

Data File : VU025908.D  
Acq On : 07 Aug 2018 00:43  
Operator : MD/SY  
Sample : VN0806WBL02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB

Quant Time: Aug 07 04:37:55 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 00:49:55 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 182414   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 295443   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 292412   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 174154   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 145868   | 51.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.64% |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 125429   | 48.81 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.62%  |      |
| 50) Toluene-d8            | 7.57   | 98  | 433915   | 48.26 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.52%  |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 164074   | 47.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.02%  |      |

#### Target Compounds

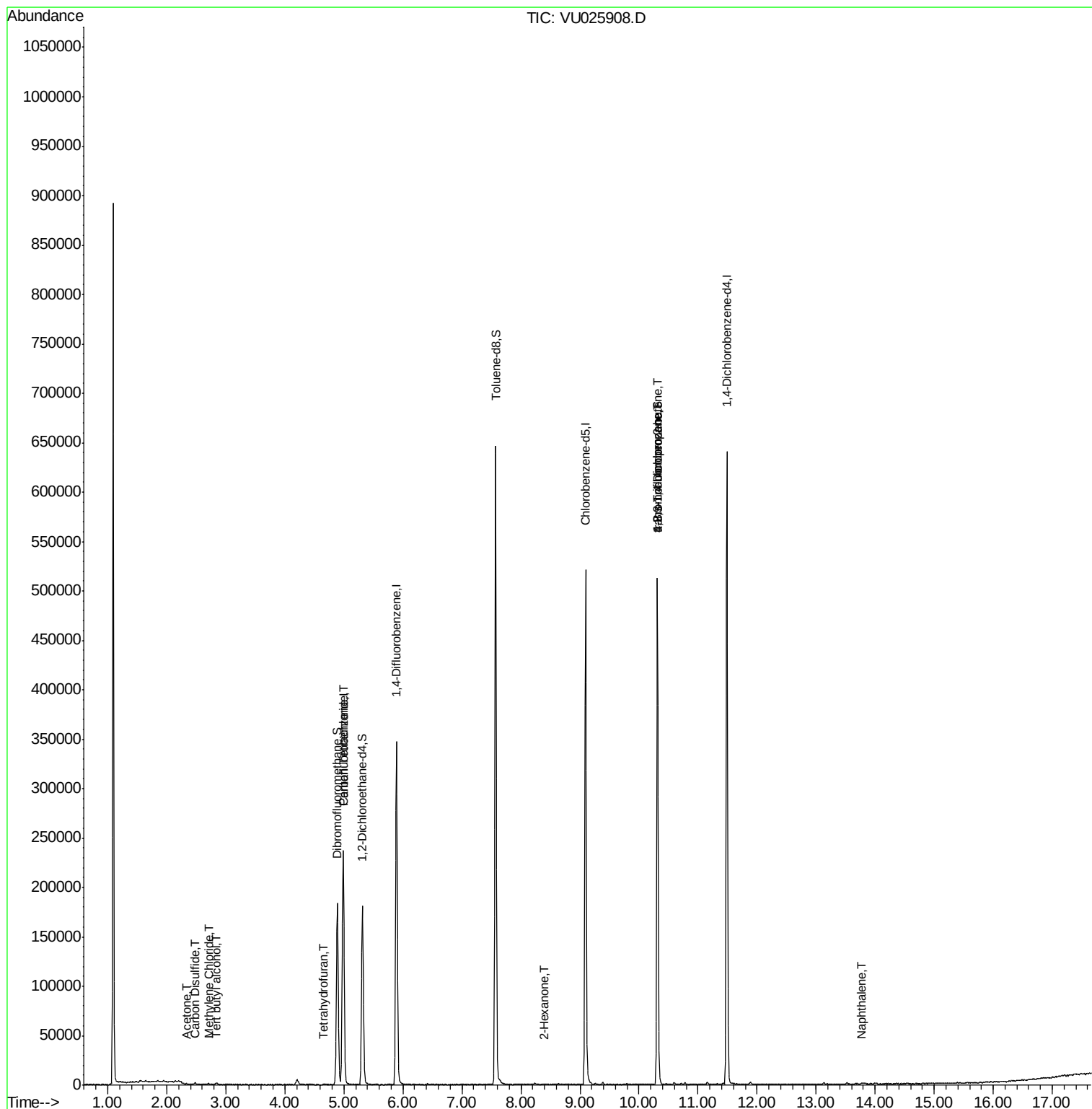
|                                |       |     |       |               | Qvalue |  |
|--------------------------------|-------|-----|-------|---------------|--------|--|
| 11) Tert butyl alcohol         | 2.84  | 59  | 924   | 1.485 ug/l #  | 73     |  |
| 13) Acrolein                   | 2.20  | 56  | 126   | Below Cal #   | 59     |  |
| 16) Acetone                    | 2.33  | 43  | 658   | 0.475 ug/l    | 96     |  |
| 17) Carbon Disulfide           | 2.48  | 76  | 2308  | 0.364 ug/l    | 100    |  |
| 20) Methylene Chloride         | 2.70  | 84  | 916   | 0.373 ug/l #  | 80     |  |
| 29) Tetrahydrofuran            | 4.65  | 42  | 229   | 0.203 ug/l #  | 62     |  |
| 31) Cyclohexane                | 4.99  | 56  | 3724  | Below Cal #   | 6      |  |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 17907 | 4.579 ug/l #  | 17     |  |
| 59) 2-Hexanone                 | 8.39  | 43  | 685   | 0.236 ug/l #  | 40     |  |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 85288 | 22.227 ug/l # | 36     |  |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 85288 | 55.734 ug/l # | 100    |  |
| 95) Naphthalene                | 13.76 | 128 | 1355  | 1.353 ug/l #  | 76     |  |

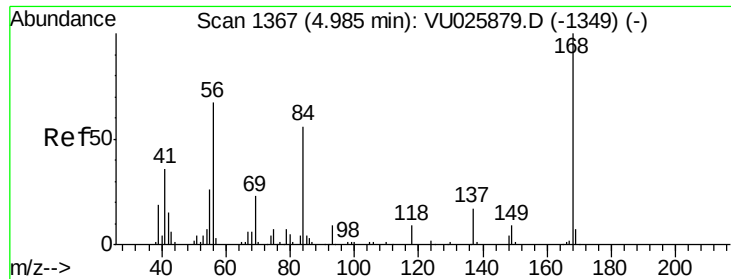
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

Instrument :

MSVOA\_U

ClientSampleId :

