

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\  
 Data File : VU024886.D  
 Acq On : 25 Jun 2018 19:46  
 Operator : MD/SY  
 Sample : J3663-02ME  
 Misc : 6.15µ/5.0mL/100µL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 26 05:17:50 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      | 4.98  | 168  | 220402   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 337910   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 334631   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 196817   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 163458   | 45.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.86%  |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 129875   | 46.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.62%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 493085   | 48.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.40%  |          |
| 62) 4-Bromofluorobenzene    | 10.32 | 95   | 209293   | 51.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.06% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1187     | 0.42      | ug/l  | # 80   |
| 5) Bromomethane                | 1.60  | 94   | 1054     | 0.75      | ug/l  | # 74   |
| 6) Chloroethane                | 1.69  | 64   | 97       | Below Cal |       | # 43   |
| 8) Diethyl Ether               | 1.98  | 74   | 82       | Below Cal |       | # 67   |
| 10) Methyl Iodide              | 2.42  | 142  | 19       | 5.30      | ug/l  | # 1    |
| 11) Tert butyl alcohol         | 2.83  | 59   | 9023     | 10.31     | ug/l  | # 77   |
| 13) Acrolein                   | 2.19  | 56   | 174      | 0.38      | ug/l  | # 93   |
| 14) Allyl chloride             | 2.76  | 41   | 10142    | 2.18      | ug/l  | # 72   |
| 15) Acrylonitrile              | 2.76  | 53   | 1067     | 0.63      | ug/l  | # 28   |
| 16) Acetone                    | 2.34  | 43   | 16058    | 8.31      | ug/l  | # 99   |
| 18) Methyl Acetate             | 2.63  | 43   | 1933     | 0.47      | ug/l  | # 99   |
| 20) Methylene Chloride         | 2.68  | 84   | 681      | 0.22      | ug/l  | # 73   |
| 25) 2-Butanone                 | 4.29  | 43   | 8188     | 3.15      | ug/l  | # 100  |
| 27) cis-1,2-Dichloroethene     | 4.22  | 96   | 3595     | 1.13      | ug/l  | # 92   |
| 29) Tetrahydrofuran            | 4.66  | 42   | 788      | 0.49      | ug/l  | # 75   |
| 31) Cyclohexane                | 4.98  | 56   | 4463     | Below Cal |       | # 1    |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 16192    | 4.08      | ug/l  | # 50   |
| 37) Ethyl Acetate              | 4.29  | 43   | 8188     | 1.89      | ug/l  | # 70   |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 21971    | 5.03      | ug/l  | # 15   |
| 51) 4-Methyl-2-Pentanone       | 7.48  | 43   | 11282    | 2.40      | ug/l  | # 93   |
| 52) Toluene                    | 7.64  | 92   | 2170     | 0.30      | ug/l  | # 99   |
| 59) 2-Hexanone                 | 8.39  | 43   | 1045     | 0.27      | ug/l  | # 68   |
| 64) Tetrachloroethene          | 8.24  | 164  | 707      | 0.22      | ug/l  | # 77   |
| 65) Chlorobenzene              | 9.13  | 112  | 49487    | 5.79      | ug/l  | # 99   |
| 68) m/p-Xylenes                | 9.38  | 106  | 3147     | 0.55      | ug/l  | # 97   |
| 76) 1,2,3-Trichloropropane     | 10.32 | 75   | 109573   | 25.29     | ug/l  | # 36   |
| 80) 1,3,5-Trimethylbenzene     | 10.78 | 105  | 7279     | 0.56      | ug/l  | # 99   |
| 81) trans-1,4-Dichloro-2-buten | 10.32 | 75   | 109573   | 58.52     | ug/l  | # 100  |
| 84) 1,2,4-Trimethylbenzene     | 11.16 | 105  | 19828    | 1.49      | ug/l  | # 97   |
| 87) 1,3-Dichlorobenzene        | 11.43 | 146  | 20773    | 2.94      | ug/l  | # 97   |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 43099    | 6.06      | ug/l  | # 96   |
| 89) n-Butylbenzene             | 11.89 | 91   | 2792     | 0.22      | ug/l  | # 35   |
| 91) 1,2-Dichlorobenzene        | 11.89 | 146  | 314264   | 44.39     | ug/l  | # 99   |
| 95) Naphthalene                | 13.75 | 128  | 15132    | 1.71      | ug/l  | # 97   |

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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jun 26 05:17:50 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) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

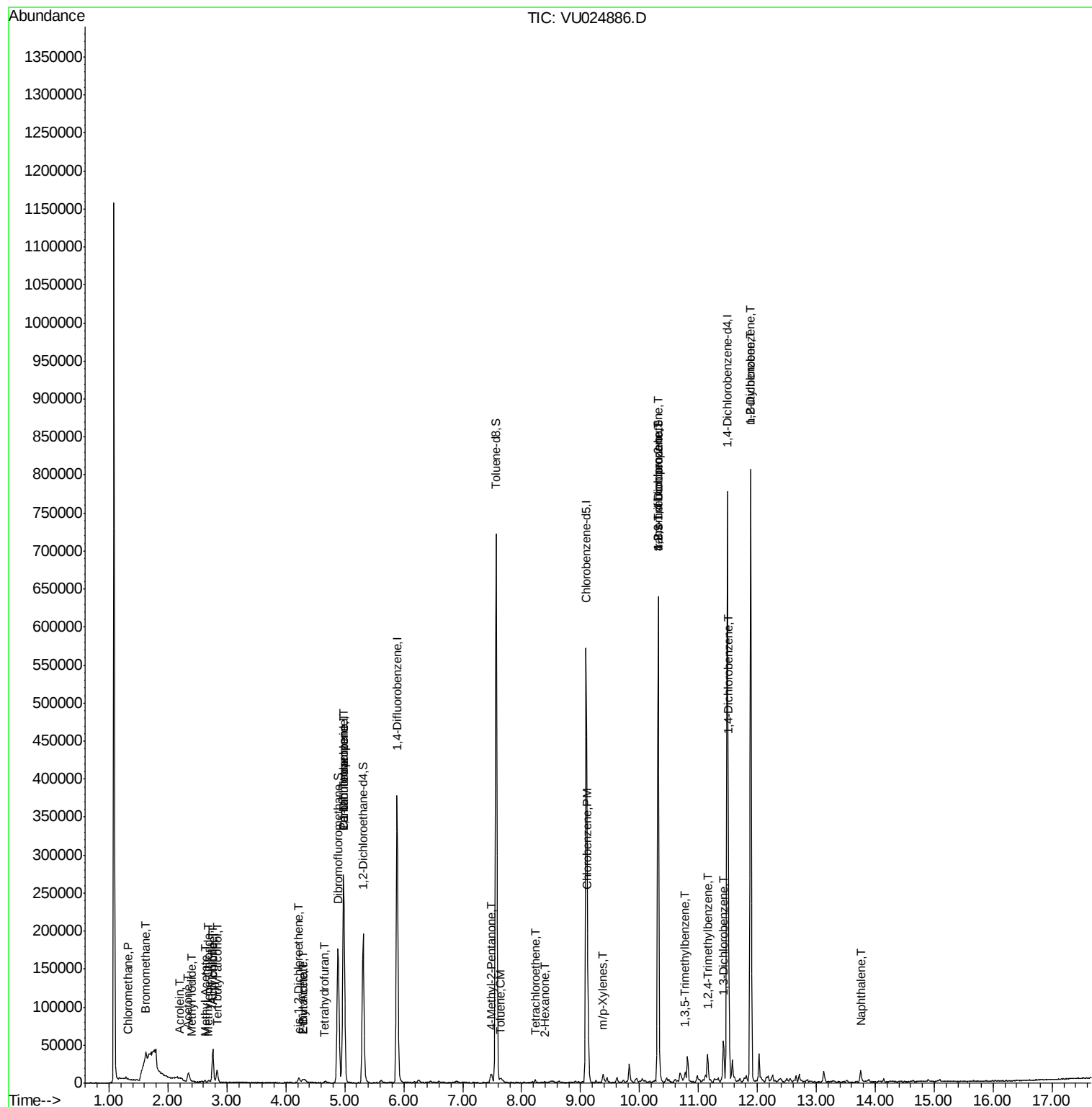
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|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062518\  
Data File : VU024886.D  
Acq On : 25 Jun 2018 19:46  
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Sample : J3663-02ME  
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Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

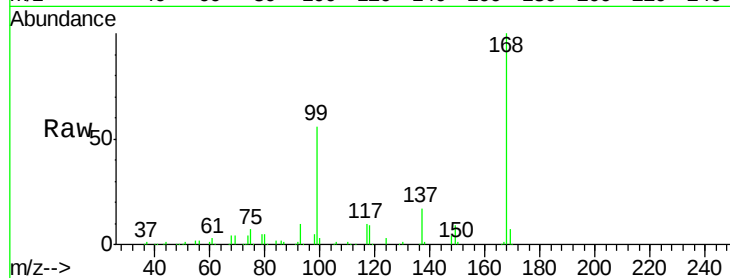
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:168 Resp: 220402

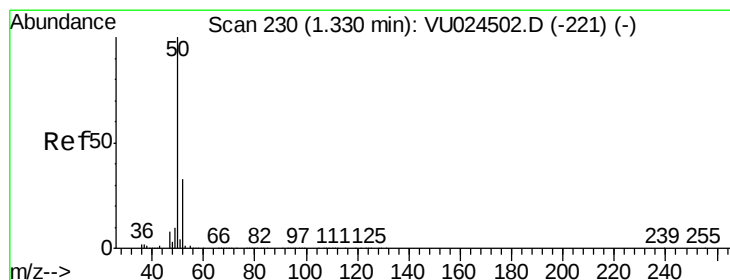
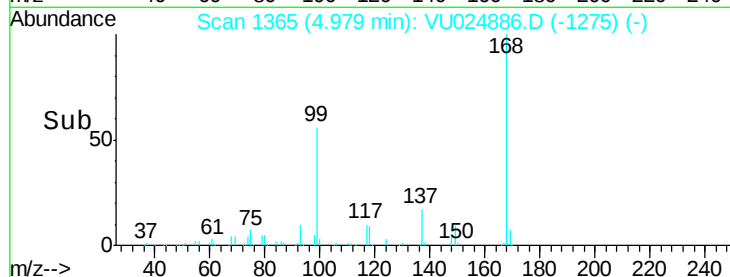
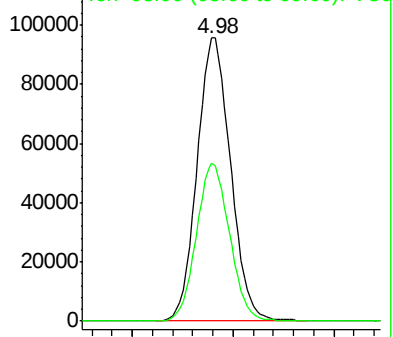
Ion Ratio Lower Upper

168 100

99 55.6 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.42 ug/l

RT: 1.32 min Scan# 227

Delta R.T. -0.01 min

Lab File: VU024886.D

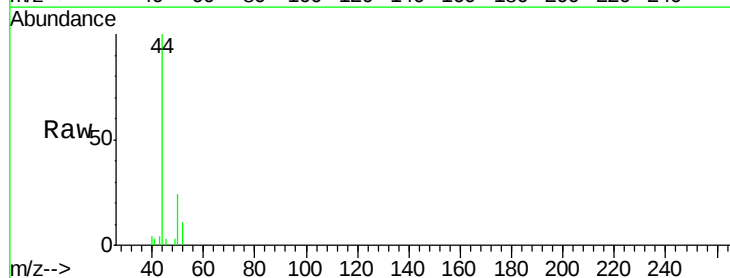
Acq: 25 Jun 2018 19:46

Tgt Ion: 50 Resp: 1187

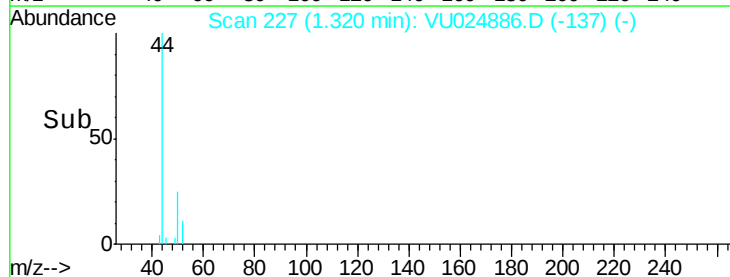
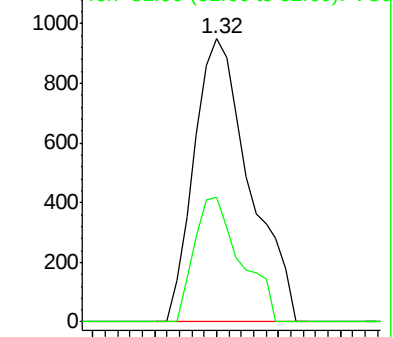
Ion Ratio Lower Upper

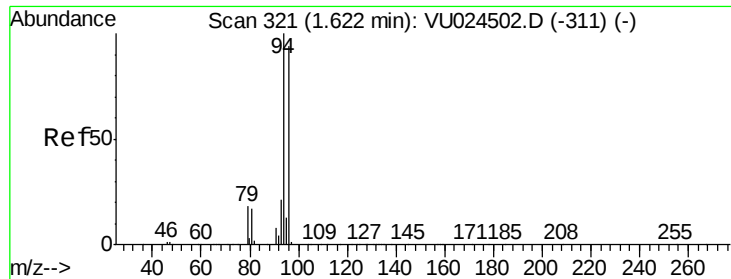
50 100

52 44.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.75 ug/l

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

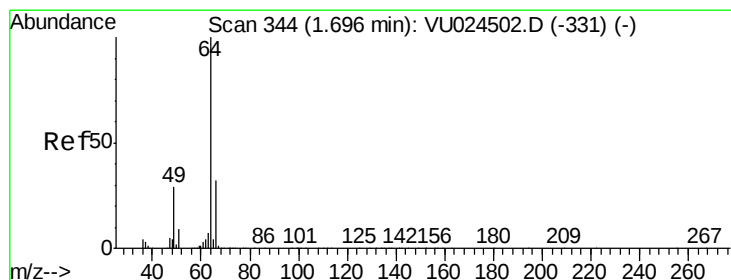
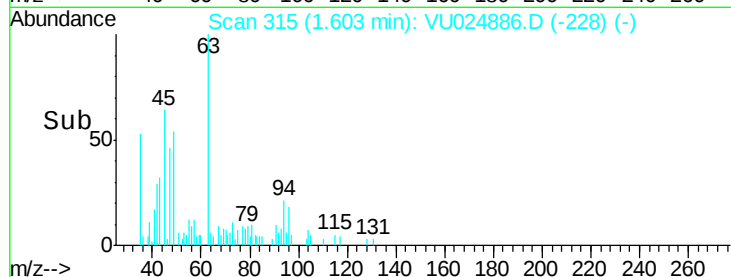
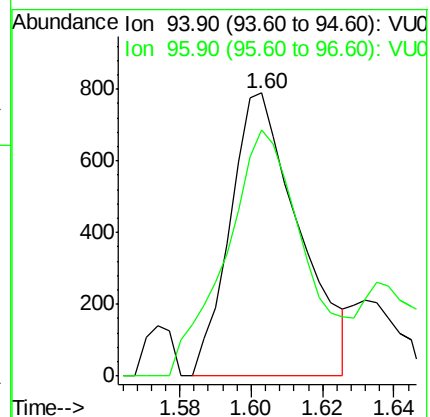
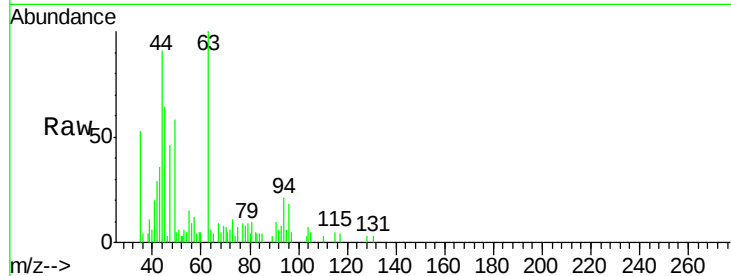
ClientSampleId :

