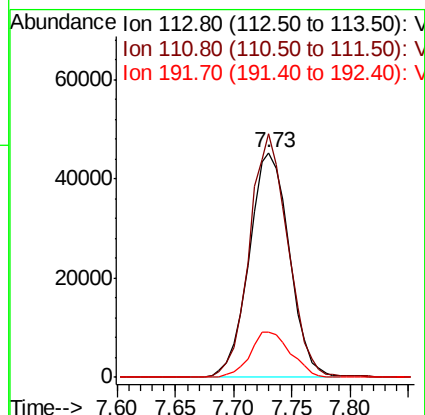
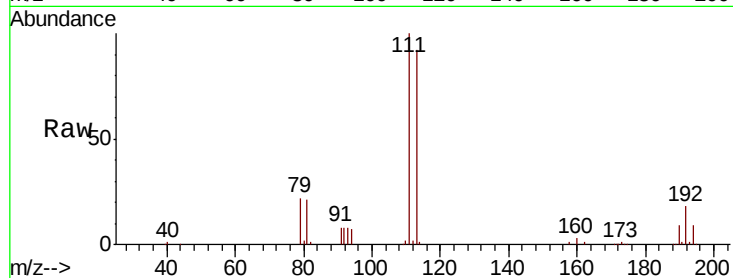




#35  
 Dibromofluoromethane  
 Concen: 46.712 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. 0.00 min  
 Lab File: VY000382.D  
 Acq: 23 Oct 2019 15:38

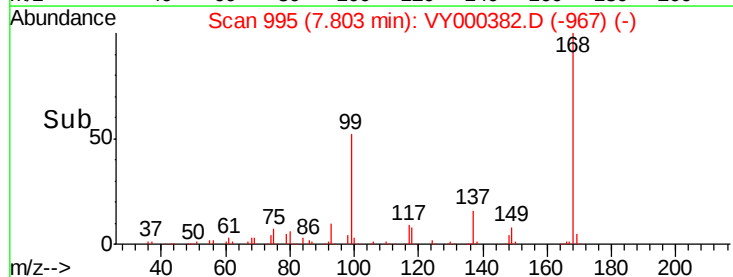
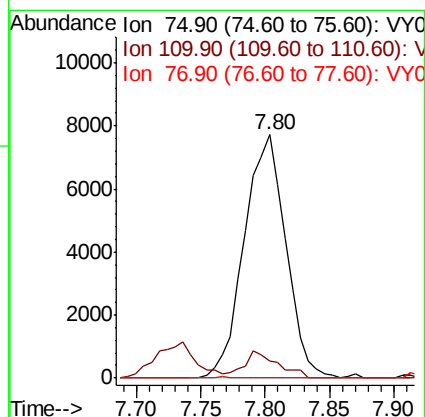
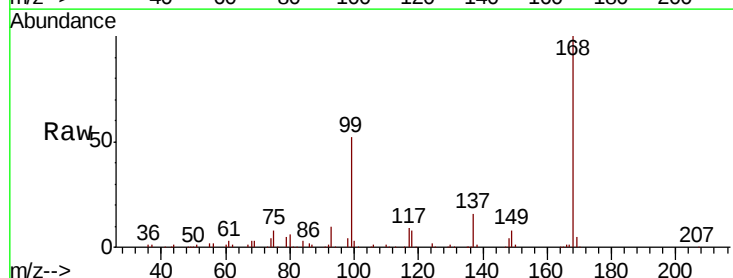
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

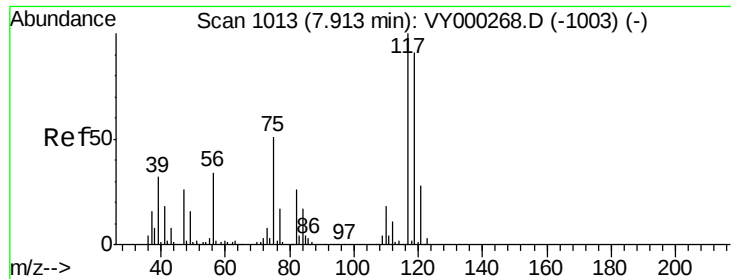
Tot Ion:113 Resp: 108926  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 81.6 122.4  
 192 20.1 15.3 22.9



#36  
 1,1-Dichloropropene  
 Concen: 4.566 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.13 min  
 Lab File: VY000382.D  
 Acq: 23 Oct 2019 15:38