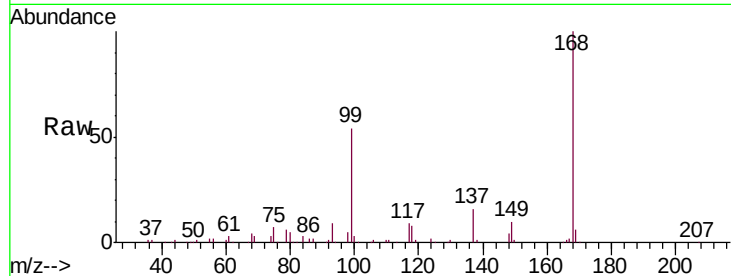
BFB

Tgt Ion:168 Resp: 182414

Ion Ratio Lower Upper

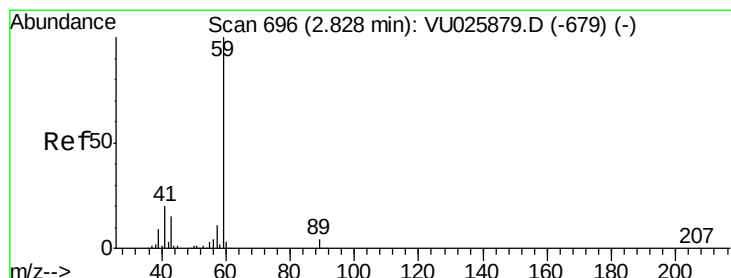
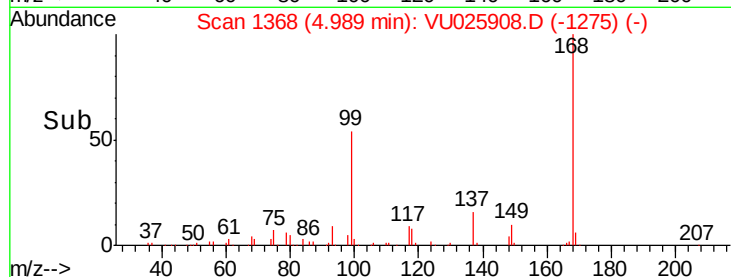
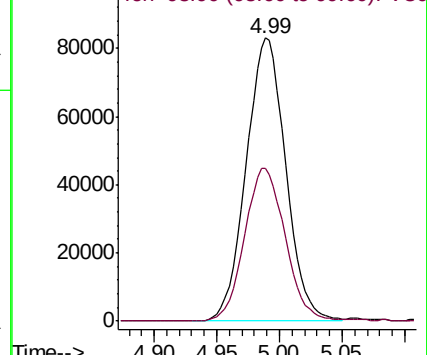
168 100

99 54.1 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025879.D

Ion 98.90 (98.60 to 99.60): VU025879.D



#11

Tert butyl alcohol

Concen: 1.485 ug/l

RT: 2.84 min Scan# 701

Delta R.T. 0.02 min

Lab File: VU025908.D

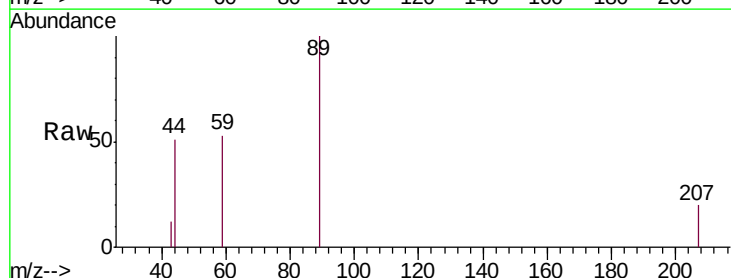
Acq: 07 Aug 2018 00:43

Tgt Ion: 59 Resp: 924

Ion Ratio Lower Upper

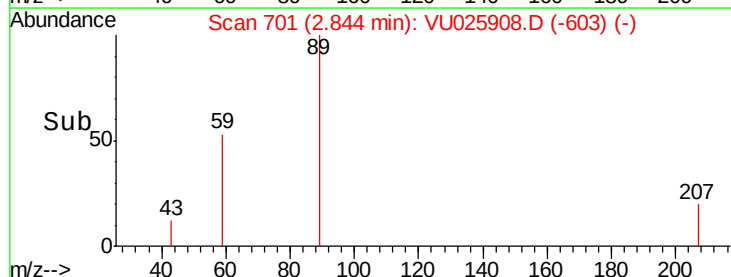
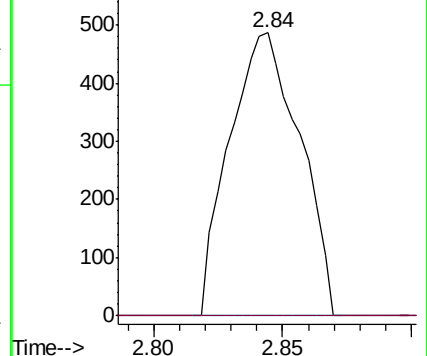
59 100

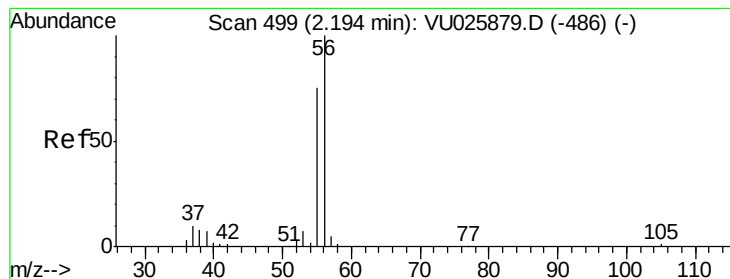
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU025879.D

Ion 57.00 (56.70 to 57.70): VU025879.D





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

Instrument :

MSVOA\_U

ClientSampleId :

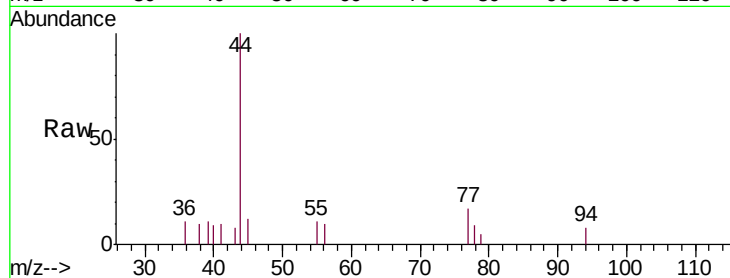
BFB

Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

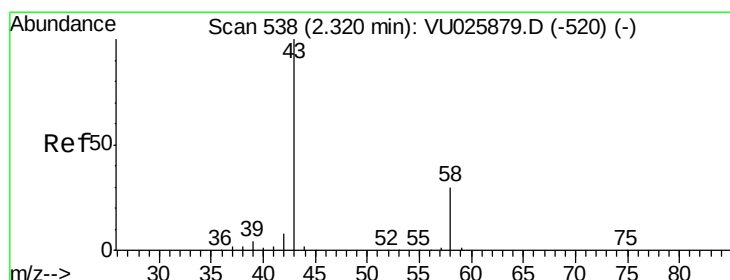
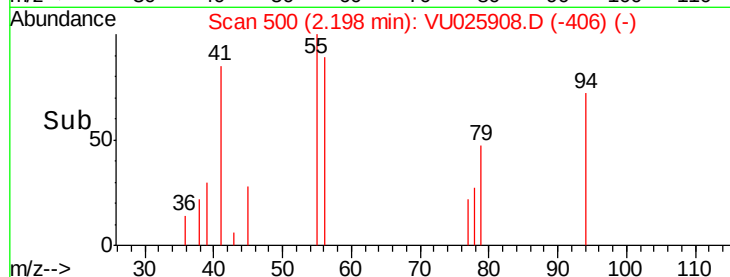
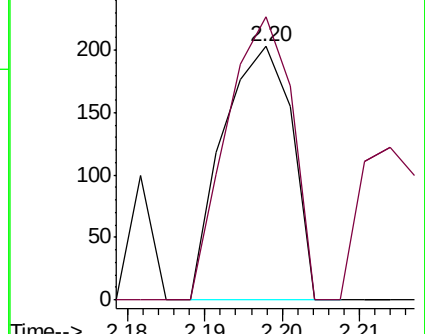
56 100

55 105.6 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 0.475 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025908.D

