

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF090718\  
 Data File : VF060219.D  
 Acq On : 7 Sep 2018 19:18  
 Operator : VA/AP  
 Sample : J4803-02  
 Misc : 5.21g/5mL/MSVOA\_F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-E6

Quant Time: Sep 07 23:27:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 07 10:44:05 2018  
 Response via : Initial Calibration

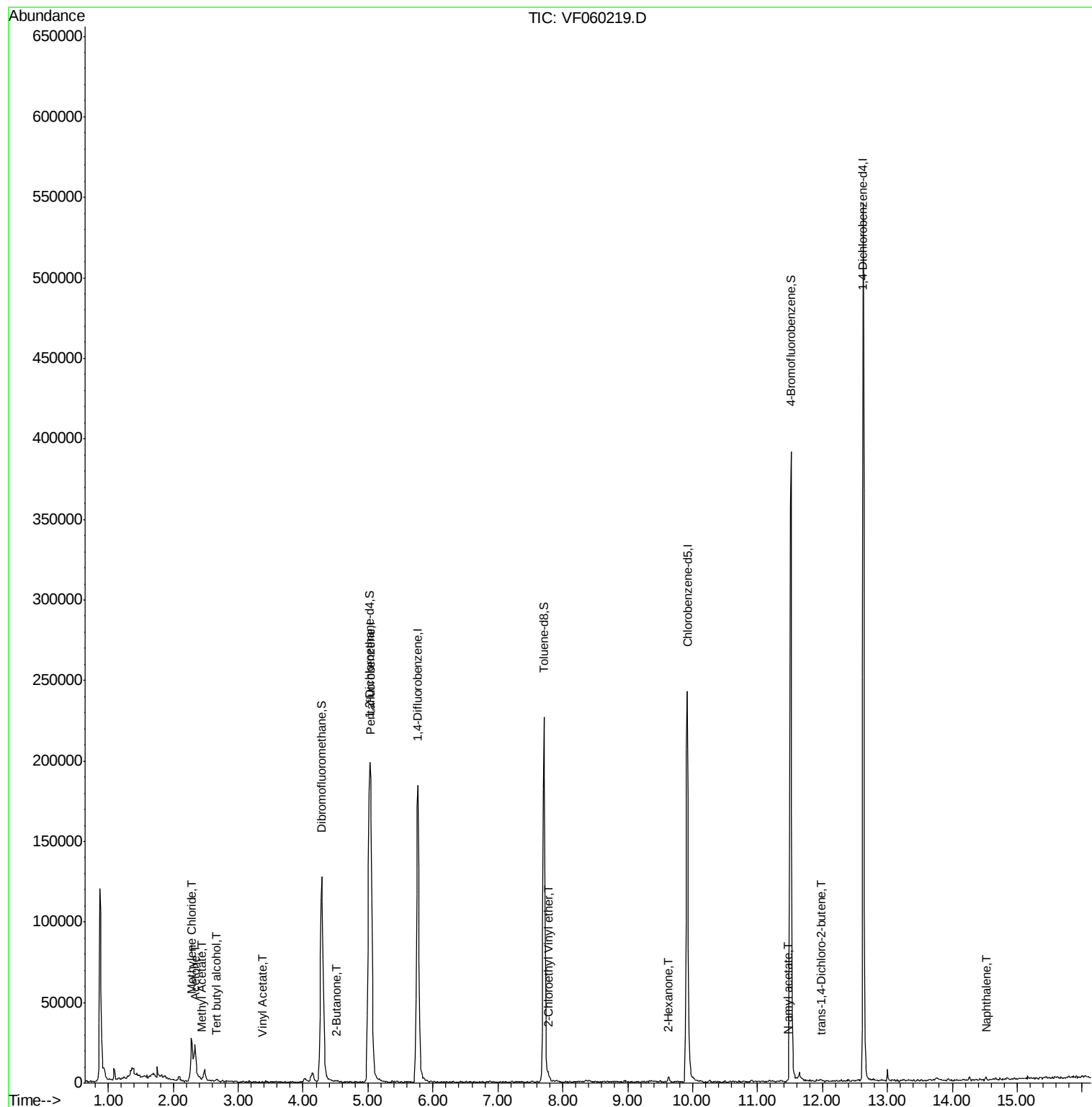
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.05  | 168  | 122951   | 50.00     | ug/l    | 0.01     |
| 34) 1,4-Difluorobenzene        | 5.77  | 114  | 182281   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 9.92  | 117  | 158887   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.63 | 152  | 127110   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 5.02  | 65   | 147211   | 68.54     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 137.08% |          |
| 35) Dibromofluoromethane       | 4.29  | 113  | 116657   | 65.32     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 130.64% |          |
| 50) Toluene-d8                 | 7.71  | 98   | 177526   | 39.84     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 79.68%  |          |
| 62) 4-Bromofluorobenzene       | 11.50 | 95   | 136548   | 54.31     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 108.62% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 2.66  | 59   | 864      | 19.073    | ug/l #  | 75       |
| 13) Acrolein                   | 2.07  | 56   | 159      | Below Cal | #       | 66       |
| 16) Acetone                    | 2.34  | 43   | 28154    | 55.369    | ug/l #  | 93       |
| 18) Methyl Acetate             | 2.44  | 43   | 1256     | 1.730     | ug/l    | 97       |
| 20) Methylene Chloride         | 2.28  | 84   | 17014    | 8.895     | ug/l    | 95       |
| 23) Vinyl Acetate              | 3.36  | 43   | 60       | 22.836    | ug/l #  | 82       |
| 25) 2-Butanone                 | 4.51  | 43   | 1428     | 2.365     | ug/l    | 92       |
| 37) Ethyl Acetate              | 4.26  | 43   | 426      | Below Cal | #       | 17       |
| 58) 2-Chloroethyl Vinyl ether  | 7.78  | 63   | 299      | 2.234     | ug/l    | 100      |
| 59) 2-Hexanone                 | 9.63  | 43   | 2767     | 2.173     | ug/l    | 82       |
| 64) Tetrachloroethene          | 8.30  | 164  | 75       | Below Cal | #       | 1        |
| 74) N-amyl acetate             | 11.46 | 43   | 576      | 5.093     | ug/l #  | 49       |
| 81) trans-1,4-Dichloro-2-buten | 11.98 | 75   | 165      | 3.023     | ug/l #  | 9        |
| 95) Naphthalene                | 14.52 | 128  | 1166     | 2.840     | ug/l #  | 70       |

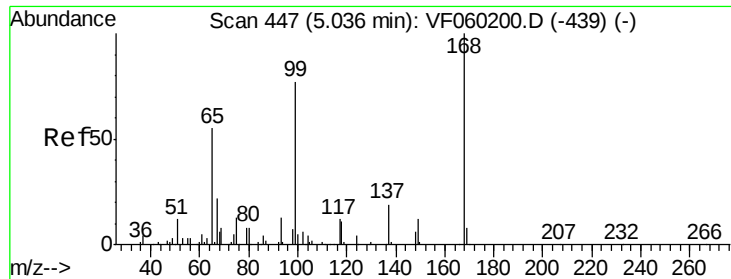
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF090718\  
Data File : VF060219.D  
Acq On : 7 Sep 2018 19:18  
Operator : VA/AP  
Sample : J4803-02  
Misc : 5.21g/5mL/MSVOA\_F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-E6

Quant Time: Sep 07 23:27:12 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 07 10:44:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060219.D

Acq: 7 Sep 2018 19:18

Instrument :

MSVOA\_F

ClientSampleId :

