

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\  
 Data File : VU024542.D  
 Acq On : 14 Jun 2018 16:07  
 Operator : MD/SY  
 Sample : J3443-04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 15 01:36:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

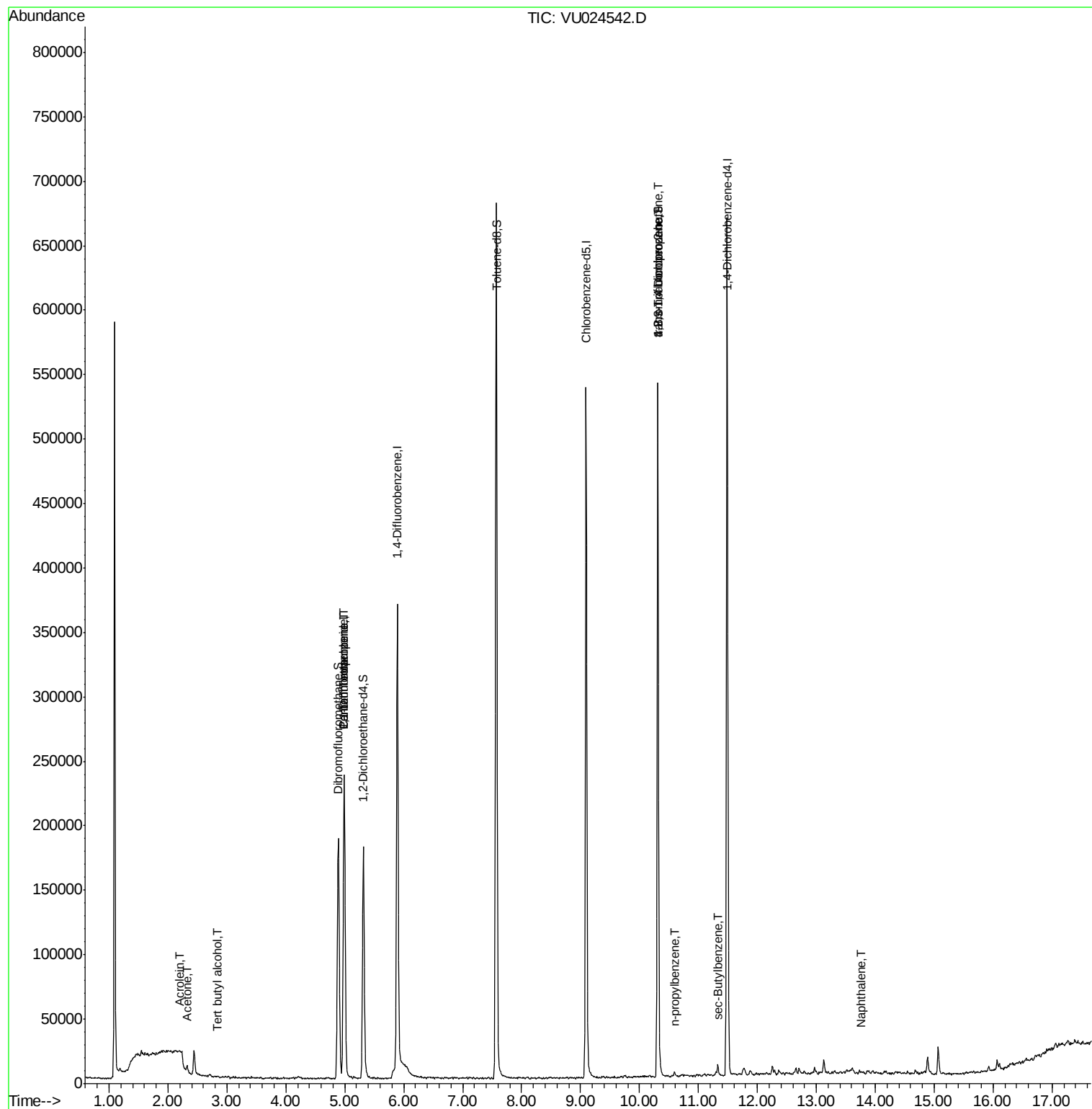
| Internal Standards             | R.T.  | QIon | Response | Conc          | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------------|--------|----------|
| 1) Pentafluorobenzene          | 4.99  | 168  | 185501   | 50.00         | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 5.89  | 114  | 314822   | 50.00         | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 9.09  | 117  | 303982   | 50.00         | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 11.49 | 152  | 177322   | 50.00         | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |               |        |          |
| 33) 1,2-Dichloroethane-d4      | 5.32  | 65   | 139026   | 45.91         | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =             | 91.82% |          |
| 35) Dibromofluoromethane       | 4.89  | 113  | 126931   | 48.58         | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =             | 97.16% |          |
| 50) Toluene-d8                 | 7.57  | 98   | 461615   | 48.44         | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =             | 96.88% |          |
| 62) 4-Bromofluorobenzene       | 10.31 | 95   | 178749   | 47.24         | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =             | 94.48% |          |
| Target Compounds               |       |      |          |               |        |          |
|                                |       |      |          |               | Qvalue |          |
| 6) Chloroethane                | 1.70  | 64   | 297      | Below Cal     |        | 89       |
| 8) Diethyl Ether               | 2.12  | 74   | 101      | Below Cal     |        | 98       |
| 11) Tert butyl alcohol         | 2.83  | 59   | 218      | 0.296 ug/l #  |        | 1        |
| 13) Acrolein                   | 2.20  | 56   | 454      | 1.174 ug/l #  |        | 13       |
| 16) Acetone                    | 2.32  | 43   | 4898     | 3.010 ug/l    |        | 98       |
| 31) Cyclohexane                | 4.99  | 56   | 3558     | Below Cal #   |        | 1        |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 12922    | 3.493 ug/l #  |        | 53       |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 17465    | 4.293 ug/l #  |        | 16       |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 89116    | 22.827 ug/l # |        | 35       |
| 78) n-propylbenzene            | 10.59 | 91   | 3522     | 0.220 ug/l    |        | 93       |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 89116    | 52.831 ug/l # |        | 100      |
| 85) sec-Butylbenzene           | 11.33 | 105  | 5663     | 0.399 ug/l    |        | 97       |
| 95) Naphthalene                | 13.76 | 128  | 1099     | 0.762 ug/l #  |        | 82       |

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

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Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024542.D

Acq: 14 Jun 2018 16:07

Instrument :

MSVOA\_U

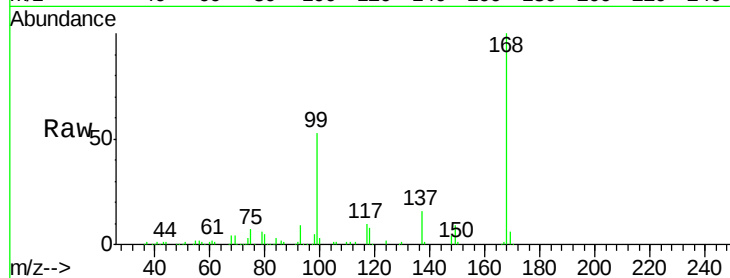
ClientSampleId :