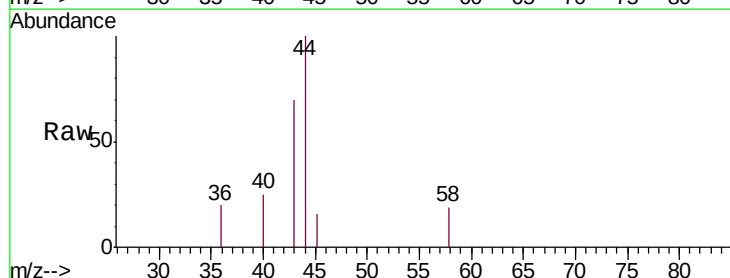
Acq: 07 Aug 2018 00:43

Tgt Ion: 43 Resp: 658

Ion Ratio Lower Upper

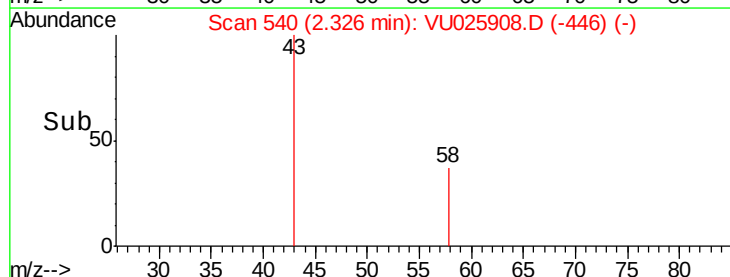
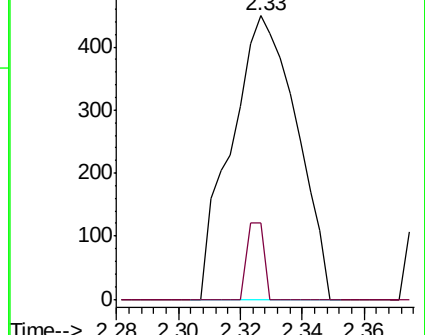
43 100

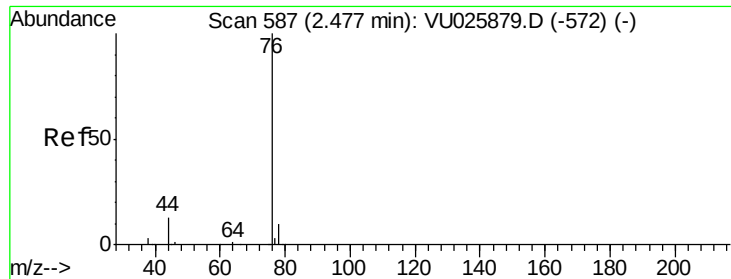
58 26.7 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 0.364 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

Instrument :

MSVOA\_U

ClientSampleId :

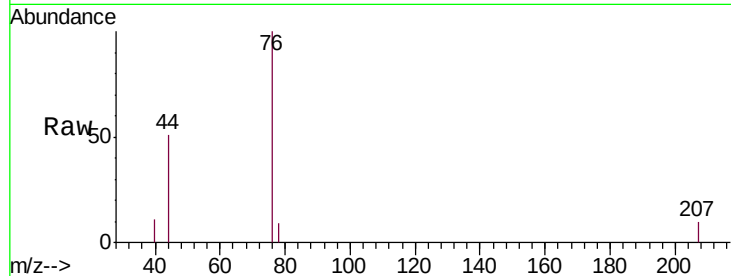
BFB

Tgt Ion: 76 Resp: 2308

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2

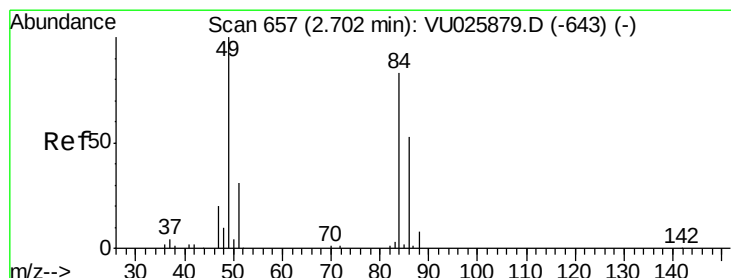
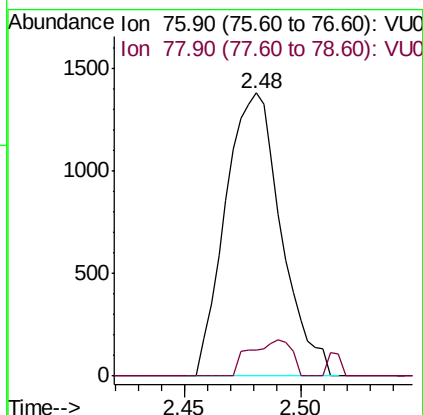
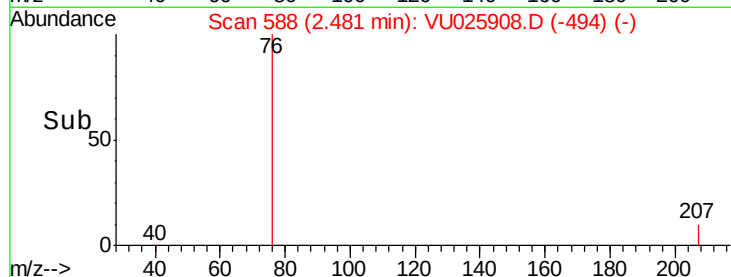


Abundance Ion 75.90 (75.60 to 76.60): VU025879.D (-572) (-)

Ion 77.90 (77.60 to 78.60): VU025879.D (-572) (-)

2.48

Time-->



#20

Methylene Chloride

Concen: 0.373 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

Tgt Ion: 84 Resp: 916

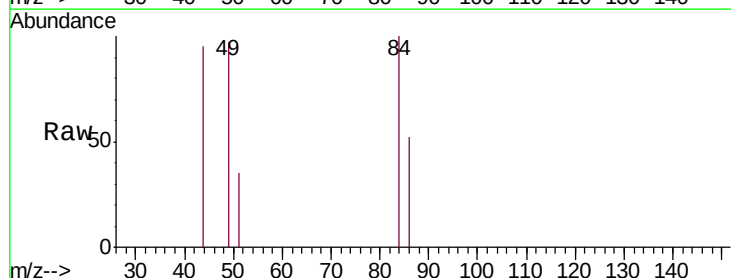
Ion Ratio Lower Upper

84 100

49 96.9 101.8 152.6#

51 34.5 30.8 46.2

86 51.7 51.9 77.9#



Abundance Ion 83.90 (83.60 to 84.60): VU025879.D (-643) (-)

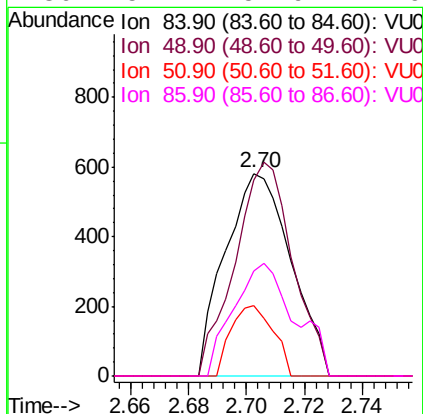
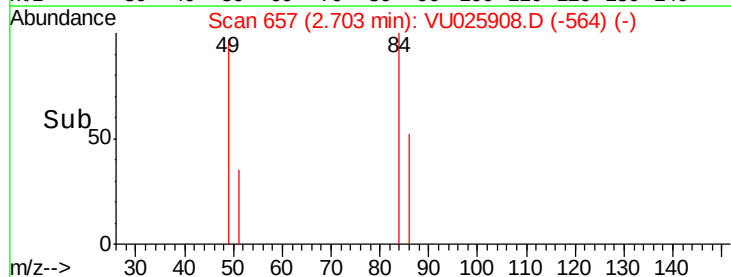
Ion 48.90 (48.60 to 49.60): VU025879.D (-643) (-)