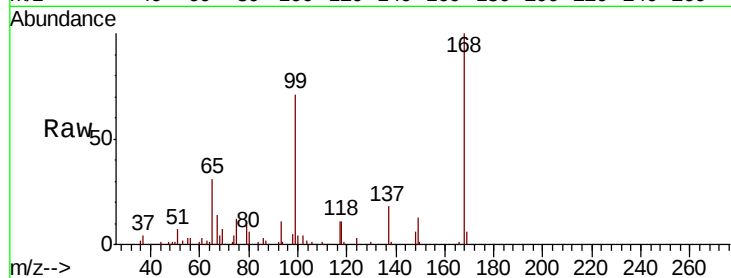
EP1-Q2-E6

Tgt Ion:168 Resp: 122951

Ion Ratio Lower Upper

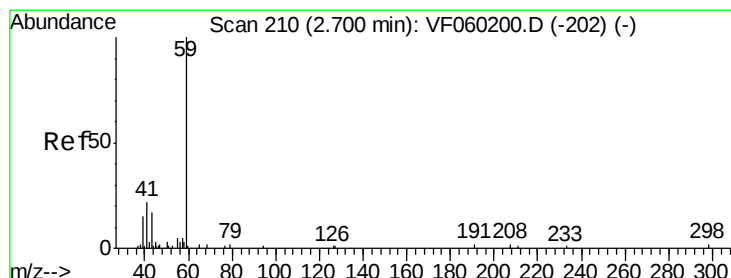
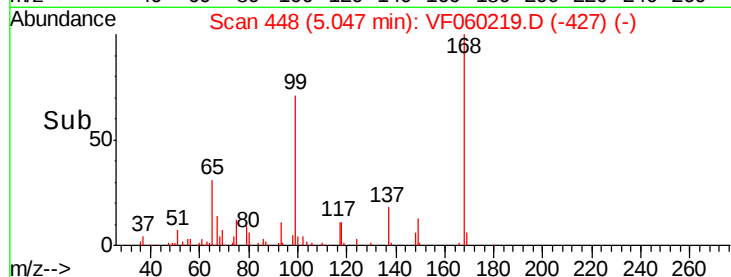
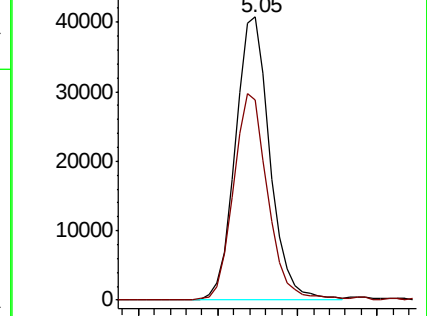
168 100

99 70.7 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 19.073 ug/l

RT: 2.66 min Scan# 206

Delta R.T. -0.04 min

Lab File: VF060219.D

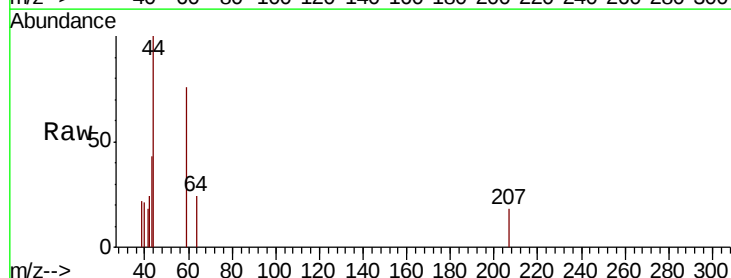
Acq: 7 Sep 2018 19:18

Tgt Ion: 59 Resp: 864

Ion Ratio Lower Upper

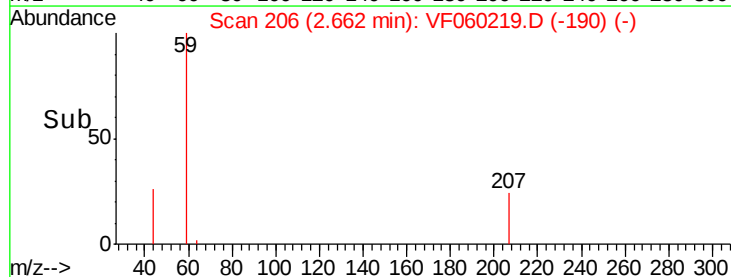
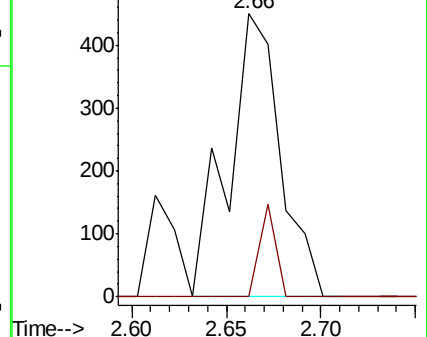
59 100

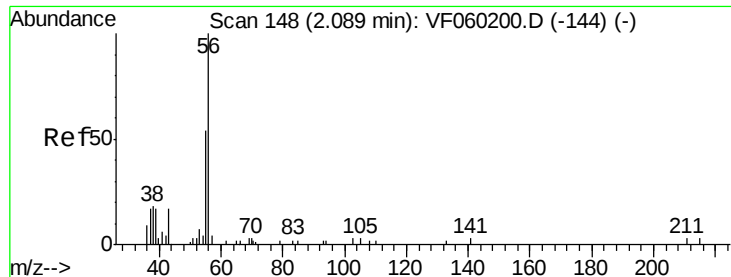
57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.07 min Scan# 146

Delta R.T. -0.02 min

Lab File: VF060219.D

Acq: 7 Sep 2018 19:18

Instrument :

MSVOA\_F

ClientSampleId :

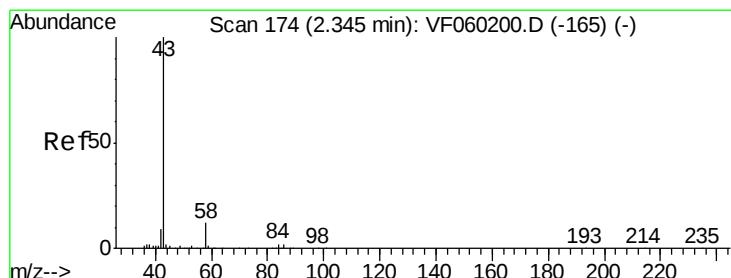
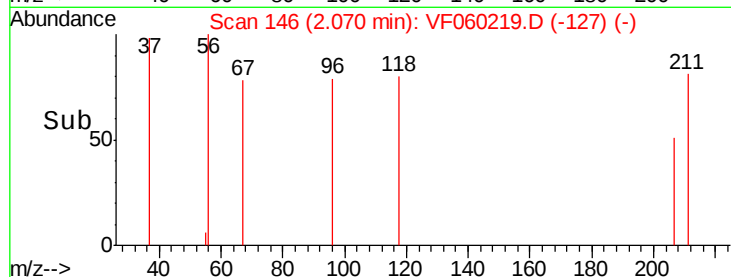
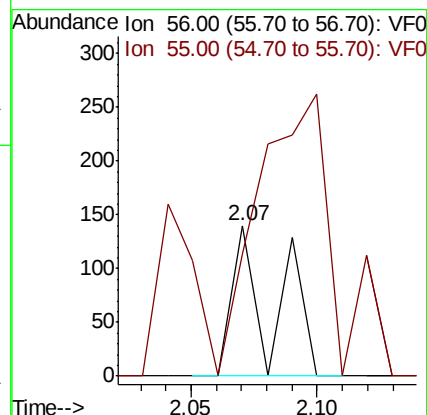
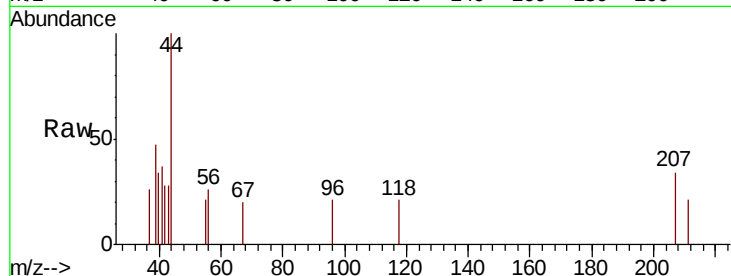
EP1-Q2-E6

Tgt Ion: 56 Resp: 159

Ion Ratio Lower Upper

56 100

55 81.4 45.1 67.7#



#16

Acetone

Concen: 55.369 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060219.D

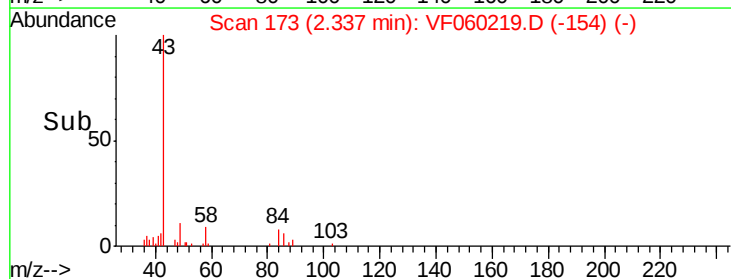
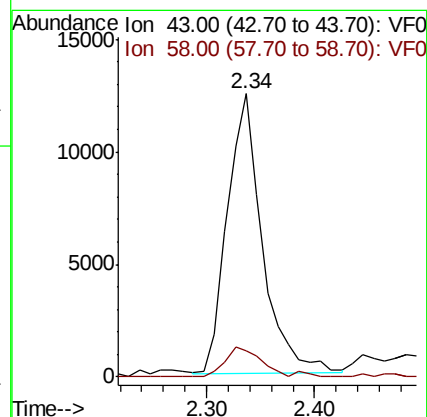
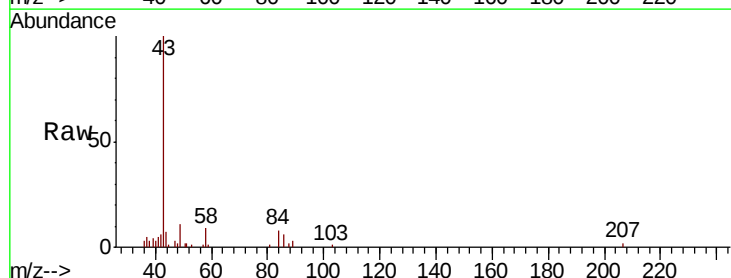
Acq: 7 Sep 2018 19:18