Tot Ion:168 Resp: 185501

Ion Ratio Lower Upper

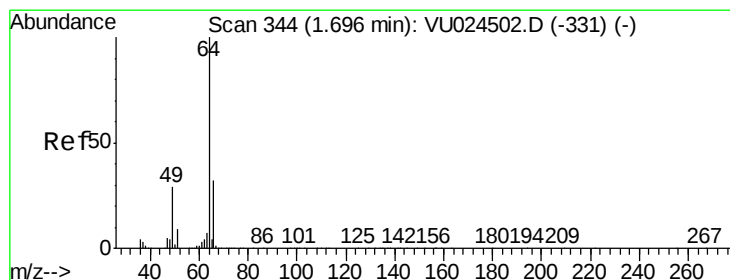
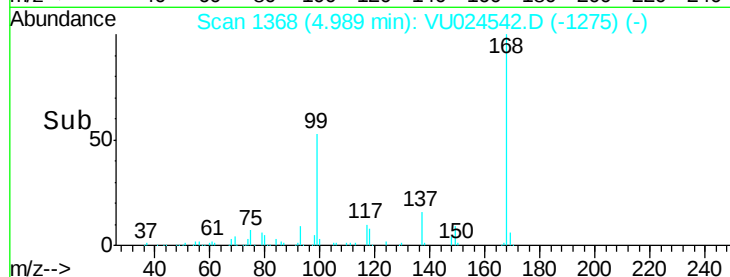
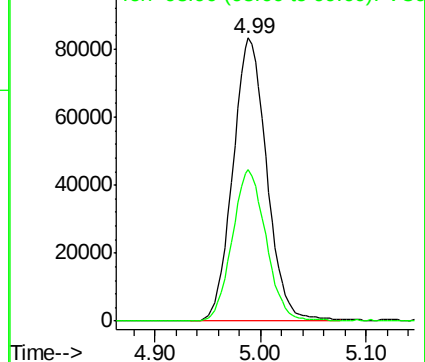
168 100

99 53.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024542.D

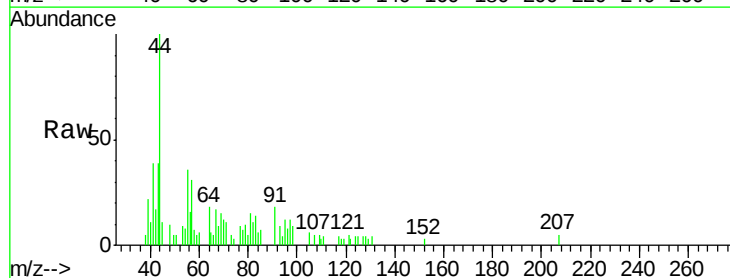
Acq: 14 Jun 2018 16:07

Tgt Ion: 64 Resp: 297

Ion Ratio Lower Upper

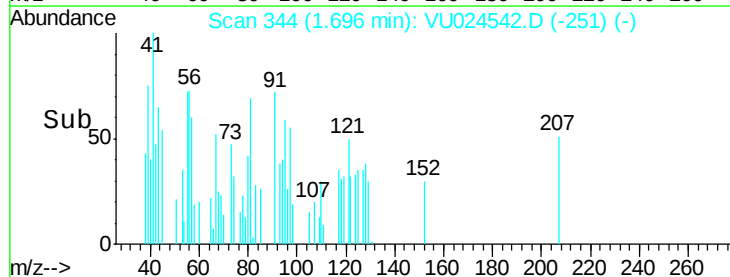
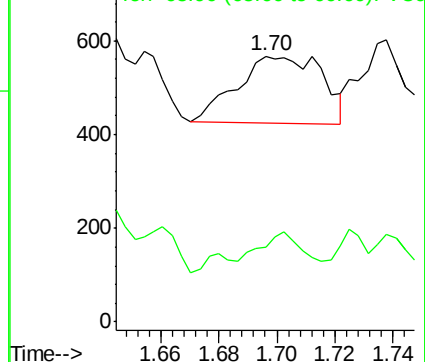
64 100

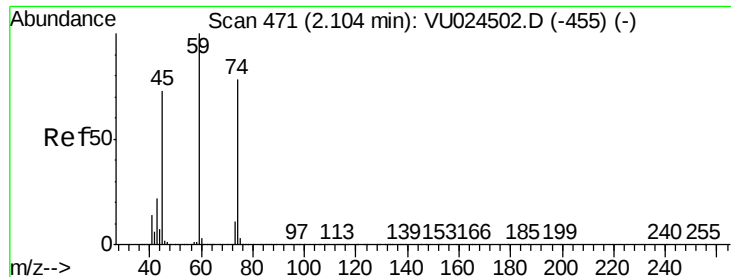
66 38.0 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.12 min Scan# 477

Delta R.T. 0.02 min

Lab File: VU024542.D

Acq: 14 Jun 2018 16:07

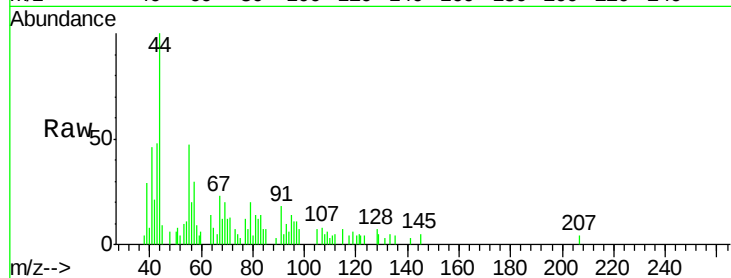
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 74 Resp: 101

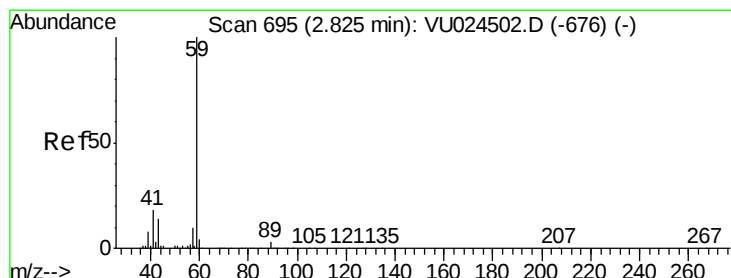
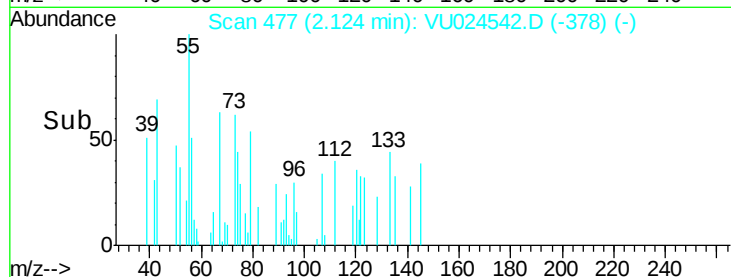
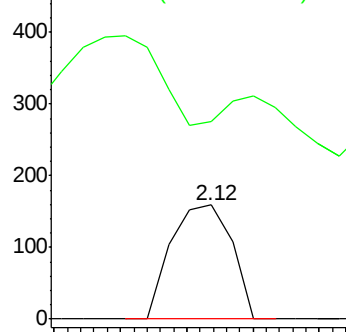
Ion Ratio Lower Upper

74 100

45 111.9 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0  
Ion 45.00 (44.70 to 45.70): VU0



#11

Tert butyl alcohol

Concen: 0.296 ug/l

RT: 2.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VU024542.D

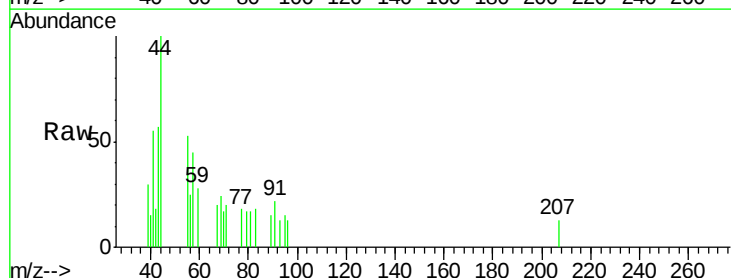
Acq: 14 Jun 2018 16:07

Tgt Ion: 59 Resp: 218

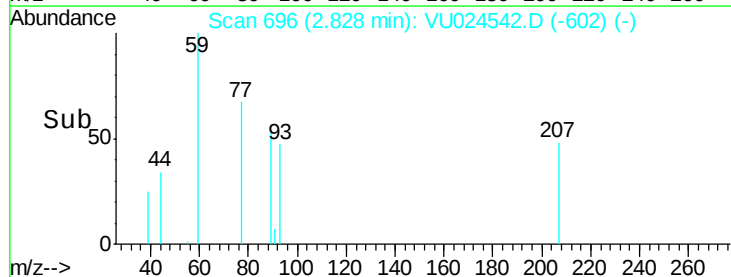
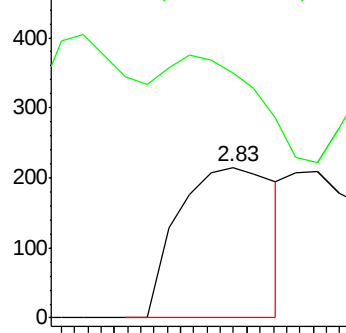
Ion Ratio Lower Upper