Tgt Ion: 75 Resp: 17282  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 18.4 55.4#  
 77 0.0 25.0 37.6#

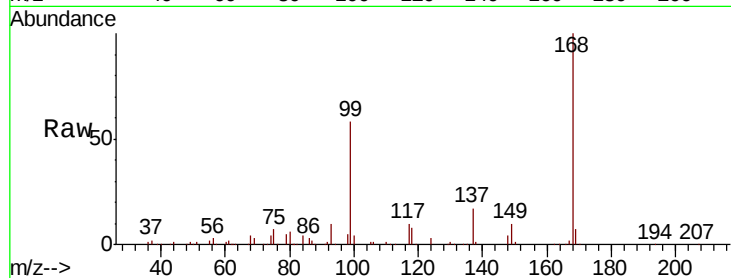




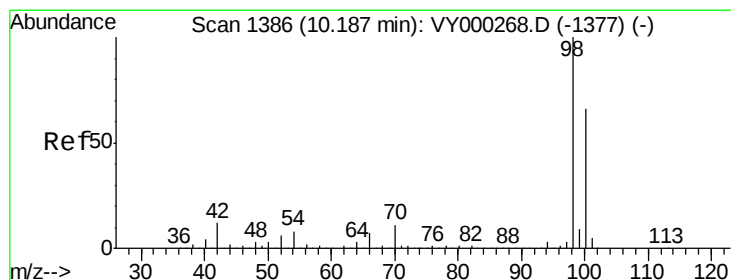
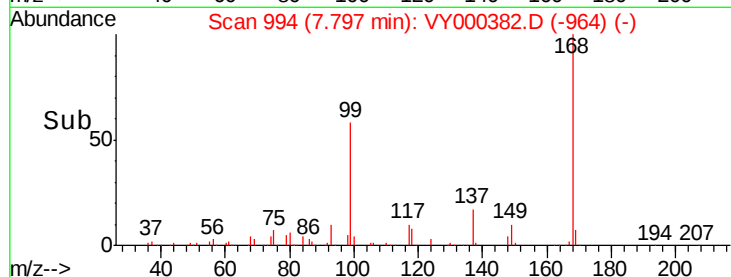
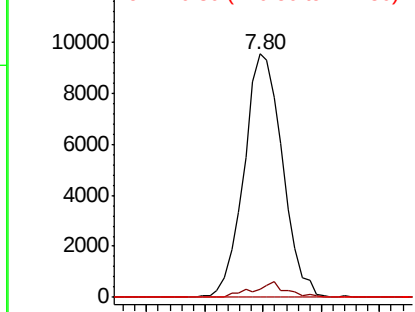
#38  
Carbon Tetrachloride  
Concen: 5.977 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.12 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:117 Resp: 21904  
Ion Ratio Lower Upper  
117 100  
119 3.4 72.8 109.2#  
121 0.0 22.2 33.2#

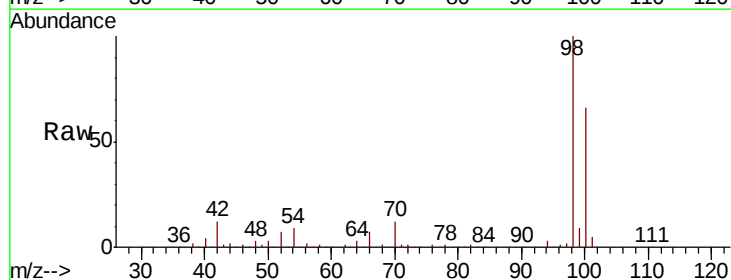


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

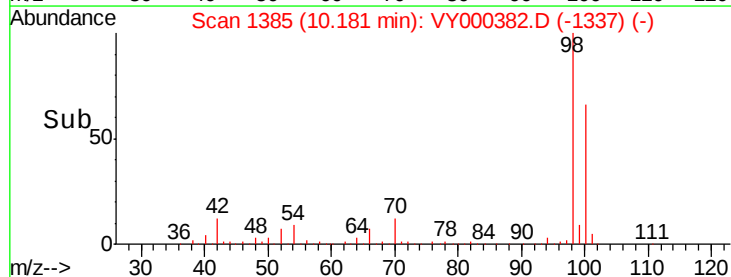
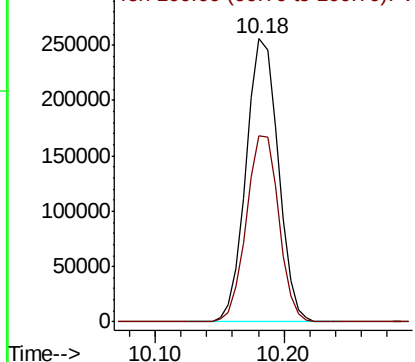


