

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101419\  
 Data File : VY000301.D  
 Acq On : 14 Oct 2019 15:59  
 Operator : SY/MD  
 Sample : K5325-03  
 Misc : 9.43g/5.00ML/MSVOA Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 15 01:15:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 14 08:10:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 223763   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 426156   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 370431   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 157960   | 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   | 147574   | 62.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 125.04% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 127921   | 49.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.52%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 501408   | 50.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.42% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 168604   | 44.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.76%  |          |

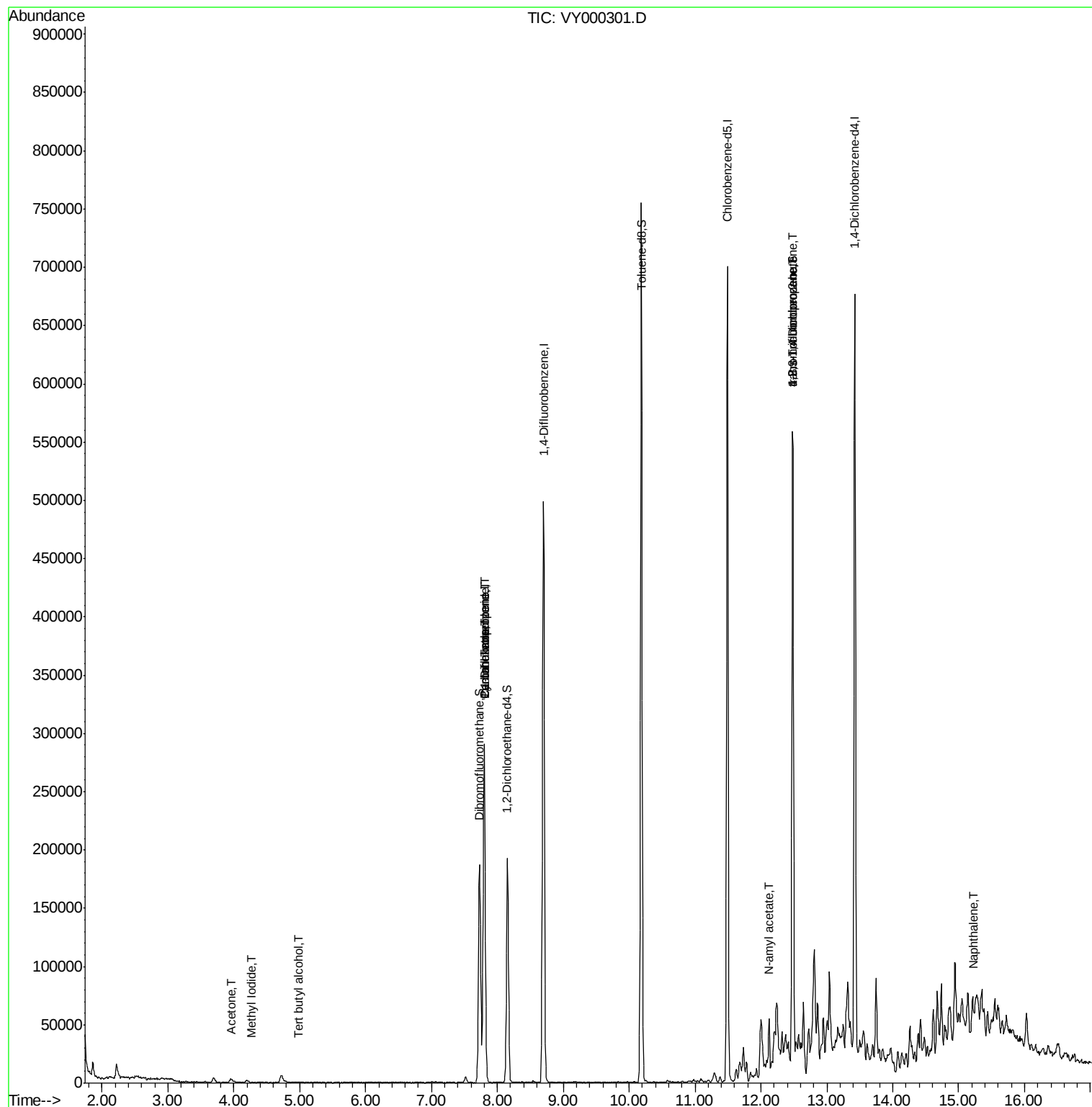
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.91  | 85   | 110      | Below Cal | #      | 41     |
| 10) Methyl Iodide              | 4.27  | 142  | 19       | 1.192     | ug/l # | 41     |
| 11) Tert butyl alcohol         | 4.99  | 59   | 354      | 1.433     | ug/l # | 73     |
| 16) Acetone                    | 3.96  | 43   | 6356     | 8.315     | ug/l   | 100    |
| 20) Methylene Chloride         | 4.71  | 84   | 2406     | Below Cal | #      | 90     |
| 31) Cyclohexane                | 7.81  | 56   | 5254     | 1.163     | ug/l # | 33     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 16645    | 3.989     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 21736    | 5.380     | ug/l # | 18     |
| 74) N-amyl acetate             | 12.13 | 43   | 9609     | 3.178     | ug/l # | 62     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 88194    | 45.405    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 88194    | 99.345    | ug/l # | 14     |
| 95) Naphthalene                | 15.23 | 128  | 9553     | 1.258     | ug/l # | 93     |

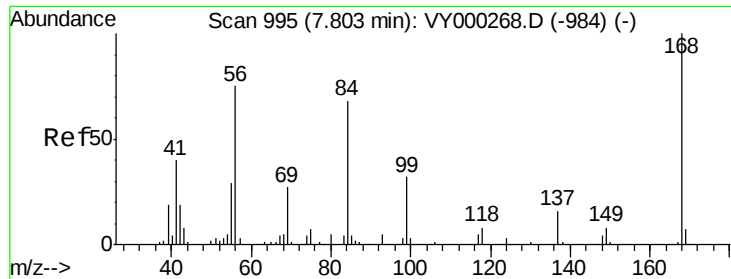
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
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Quant Title : SW846 8260  
QLast Update : Mon Oct 14 08:10:23 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: VY000301.D

Acq: 14 Oct 2019 15:59

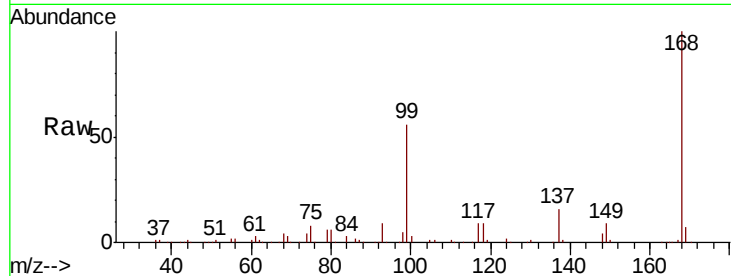
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:168 Resp: 223763

Ion Ratio Lower Upper

168 100

99 56.3 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000301.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000301.D (-946) (-)