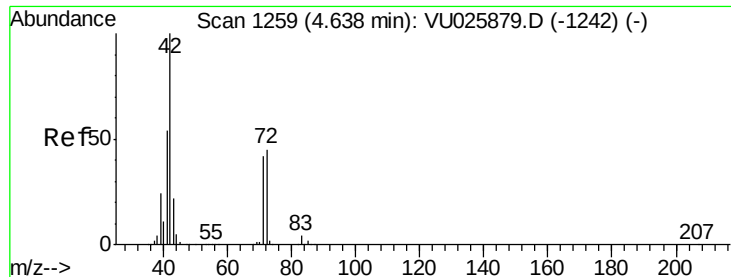
Ion 50.90 (50.60 to 51.60): VU025879.D (-643) (-)

Ion 85.90 (85.60 to 86.60): VU025879.D (-643) (-)

2.70

Time-->

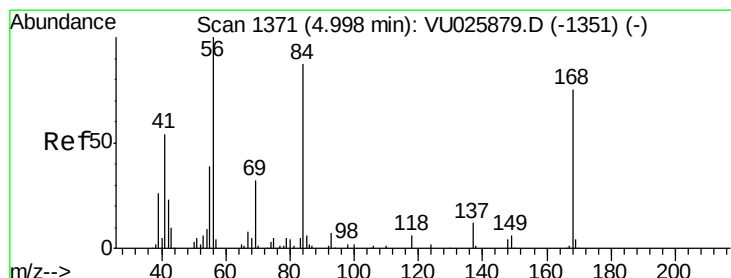
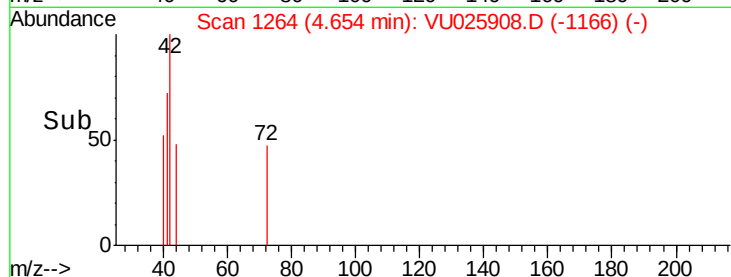
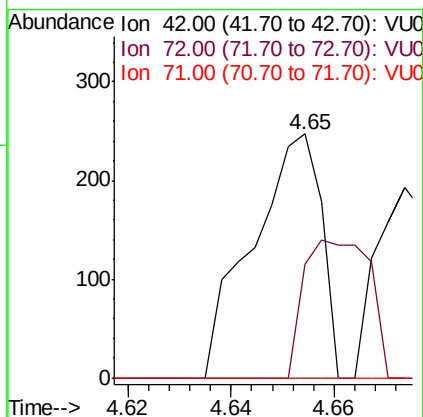
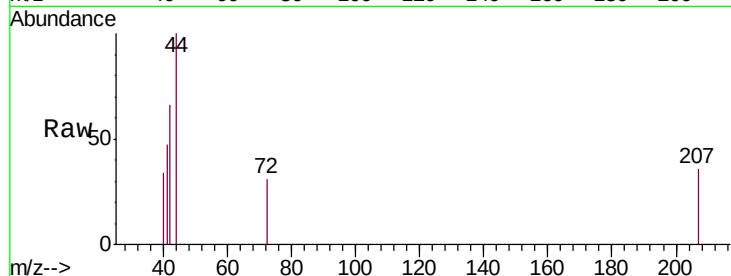




#29  
Tetrahydrofuran  
Concen: 0.203 ug/l  
RT: 4.65 min Scan# 1264  
Delta R.T. 0.02 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

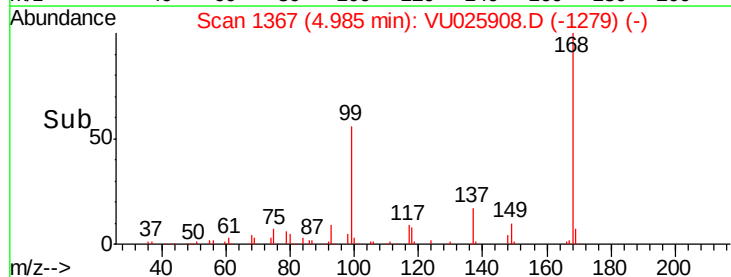
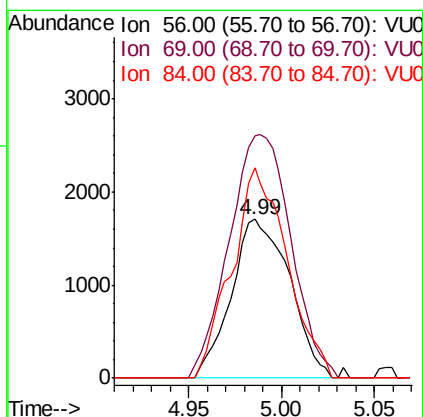
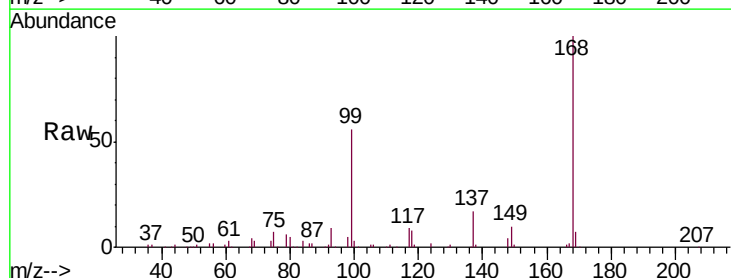
Instrument :  
MSVOA\_U  
ClientSampled :  
BFB

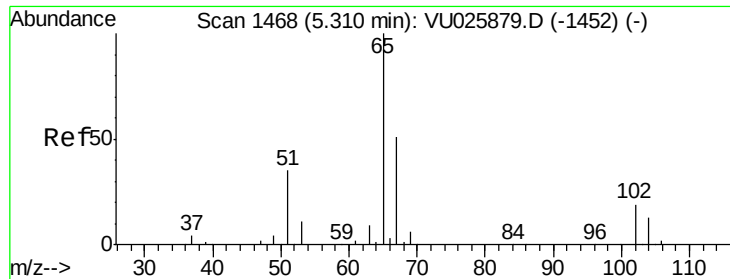
Tgt Ion: 42 Resp: 229  
Ion Ratio Lower Upper  
42 100  
72 53.7 36.7 55.1  
71 0.0 33.9 50.9#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1367  
Delta R.T. -0.02 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

Tgt Ion: 56 Resp: 3724  
Ion Ratio Lower Upper  
56 100  
69 152.9 26.8 40.2#  
84 132.5 69.7 104.5#