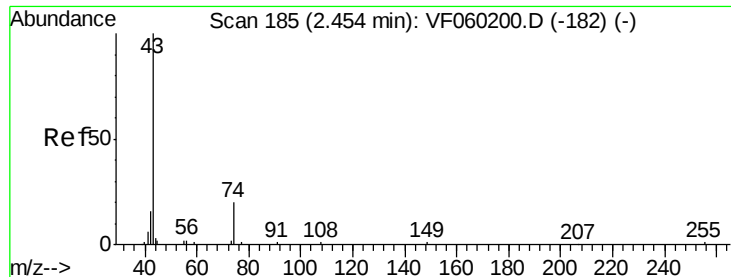
Tgt Ion: 43 Resp: 28154

Ion Ratio Lower Upper

43 100

58 9.3 9.7 14.5#

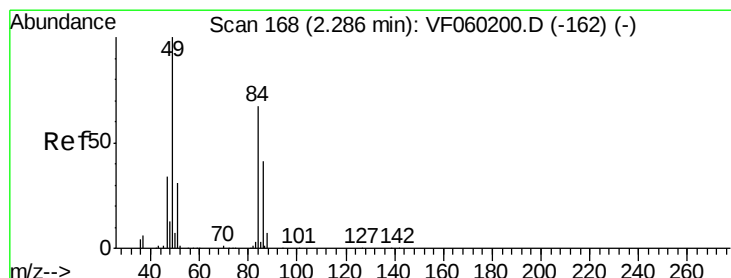
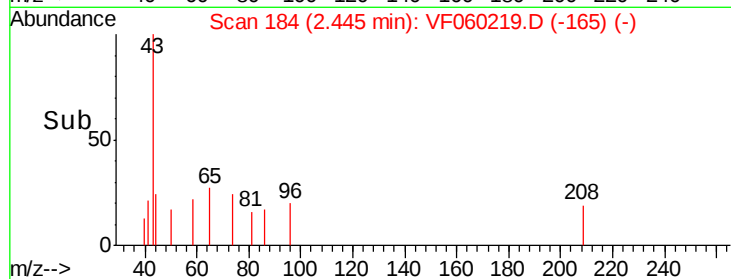
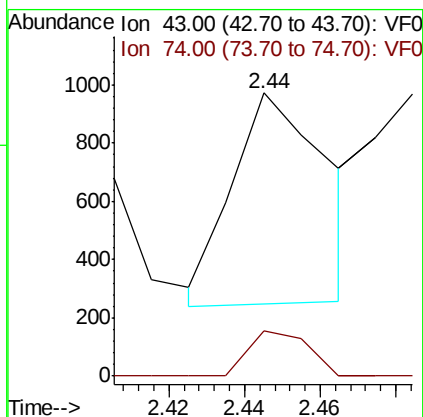
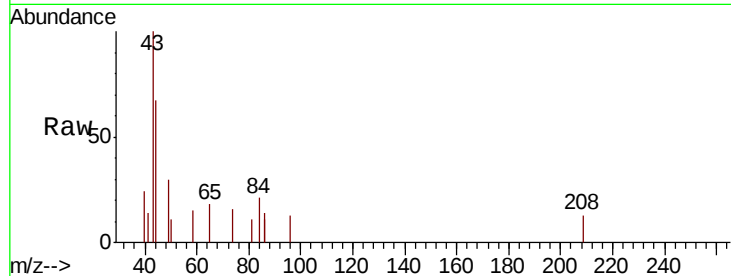




#18  
Methyl Acetate  
Concen: 1.730 ug/l  
RT: 2.44 min Scan# 184  
Delta R.T. -0.01 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

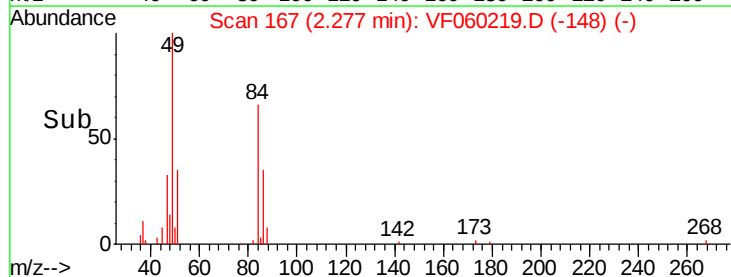
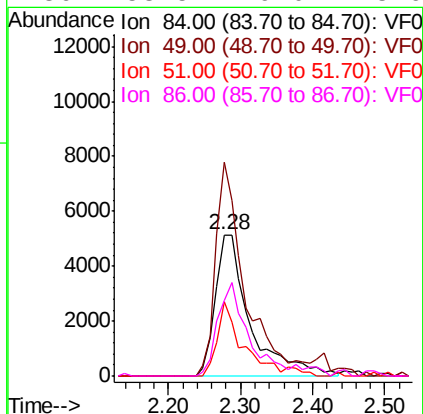
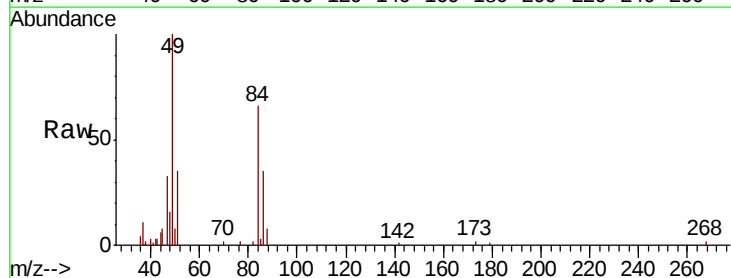
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-E6

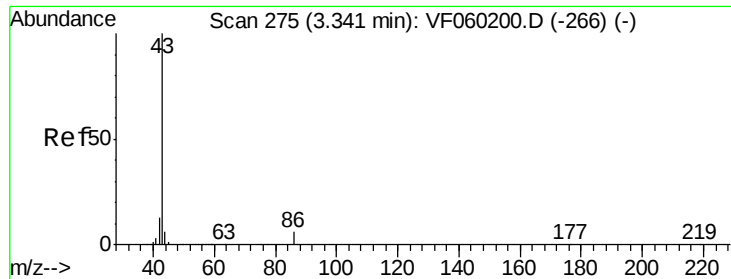
Tgt Ion: 43 Resp: 1256  
Ion Ratio Lower Upper  
43 100  
74 15.9 11.9 17.9



#20  
Methylene Chloride  
Concen: 8.895 ug/l  
RT: 2.28 min Scan# 167  
Delta R.T. -0.01 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Tgt Ion: 84 Resp: 17014  
Ion Ratio Lower Upper  
84 100  
49 151.2 120.1 180.1  
51 52.3 37.0 55.6  
86 53.5 49.0 73.6

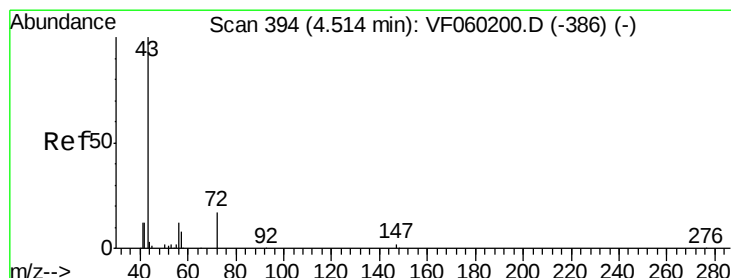
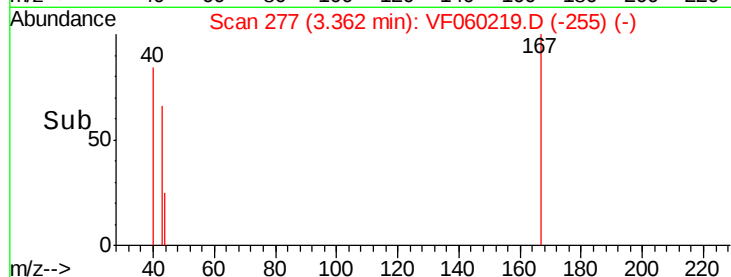
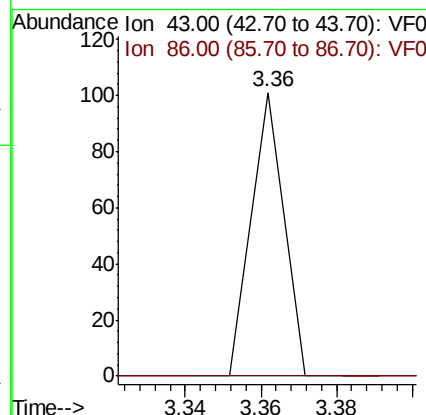
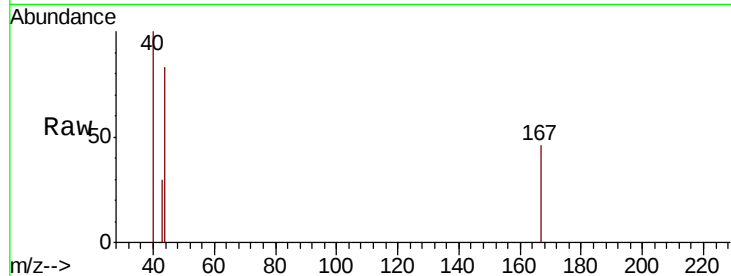