7.80

100000

80000

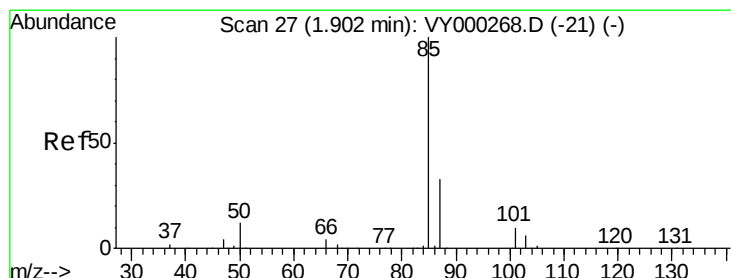
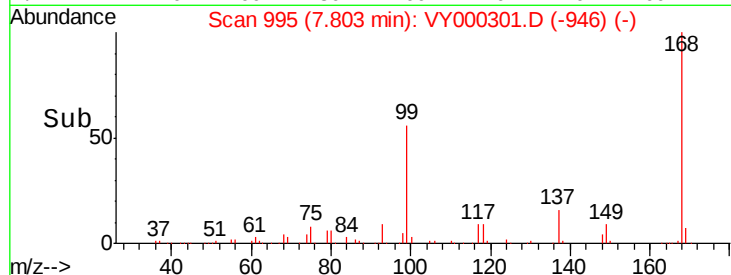
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY000301.D

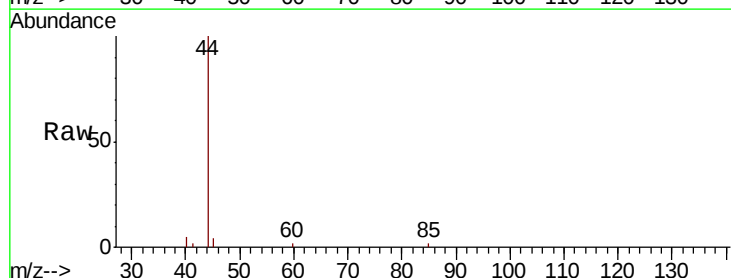
Acq: 14 Oct 2019 15:59

Tgt Ion: 85 Resp: 110

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000301.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000301.D (-1) (-)

1.91

100

80

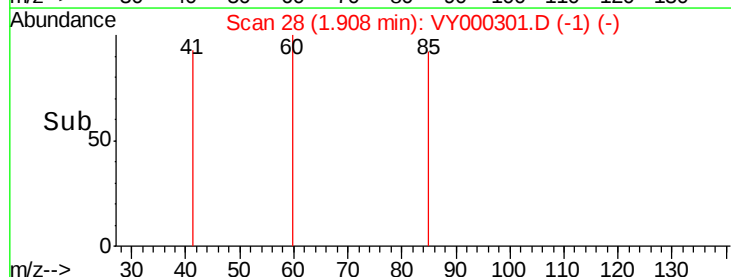
60

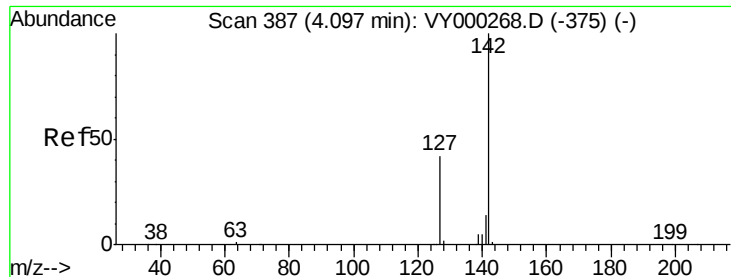
40

20

0

Time-->

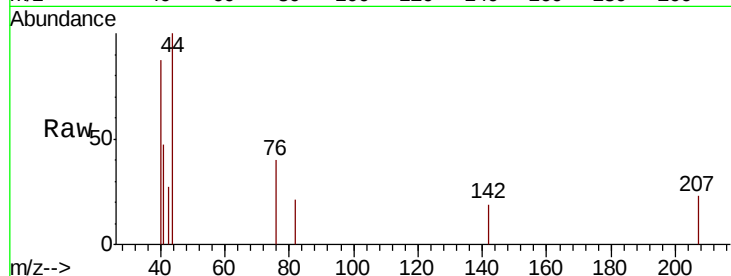




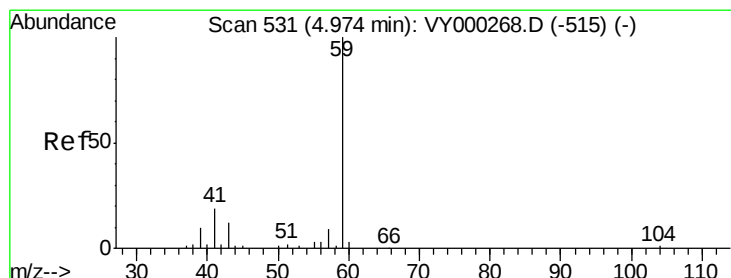
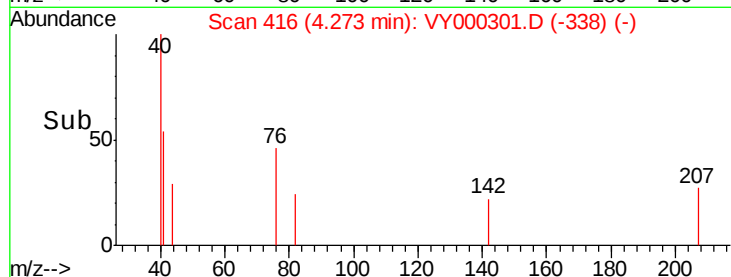
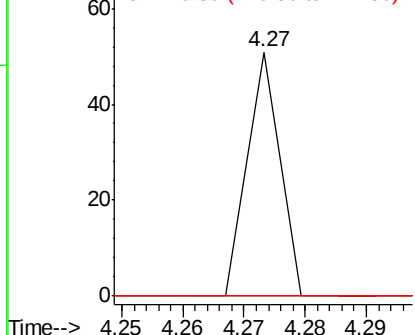
#10  
Methyl Iodide  
Concen: 1.192 ug/l  
RT: 4.27 min Scan# 416  
Delta R.T. 0.18 min  
Lab File: VY000301.D  
Acq: 14 Oct 2019 15:59

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:142 Resp: 19  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.9 50.9#  
141 0.0 11.2 16.8#

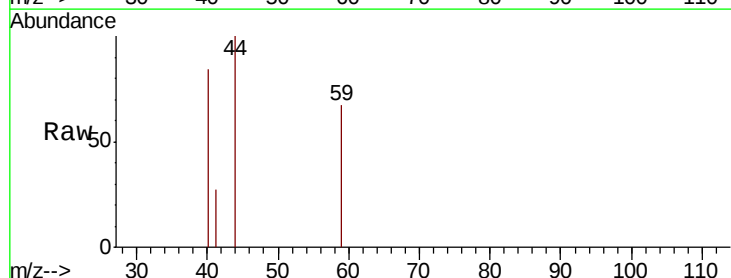


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

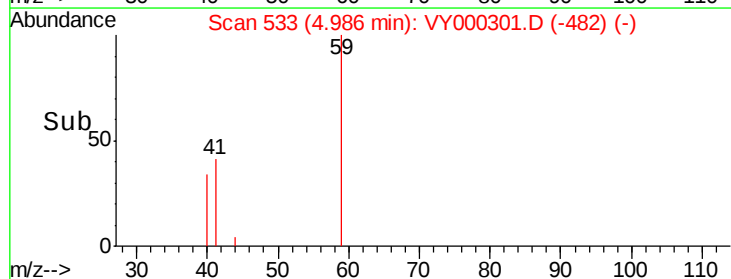
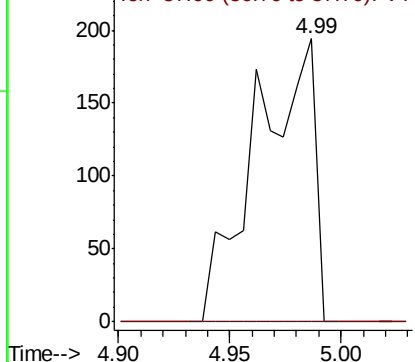