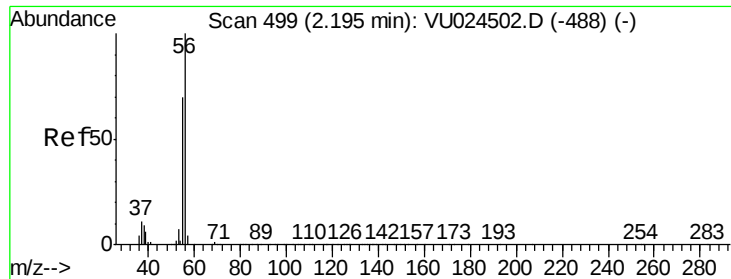
59 100

57 65.6 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

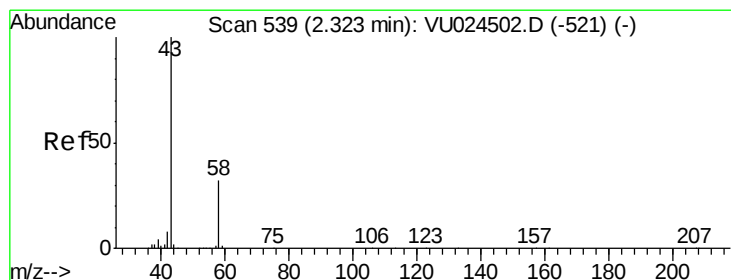
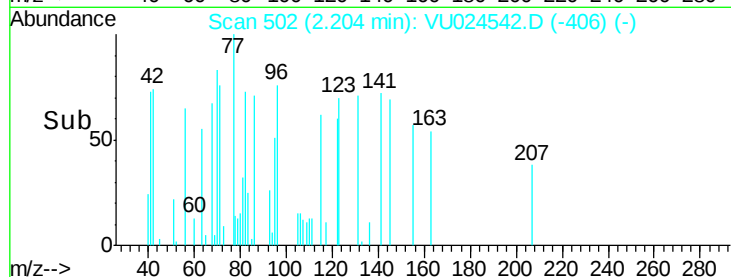
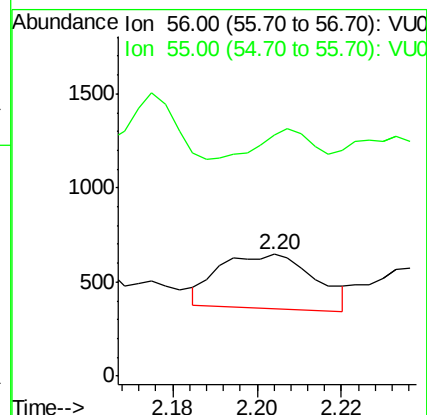
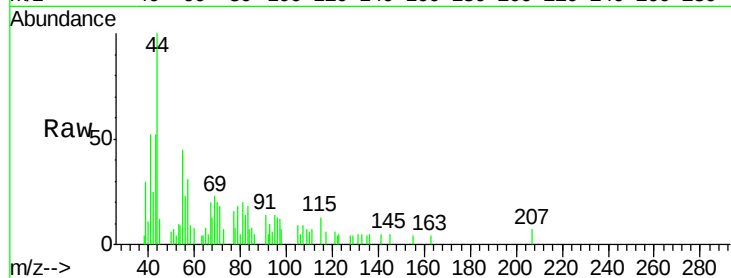




#13  
Acrolein  
Concen: 1.174 ug/l  
RT: 2.20 min Scan# 502  
Delta R.T. 0.01 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

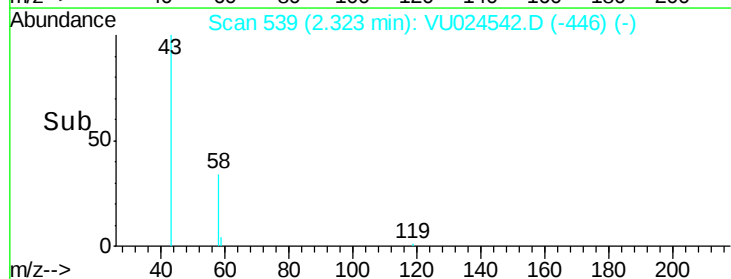
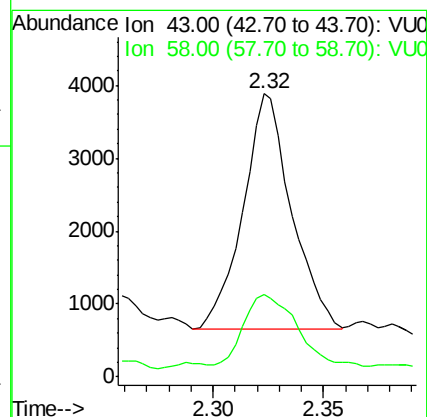
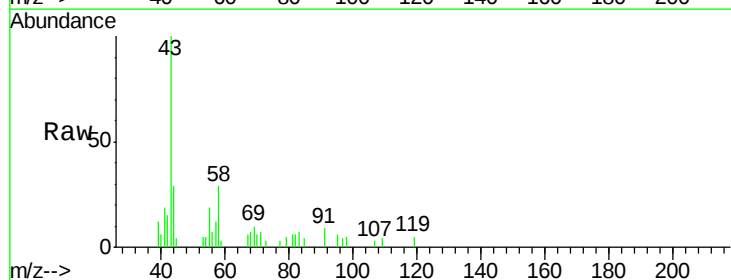
Instrument :  
MSVOA\_U  
ClientSampleId :

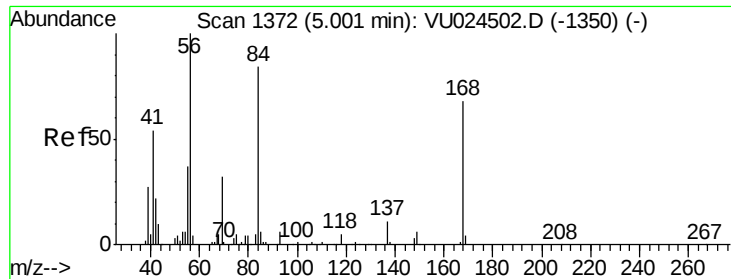
Tot Ion: 56 Resp: 454  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.4 87.6#



#16  
Acetone  
Concen: 3.010 ug/l  
RT: 2.32 min Scan# 539  
Delta R.T. -0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