#23  
 Vinyl Acetate  
 Concen: 22.836 ug/l  
 RT: 3.36 min Scan# 277  
 Delta R.T. 0.02 min  
 Lab File: VF060219.D  
 Acq: 7 Sep 2018 19:18

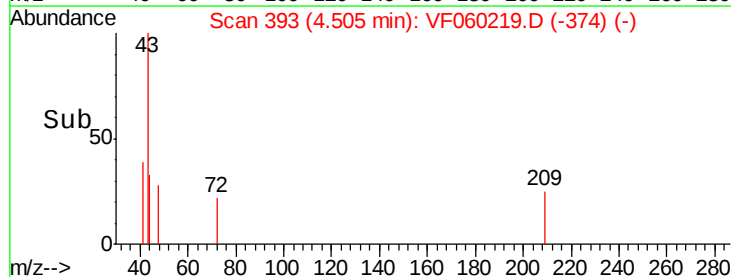
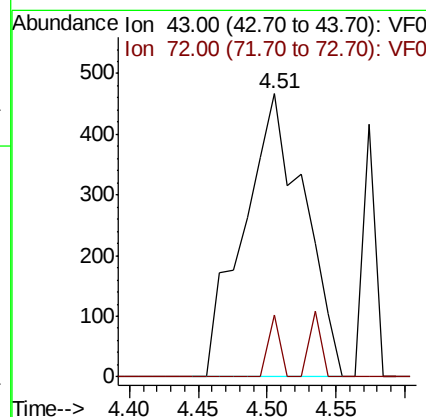
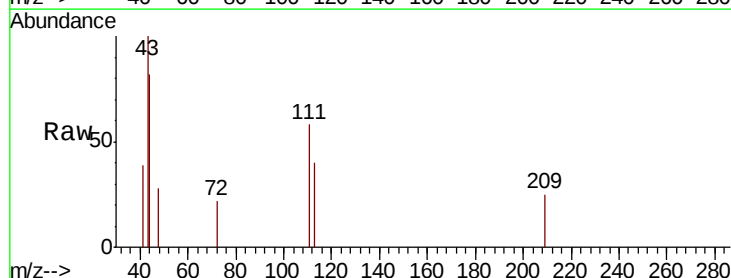
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-E6

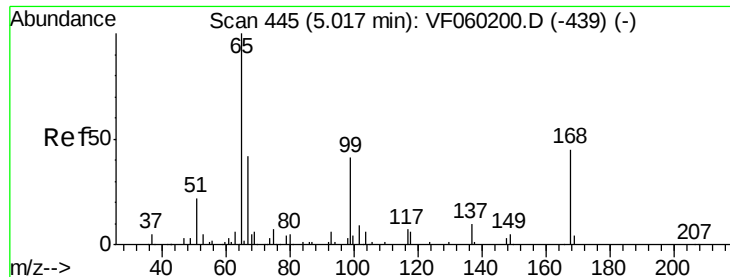
Tgt Ion: 43 Resp: 60  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 4.8 7.2#



#25  
 2-Butanone  
 Concen: 2.365 ug/l  
 RT: 4.51 min Scan# 393  
 Delta R.T. -0.01 min  
 Lab File: VF060219.D  
 Acq: 7 Sep 2018 19:18

Tgt Ion: 43 Resp: 1428  
 Ion Ratio Lower Upper  
 43 100  
 72 22.1 14.8 22.2

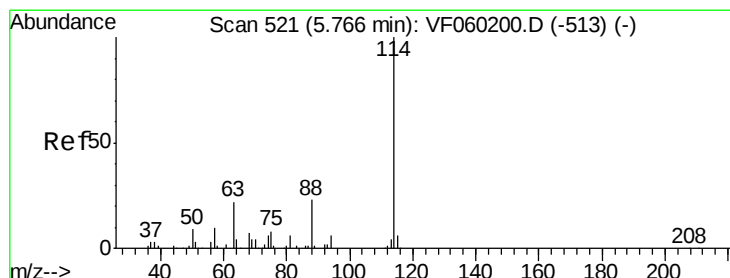
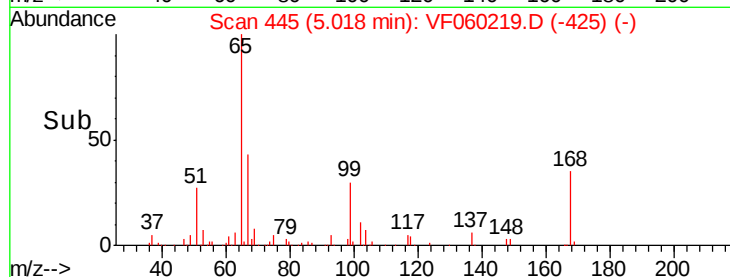
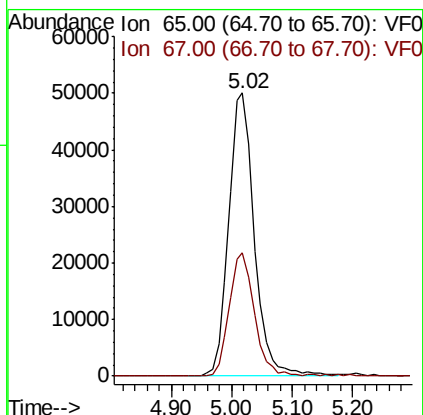
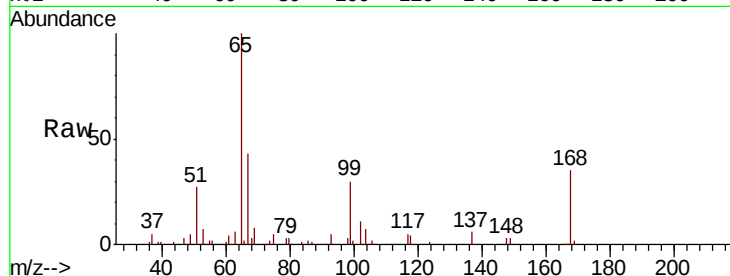




#33  
 1,2-Dichloroethane-d4  
 Concen: 68.537 ug/l  
 RT: 5.02 min Scan# 445  
 Delta R.T. 0.00 min  
 Lab File: VF060219.D  
 Acq: 7 Sep 2018 19:18