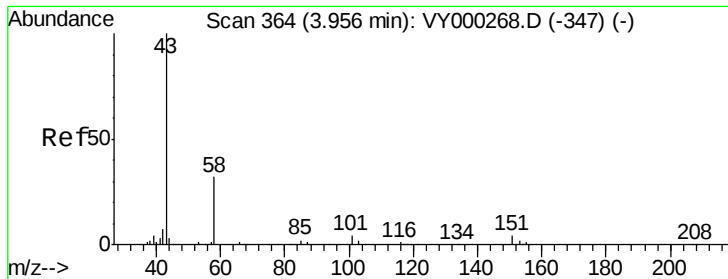
#11  
Tert butyl alcohol  
Concen: 1.433 ug/l  
RT: 4.99 min Scan# 533  
Delta R.T. 0.01 min  
Lab File: VY000301.D  
Acq: 14 Oct 2019 15:59

Tgt Ion: 59 Resp: 354  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#



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





#16

Acetone

Concen: 8.315 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000301.D

Acq: 14 Oct 2019 15:59

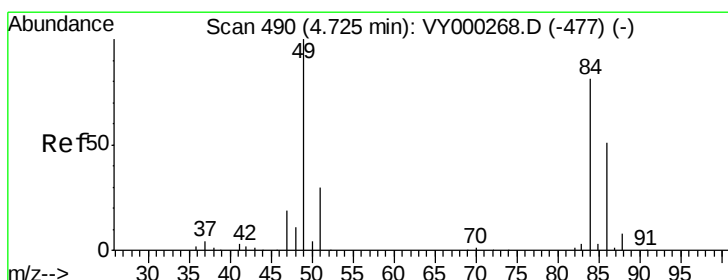
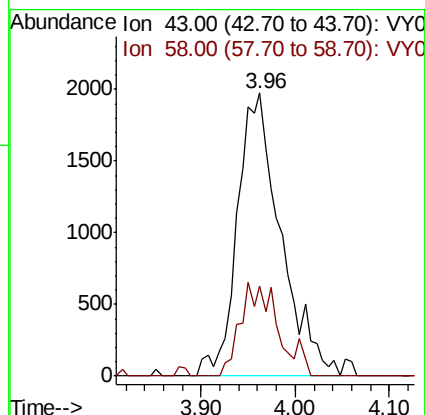
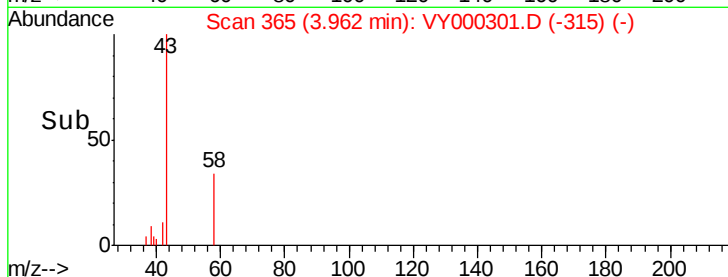
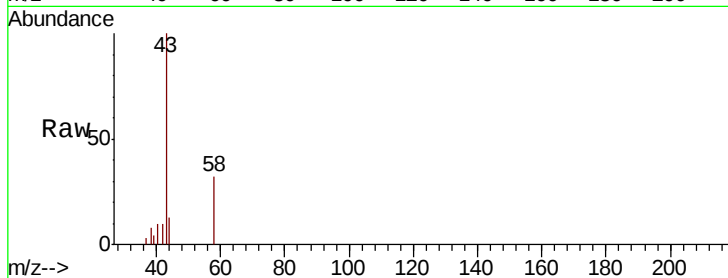
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 43 Resp: 6356

Ion Ratio Lower Upper

43 100

58 32.0 25.8 38.6



#20

Methylene Chloride

Concen: Below Cal

RT: 4.71 min Scan# 488

Delta R.T. -0.01 min

Lab File: VY000301.D

Acq: 14 Oct 2019 15:59

Tgt Ion: 84 Resp: 2406

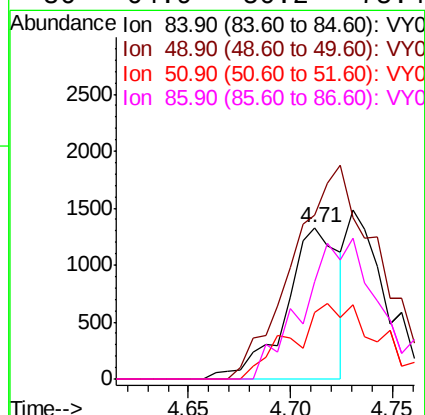
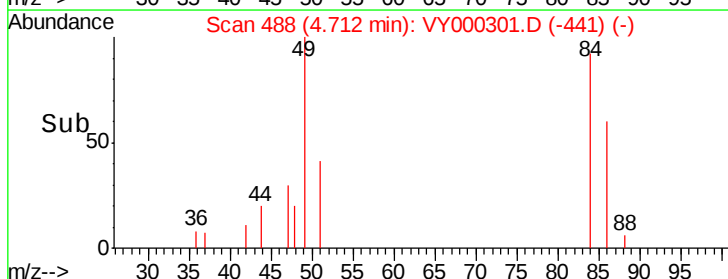
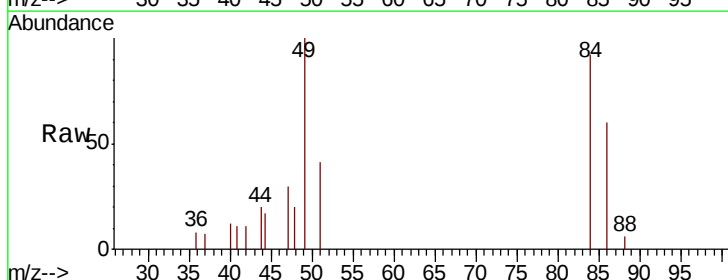
Ion Ratio Lower Upper

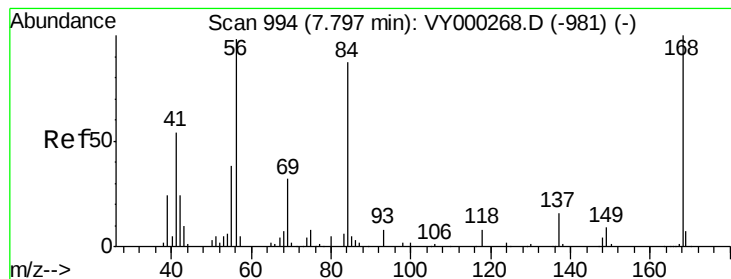
84 100

49 108.4 99.0 148.4

51 44.2 29.3 43.9#

86 64.9 50.2 75.4





#31

Cyclohexane

Concen: 1.163 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.01 min

Lab File: VY000301.D

Acq: 14 Oct 2019 15:59

Instrument :

MSVOA\_Y

ClientSampleId :