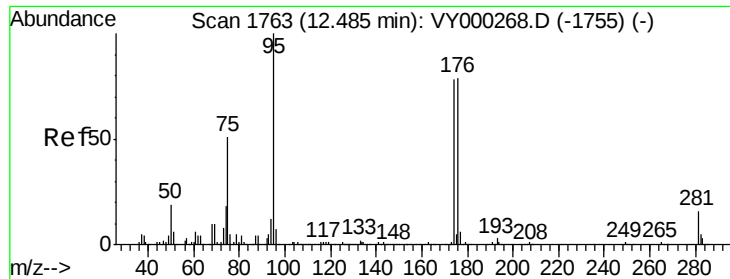
#50  
Toluene-d8  
Concen: 49.085 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.01 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

Tgt Ion: 98 Resp: 440301  
Ion Ratio Lower Upper  
98 100  
100 66.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY

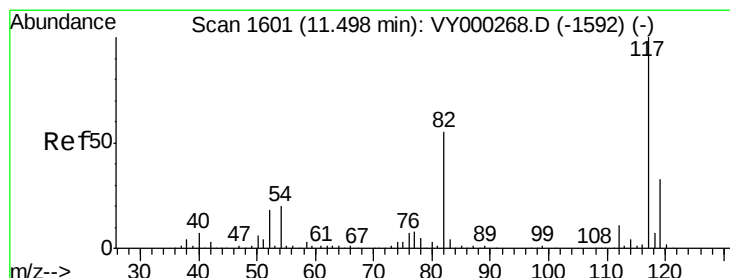
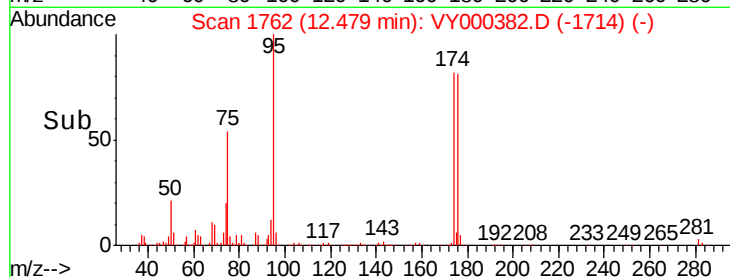
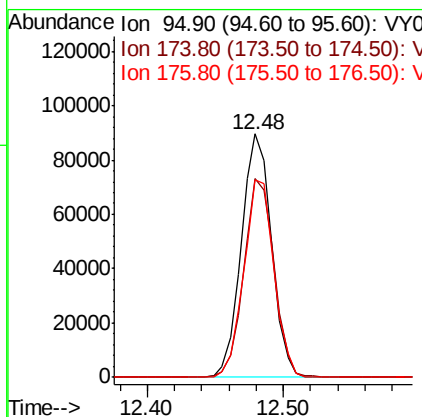
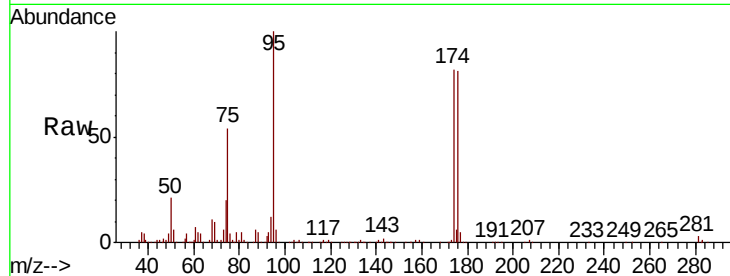




#62  
4-Bromofluorobenzene  
Concen: 40.615 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.01 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