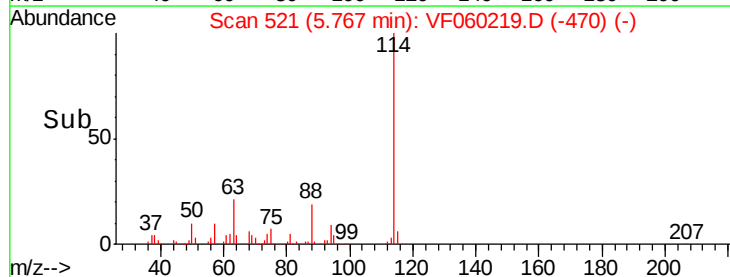
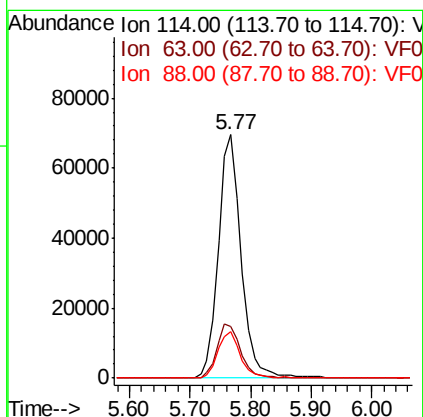
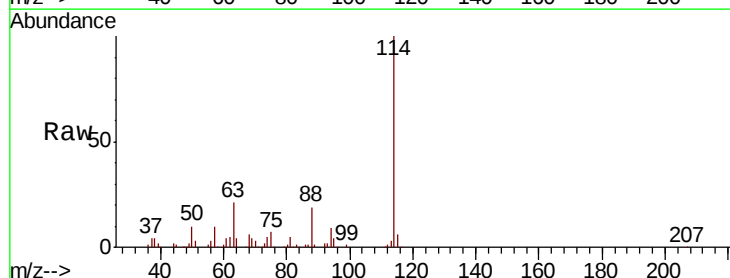
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 MSVOA\_F  
 ClientSampleId :  
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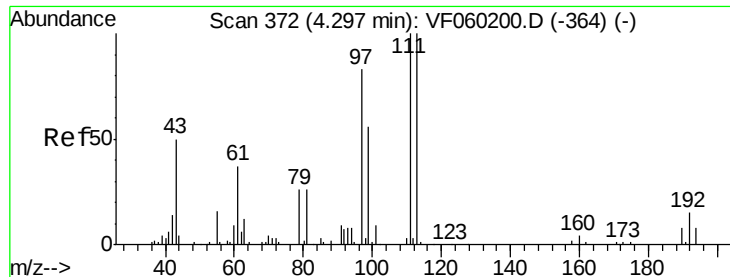
Tgt Ion: 65 Resp: 147211  
 Ion Ratio Lower Upper  
 65 100  
 67 43.4 0.0 87.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.77 min Scan# 521  
 Delta R.T. 0.00 min  
 Lab File: VF060219.D  
 Acq: 7 Sep 2018 19:18

Tgt Ion: 114 Resp: 182281  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 45.6  
 88 19.1 0.0 46.4

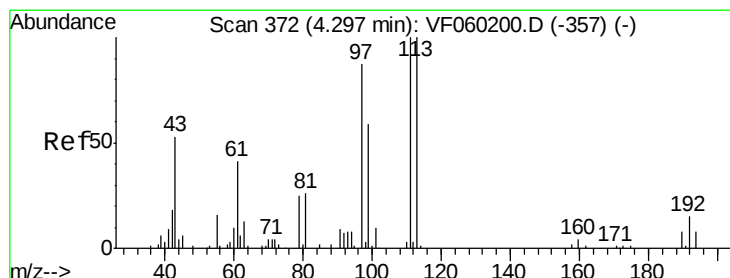
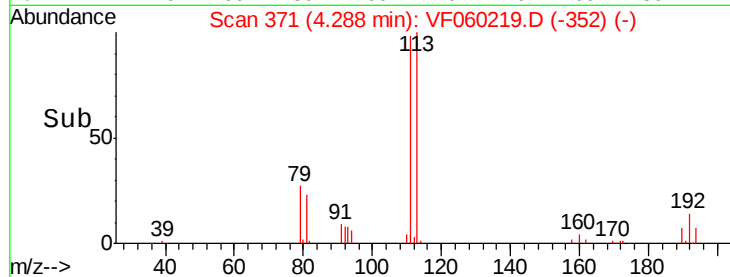
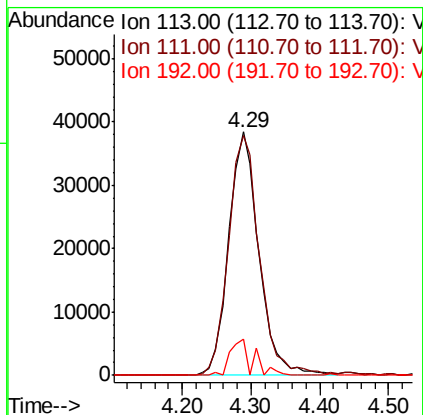
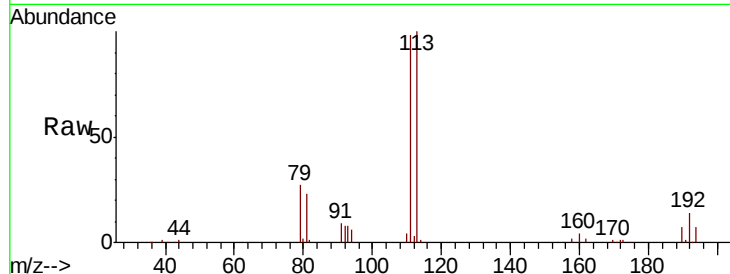




#35  
 Dibromofluoromethane  
 Concen: 65.323 ug/l  
 RT: 4.29 min Scan# 371  
 Delta R.T. -0.01 min  
 Lab File: VF060219.D  
 Acq: 7 Sep 2018 19:18

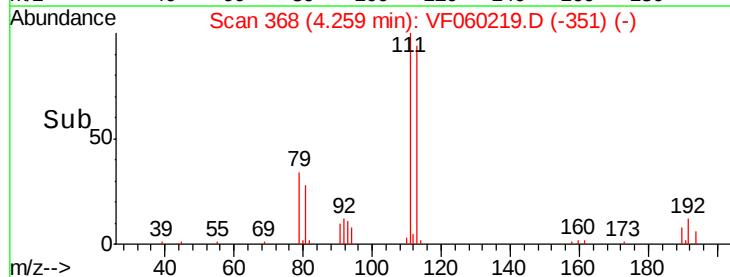
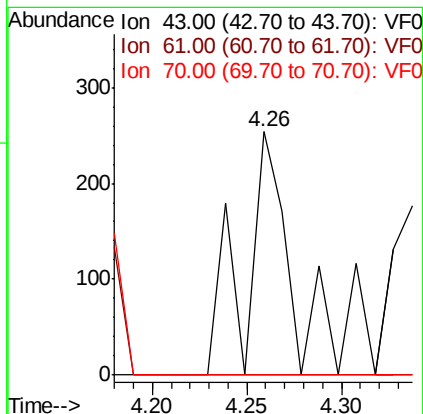
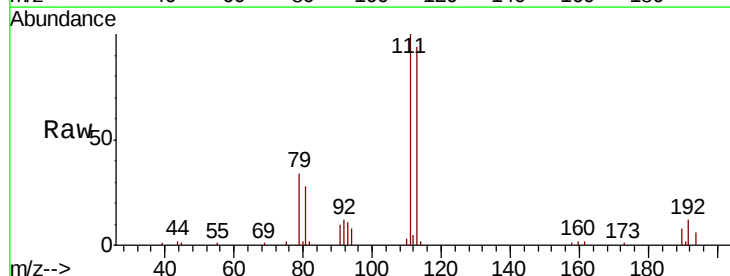
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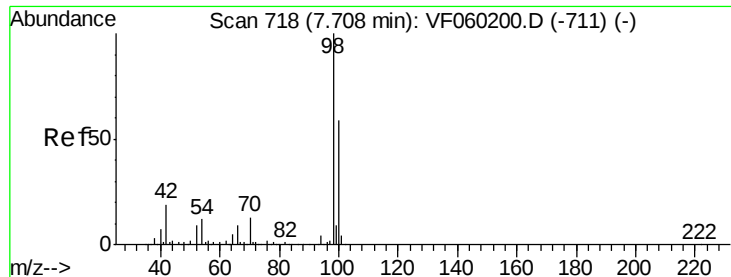
Tgt Ion: 113 Resp: 116657  
 Ion Ratio Lower Upper  
 113 100  
 111 98.5 80.2 120.2  
 192 14.7 11.8 17.8



#37  
 Ethyl Acetate  
 Concen: Below Cal  
 RT: 4.26 min Scan# 368  
 Delta R.T. -0.04 min  
 Lab File: VF060219.D  
 Acq: 7 Sep 2018 19:18

Tgt Ion: 43 Resp: 426  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 61.6 92.4#  
 70 0.0 6.9 10.3#