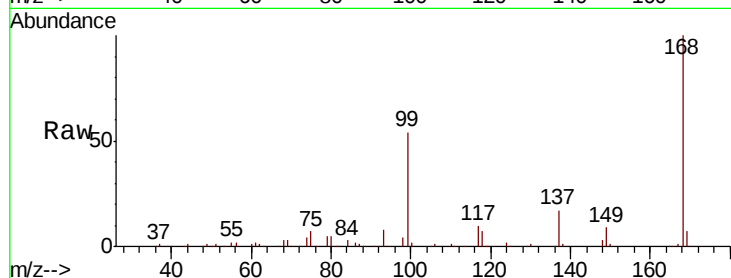
Tot Ion: 56 Resp: 5254

Ion Ratio Lower Upper

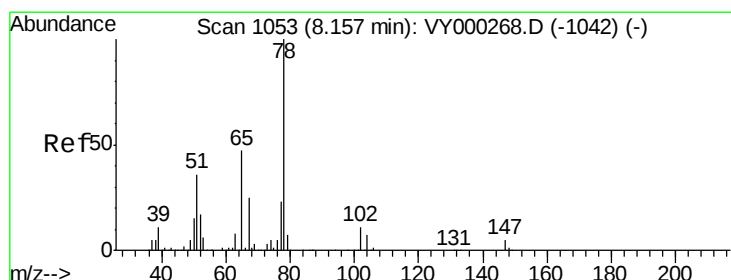
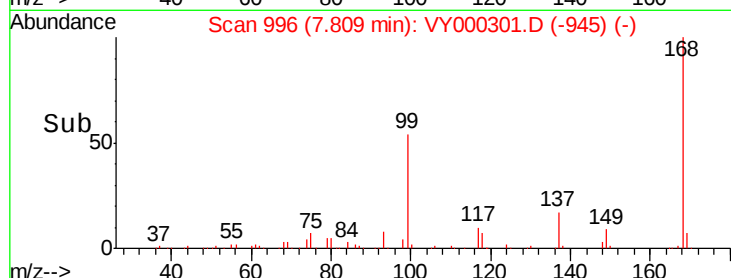
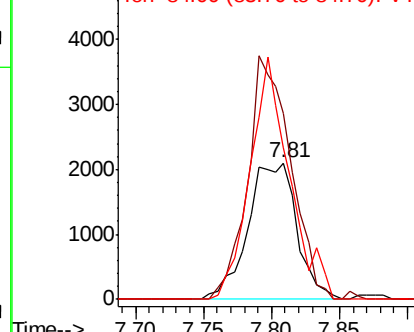
56 100

69 136.0 26.3 39.5#

84 111.4 70.8 106.2#



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: 62.522 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000301.D

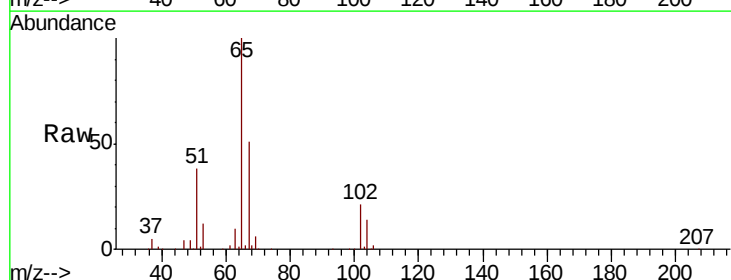
Acq: 14 Oct 2019 15:59

Tgt Ion: 65 Resp: 147574

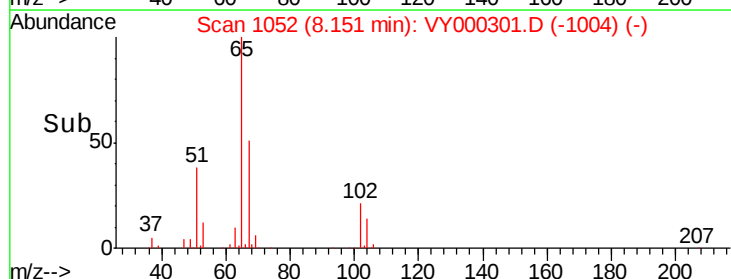
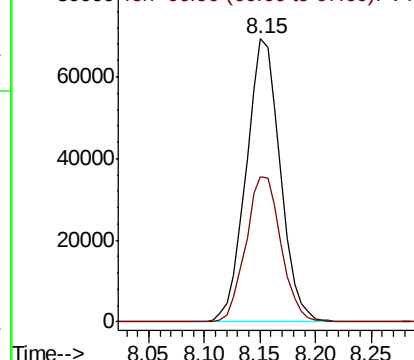
Ion Ratio Lower Upper

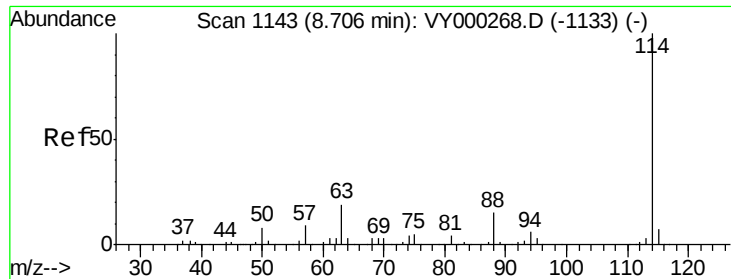
65 100

67 52.8 0.0 109.4



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

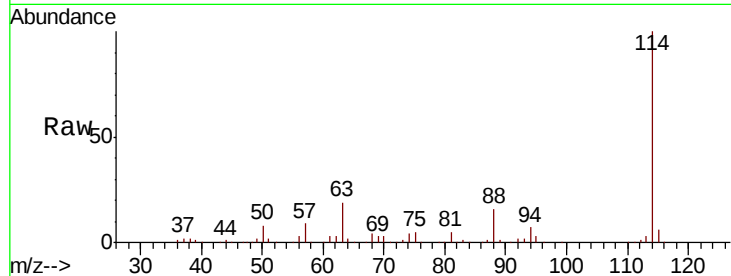




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.01 min  
 Lab File: VY000301.D  
 Acq: 14 Oct 2019 15:59

Instrument :  
 MSVOA\_Y  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.8  | 0.0   | 37.2  |
| 88      | 16.0  | 0.0   | 30.2  |

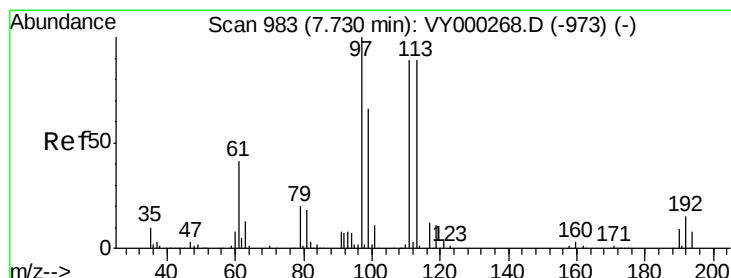
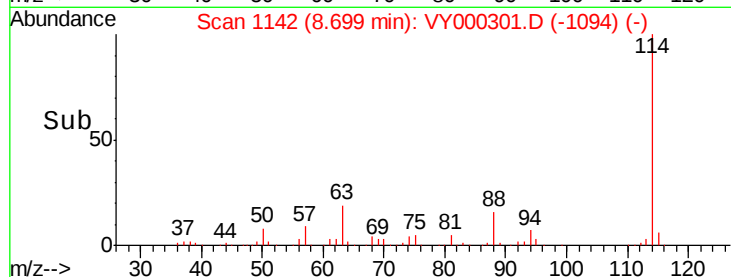
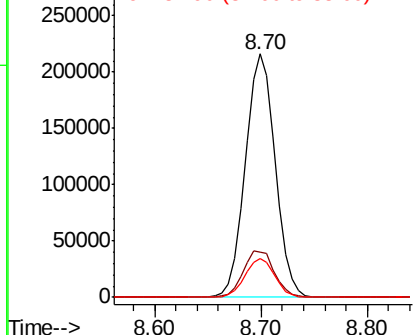