Tgt Ion: 43 Resp: 4898  
Ion Ratio Lower Upper  
43 100  
58 29.2 24.4 36.6

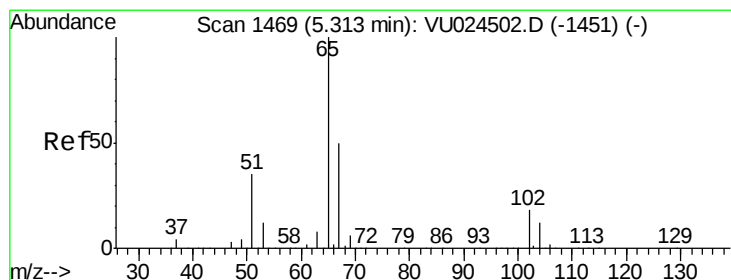
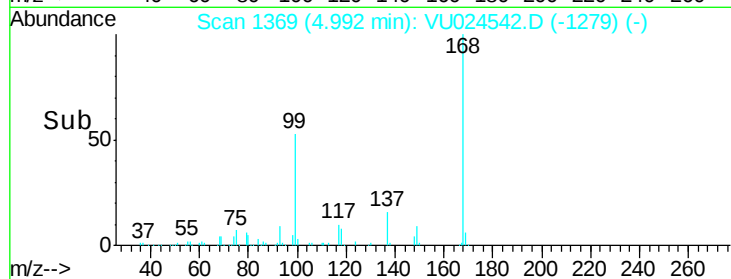
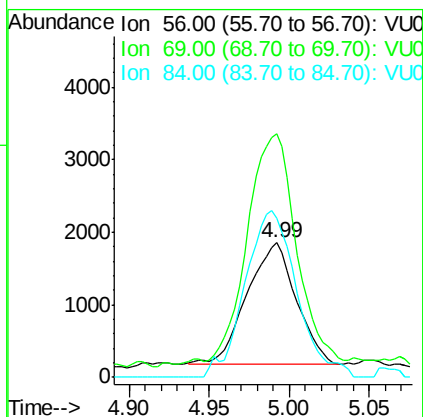
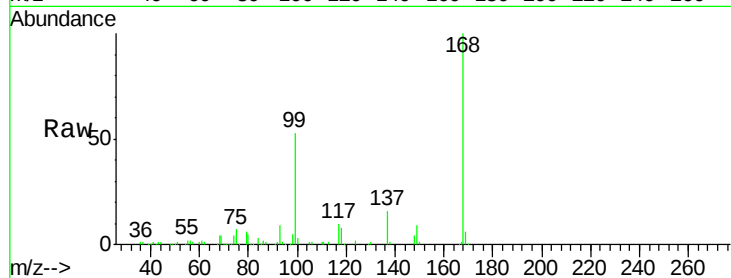




#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1369  
Delta R.T. -0.01 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

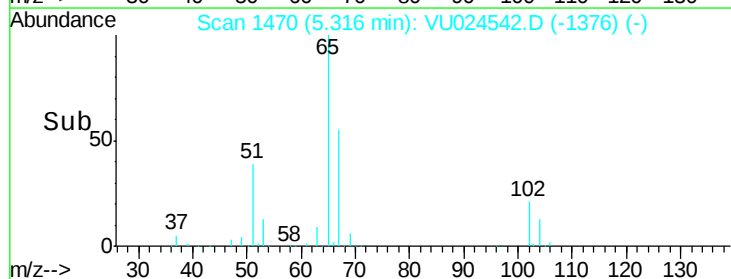
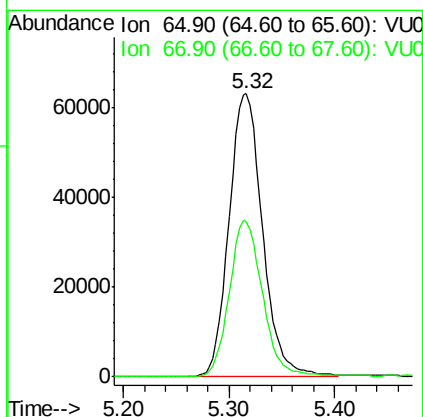
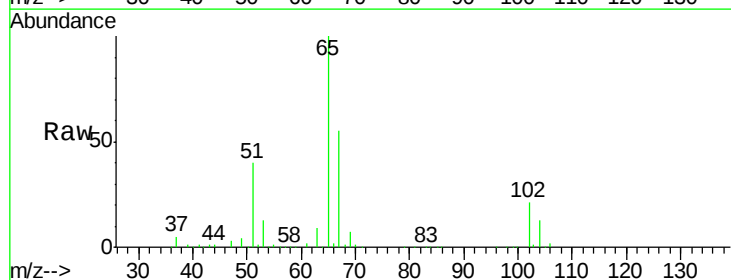
Instrument :  
MSVOA\_U  
ClientSampled :

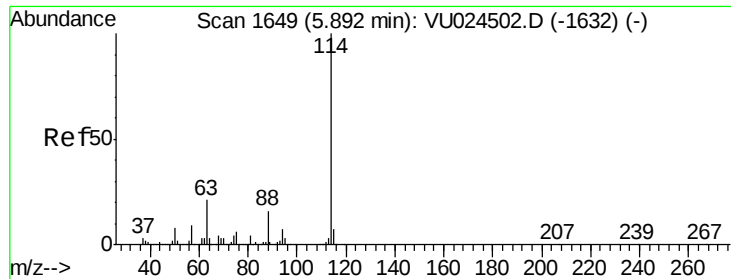
Tot Ion: 56 Resp: 3558  
Ion Ratio Lower Upper  
56 100  
69 187.3 24.8 37.2#  
84 131.2 65.2 97.8#



#33  
1,2-Dichloroethane-d4  
Concen: 45.908 ug/l  
RT: 5.32 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

Tgt Ion: 65 Resp: 139026  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 107.0

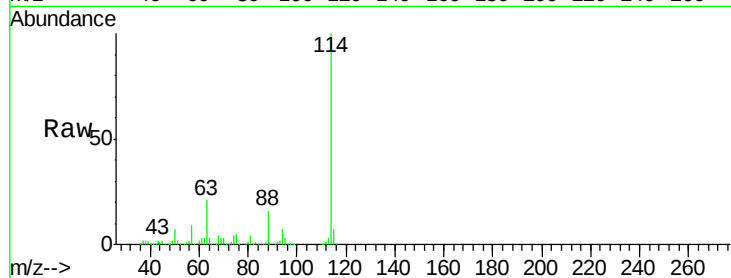




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.89 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

Instrument :  
MSVOA\_U  
ClientSampleId :

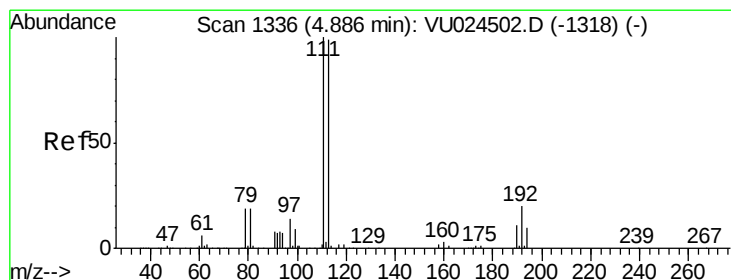
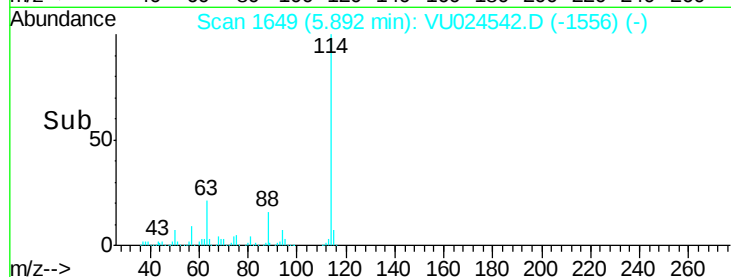
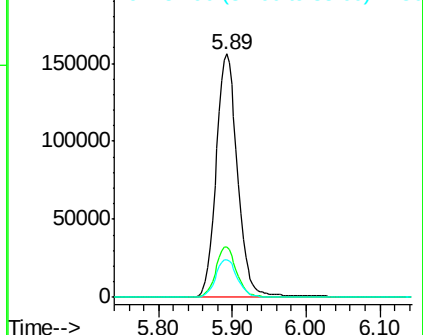
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.9  | 0.0   | 45.4  |
| 88      | 15.6  | 0.0   | 31.0  |



