

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\  
 Data File : VD062003.D  
 Acq On : 24 Apr 2019 17:51  
 Operator : VA/AP  
 Sample : K2539-02RE  
 Misc : 4.42g/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-SF-03-006-ARE

Quant Time: Apr 25 02:08:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 14:52:55 2019  
 Response via : Initial Calibration

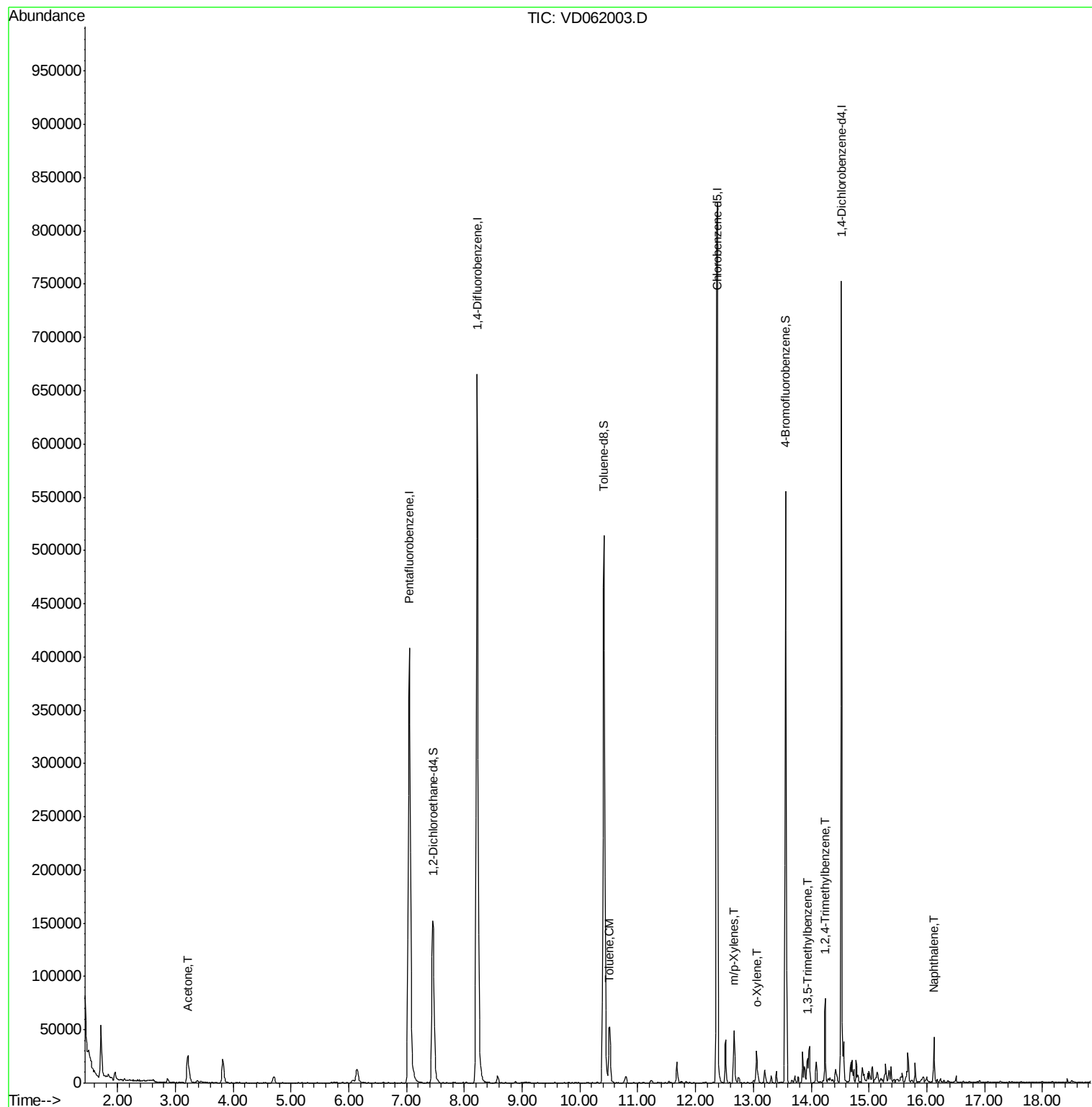
| Internal Standards          | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 7.05   | 168  | 429557   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.22   | 114  | 752147   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 12.37  | 117  | 540092   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 14.52  | 152  | 165518   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |        |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.45   | 65   | 162258   | 48.26  | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 96.52% |          |
| 35) Dibromofluoromethane    | 0.00   | 113  | 0        | 0.00   | ug/l   |          |
| Spiked Amount               | 50.000 |      | Recovery | =      | 0.00%  |          |
| 50) Toluene-d8              | 10.41  | 98   | 462430   | 37.36  | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 74.72% |          |
| 62) 4-Bromofluorobenzene    | 13.56  | 95   | 173253   | 34.90  | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 69.80% |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 16) Acetone                 | 3.22   | 43   | 49288    | 61.400 | ug/l # | 88       |
| 52) Toluene                 | 10.51  | 92   | 29818    | 3.224  | ug/l   | 98       |
| 68) m/p-Xylenes             | 12.66  | 106  | 16581    | 2.754  | ug/l   | 96       |
| 69) o-Xylene                | 13.05  | 106  | 7728     | 1.403  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene  | 13.94  | 105  | 12233    | 1.390  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene  | 14.24  | 105  | 38235    | 4.548  | ug/l   | 99       |
| 95) Naphthalene             | 16.12  | 128  | 26453    | 6.637  | ug/l   | 97       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD042419\  
Data File : VD062003.D  
Acq On : 24 Apr 2019 17:51  
Operator : VA/AP  
Sample : K2539-02RE  
Misc : 4.42g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-SF-03-006-ARE