Abundance

Ion 113.90 (113.60 to 114.60): V

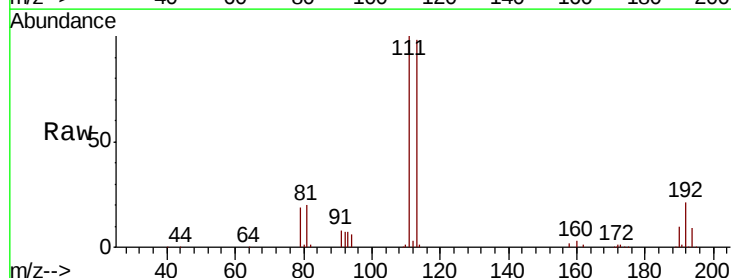
Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35  
 Dibromofluoromethane  
 Concen: 49.763 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: VY000301.D  
 Acq: 14 Oct 2019 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 81.6  | 122.4 |
| 192     | 20.3  | 15.3  | 22.9  |

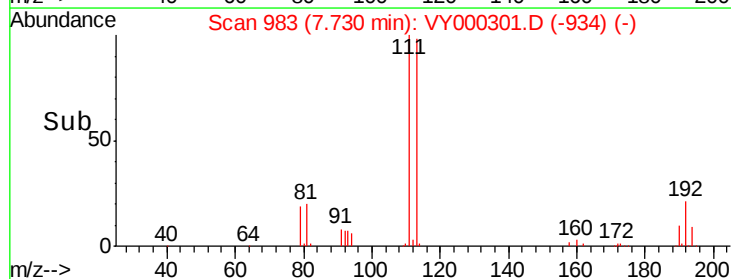
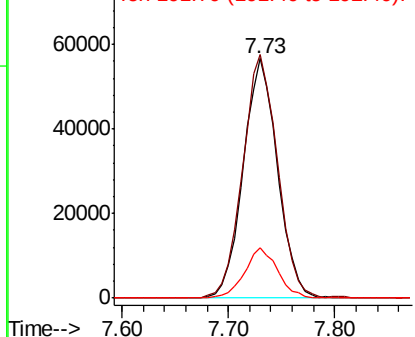


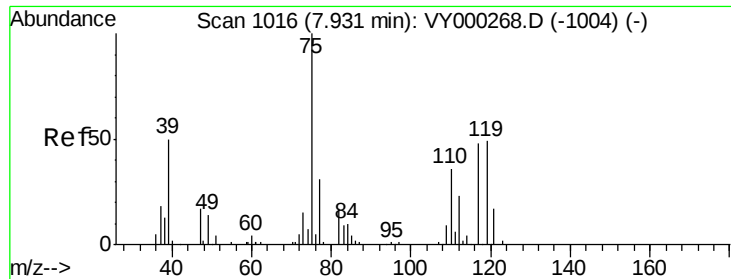
Abundance

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

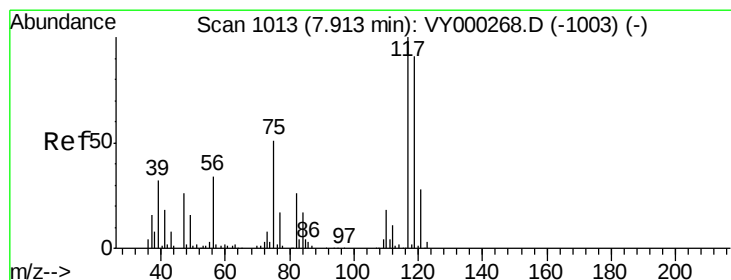
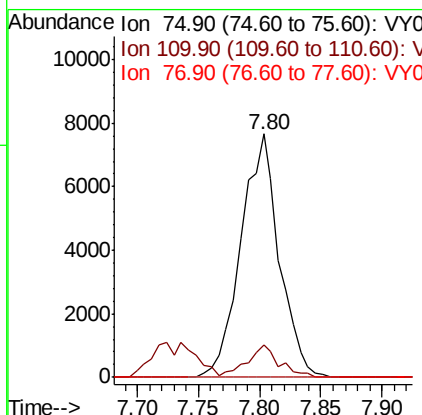
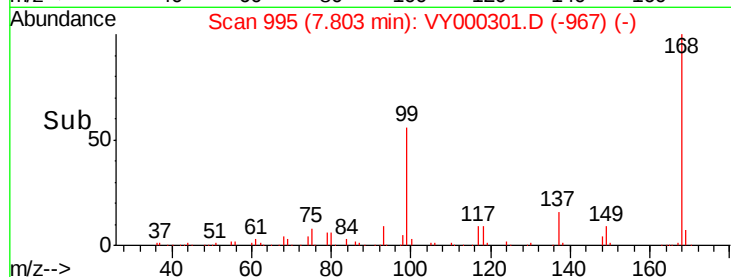
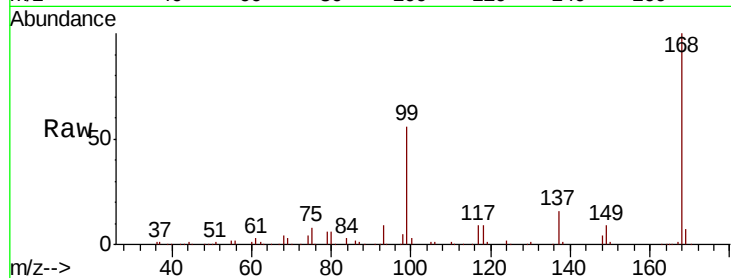




#36  
 1,1-Dichloropropene  
 Concen: 3.989 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.13 min  
 Lab File: VY000301.D  
 Acq: 14 Oct 2019 15:59

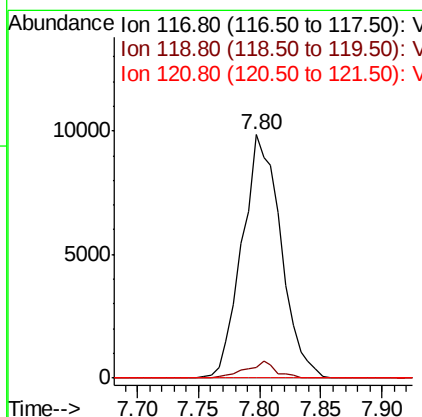
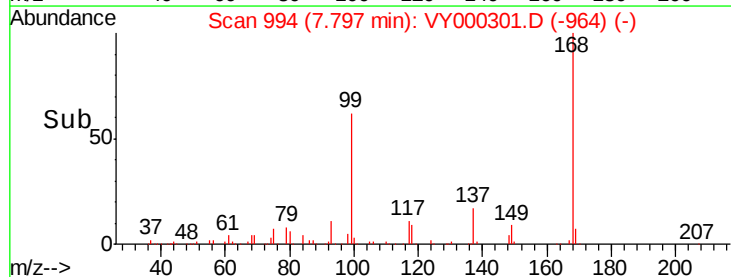
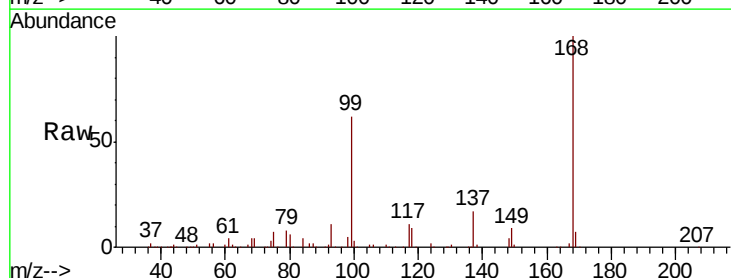
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