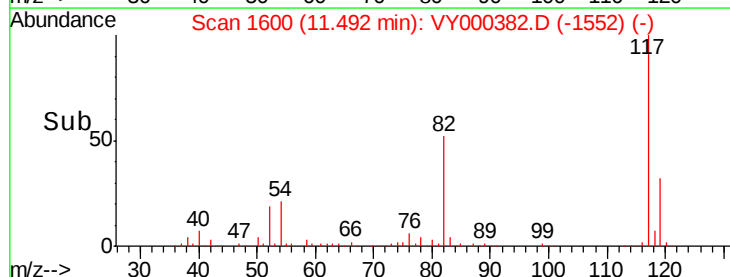
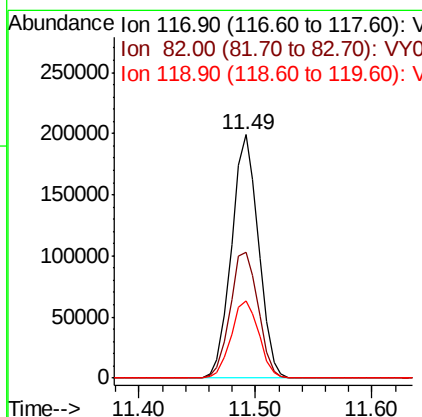
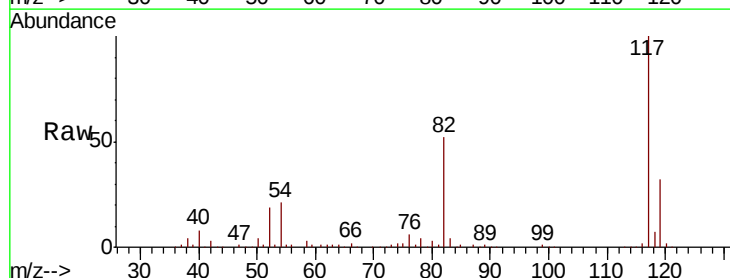
Instrument :  
MSVOA\_Y  
ClientSampled :

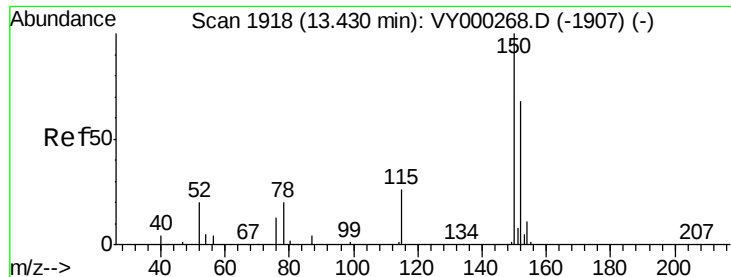
Tot Ion: 95 Resp: 138410  
Ion Ratio Lower Upper  
95 100  
174 82.3 0.0 159.6  
176 81.6 0.0 153.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

Tgt Ion: 117 Resp: 321477  
Ion Ratio Lower Upper  
117 100  
82 51.7 43.7 65.5  
119 31.8 26.6 39.8



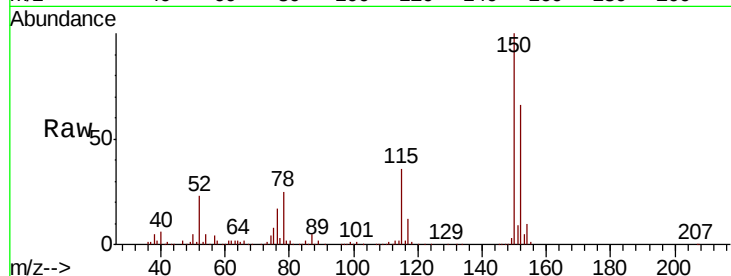


#72

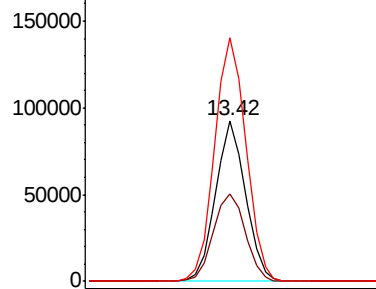
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.01 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

Instrument :  
MSVOA\_Y  
ClientSampleId :