Abundance Ion 113.90 (113.60 to 114.60): V

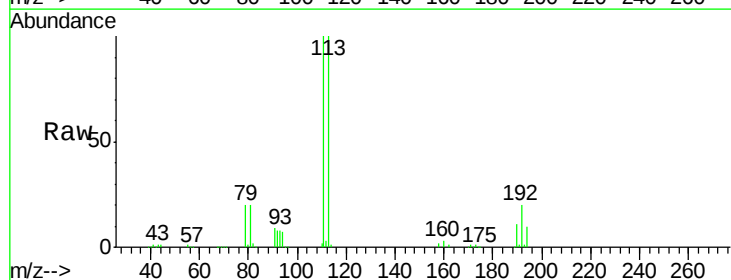
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35  
Dibromofluoromethane  
Concen: 48.581 ug/l  
RT: 4.89 min Scan# 1337  
Delta R.T. 0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

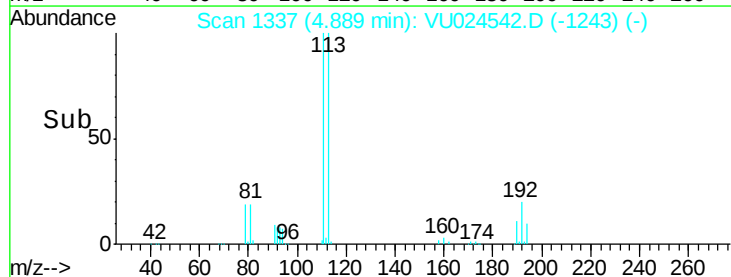
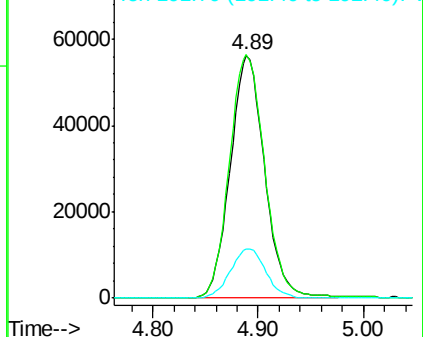
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.2  | 123.4 |
| 192     | 20.9  | 16.2  | 24.4  |

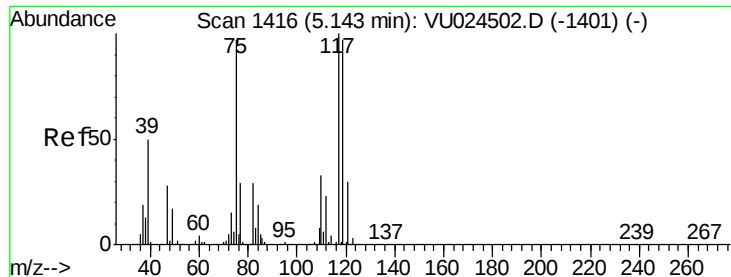


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

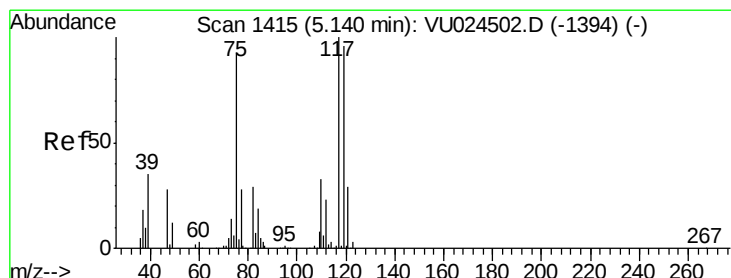
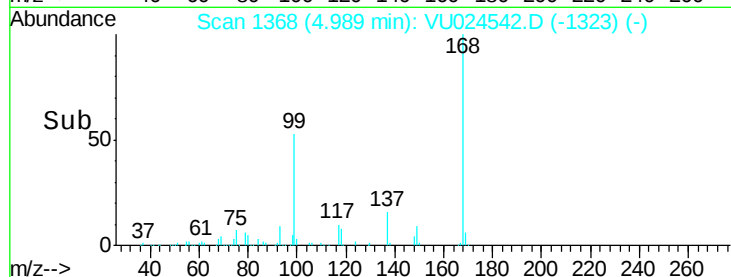
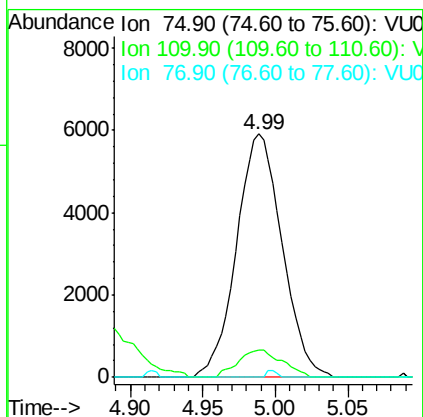
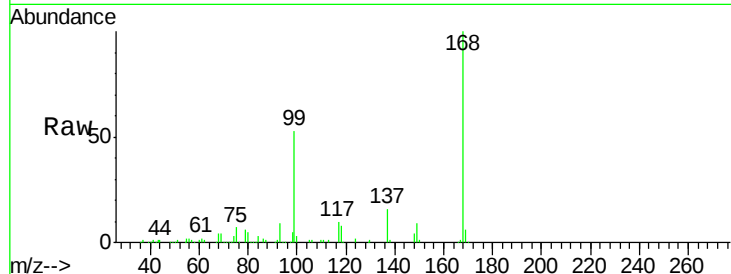




#36  
 1,1-Dichloropropene  
 Concen: 3.493 ug/l  
 RT: 4.99 min Scan# 1368  
 Delta R.T. -0.15 min  
 Lab File: VU024542.D  
 Acq: 14 Jun 2018 16:07

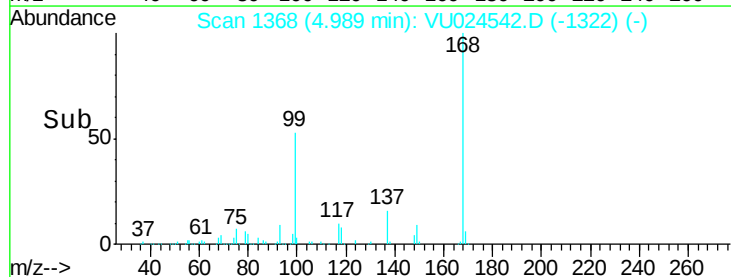
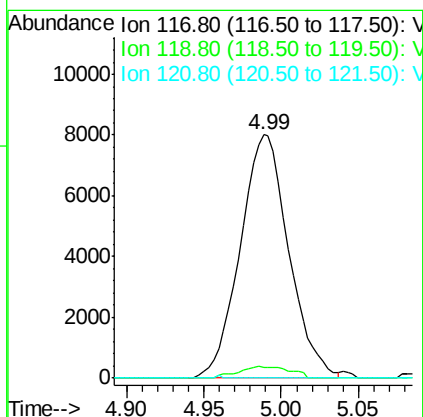
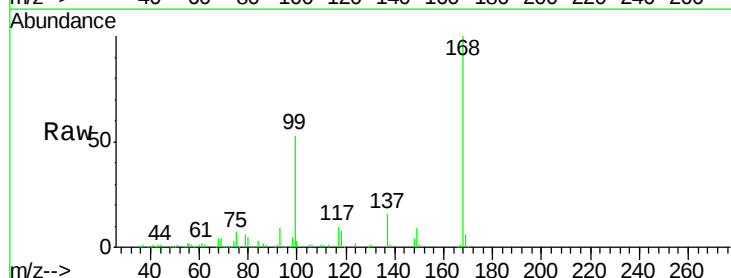
Instrument :  
 MSVOA\_U  
 ClientSampleId :

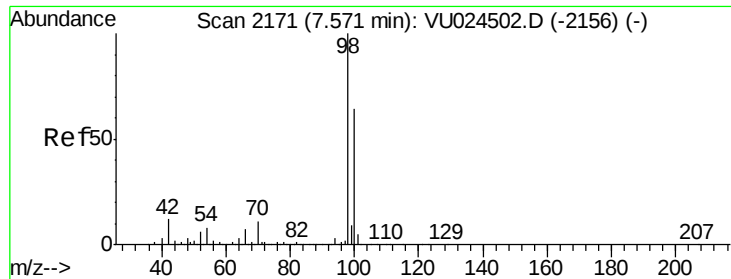
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.9  | 17.0  | 50.9# |
| 77      | 0.6   | 24.2  | 36.4# |