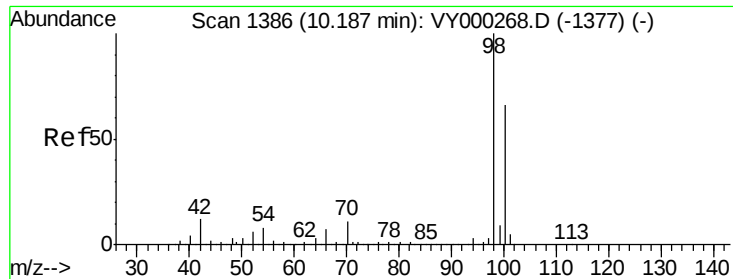
| Tot Ion   | 75    | Resp  | 16645 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 11.4  | 18.4  | 55.4# |
| 77        | 0.0   | 25.0  | 37.6# |



#38  
 Carbon Tetrachloride  
 Concen: 5.380 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.12 min  
 Lab File: VY000301.D  
 Acq: 14 Oct 2019 15:59

| Tgt Ion   | 117   | Resp  | 21736  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 4.4   | 72.8  | 109.2# |
| 121       | 0.0   | 22.2  | 33.2#  |





#50

Toluene-d8

Concen: 50.706 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.00 min

Lab File: VY000301.D

Acq: 14 Oct 2019 15:59

Instrument :

MSVOA\_Y

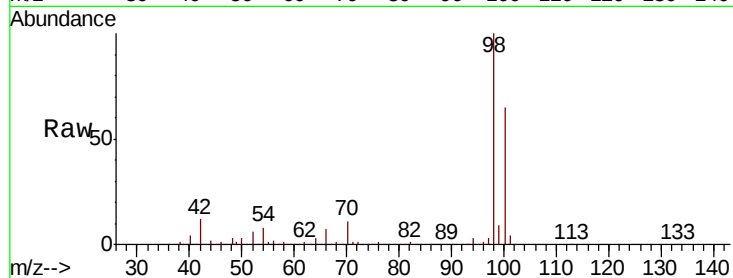
ClientSampleId :

Tot Ion: 98 Resp: 501408

Ion Ratio Lower Upper

98 100

100 66.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.19

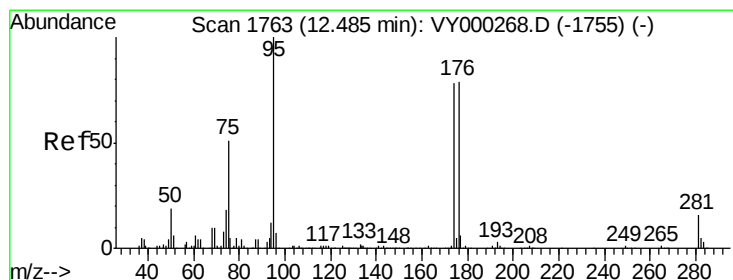
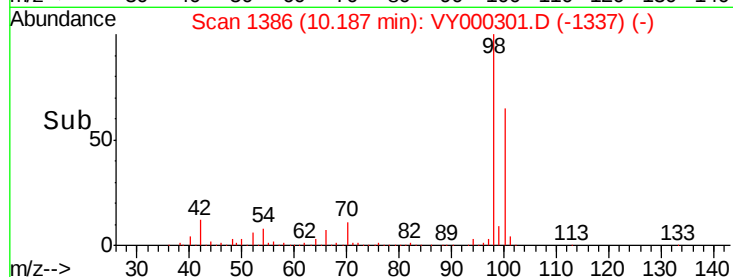
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.880 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.01 min