Tot Ion: 94 Resp: 1054

Ion Ratio Lower Upper

94 100

96 68.4 74.5 111.7#



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU024886.D

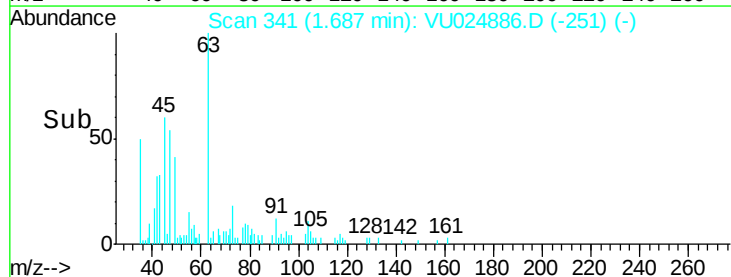
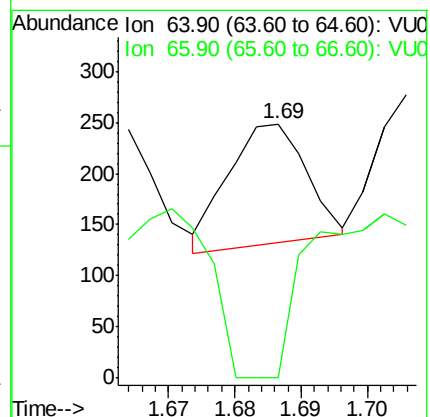
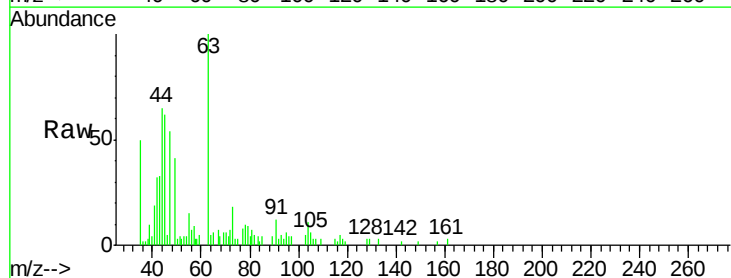
Acq: 25 Jun 2018 19:46

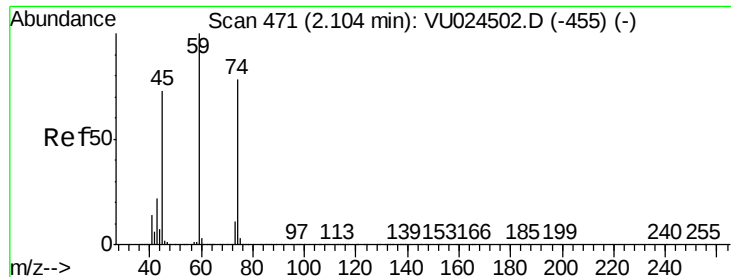
Tgt Ion: 64 Resp: 97

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 1.98 min Scan# 431

Delta R.T. -0.13 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

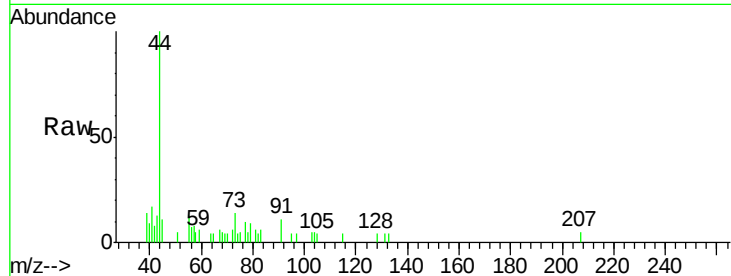
ClientSampleId :

Tot Ion: 74 Resp: 82

Ion Ratio Lower Upper

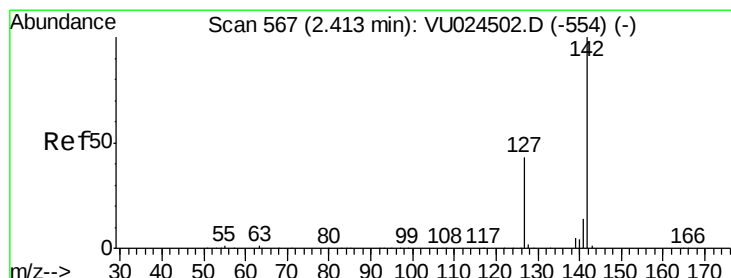
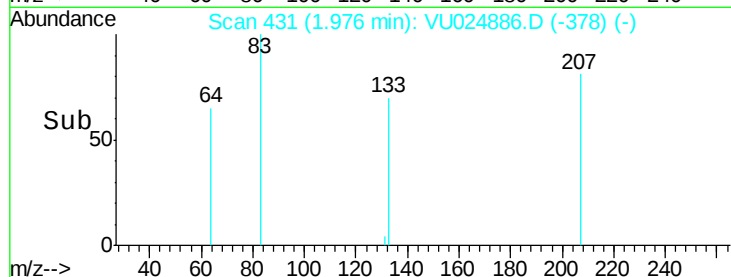
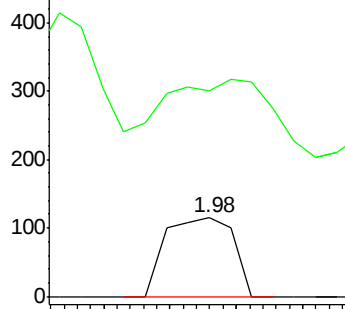
74 100

45 145.1 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



#10

Methyl Iodide

Concen: 5.30 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

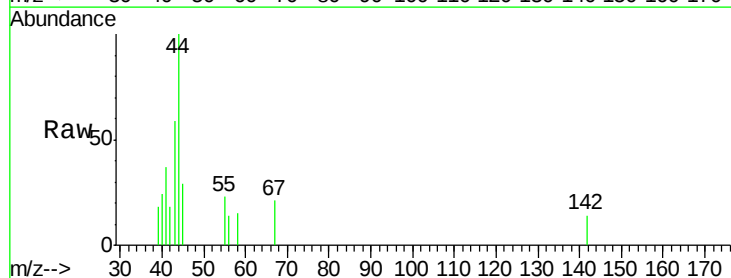
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 326.3 35.6 53.4#

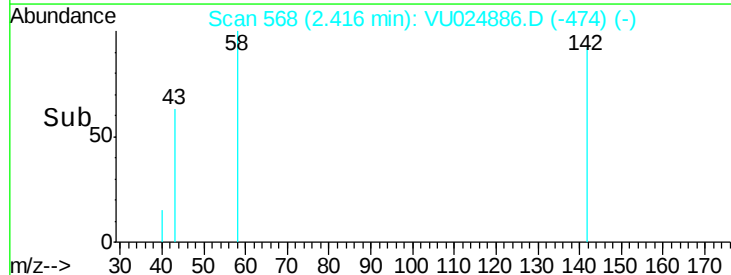
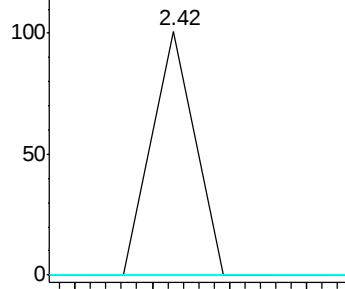
141 0.0 11.7 17.5#

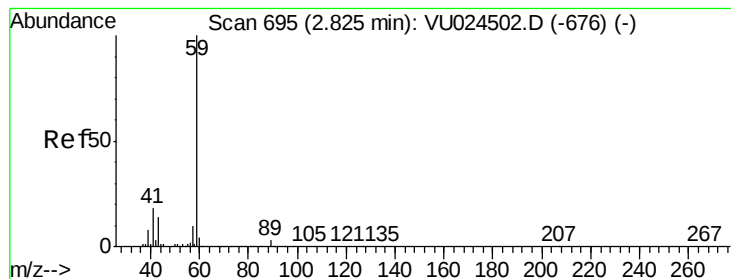


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



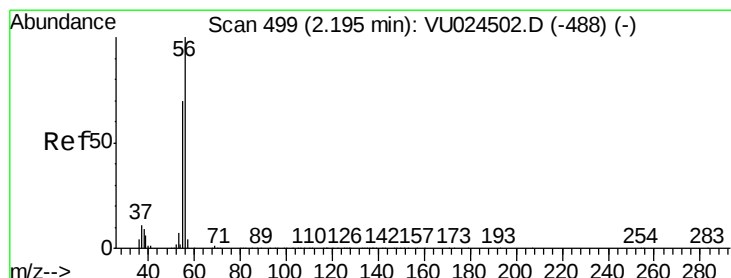
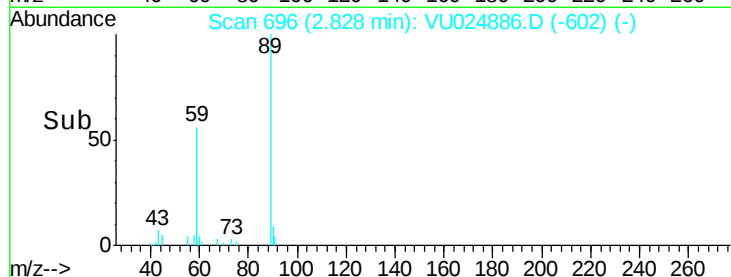
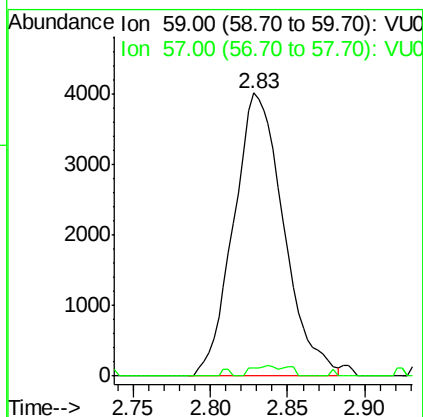
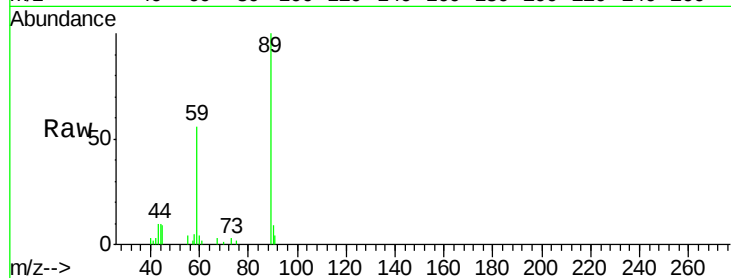


#11

Tert butyl alcohol  
 Concen: 10.31 ug/l  
 RT: 2.83 min Scan# 696  
 Delta R.T. 0.00 min  
 Lab File: VU024886.D  
 Acq: 25 Jun 2018 19:46

Instrument :  
 MSVOA\_U  
 ClientSampled :

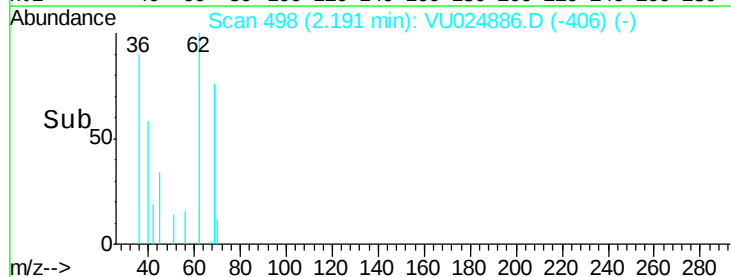
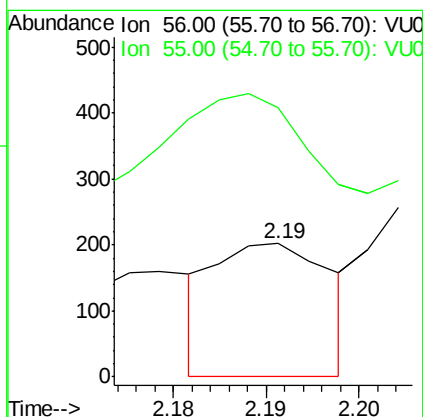
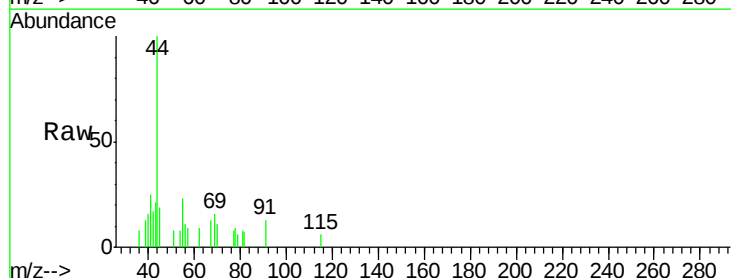
Tot Ion: 59 Resp: 9023  
 Ion Ratio Lower Upper  
 59 100  
 57 1.9 8.5 12.7#

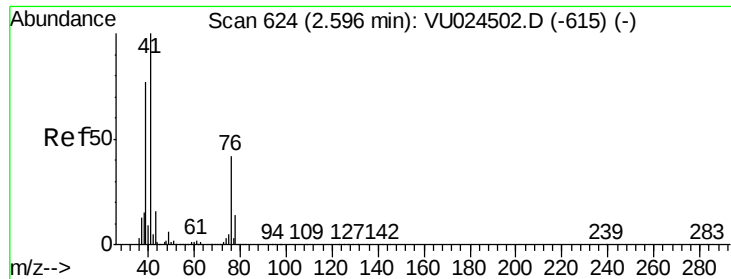


#13

Acrolein  
 Concen: 0.38 ug/l  
 RT: 2.19 min Scan# 498  
 Delta R.T. -0.00 min  
 Lab File: VU024886.D  
 Acq: 25 Jun 2018 19:46