#38  
 Carbon Tetrachloride  
 Concen: 4.293 ug/l  
 RT: 4.99 min Scan# 1368  
 Delta R.T. -0.15 min  
 Lab File: VU024542.D  
 Acq: 14 Jun 2018 16:07

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.4   | 76.1  | 114.1# |
| 121     | 0.0   | 23.7  | 35.5#  |

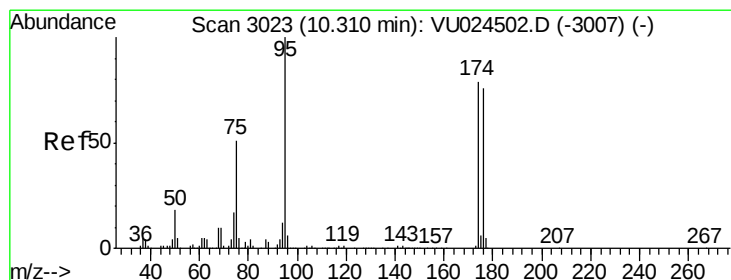
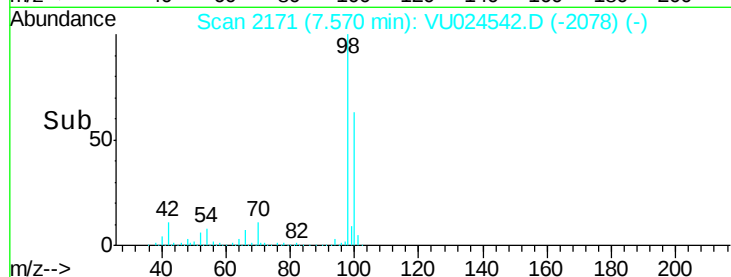
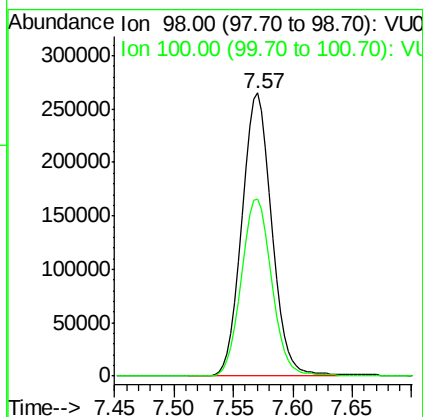
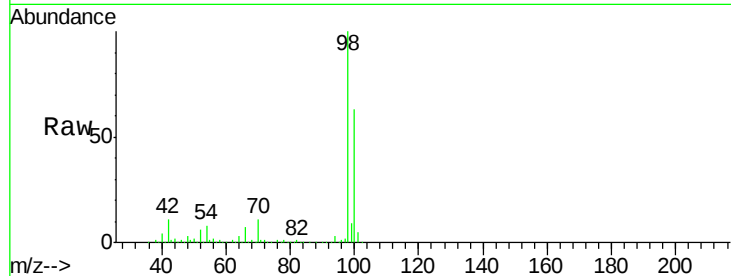




#50  
Toluene-d8  
Concen: 48.436 ug/l  
RT: 7.57 min Scan# 2171  
Delta R.T. -0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

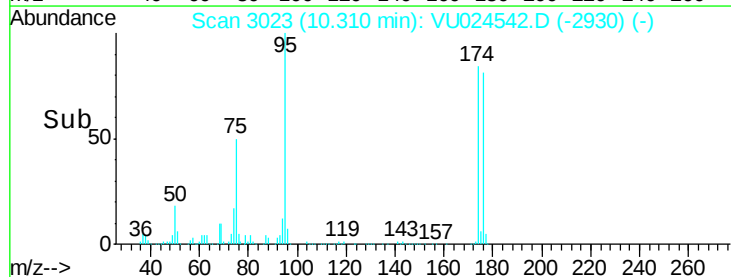
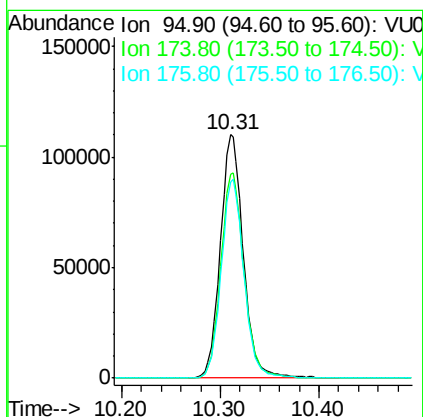
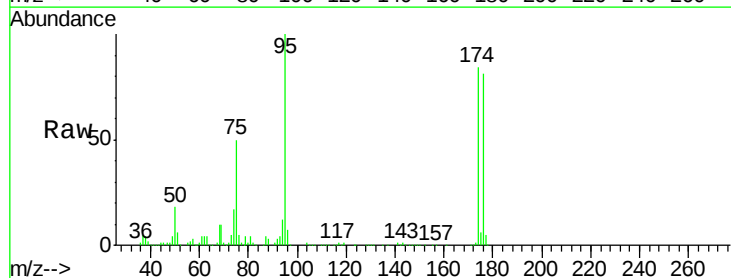
Instrument :  
MSVOA\_U  
ClientSampleId :

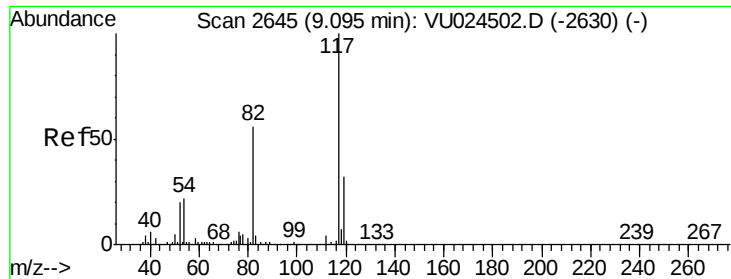
Tot Ion: 98 Resp: 461615  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.1 76.7



#62  
4-Bromofluorobenzene  
Concen: 47.239 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. -0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

Tgt Ion: 95 Resp: 178749  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 165.8  
176 81.8 0.0 159.4

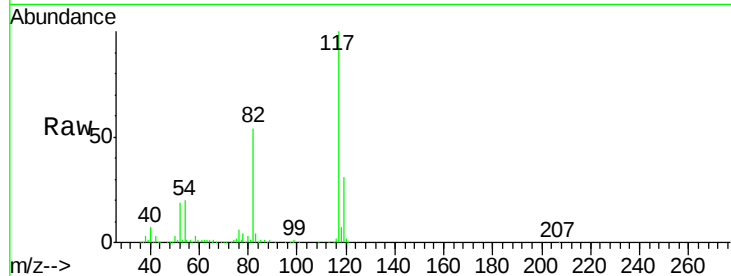




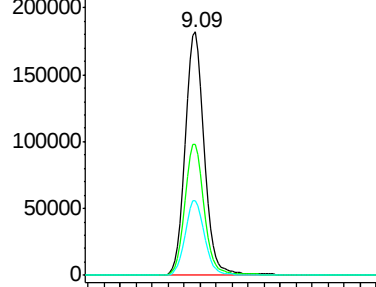
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. -0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

Instrument :  
MSVOA\_U  
ClientSampleId :