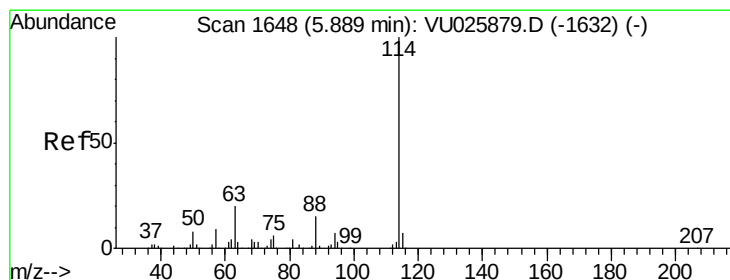
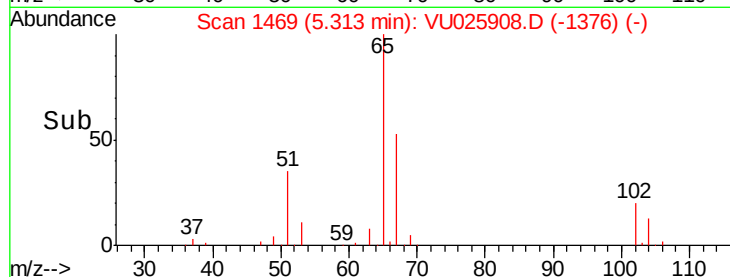
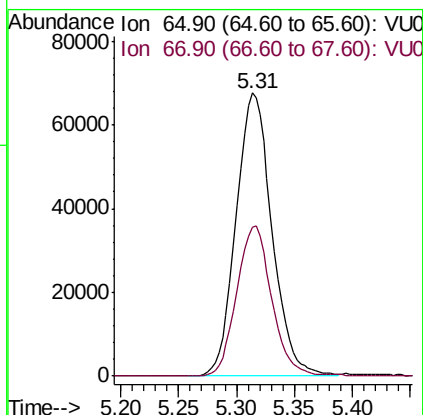
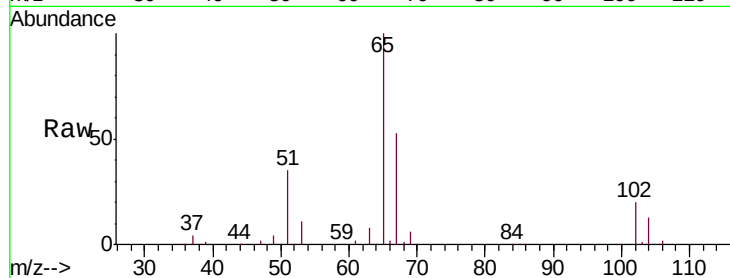




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.322 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU025908.D  
 Acq: 07 Aug 2018 00:43

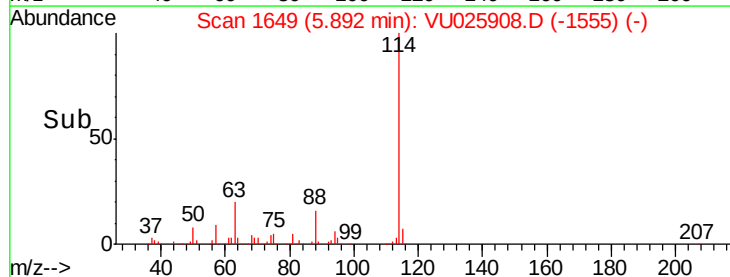
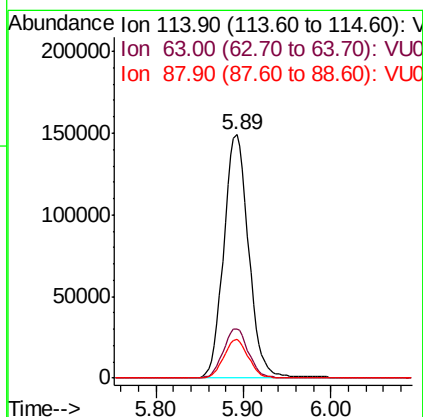
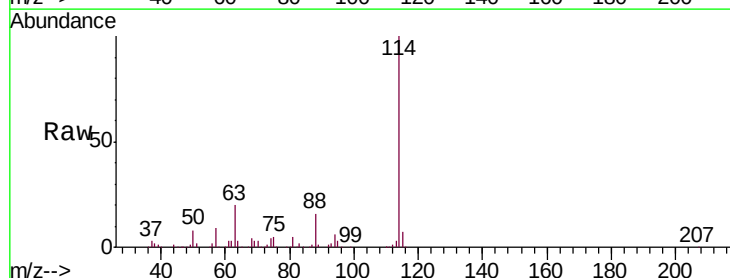
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB

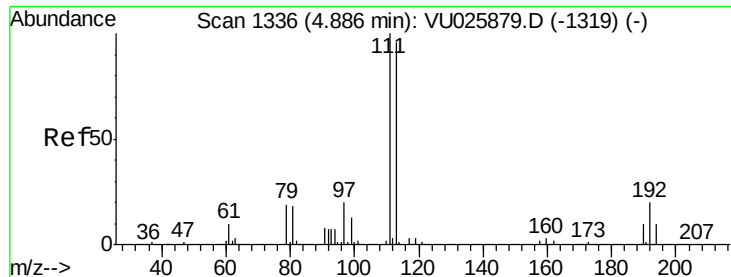
Tgt Ion: 65 Resp: 145868  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 103.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1649  
 Delta R.T. 0.00 min  
 Lab File: VU025908.D  
 Acq: 07 Aug 2018 00:43

Tgt Ion: 114 Resp: 295443  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 41.6  
 88 15.9 0.0 32.4





#35

Dibromofluoromethane

Concen: 48.812 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

Instrument :

MSVOA\_U

ClientSampled :

BFB

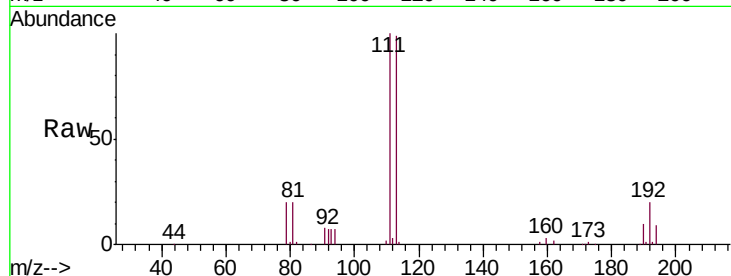
Tgt Ion:113 Resp: 125429

Ion Ratio Lower Upper

113 100

111 102.3 81.7 122.5

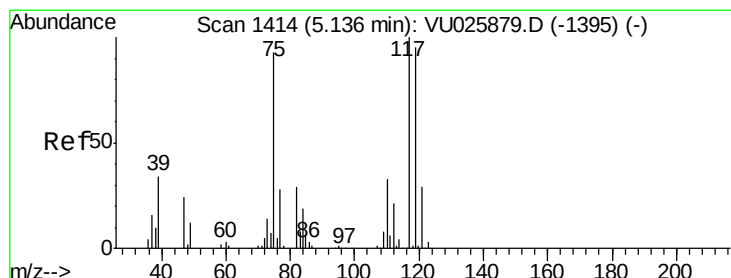
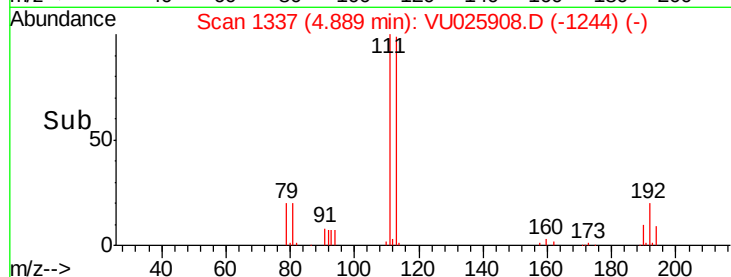
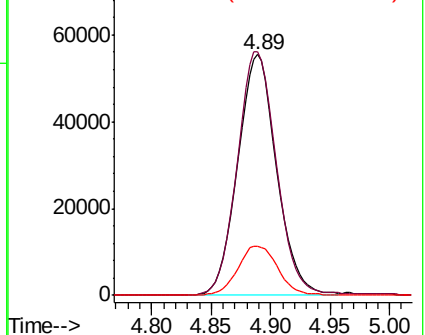
192 21.1 17.1 25.7