Tgt Ion: 56 Resp: 174  
 Ion Ratio Lower Upper  
 56 100  
 55 78.7 58.4 87.6

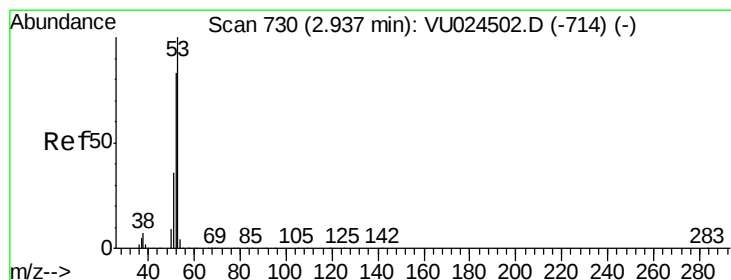
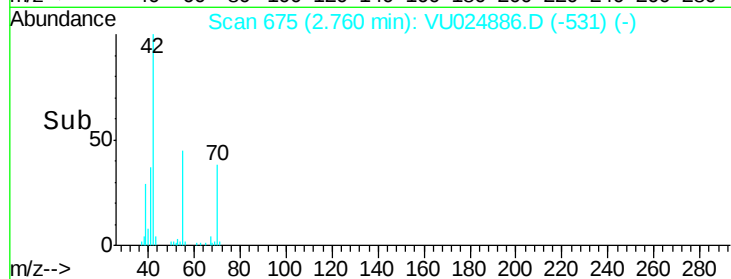
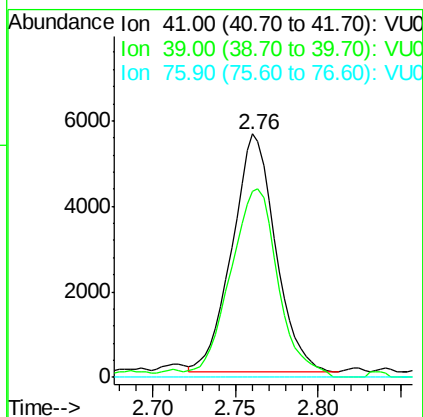
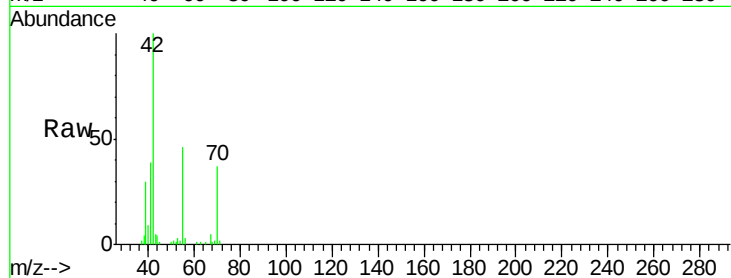




#14  
Allvl chloride  
Concen: 2.18 ug/l  
RT: 2.76 min Scan# 675  
Delta R.T. 0.16 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

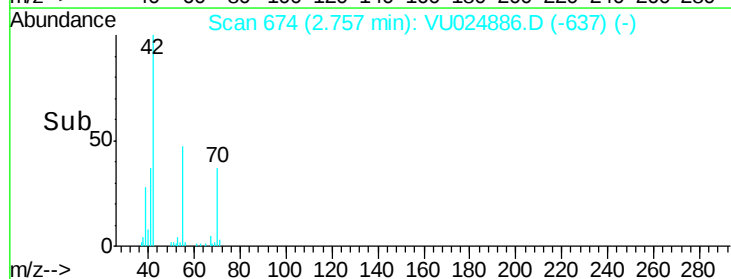
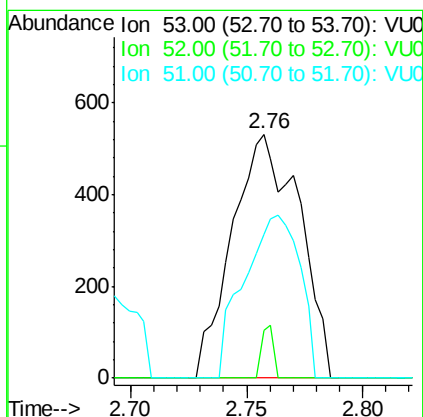
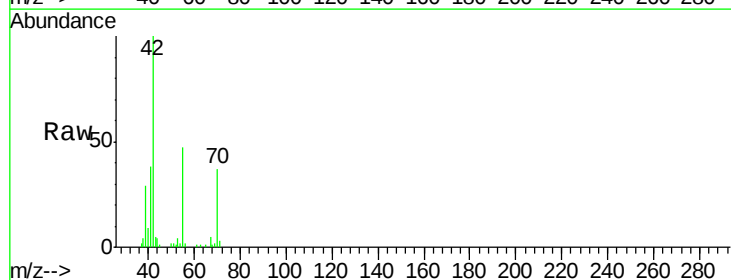
Instrument :  
MSVOA\_U  
ClientSampled :

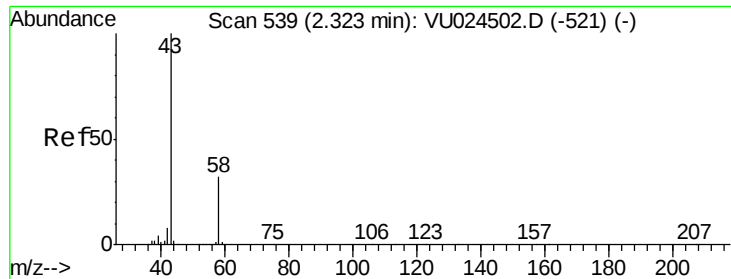
Tot Ion: 41 Resp: 10142  
Ion Ratio Lower Upper  
41 100  
39 87.3 61.6 92.4  
76 0.0 29.7 44.5#



#15  
Acrylonitrile  
Concen: 0.63 ug/l  
RT: 2.76 min Scan# 674  
Delta R.T. -0.18 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

Tgt Ion: 53 Resp: 1067  
Ion Ratio Lower Upper  
53 100  
52 3.9 67.1 100.7#  
51 55.5 28.4 42.6#





#16

Acetone

Concen: 8.31 ug/l

RT: 2.34 min Scan# 545

Delta R.T. 0.02 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

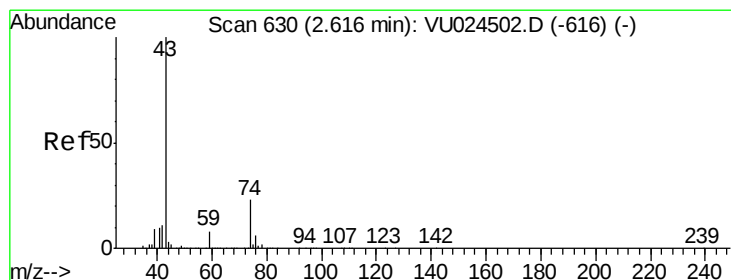
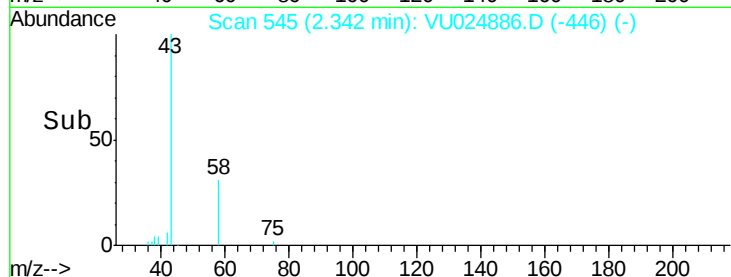
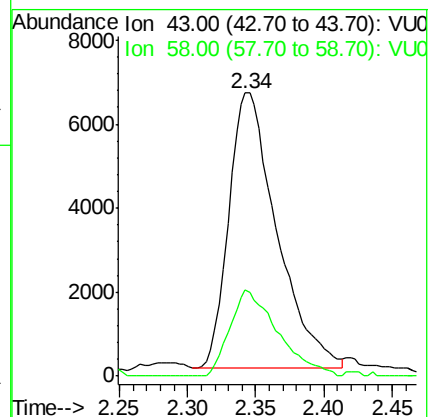
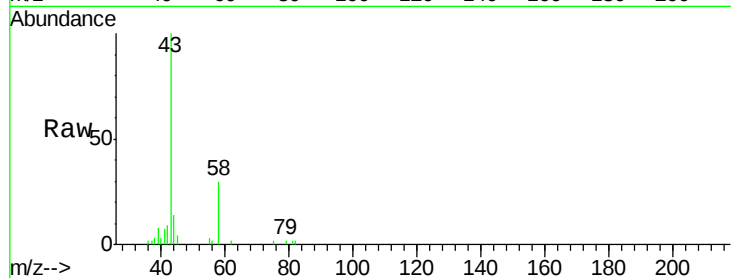
ClientSampleId :

Tot Ion: 43 Resp: 16058

Ion Ratio Lower Upper

43 100

58 31.2 24.4 36.6



#18

Methyl Acetate

Concen: 0.47 ug/l

RT: 2.63 min Scan# 634

Delta R.T. 0.01 min

Lab File: VU024886.D

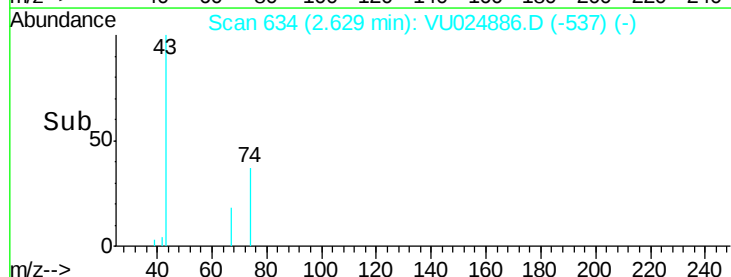
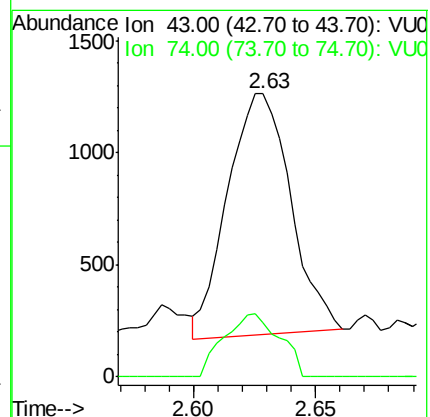
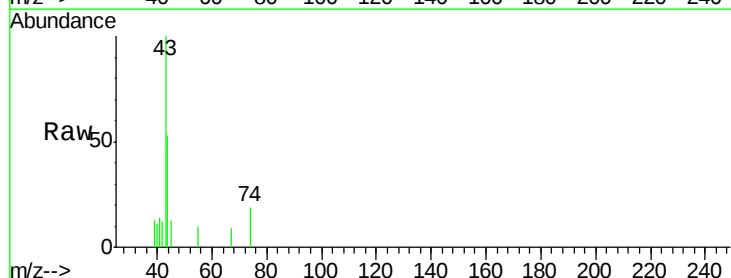
Acq: 25 Jun 2018 19:46

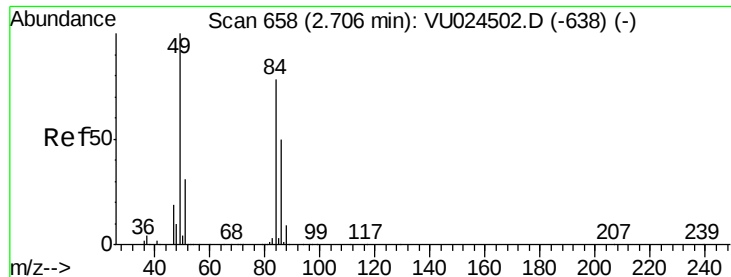
Tgt Ion: 43 Resp: 1933

Ion Ratio Lower Upper

43 100

74 23.2 18.0 27.0





#20

Methylene Chloride

Concen: 0.22 ug/l

RT: 2.68 min Scan# 649

Delta R.T. -0.03 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 84 Resp: 681

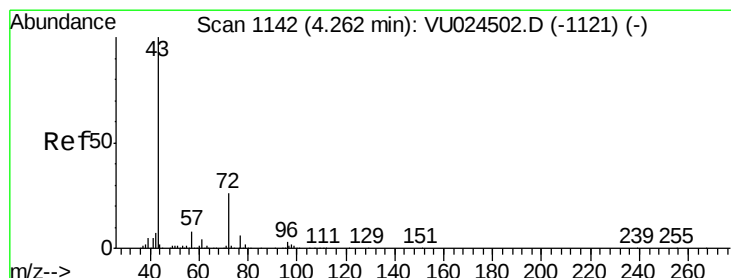
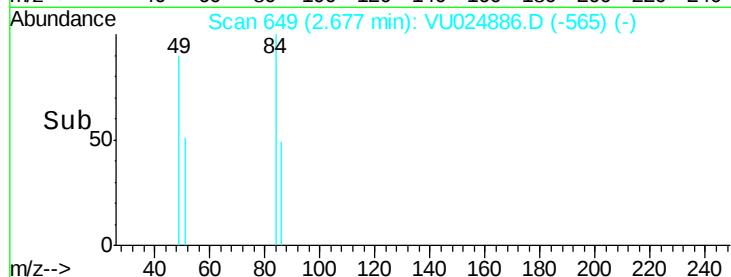
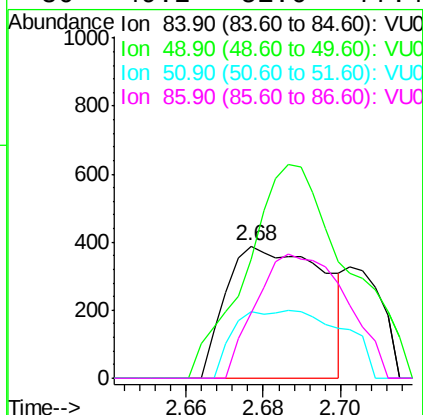
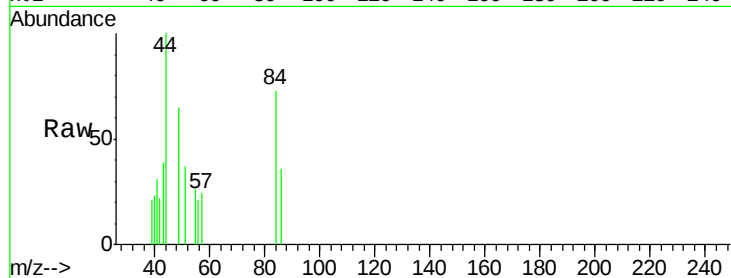
Ion Ratio Lower Upper

84 100

49 89.9 103.8 155.8#

51 50.5 32.0 48.0#

86 49.2 51.6 77.4#



#25

2-Butanone

Concen: 3.15 ug/l

RT: 4.29 min Scan# 1150

Delta R.T. 0.03 min

Lab File: VU024886.D

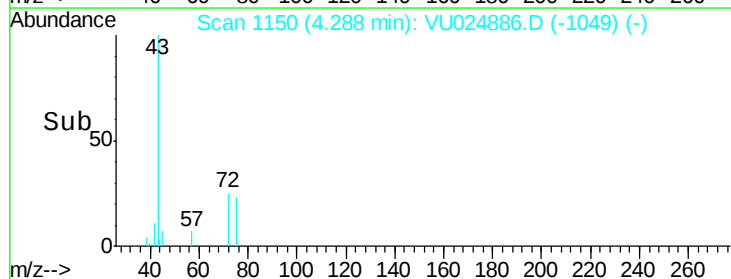
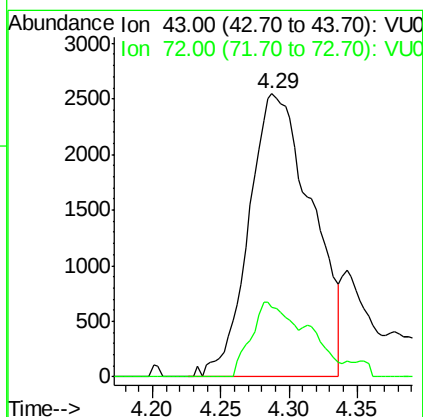
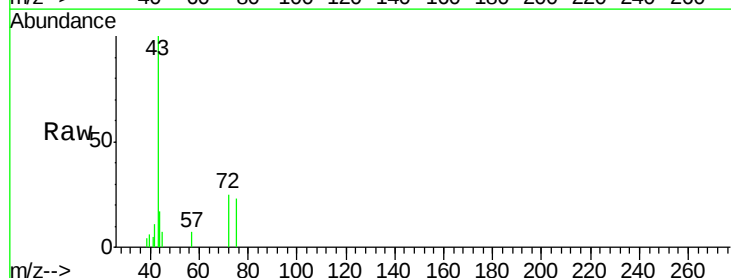
Acq: 25 Jun 2018 19:46