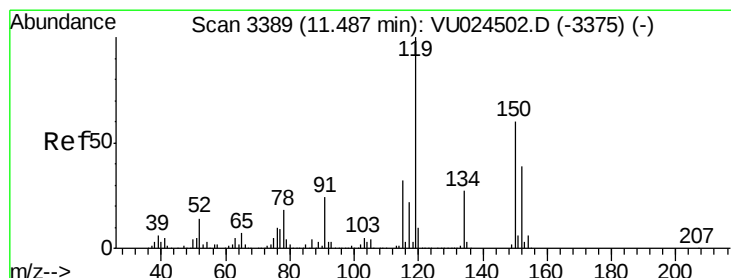
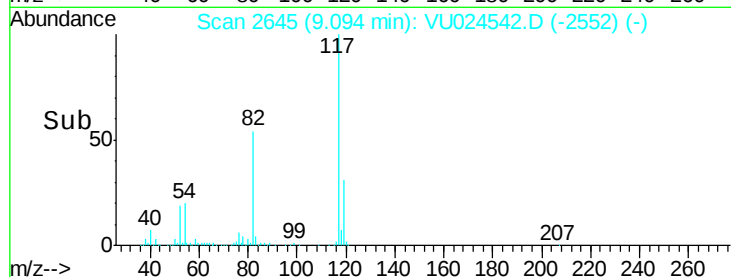
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.9  | 44.3  | 66.5  |
| 119     | 30.9  | 25.4  | 38.2  |



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

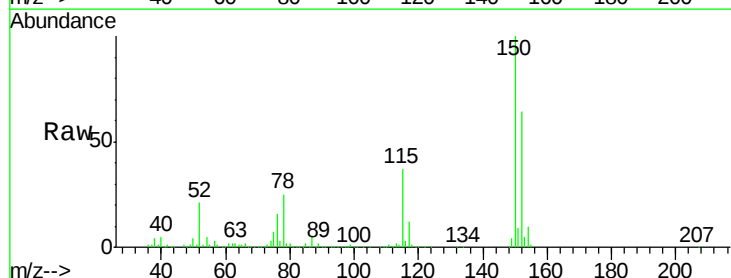


Time-->

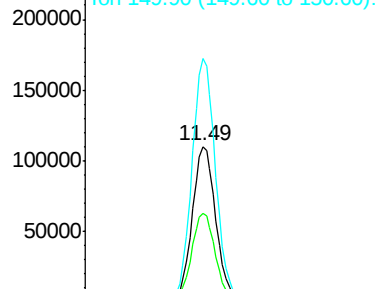


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 3389  
Delta R.T. -0.00 min  
Lab File: VU024542.D  
Acq: 14 Jun 2018 16:07

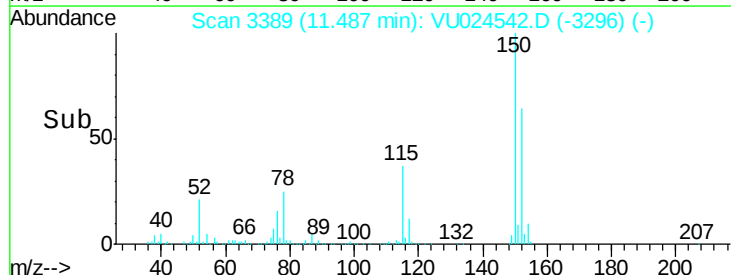
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.8  | 43.0  | 129.0 |
| 150     | 156.7 | 0.0   | 354.0 |

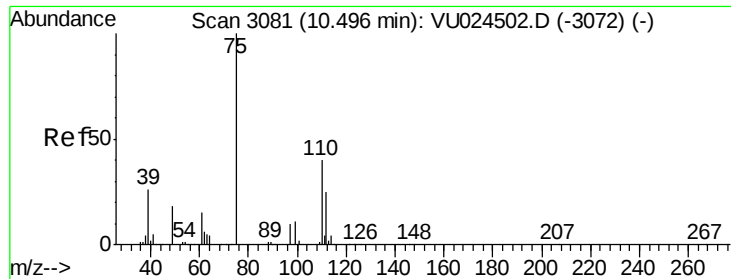


Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



Time-->





#76

1,2,3-Trichloropropane

Concen: 22.827 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024542.D

Acq: 14 Jun 2018 16:07

Instrument :

MSVOA\_U

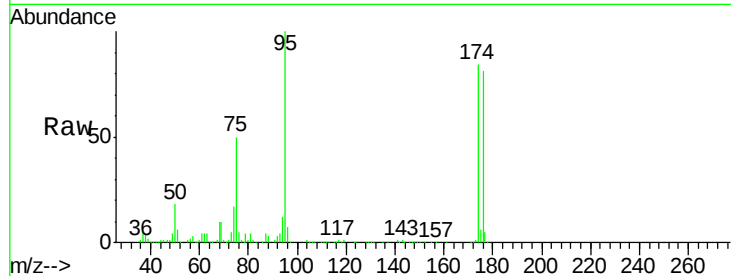
ClientSampled :

Tot Ion: 75 Resp: 89116

Ion Ratio Lower Upper

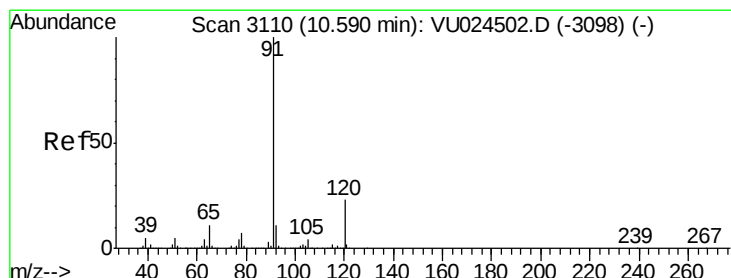
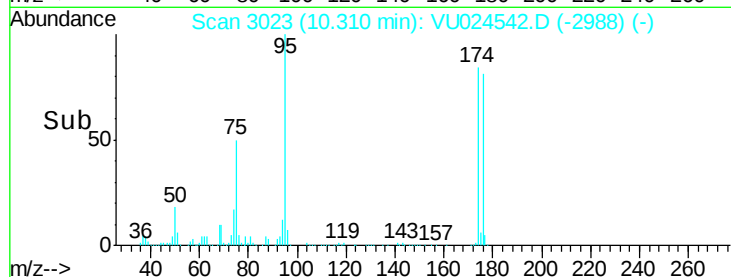
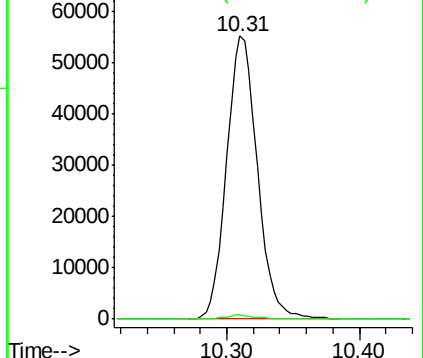
75 100

77 0.9 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#78

n-propylbenzene

Concen: 0.220 ug/l

RT: 10.59 min Scan# 3111

Delta R.T. 0.00 min

Lab File: VU024542.D

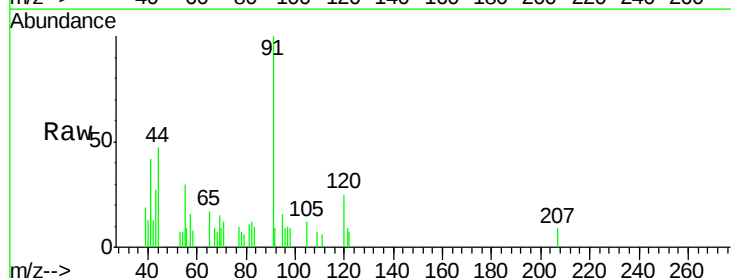
Acq: 14 Jun 2018 16:07

Tgt Ion: 91 Resp: 3522

Ion Ratio Lower Upper

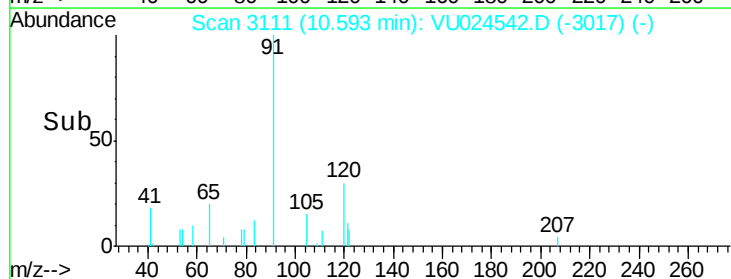
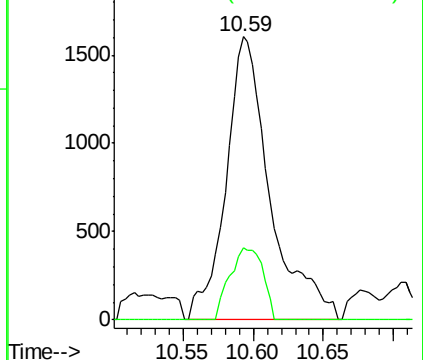
91 100