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



#38

Carbon Tetrachloride

Concen: 4.579 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

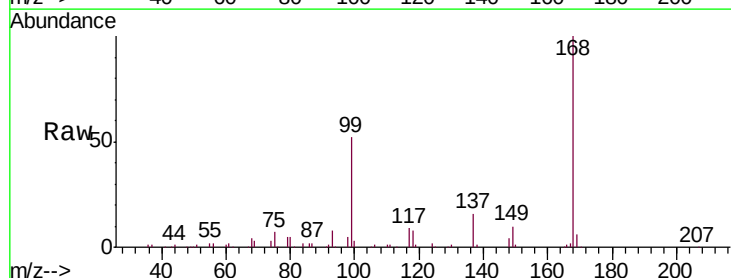
Tgt Ion:117 Resp: 17907

Ion Ratio Lower Upper

117 100

119 5.9 75.7 113.5#

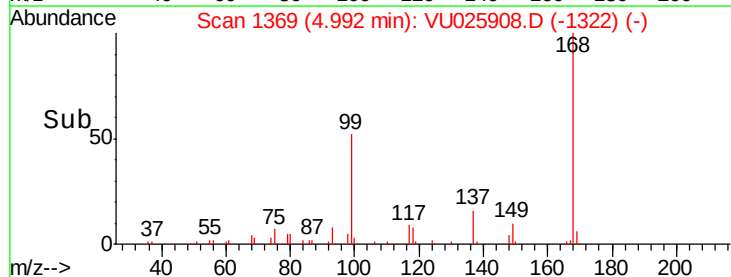
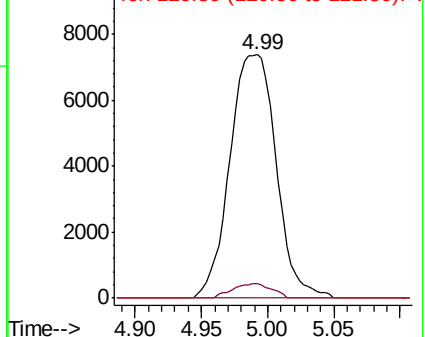
121 0.0 24.6 36.8#



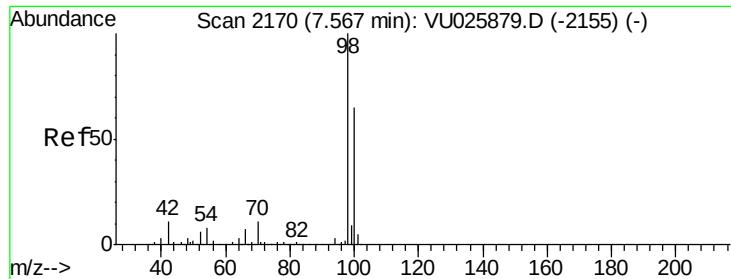
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



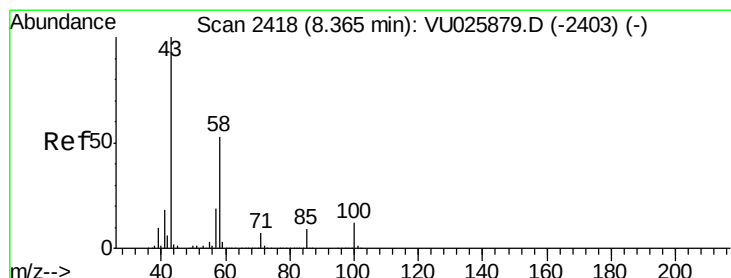
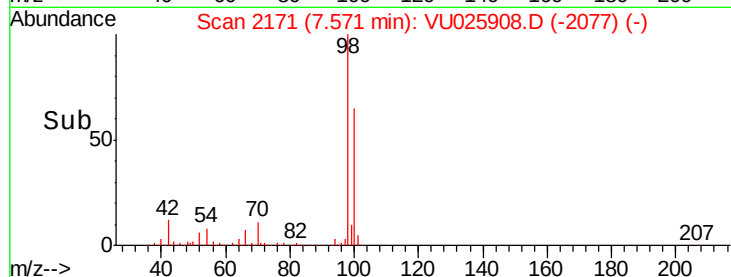
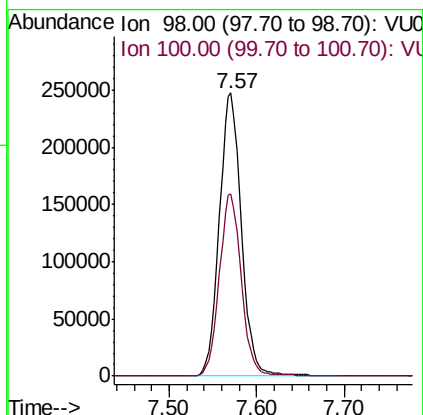
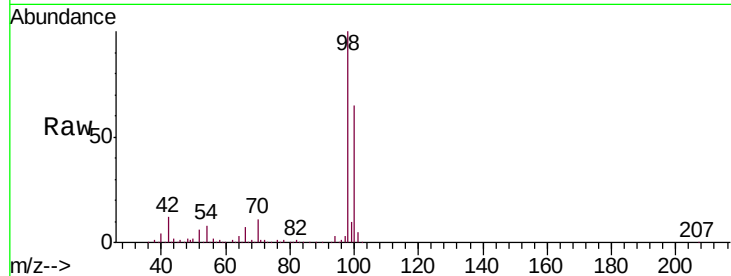




#50  
Toluene-d8  
Concen: 48.256 ug/l  
RT: 7.57 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

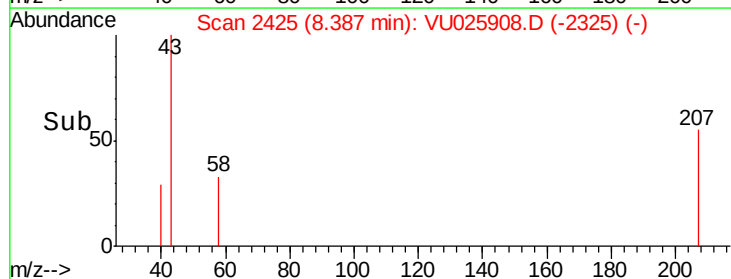
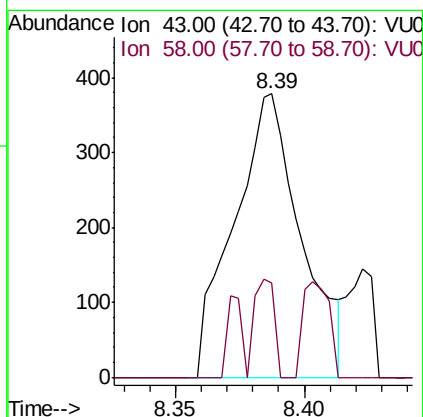
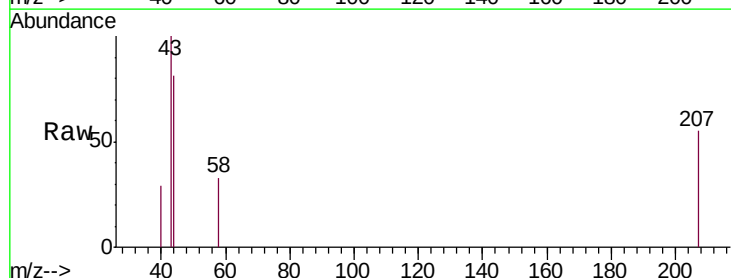
Instrument :  
MSVOA\_U  
ClientSampled :  
BFB