Lab File: VY000301.D

Acq: 14 Oct 2019 15:59

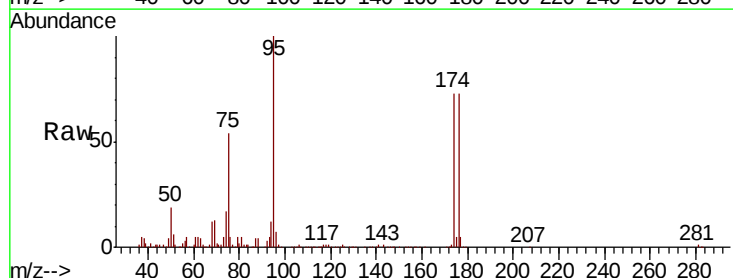
Tgt Ion: 95 Resp: 168604

Ion Ratio Lower Upper

95 100

174 78.3 0.0 159.6

176 77.1 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

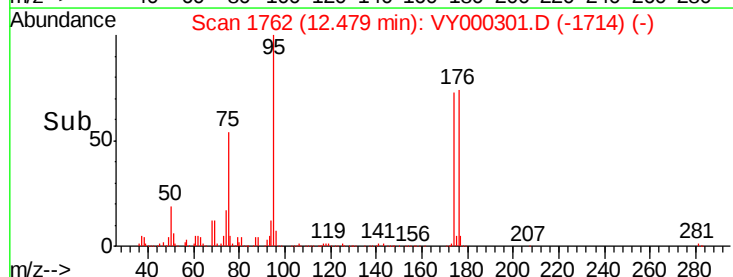
150000

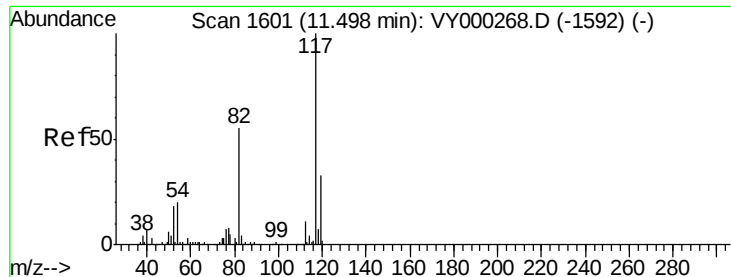
100000

50000

0

Time-->

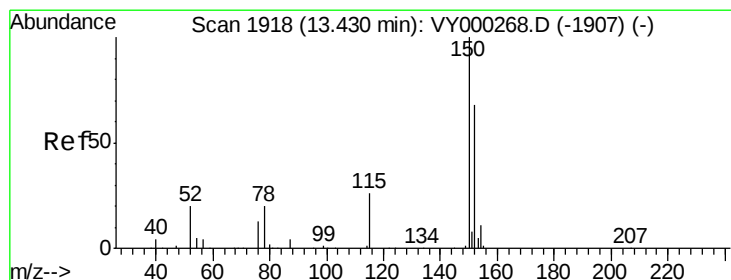
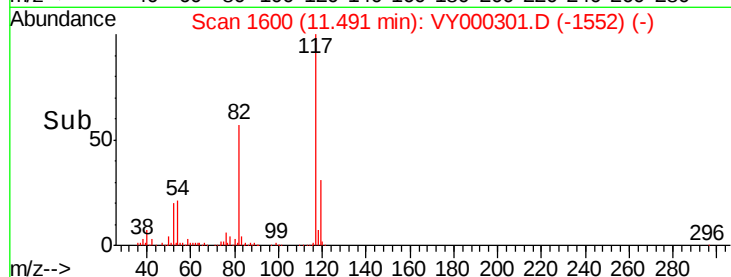
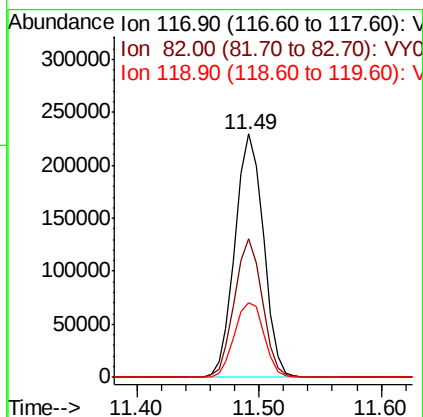
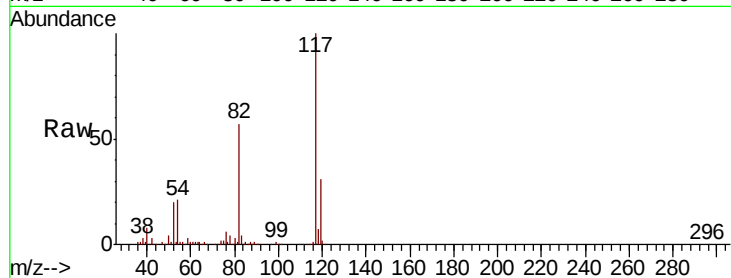




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY000301.D  
Acq: 14 Oct 2019 15:59

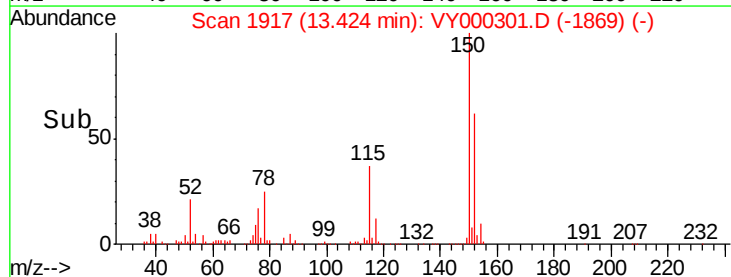
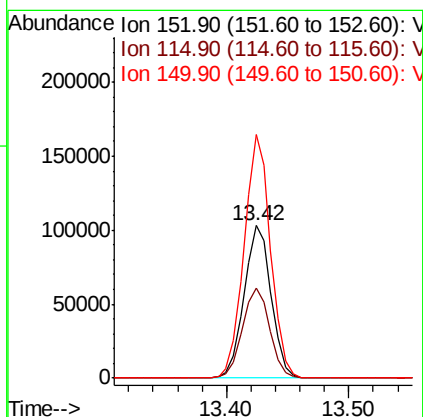
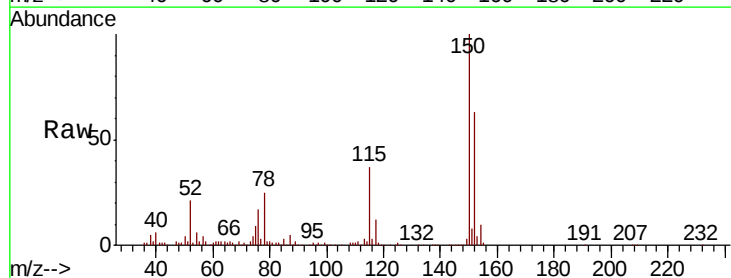
Instrument :  
MSVOA\_Y  
ClientSampleId :

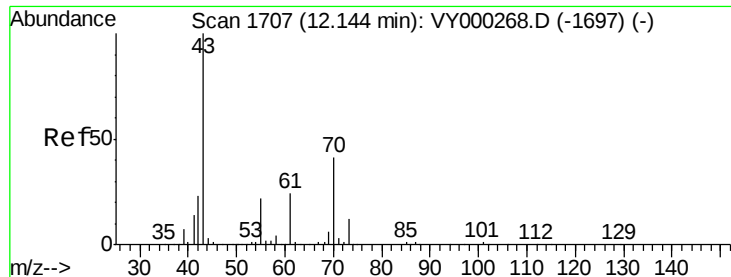
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.0  | 43.7  | 65.5  |
| 119     | 30.8  | 26.6  | 39.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.01 min  
Lab File: VY000301.D  
Acq: 14 Oct 2019 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.5  | 29.3  | 88.0  |
| 150     | 155.9 | 0.0   | 348.4 |





#74

N-amvl acetate

Concen: 3.178 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY000301.D

Acq: 14 Oct 2019 15:59

Instrument :

MSVOA\_Y

ClientSampleId :

Tot Ion: 43 Resp: 9609

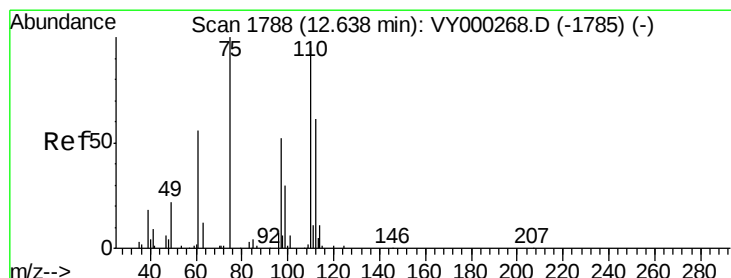
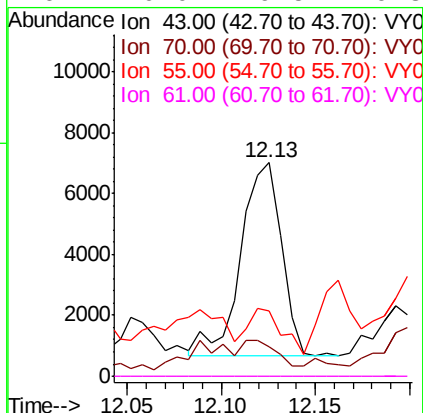
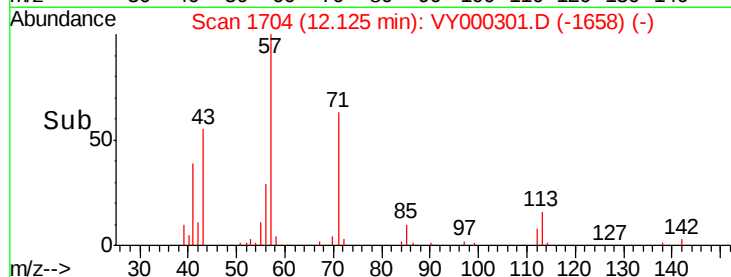
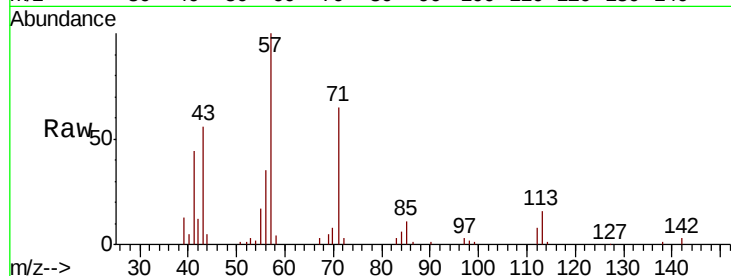
Ion Ratio Lower Upper