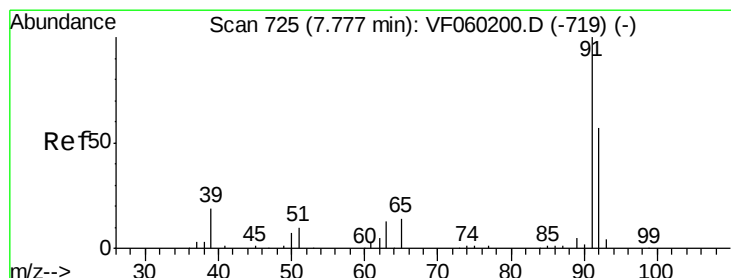
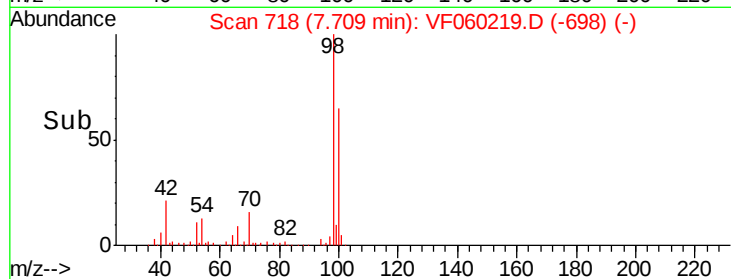
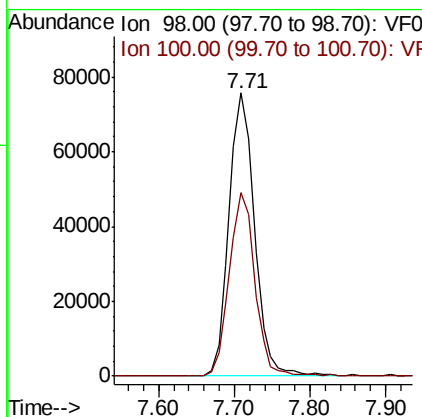
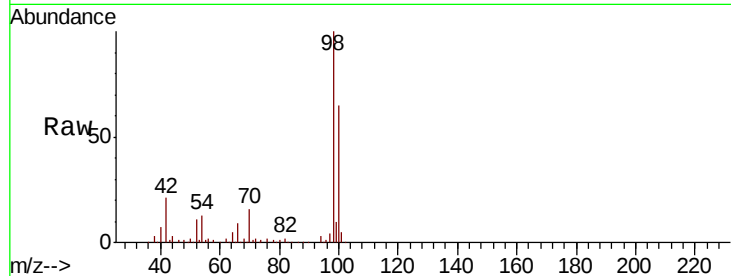




#50  
Toluene-d8  
Concen: 39.836 ug/l  
RT: 7.71 min Scan# 718  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

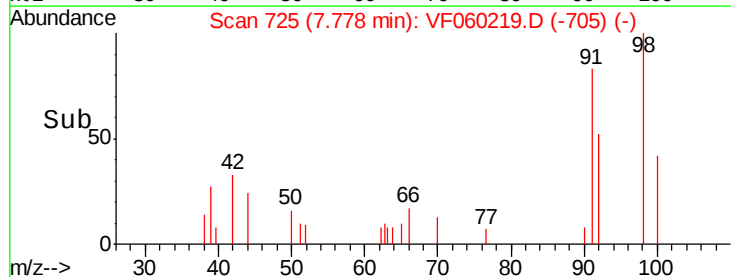
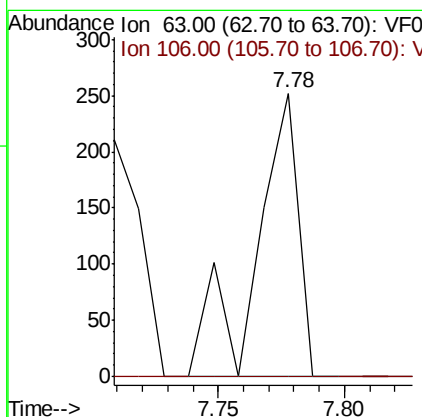
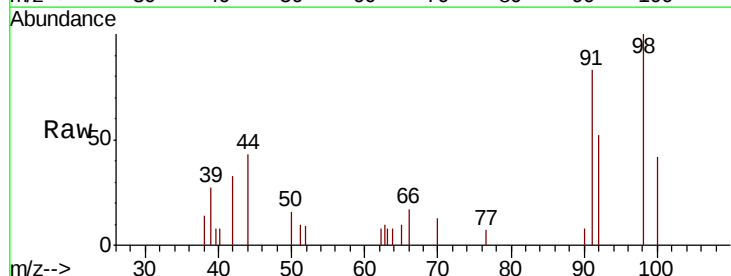
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-E6

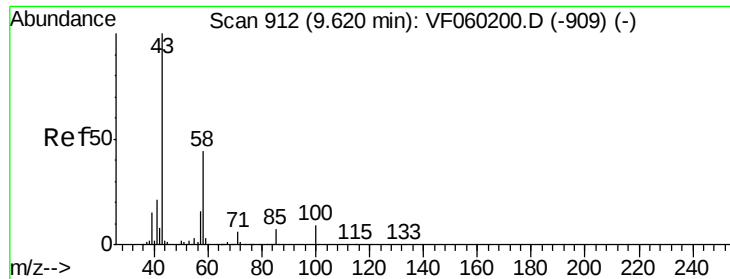
Tgt Ion: 98 Resp: 177526  
Ion Ratio Lower Upper  
98 100  
100 64.8 47.4 71.0



#58  
2-Chloroethyl Vinyl ether  
Concen: 2.234 ug/l  
RT: 7.78 min Scan# 725  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Tgt Ion: 63 Resp: 299  
Ion Ratio Lower Upper  
63 100  
106 0.0 0.0 0.0

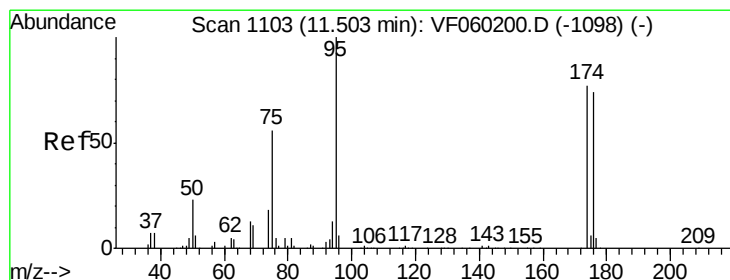
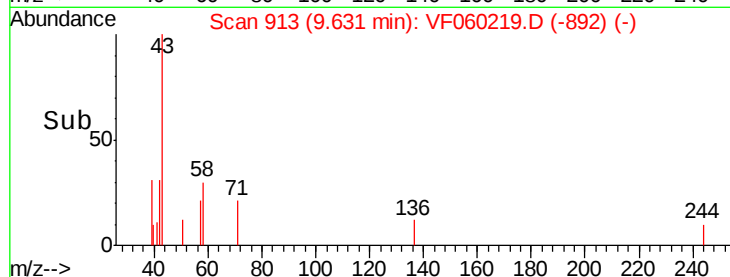
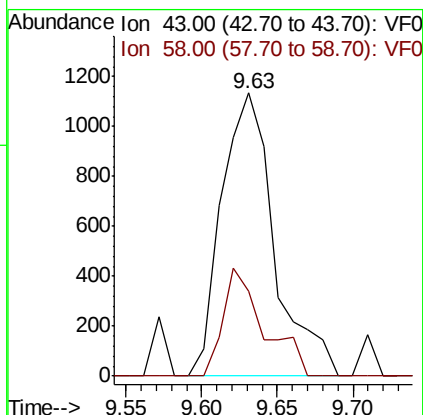
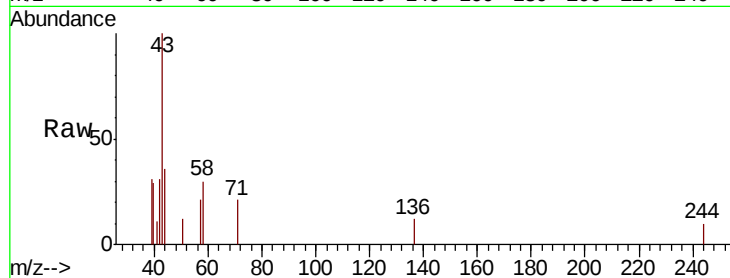




#59  
2-Hexanone  
Concen: 2.173 ug/l  
RT: 9.63 min Scan# 913  
Delta R.T. 0.01 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