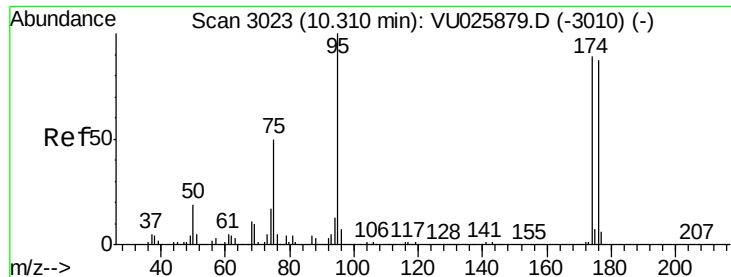
Tgt Ion: 98 Resp: 433915  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.1 76.7



#59  
2-Hexanone  
Concen: 0.236 ug/l  
RT: 8.39 min Scan# 2425  
Delta R.T. 0.02 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

Tgt Ion: 43 Resp: 685  
Ion Ratio Lower Upper  
43 100  
58 10.2 26.2 78.5#

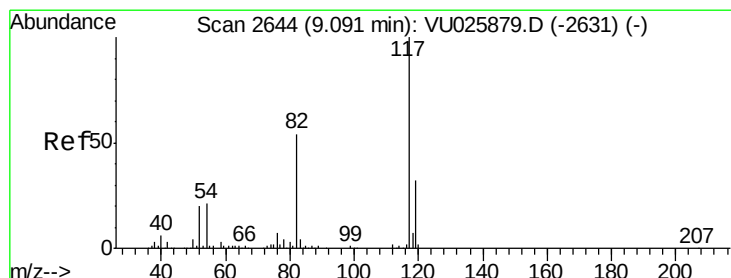
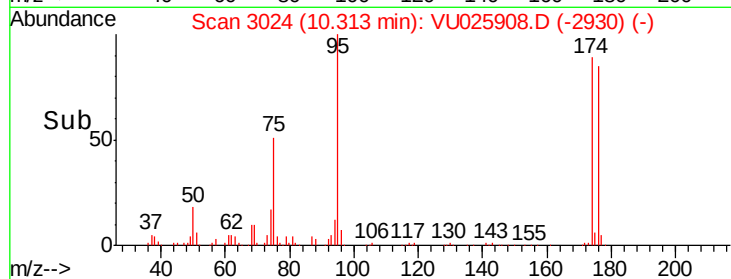
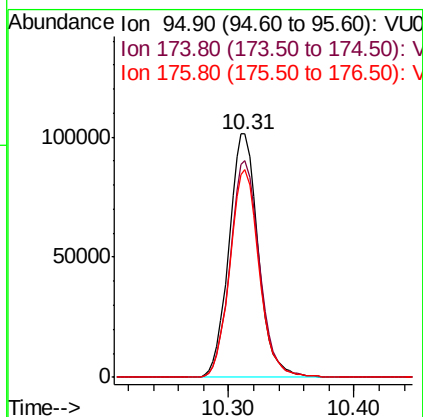
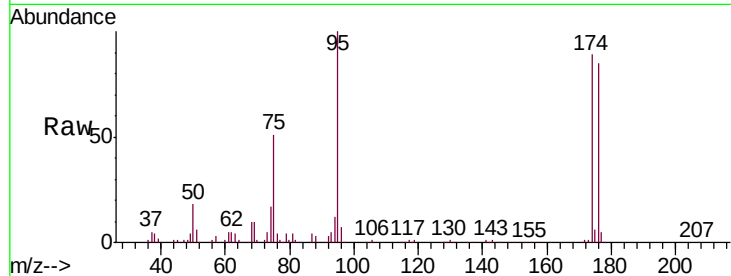




#62  
4-Bromofluorobenzene  
Concen: 47.010 ug/l  
RT: 10.31 min Scan# 3024  
Delta R.T. 0.00 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

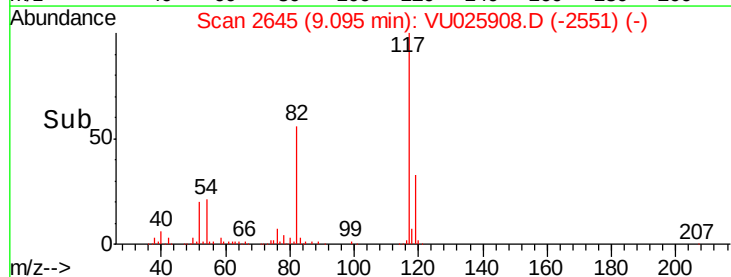
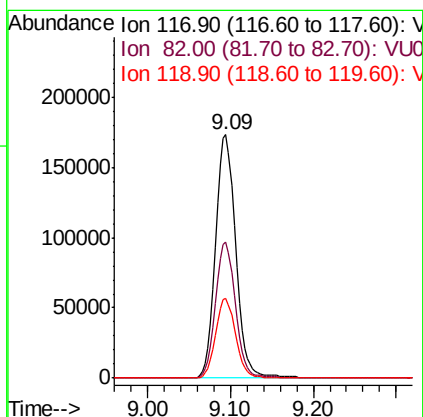
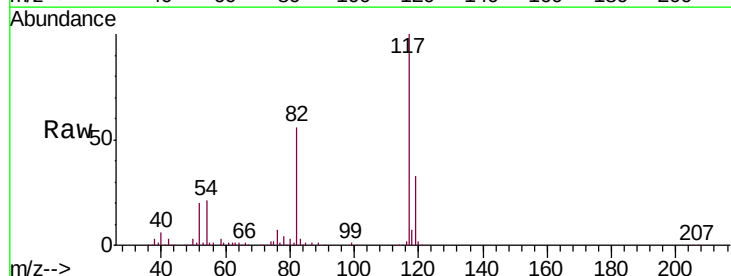
Instrument :  
MSVOA\_U  
ClientSampled :  
BFB

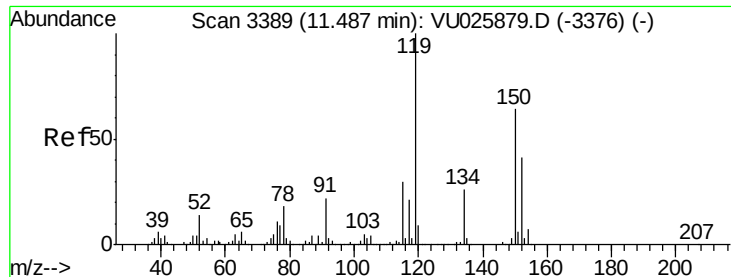
Tgt Ion: 95 Resp: 164074  
Ion Ratio Lower Upper  
95 100  
174 89.4 0.0 172.2  
176 85.2 0.0 162.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

Tgt Ion: 117 Resp: 292412  
Ion Ratio Lower Upper  
117 100  
82 55.7 46.0 69.0  
119 32.8 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025908.D

Acq: 07 Aug 2018 00:43

Instrument :

MSVOA\_U

ClientSampleId :