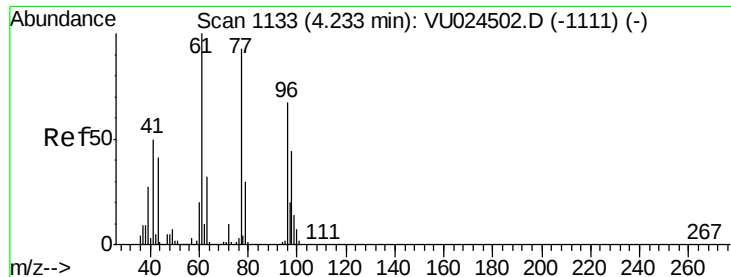
Tgt Ion: 43 Resp: 8188

Ion Ratio Lower Upper

43 100

72 24.7 19.6 29.4

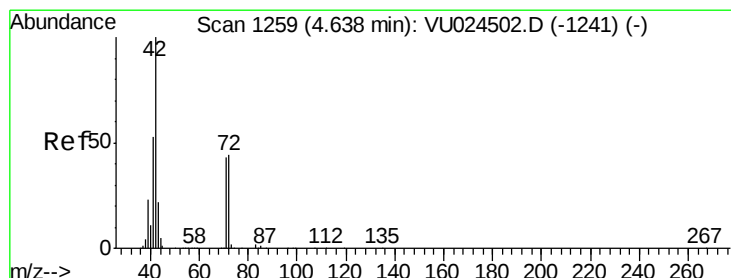
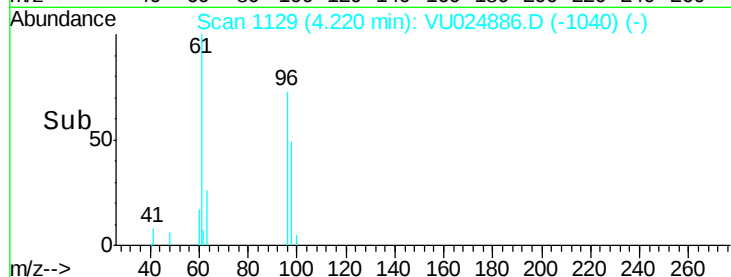
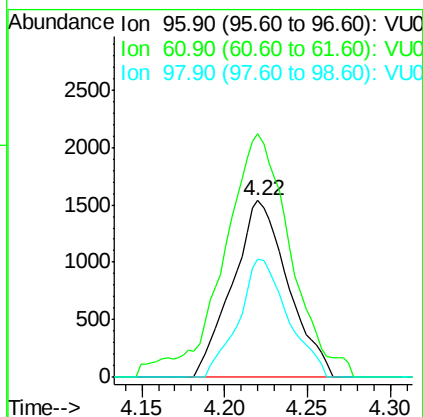
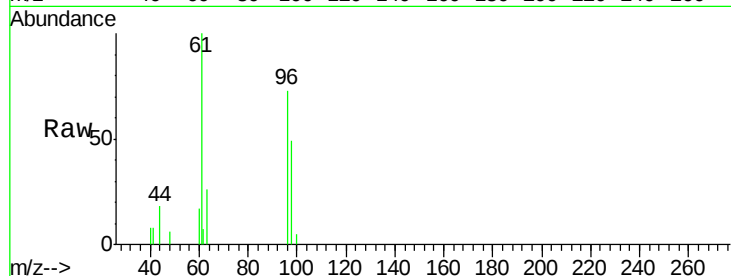




#27  
 cis-1,2-Dichloroethene  
 Concen: 1.13 ug/l  
 RT: 4.22 min Scan# 1129  
 Delta R.T. -0.01 min  
 Lab File: VU024886.D  
 Acq: 25 Jun 2018 19:46

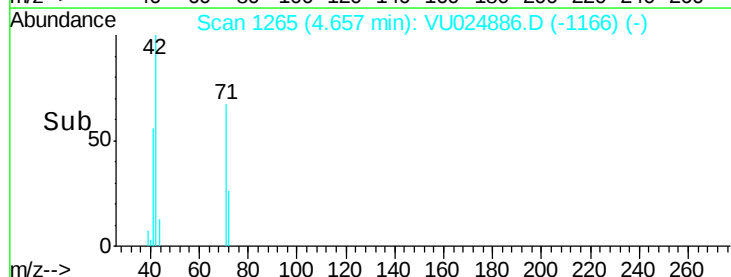
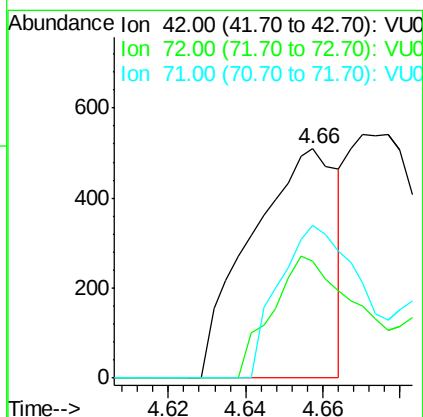
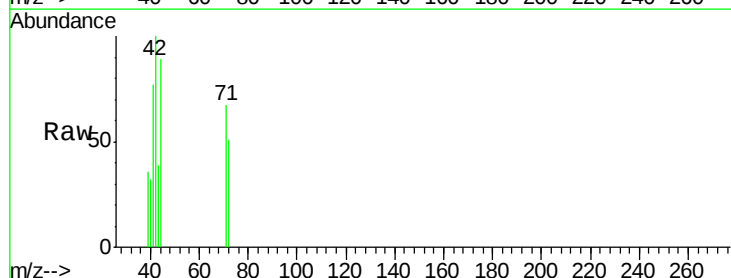
Instrument :  
 MSVOA\_U  
 ClientSampleId :

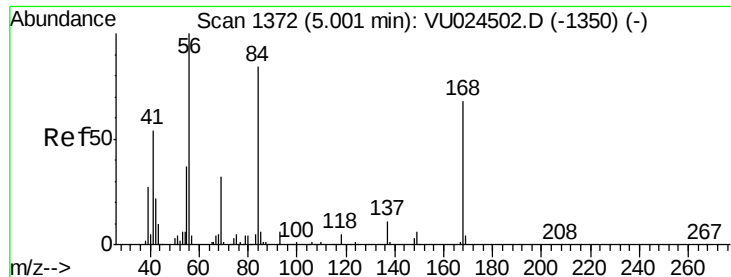
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 165.0 | 0.0   | 306.6 |
| 98      | 58.9  | 0.0   | 128.8 |



#29  
 Tetrahydrofuran  
 Concen: 0.49 ug/l  
 RT: 4.66 min Scan# 1265  
 Delta R.T. 0.02 min  
 Lab File: VU024886.D  
 Acq: 25 Jun 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 51.8  | 34.5  | 51.7# |
| 71      | 63.5  | 32.2  | 48.4# |

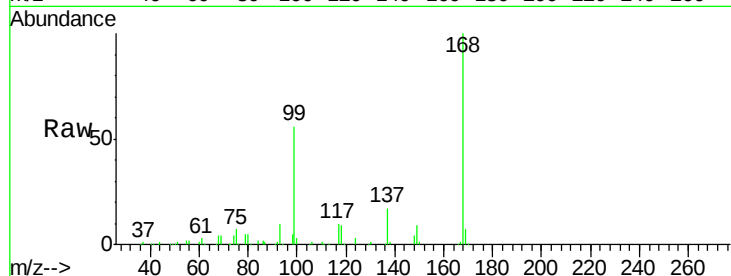




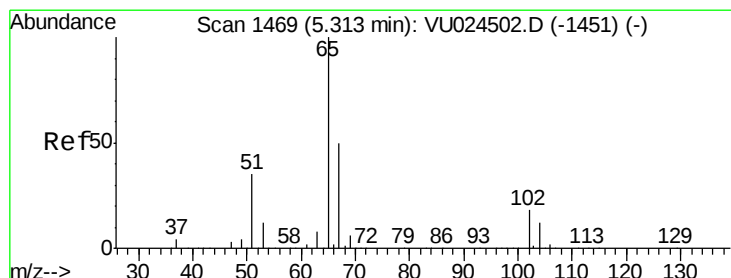
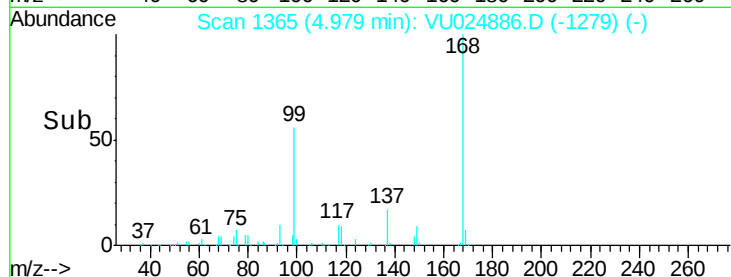
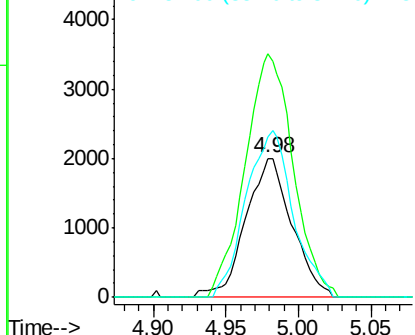
#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.98 min Scan# 1365  
Delta R.T. -0.02 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 56 Resp: 4463  
Ion Ratio Lower Upper  
56 100  
69 174.9 24.8 37.2#  
84 115.1 65.2 97.8#

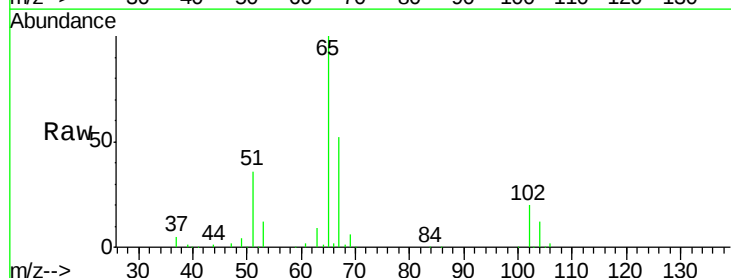


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

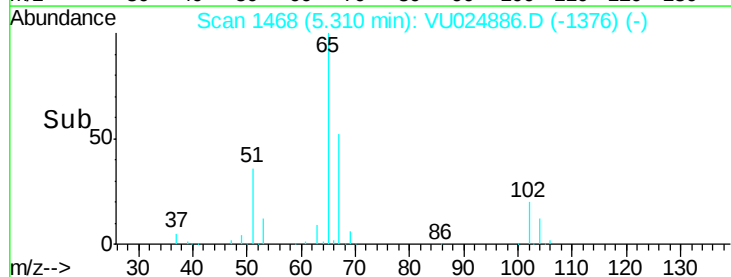
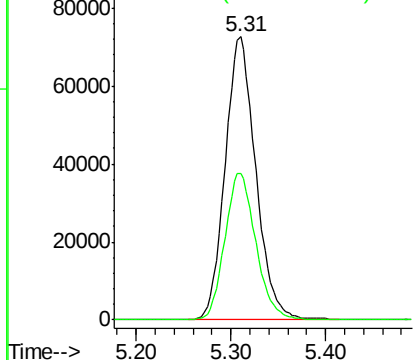


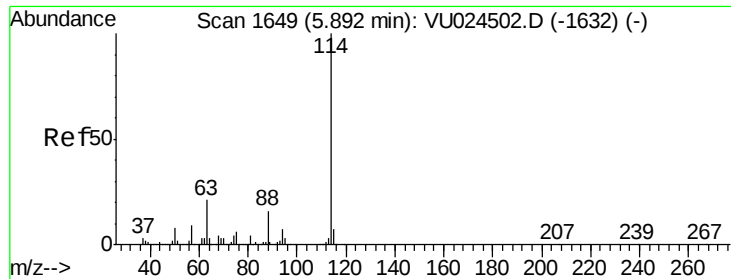
#33  
1,2-Dichloroethane-d4  
Concen: 45.43 ug/l  
RT: 5.31 min Scan# 1468  
Delta R.T. -0.00 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

Tgt Ion: 65 Resp: 163458  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

ClientSampleId :

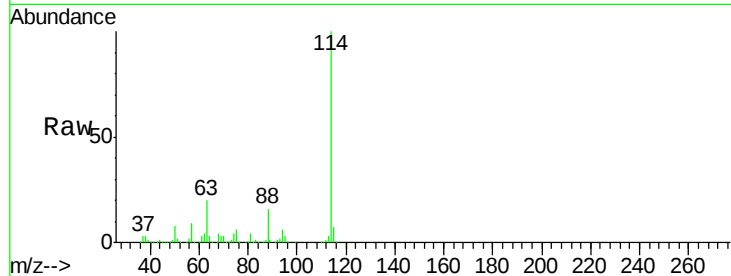
Tot Ion:114 Resp: 337910

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.4

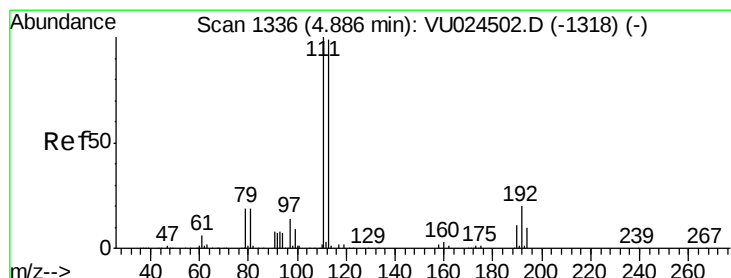
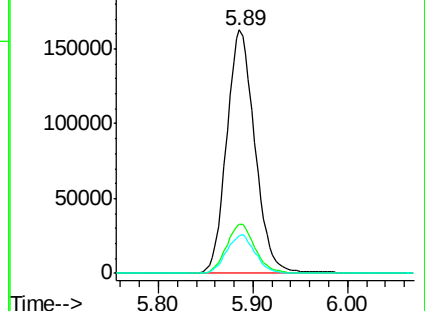
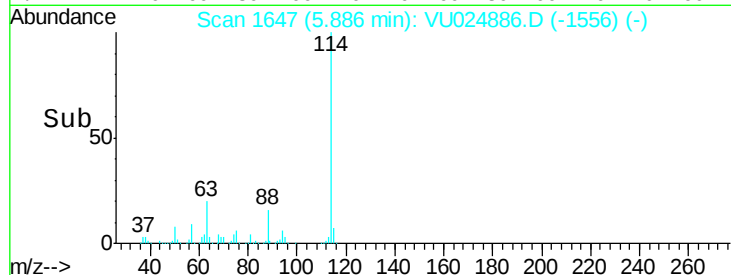
88 15.5 0.0 31.0