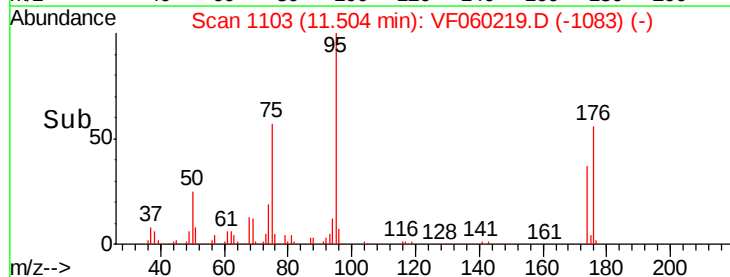
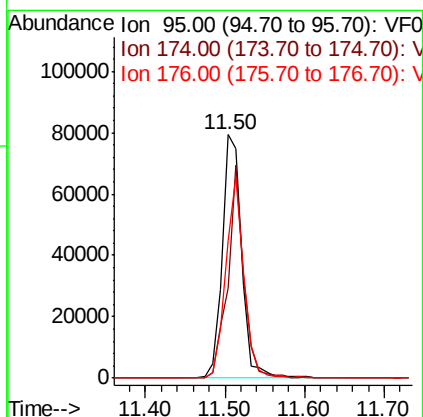
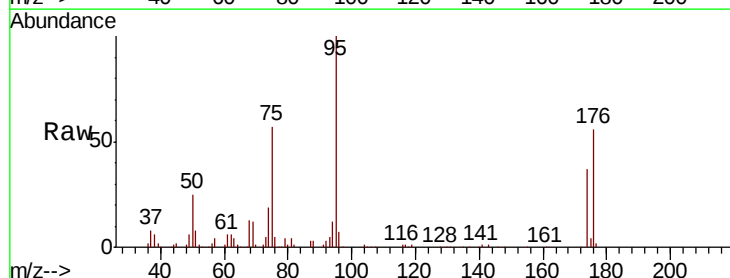
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-E6

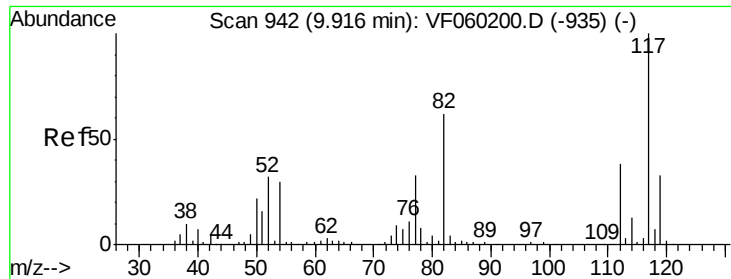
Tgt Ion: 43 Resp: 2767  
Ion Ratio Lower Upper  
43 100  
58 30.1 20.8 62.5



#62  
4-Bromofluorobenzene  
Concen: 54.306 ug/l  
RT: 11.50 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Tgt Ion: 95 Resp: 136548  
Ion Ratio Lower Upper  
95 100  
174 36.8 0.0 153.2  
176 56.3 0.0 147.2

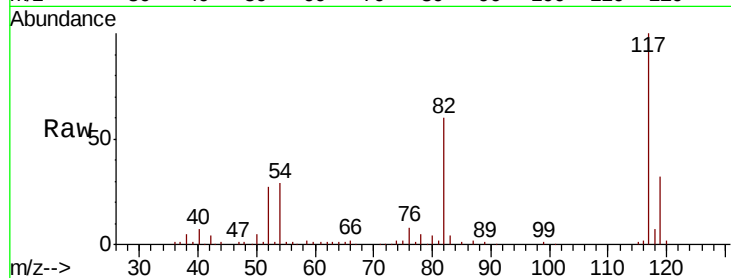




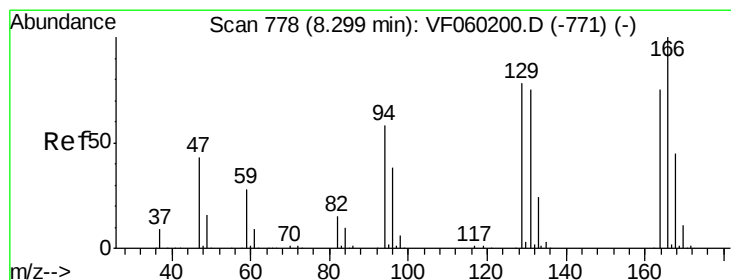
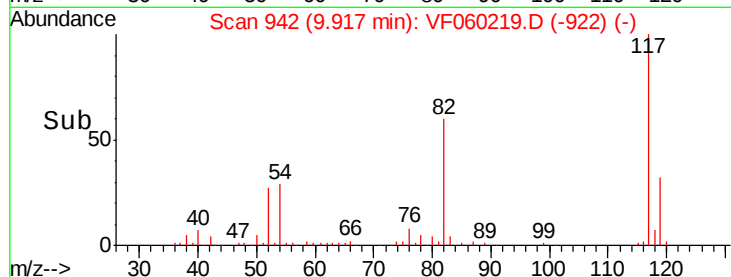
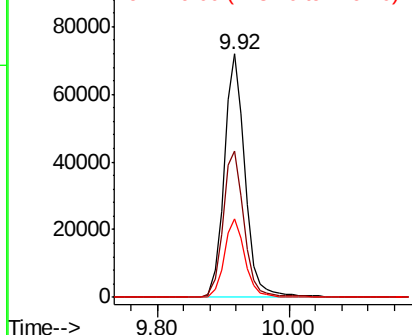
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.92 min Scan# 942  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-E6

Tgt Ion:117 Resp: 158887  
Ion Ratio Lower Upper  
117 100  
82 60.1 49.3 73.9  
119 32.3 26.5 39.7

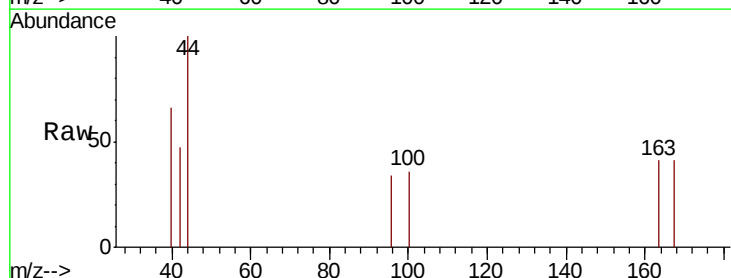


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

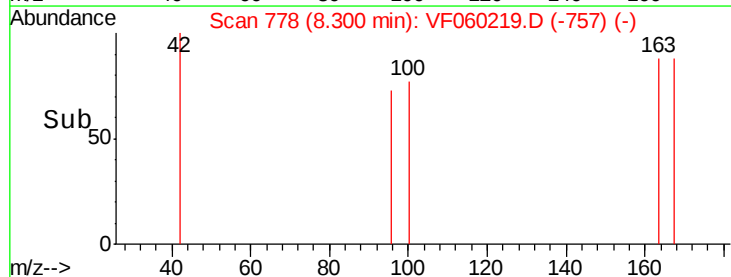
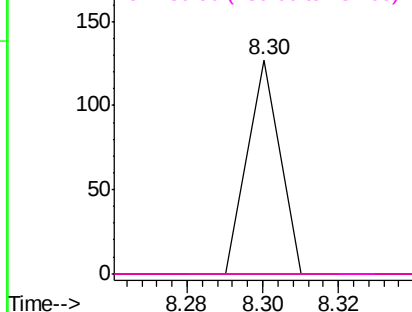


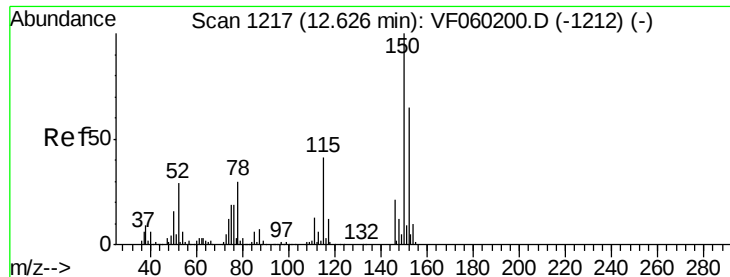
#64  
Tetrachloroethene  
Concen: Below Cal  
RT: 8.30 min Scan# 778  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Tgt Ion:164 Resp: 75  
Ion Ratio Lower Upper  
164 100  
166 0.0 107.0 160.4#  
129 0.0 83.0 124.6#  
131 0.0 79.8 119.8#