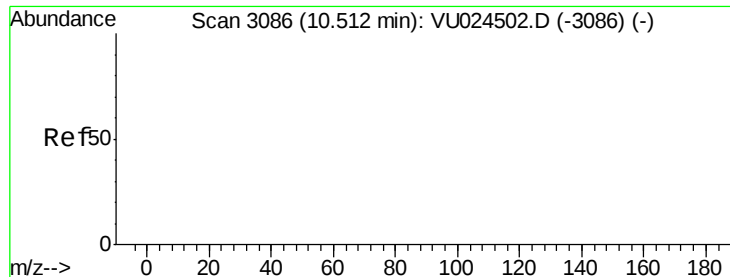
120 18.9 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 52.831 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024542.D

Acq: 14 Jun 2018 16:07

Instrument :

MSVOA\_U

ClientSampleId :

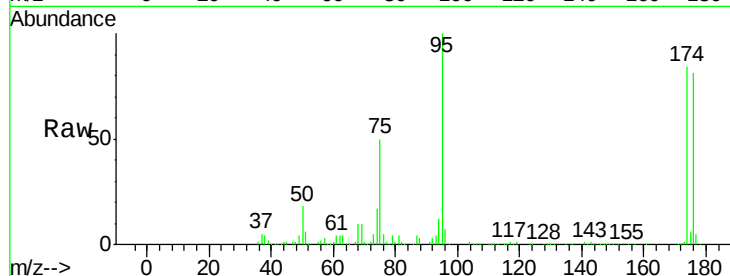
Tot Ion: 75 Resp: 89116

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

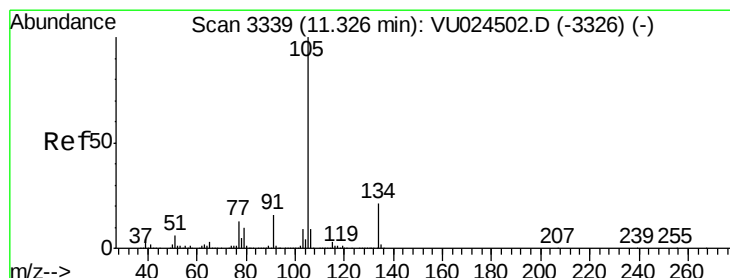
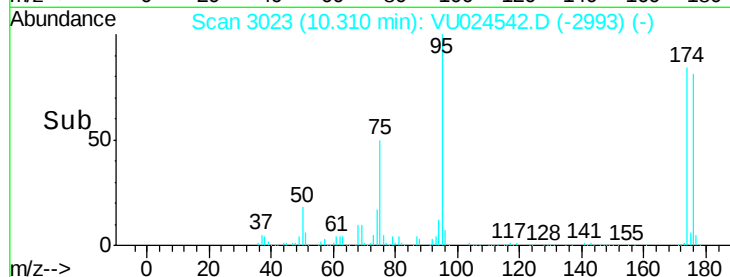
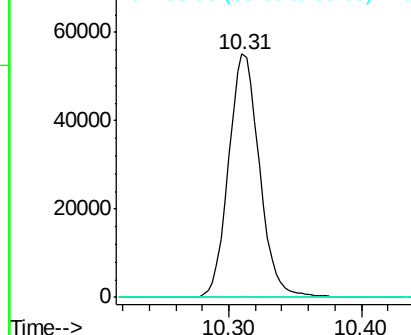
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#85

sec-Butylbenzene

Concen: 0.399 ug/l

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU024542.D

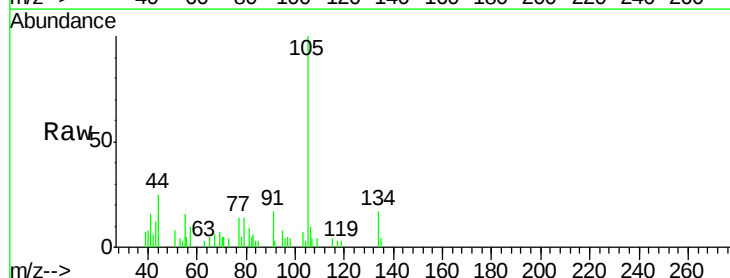
Acq: 14 Jun 2018 16:07

Tgt Ion:105 Resp: 5663

Ion Ratio Lower Upper

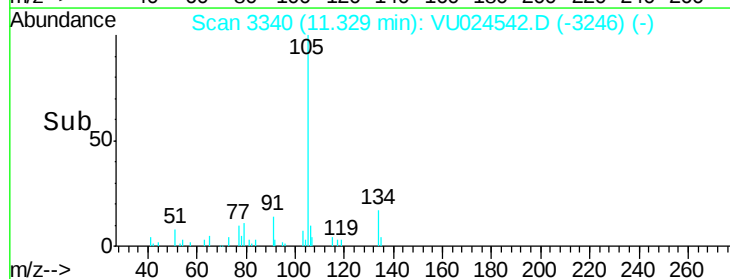
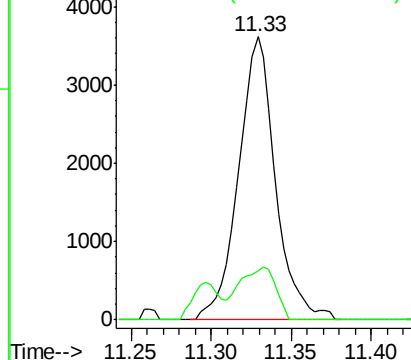
105 100

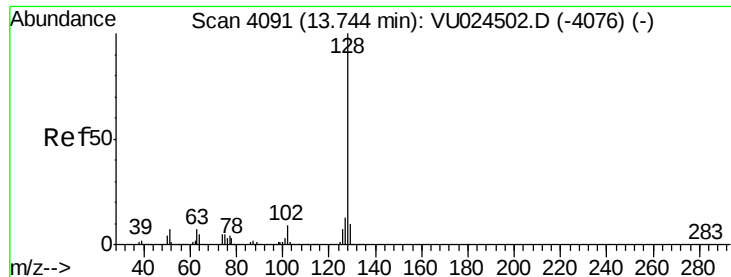
134 18.2 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): VU024502.D (-3326) (-)

Ion 134.00 (133.70 to 134.70): VU024502.D (-3326) (-)





#95

Naphthalene

Concen: 0.762 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

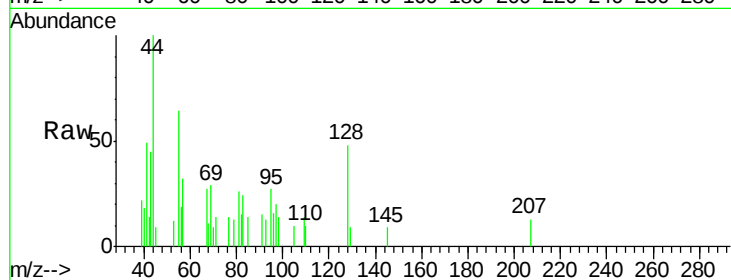
Lab File: VU024542.D

Acq: 14 Jun 2018 16:07

Instrument :

MSVOA\_U

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 1099  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 2.0   | 10.6  | 16.0# |
| 129      | 8.8   | 8.6   | 12.8  |