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: 46.31 ug/l

RT: 4.88 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

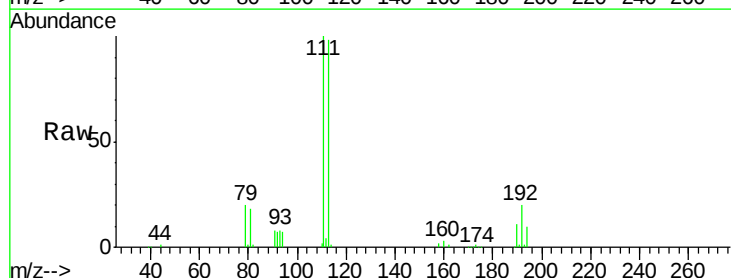
Tgt Ion:113 Resp: 129875

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

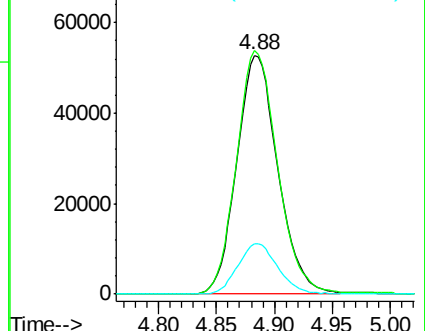
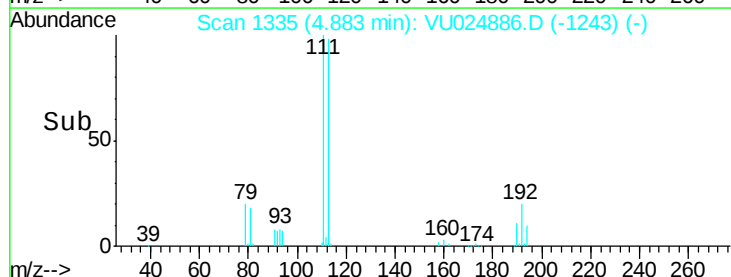
192 20.6 16.2 24.4

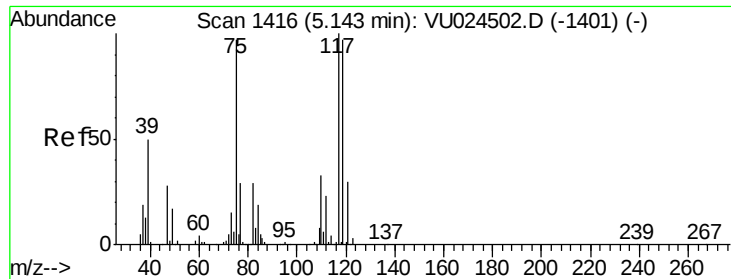


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.08 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

ClientSampleId :

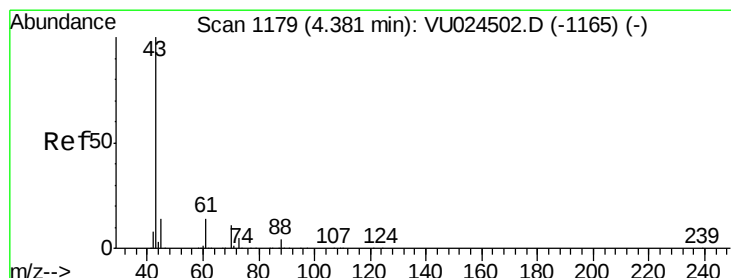
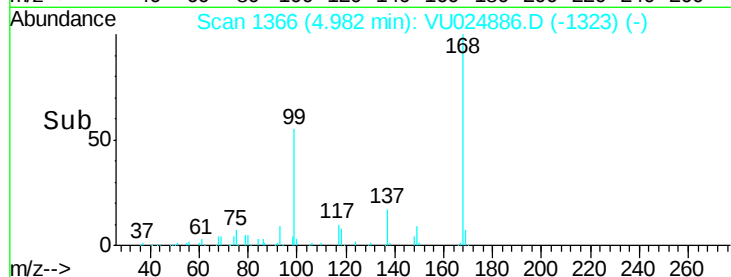
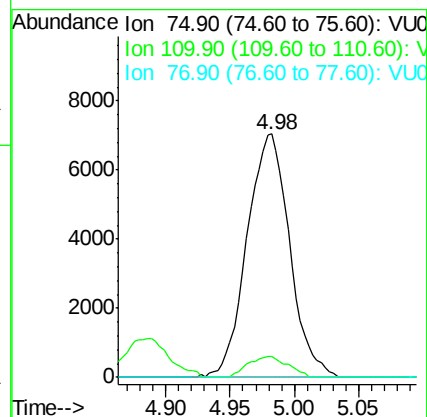
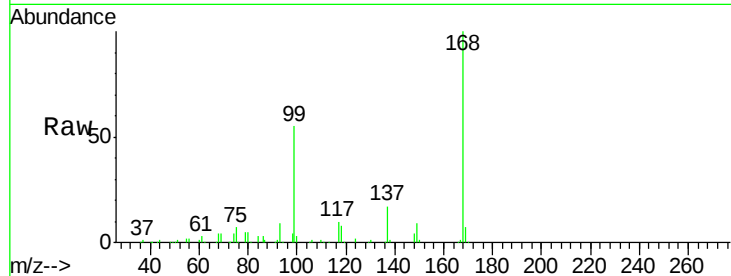
Tot Ion: 75 Resp: 16192

Ion Ratio Lower Upper

75 100

110 8.1 17.0 50.9#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 1.89 ug/l

RT: 4.29 min Scan# 1150

Delta R.T. -0.09 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

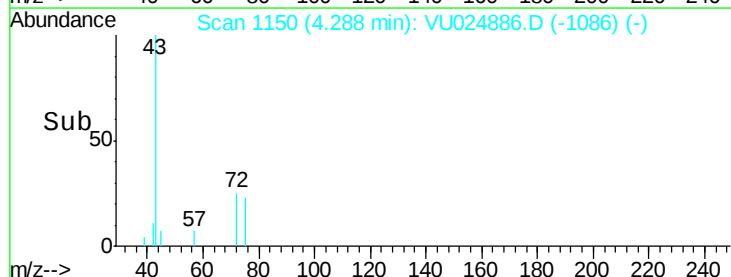
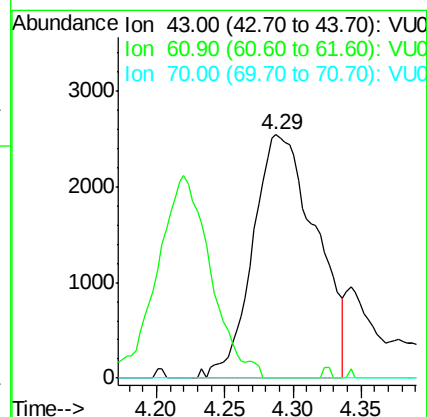
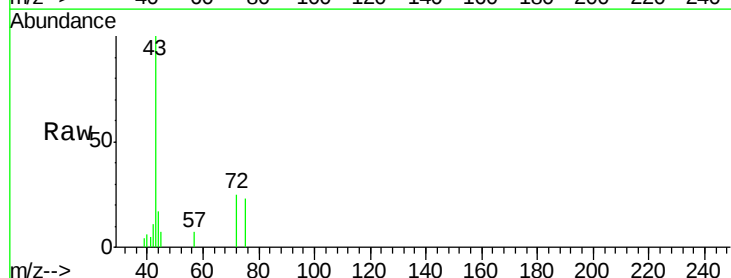
Tgt Ion: 43 Resp: 8188

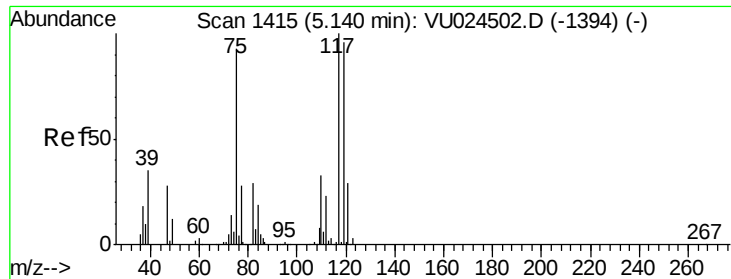
Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

70 0.0 7.4 11.2#





#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

ClientSampleId :

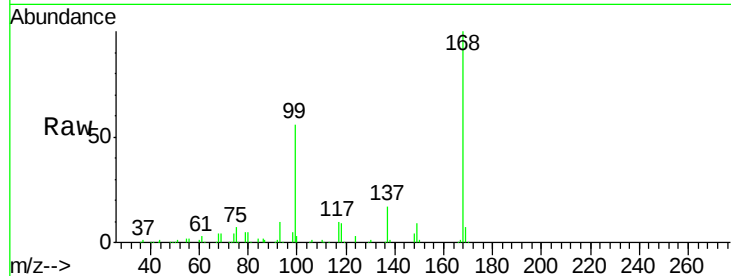
Tot Ion:117 Resp: 21971

Ion Ratio Lower Upper

117 100

119 3.9 76.1 114.1#

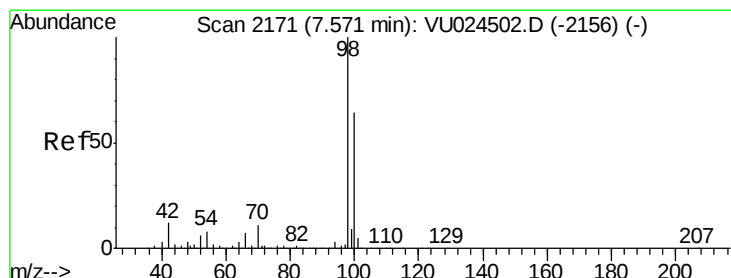
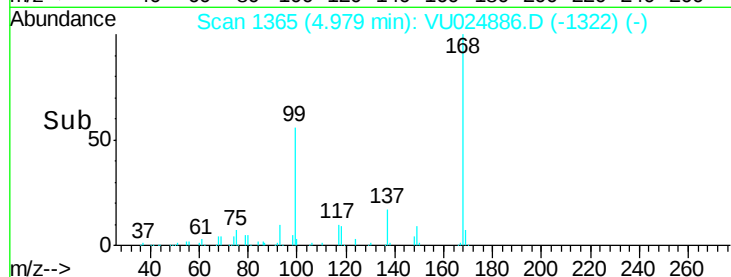
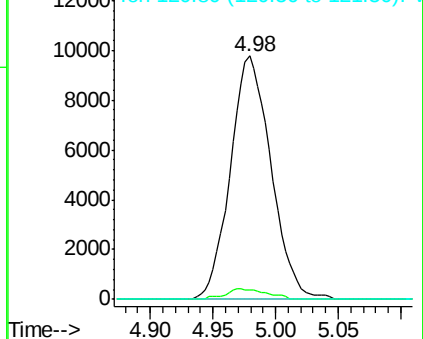
121 0.0 23.7 35.5#



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: 48.20 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024886.D

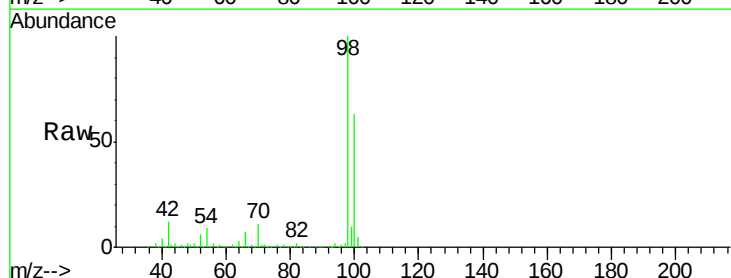
Acq: 25 Jun 2018 19:46

Tgt Ion: 98 Resp: 493085

Ion Ratio Lower Upper

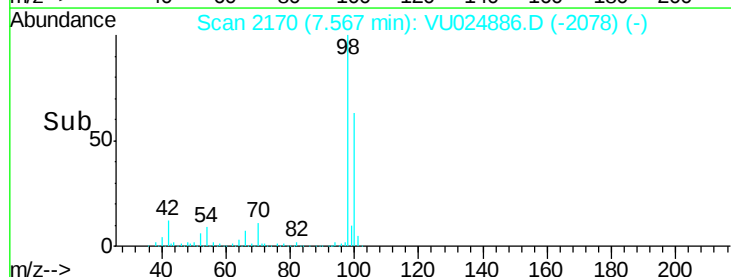
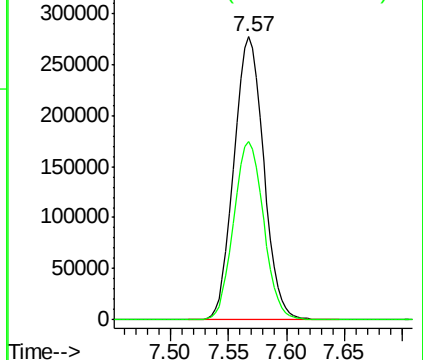
98 100

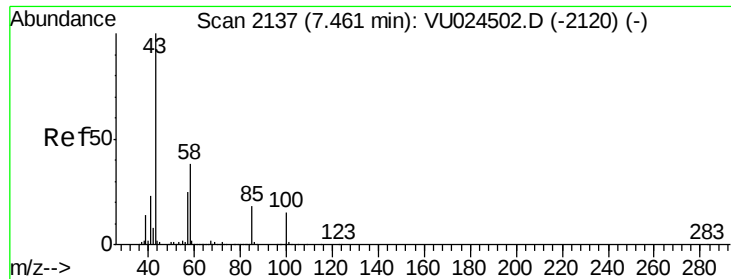
100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 2.40 ug/l

RT: 7.48 min Scan# 2144

Delta R.T. 0.02 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

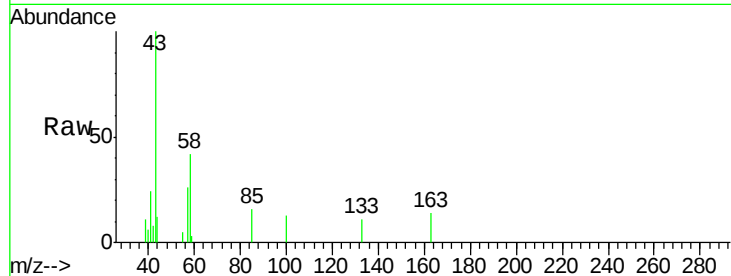
ClientSampleId :

Tot Ion: 43 Resp: 11282

Ion Ratio Lower Upper

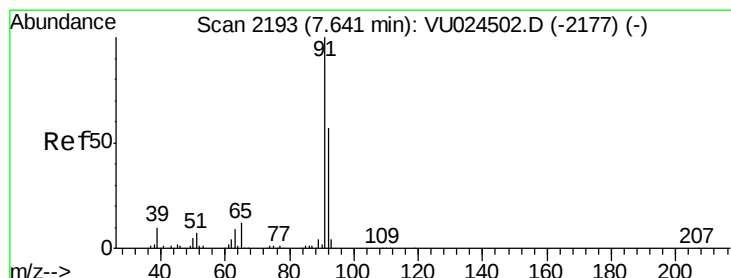
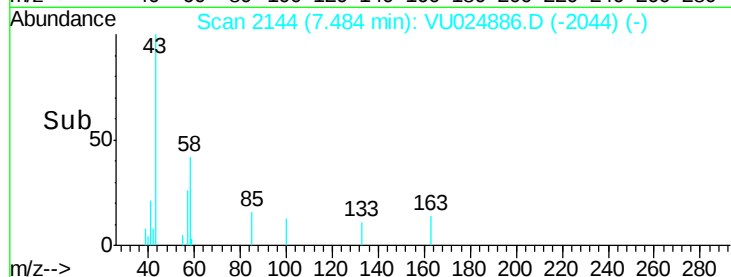
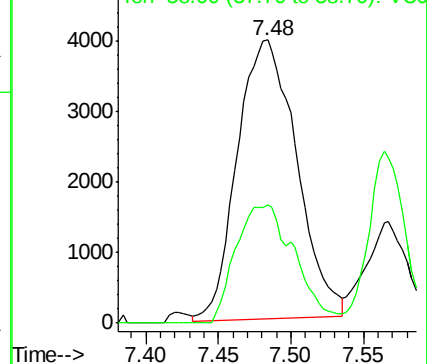
43 100