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V



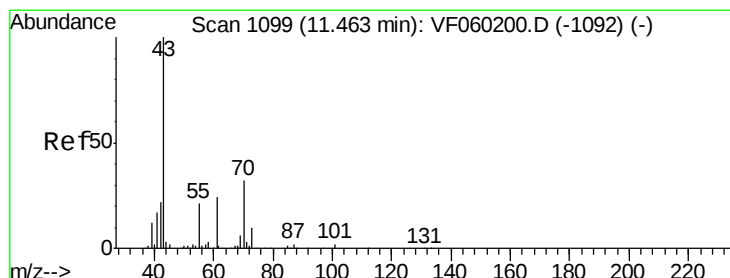
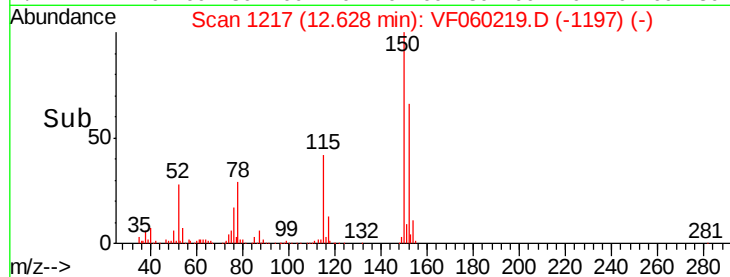
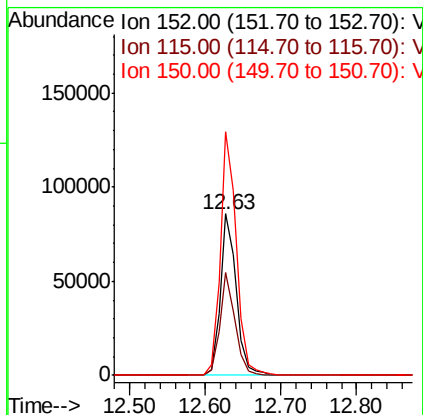
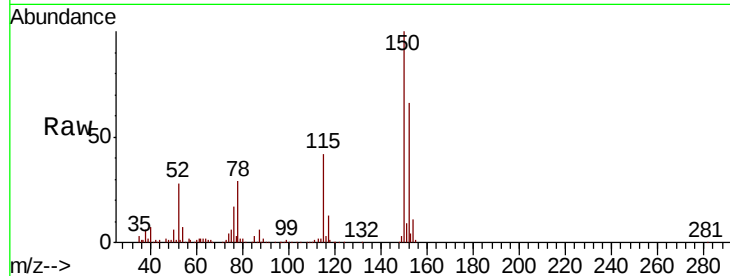


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.63 min Scan# 1217  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-E6

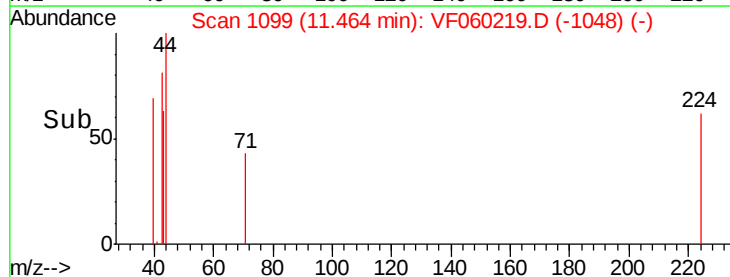
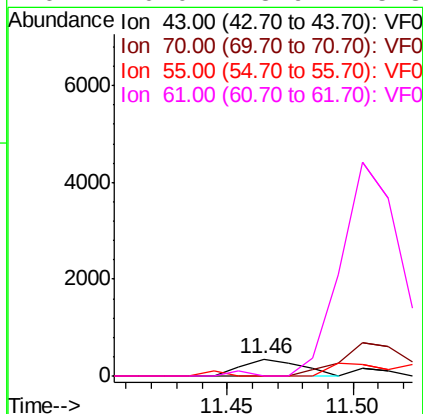
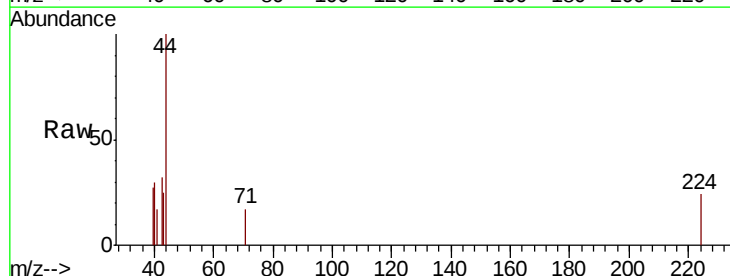
Tgt Ion:152 Resp: 127110  
Ion Ratio Lower Upper  
152 100  
115 63.4 31.5 94.5  
150 150.6 0.0 310.4

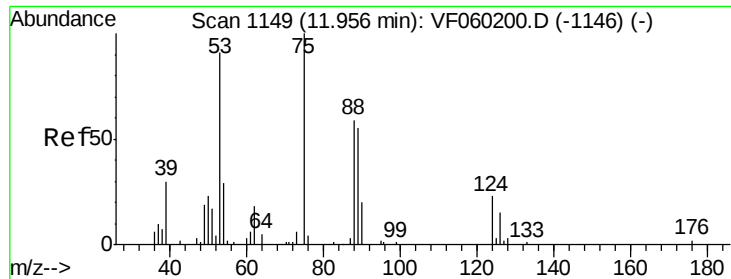


#74

N-ethyl acetate  
Concen: 5.093 ug/l  
RT: 11.46 min Scan# 1099  
Delta R.T. 0.00 min  
Lab File: VF060219.D  
Acq: 7 Sep 2018 19:18

Tgt Ion: 43 Resp: 576  
Ion Ratio Lower Upper  
43 100  
70 0.0 25.8 38.6#  
55 0.0 16.8 25.2#  
61 0.0 18.9 28.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 3.023 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF060219.D

Acq: 7 Sep 2018 19:18

Instrument :

MSVOA\_F

ClientSampleId :

EP1-Q2-E6

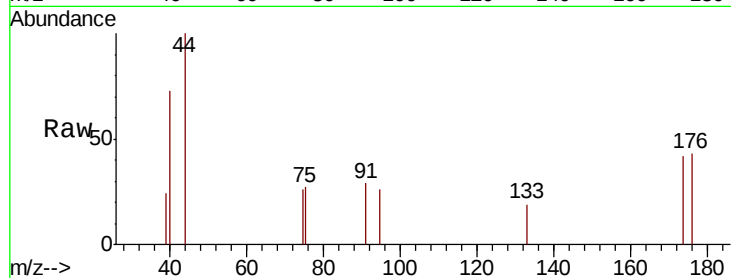
Tgt Ion: 75 Resp: 165

Ion Ratio Lower Upper

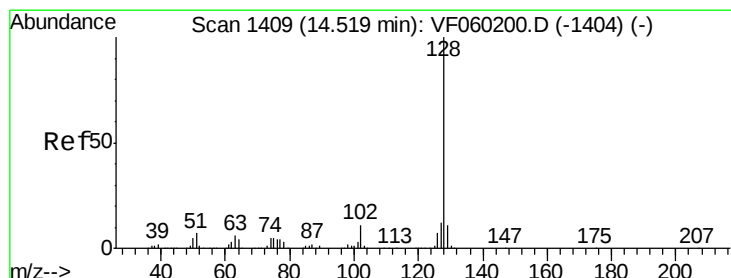
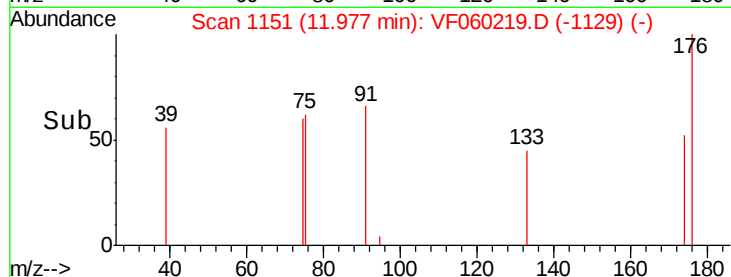
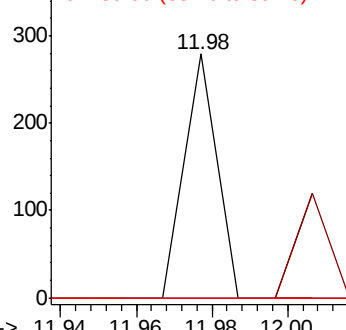
75 100

53 0.0 76.5 114.7#

89 0.0 46.5 69.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0  
Ion 53.00 (52.70 to 53.70): VF0  
Ion 89.00 (88.70 to 89.70): VF0



#95

Naphthalene

Concen: 2.840 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.00 min

Lab File: VF060219.D

Acq: 7 Sep 2018 19:18

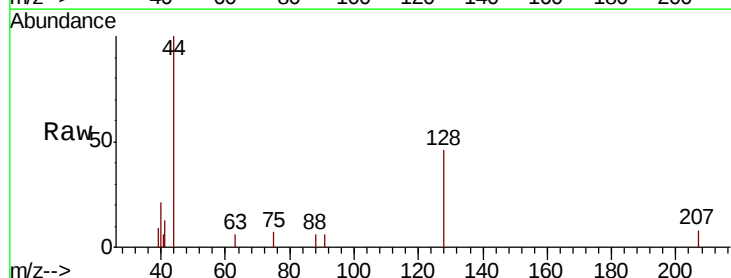
Tgt Ion: 128 Resp: 1166

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 8.9 13.3#



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