BFB

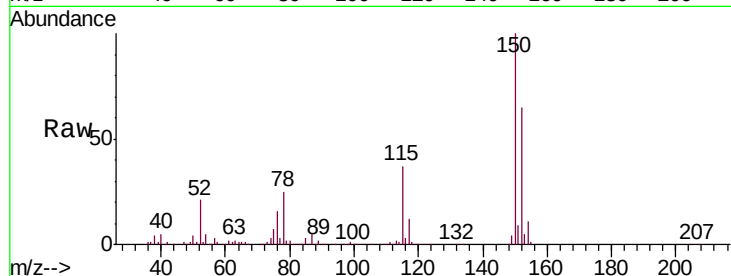
Tgt Ion:152 Resp: 174154

Ion Ratio Lower Upper

152 100

115 56.1 40.1 120.3

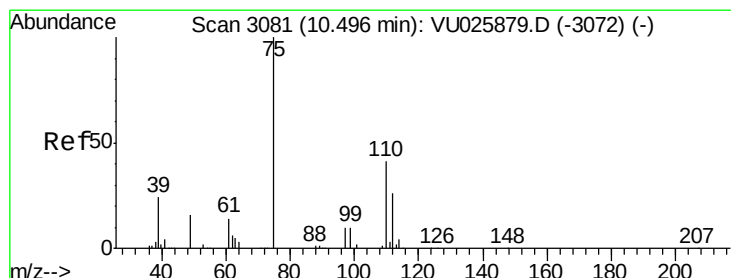
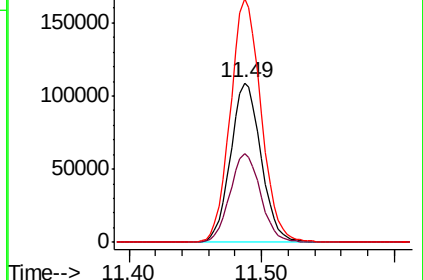
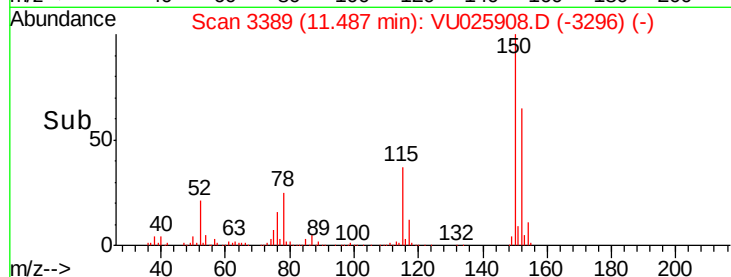
150 154.3 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.227 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025908.D

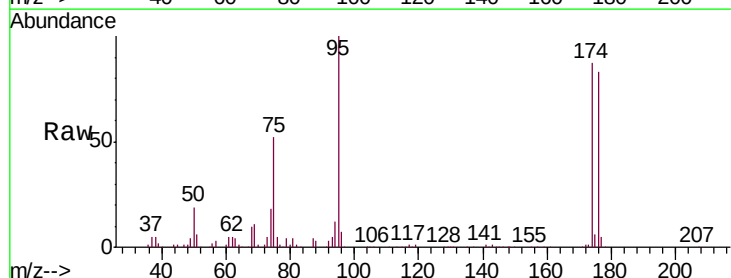
Acq: 07 Aug 2018 00:43

Tgt Ion: 75 Resp: 85288

Ion Ratio Lower Upper

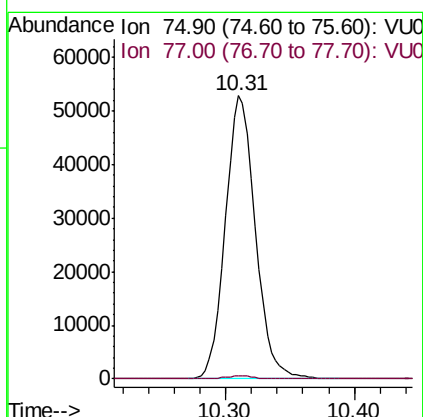
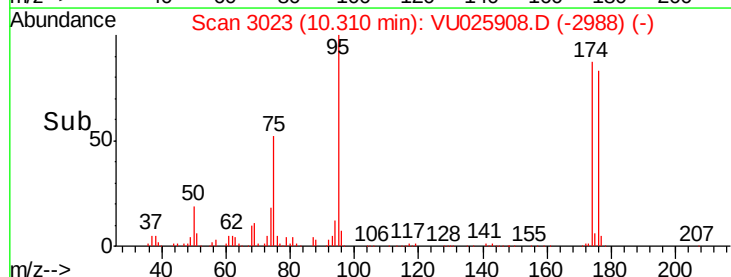
75 100

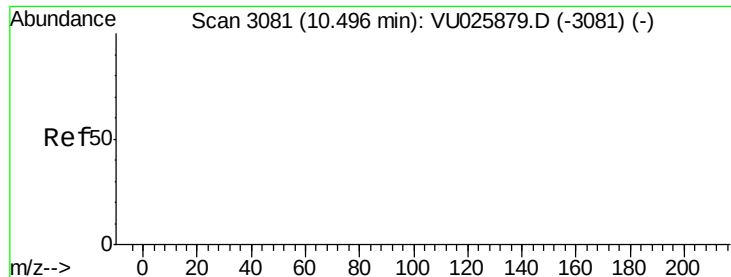
77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

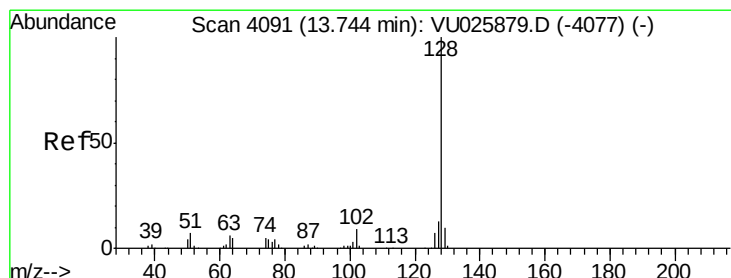
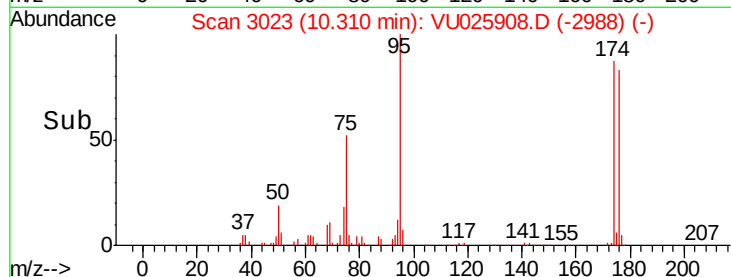
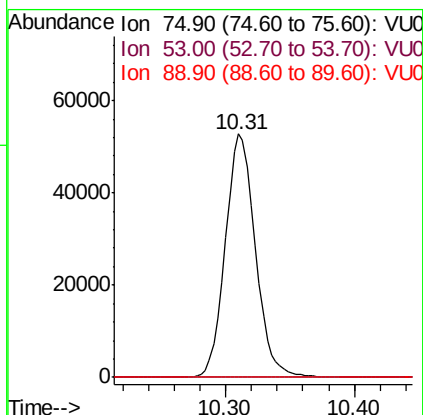
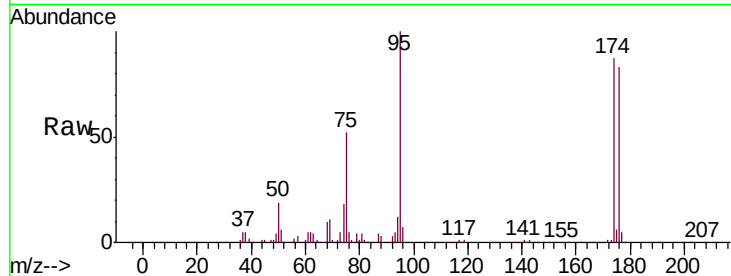




#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.734 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. -0.19 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB

Tgt Ion: 75 Resp: 85288  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0  
89 0.0 0.0 0.0



#95  
Naphthalene  
Concen: 1.353 ug/l  
RT: 13.76 min Scan# 4095  
Delta R.T. 0.01 min  
Lab File: VU025908.D  
Acq: 07 Aug 2018 00:43

Tgt Ion: 128 Resp: 1355  
Ion Ratio Lower Upper  
128 100  
127 4.4 10.5 15.7#  
129 0.0 8.3 12.5#