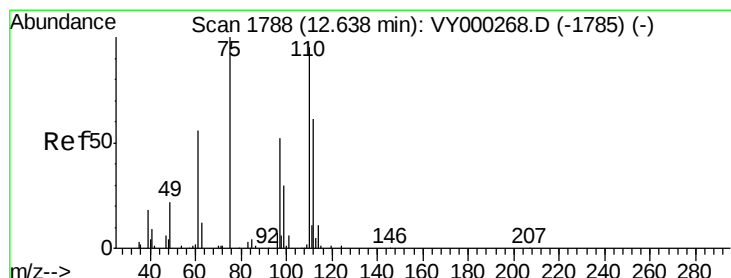
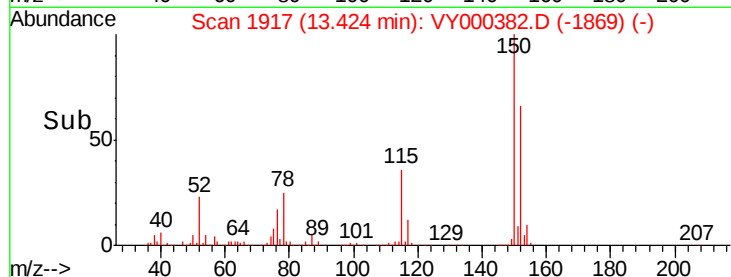
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.3  | 29.3  | 88.0  |
| 150     | 158.3 | 0.0   | 348.4 |



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



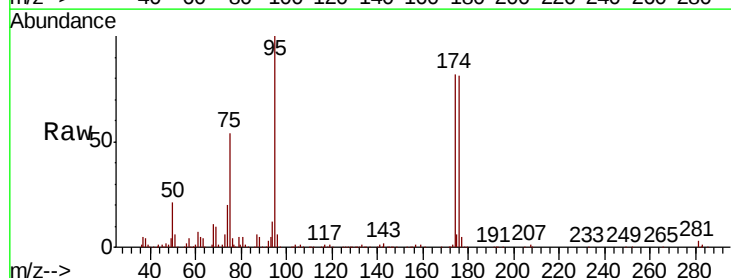
Time-->



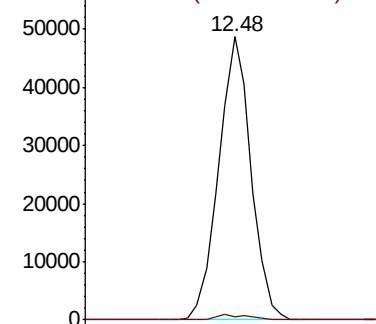
#76

1,2,3-Trichloropropane  
Concen: 43.723 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.16 min  
Lab File: VY000382.D  
Acq: 23 Oct 2019 15:38

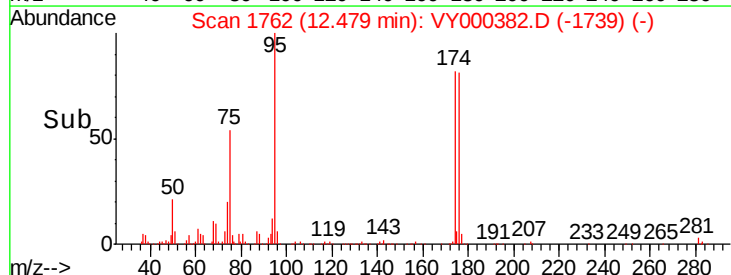
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 2.1   | 0.0   | 0.0#  |

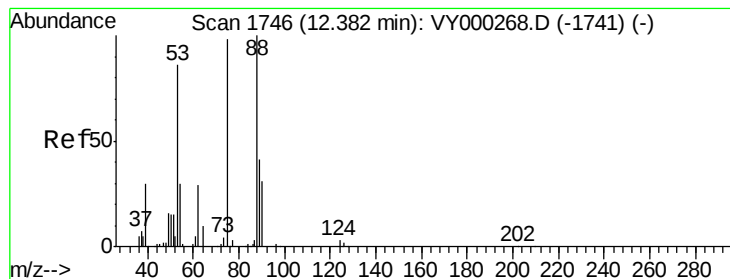


Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 77.00 (76.70 to 77.70): VY0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 95.664 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000382.D

Acq: 23 Oct 2019 15:38

Instrument :

MSVOA\_Y

ClientSampleId :

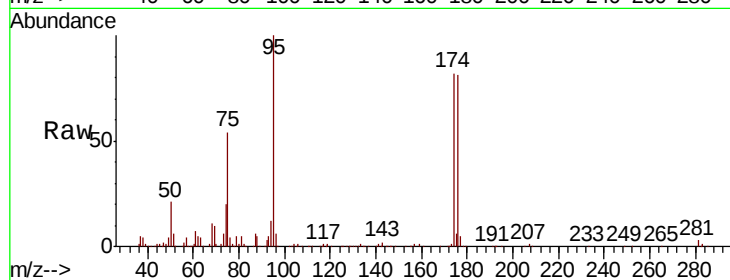
Tot Ion: 75 Resp: 71462

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 35.1 52.7#



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