58 41.9 30.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 0.30 ug/l

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU024886.D

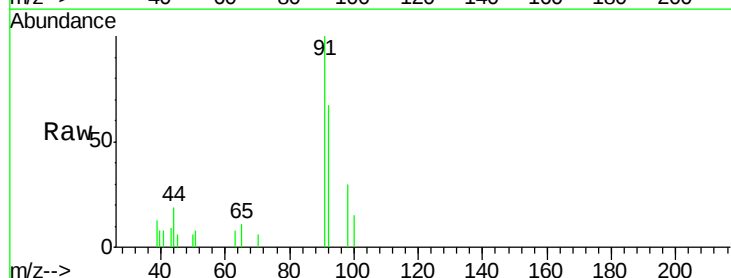
Acq: 25 Jun 2018 19:46

Tgt Ion: 92 Resp: 2170

Ion Ratio Lower Upper

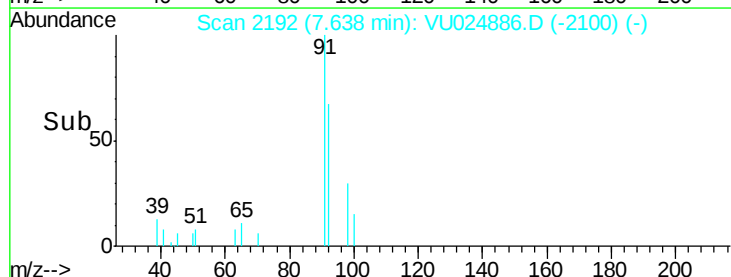
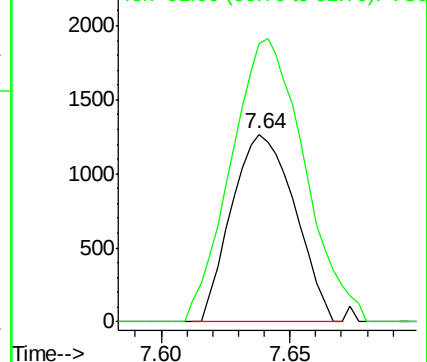
92 100

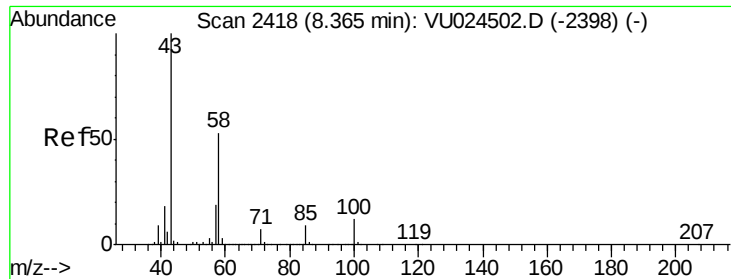
91 174.9 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

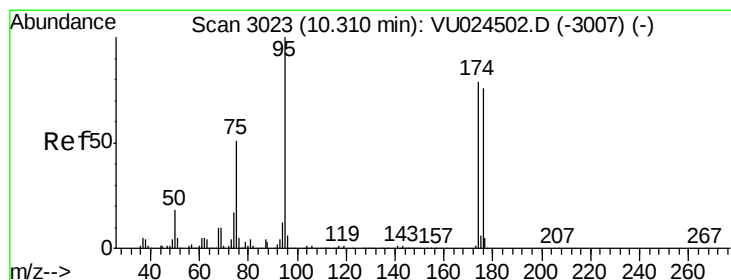
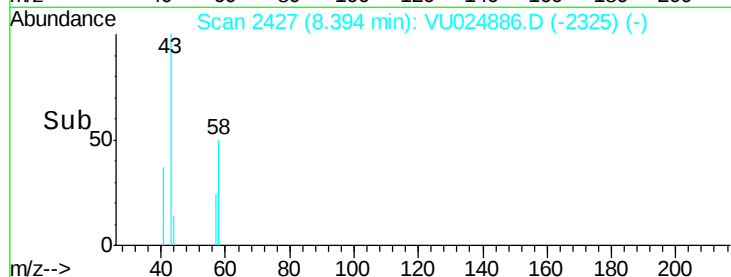
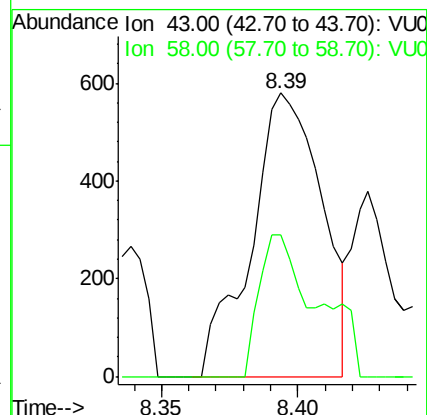
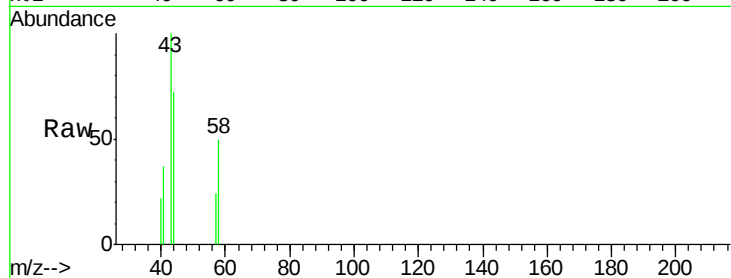




#59  
2-Hexanone  
Concen: 0.27 ug/l  
RT: 8.39 min Scan# 2427  
Delta R.T. 0.03 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

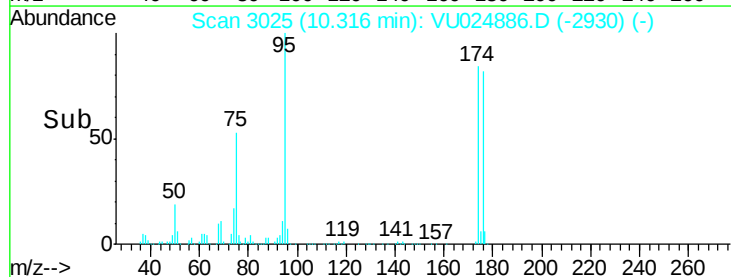
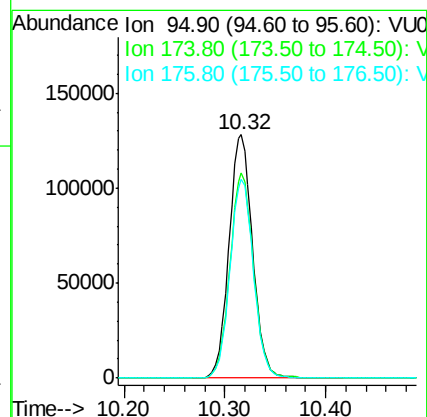
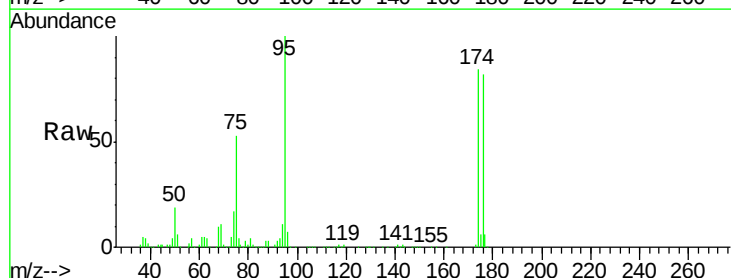
Instrument :  
MSVOA\_U  
ClientSampleId :

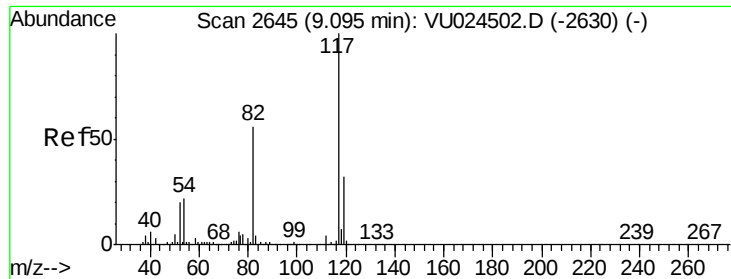
Tot Ion: 43 Resp: 1045  
Ion Ratio Lower Upper  
43 100  
58 30.0 26.4 79.0



#62  
4-Bromofluorobenzene  
Concen: 51.53 ug/l  
RT: 10.32 min Scan# 3025  
Delta R.T. 0.01 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

Tgt Ion: 95 Resp: 209293  
Ion Ratio Lower Upper  
95 100  
174 84.2 0.0 165.8  
176 81.3 0.0 159.4

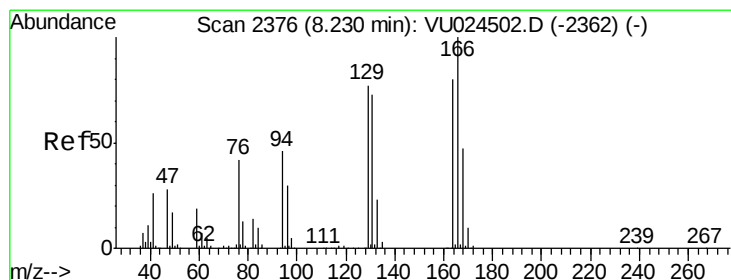
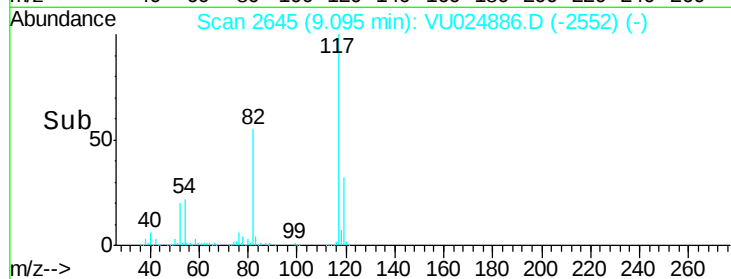
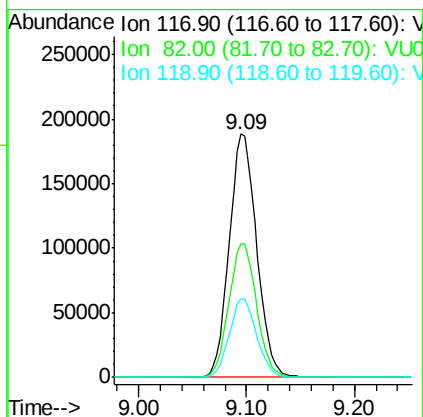
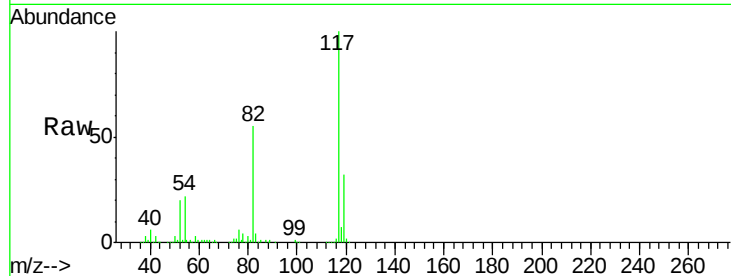




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

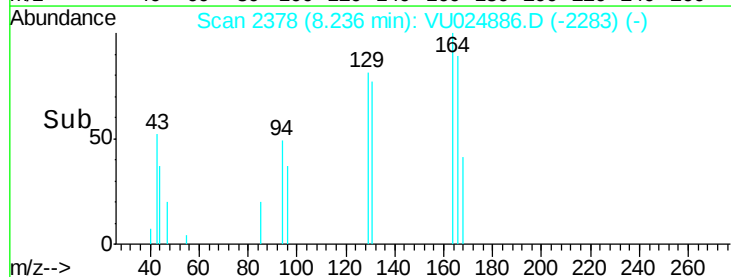
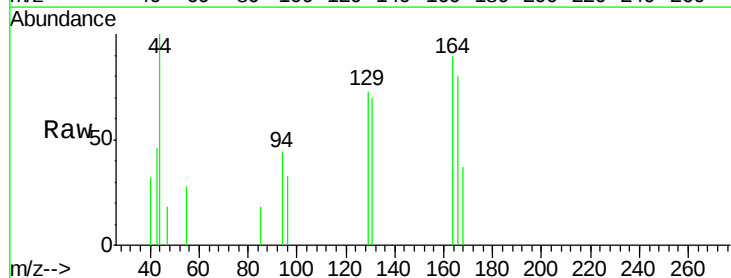
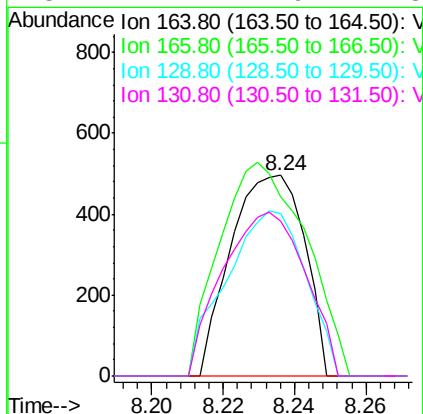
Instrument :  
MSVOA\_U  
ClientSampleId :

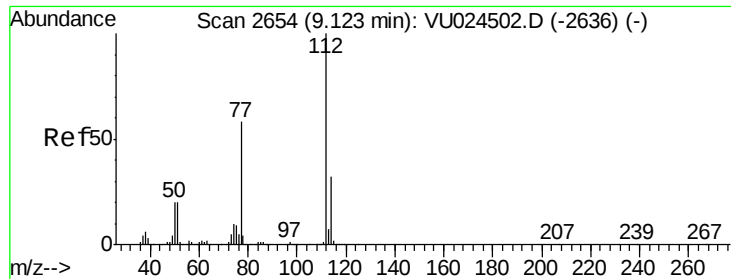
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.9  | 44.3  | 66.5  |
| 119     | 32.3  | 25.4  | 38.2  |



#64  
Tetrachloroethene  
Concen: 0.22 ug/l  
RT: 8.24 min Scan# 2378  
Delta R.T. 0.01 min  
Lab File: VU024886.D  
Acq: 25 Jun 2018 19:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 89.1  | 101.7 | 152.5# |
| 129     | 81.3  | 76.9  | 115.3  |
| 131     | 77.4  | 74.9  | 112.3  |





#65

Chlorobenzene

Concen: 5.79 ug/l

RT: 9.13 min Scan# 2655

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

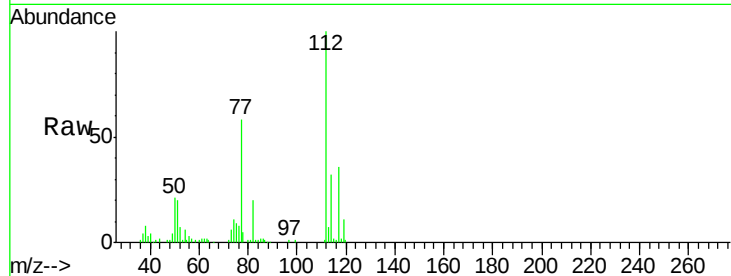
ClientSampleId :