43 100

70 10.4 32.9 49.3#

55 18.9 17.8 26.6

61 0.0 19.5 29.3#



#76

1,2,3-Trichloropropane

Concen: 45.405 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

Lab File: VY000301.D

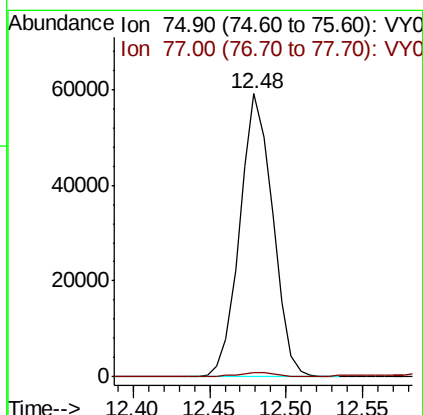
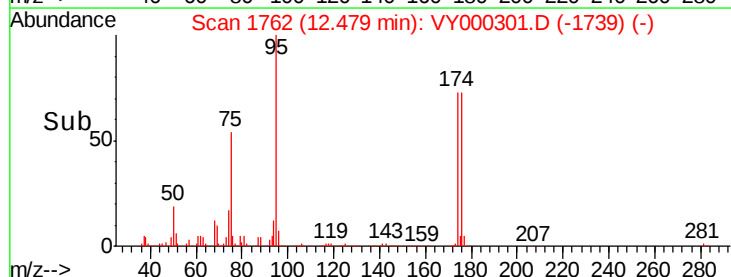
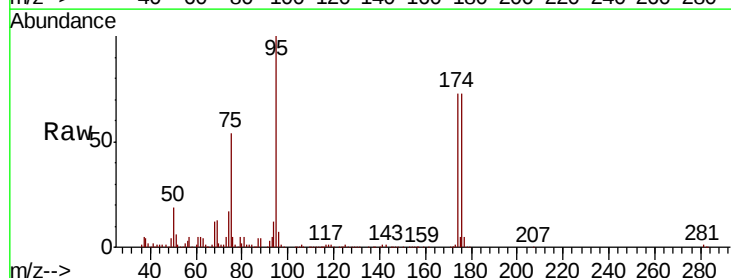
Acq: 14 Oct 2019 15:59

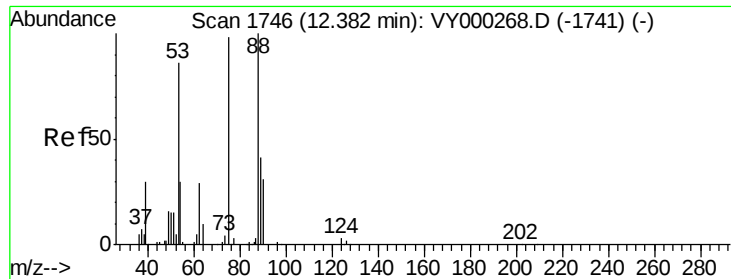
Tgt Ion: 75 Resp: 88194

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#

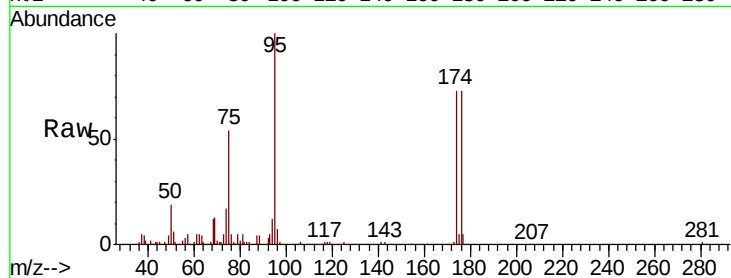




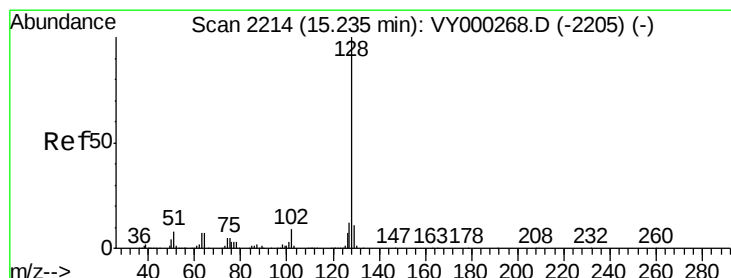
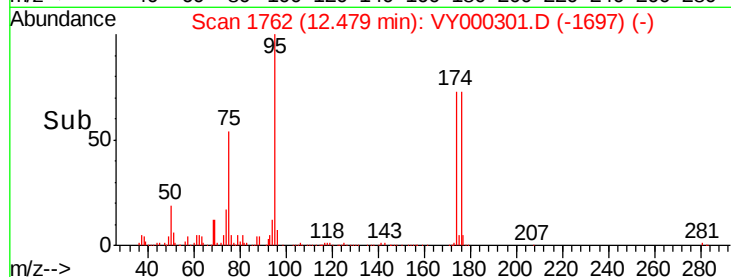
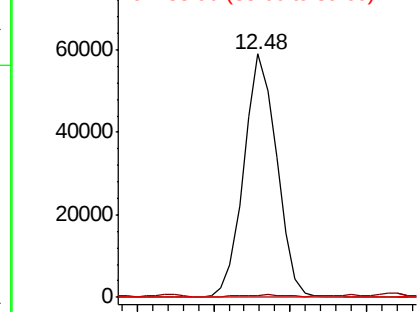
#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.345 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. 0.10 min  
Lab File: VY000301.D  
Acq: 14 Oct 2019 15:59

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 75 Resp: 88194  
Ion Ratio Lower Upper  
75 100  
53 0.4 71.3 106.9#  
89 0.0 35.1 52.7#

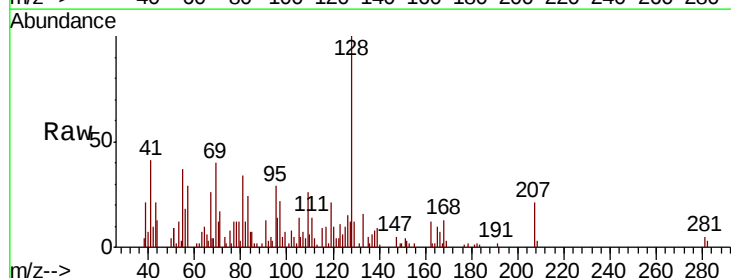


Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 53.00 (52.70 to 53.70): VY0  
Ion 88.90 (88.60 to 89.60): VY0



#95  
Naphthalene  
Concen: 1.258 ug/l  
RT: 15.23 min Scan# 2214  
Delta R.T. -0.00 min  
Lab File: VY000301.D  
Acq: 14 Oct 2019 15:59

Tgt Ion: 128 Resp: 9553  
Ion Ratio Lower Upper  
128 100  
127 15.9 9.6 14.4#  
129 12.0 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