Tot Ion:112 Resp: 49487

Ion Ratio Lower Upper

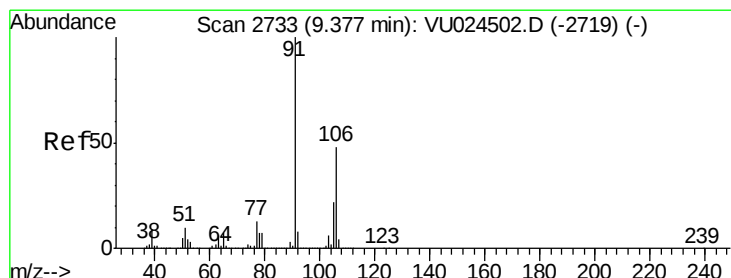
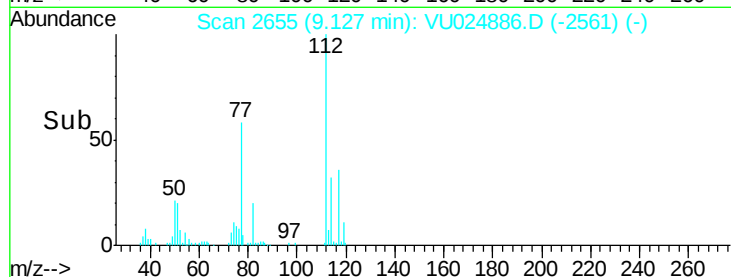
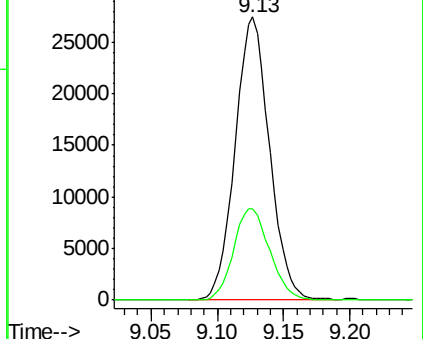
112 100

114 32.4 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#68

m/p-Xylenes

Concen: 0.55 ug/l

RT: 9.38 min Scan# 2735

Delta R.T. 0.01 min

Lab File: VU024886.D

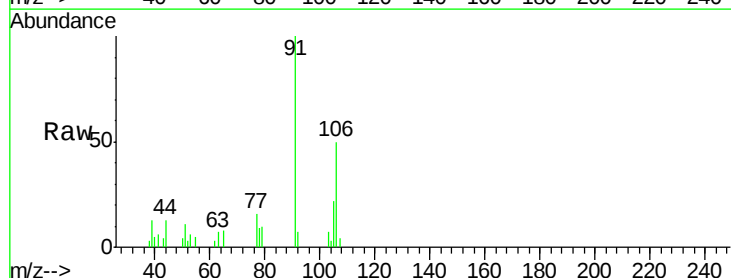
Acq: 25 Jun 2018 19:46

Tgt Ion:106 Resp: 3147

Ion Ratio Lower Upper

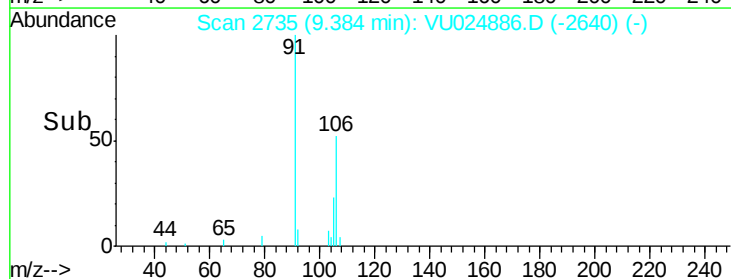
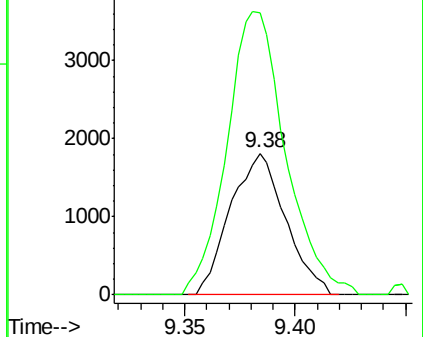
106 100

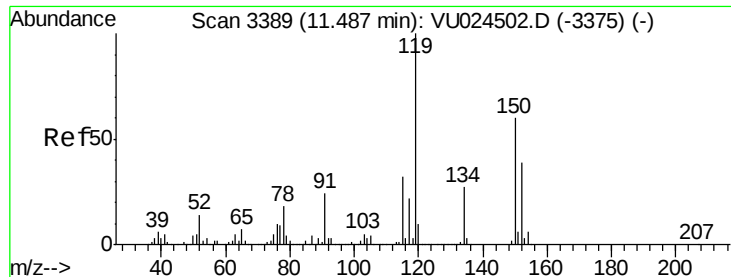
91 213.3 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

ClientSampled :

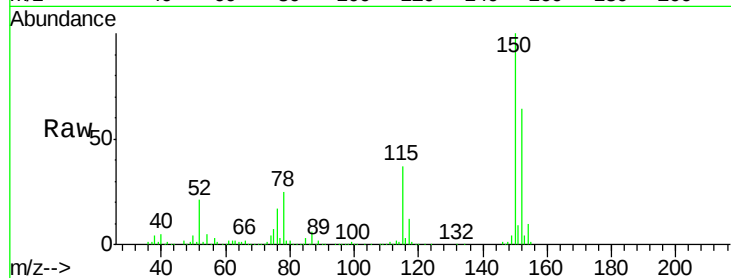
Tot Ion:152 Resp: 196817

Ion Ratio Lower Upper

152 100

115 58.1 43.0 129.0

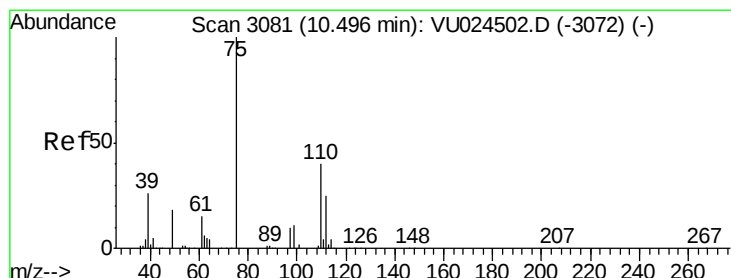
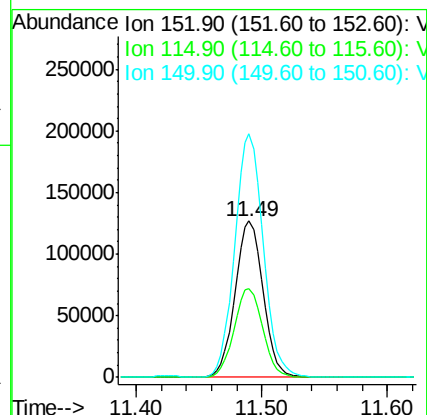
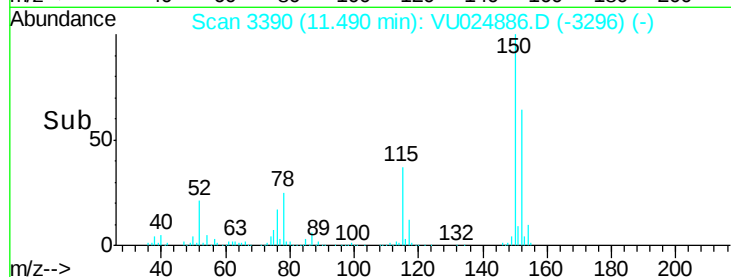
150 158.3 0.0 354.0



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



#76

1,2,3-Trichloropropane

Concen: 25.29 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU024886.D

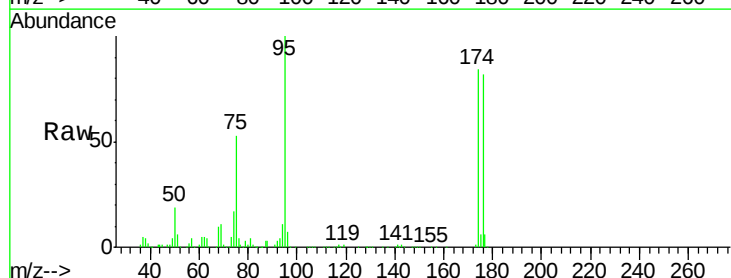
Acq: 25 Jun 2018 19:46

Tgt Ion: 75 Resp: 109573

Ion Ratio Lower Upper

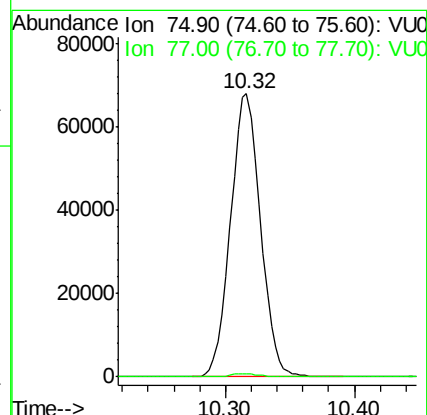
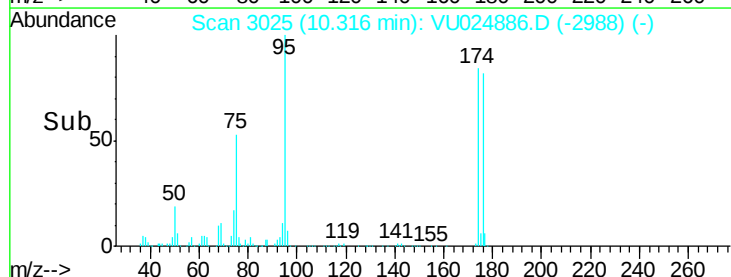
75 100

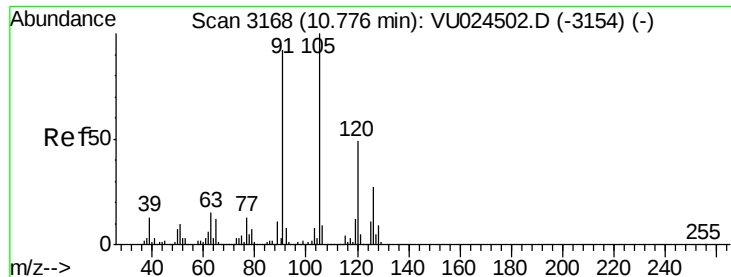
77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.56 ug/l

RT: 10.78 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

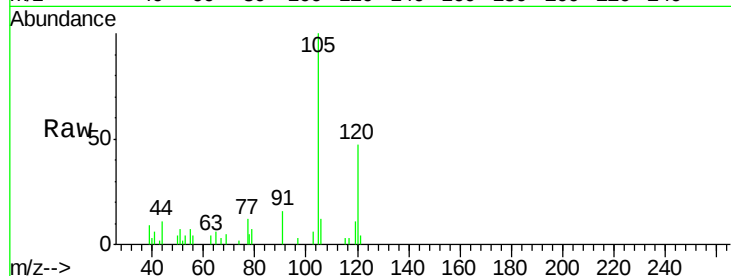
ClientSampled :

Tot Ion:105 Resp: 7279

Ion Ratio Lower Upper

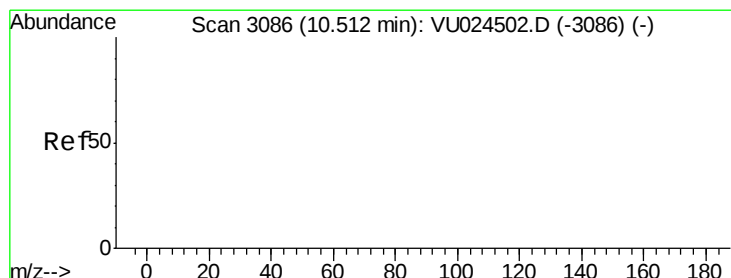
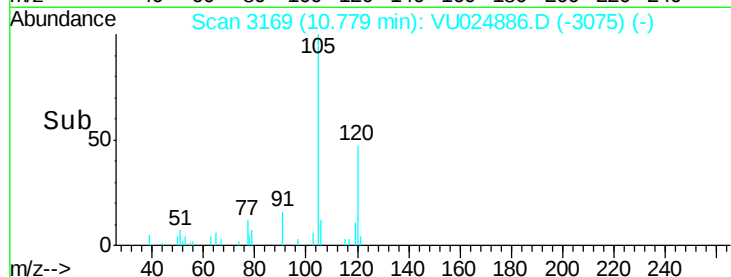
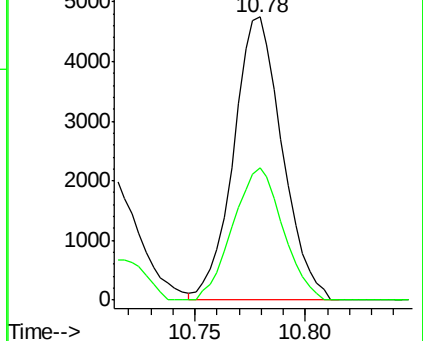
105 100

120 47.8 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 58.52 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.20 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

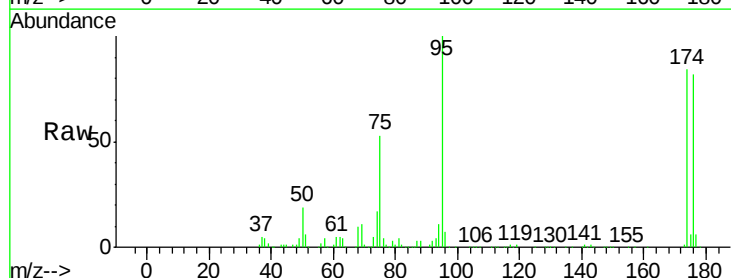
Tgt Ion: 75 Resp: 109573

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

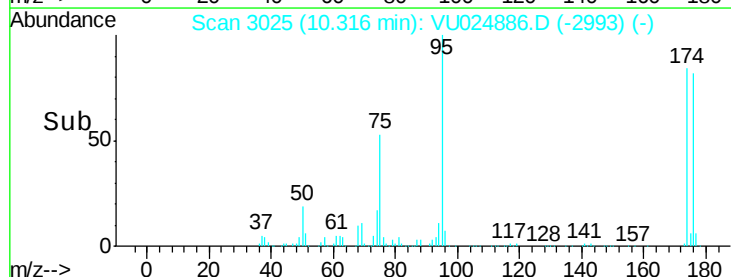
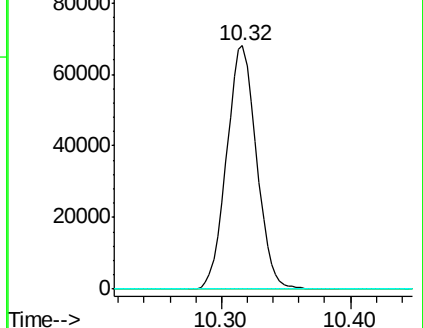
89 0.0 0.0 0.0

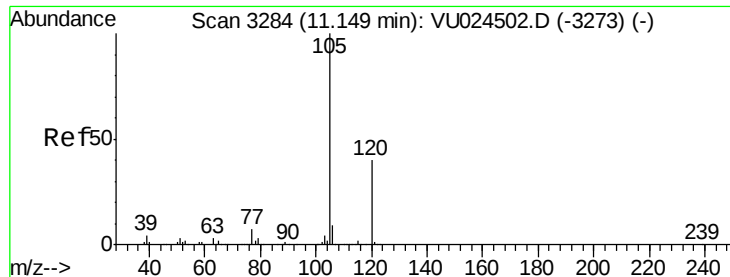


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

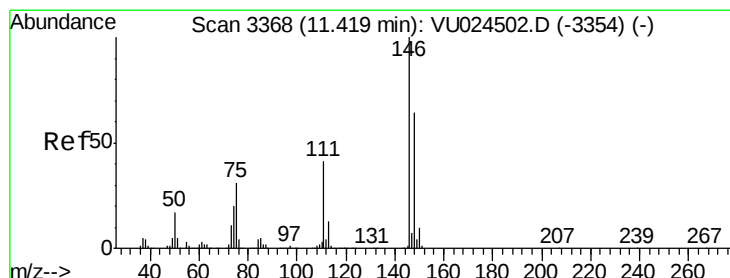
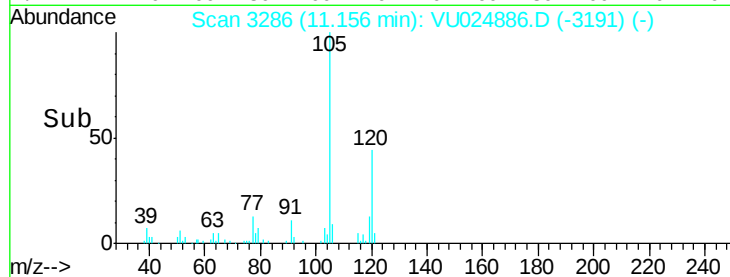
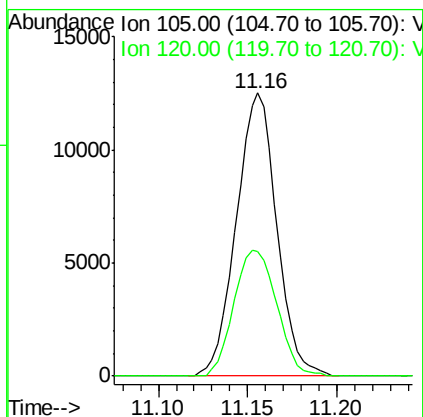
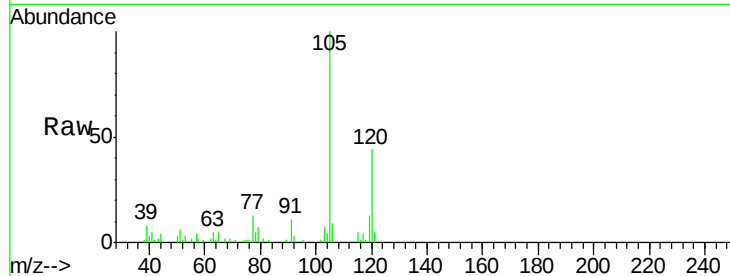




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.49 ug/l  
 RT: 11.16 min Scan# 3286  
 Delta R.T. 0.01 min  
 Lab File: VU024886.D  
 Acq: 25 Jun 2018 19:46

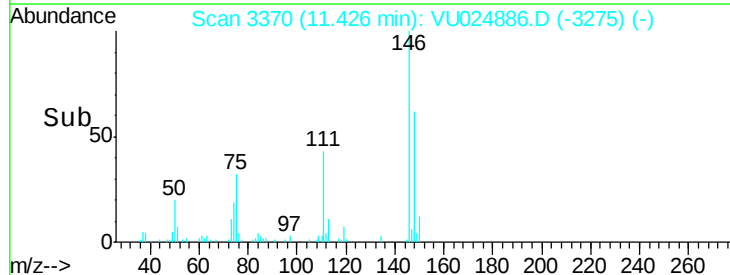
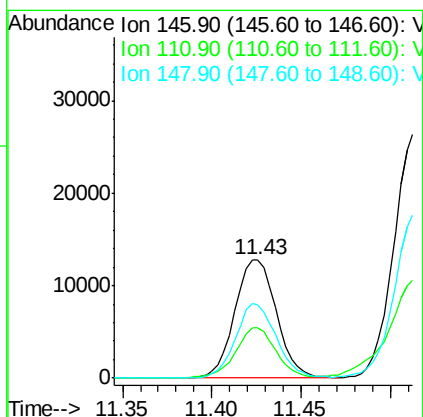
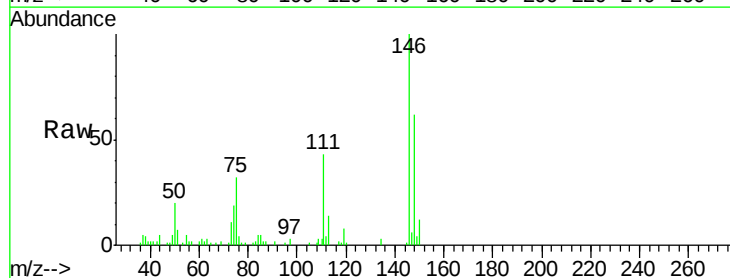
Instrument :  
 MSVOA\_U  
 ClientSampleId :

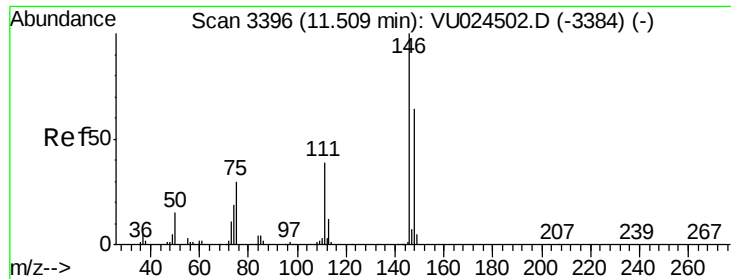
Tot Ion:105 Resp: 19828  
 Ion Ratio Lower Upper  
 105 100  
 120 47.1 22.6 67.8



#87  
 1,3-Dichlorobenzene  
 Concen: 2.94 ug/l  
 RT: 11.43 min Scan# 3370  
 Delta R.T. 0.01 min  
 Lab File: VU024886.D  
 Acq: 25 Jun 2018 19:46

Tgt Ion:146 Resp: 20773  
 Ion Ratio Lower Upper  
 146 100  
 111 41.7 20.0 60.0  
 148 61.3 32.1 96.5





#88

1,4-Dichlorobenzene

Concen: 6.06 ug/l

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

ClientSampleId :

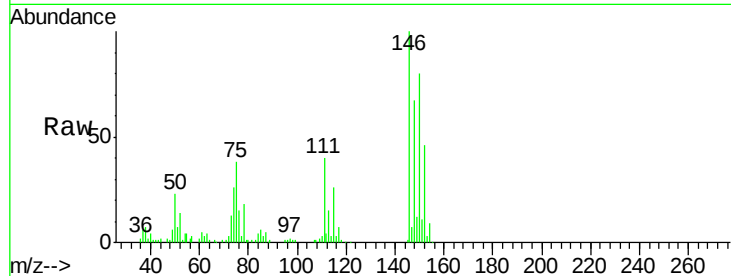
Tot Ion:146 Resp: 43099

Ion Ratio Lower Upper

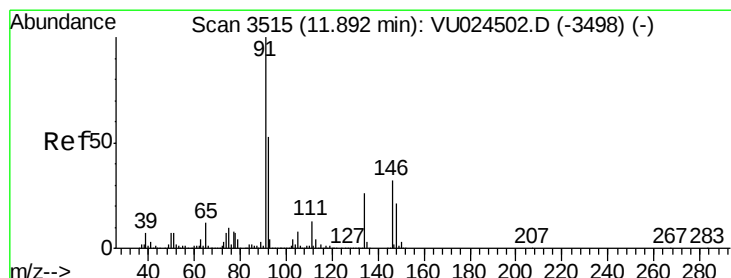
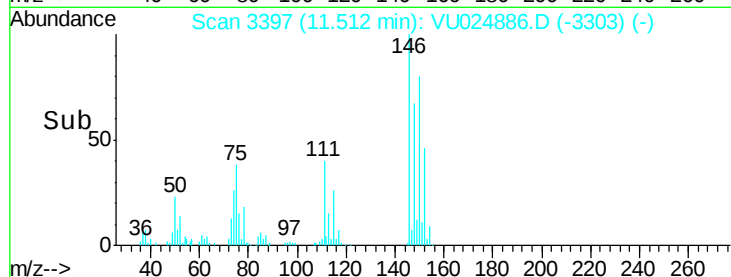
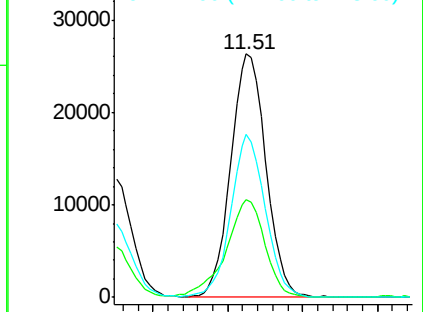
146 100

111 44.6 19.5 58.5

148 65.6 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.22 ug/l

RT: 11.89 min Scan# 3515

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

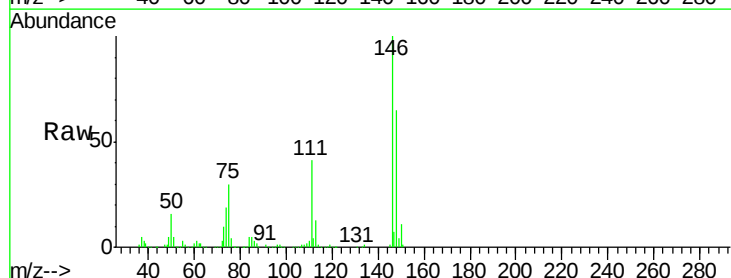
Tgt Ion: 91 Resp: 2792

Ion Ratio Lower Upper

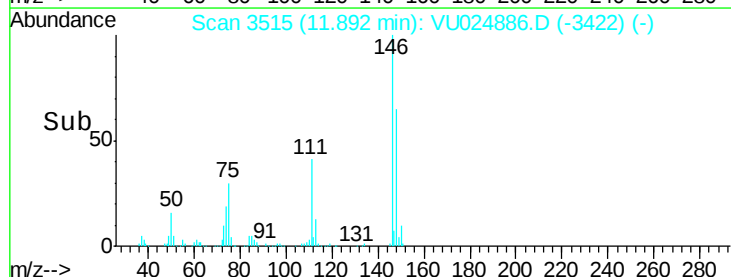
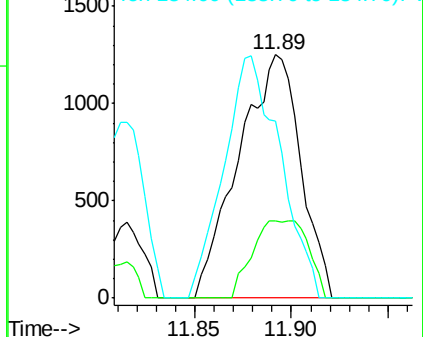
91 100

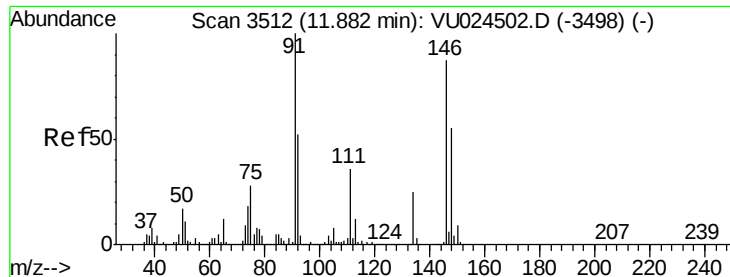
92 28.5 25.6 76.8

134 90.1 12.3 36.8#



Abundance Ion 91.00 (90.70 to 91.70): VU0  
Ion 92.00 (91.70 to 92.70): VU0  
Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 44.39 ug/l

RT: 11.89 min Scan# 3513

Delta R.T. 0.00 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

Instrument :

MSVOA\_U

ClientSampled :

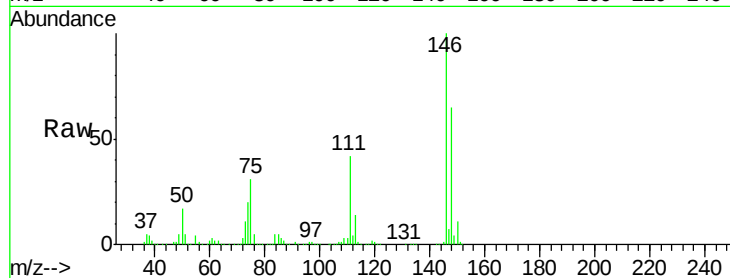
Tot Ion:146 Resp: 314264

Ion Ratio Lower Upper

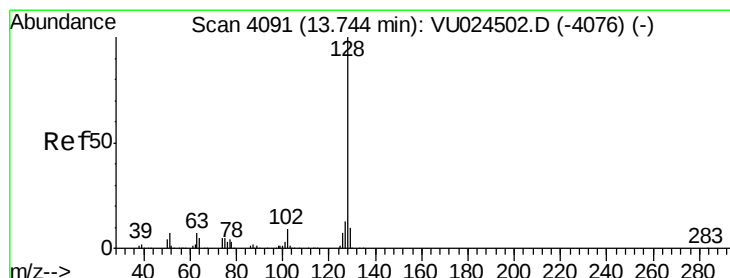
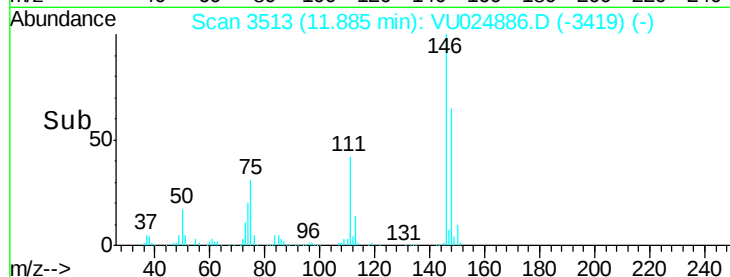
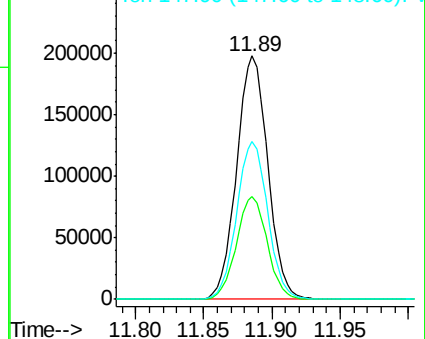
146 100

111 41.5 20.5 61.6

148 64.5 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 1.71 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU024886.D

Acq: 25 Jun 2018 19:46

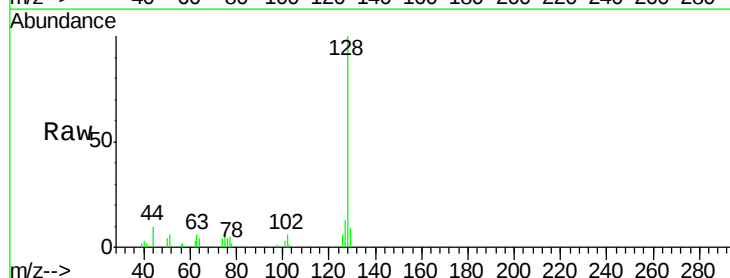
Tgt Ion:128 Resp: 15132

Ion Ratio Lower Upper

128 100

127 12.4 10.6 16.0

129 9.6 8.6 12.8



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