Quant Time: Apr 25 02:08:52 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 23 14:52:55 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA\_D

ClientSampleId :

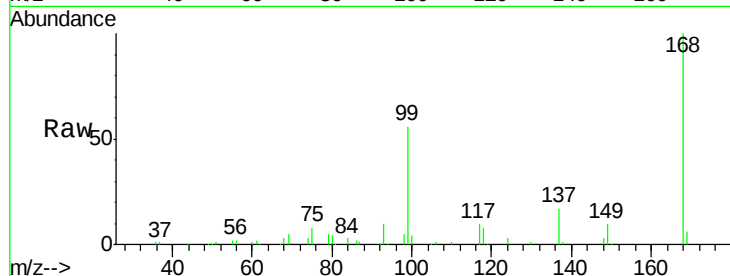
FK-SF-03-006-ARE

Tot Ion:168 Resp: 429557

Ion Ratio Lower Upper

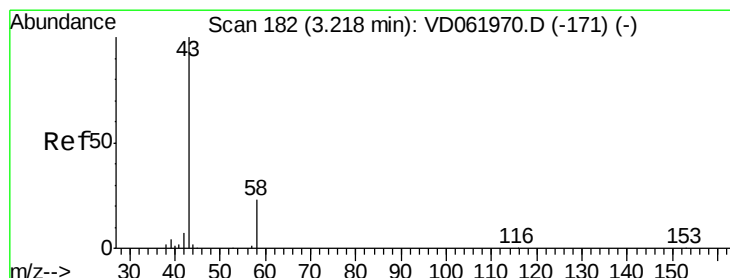
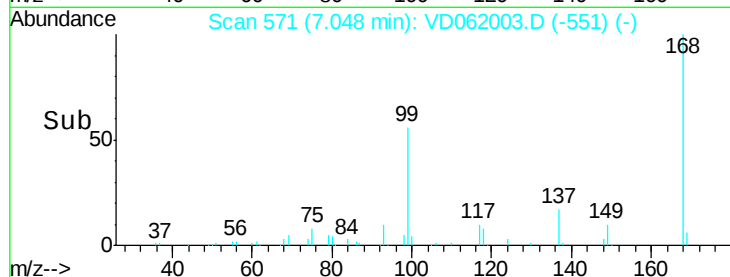
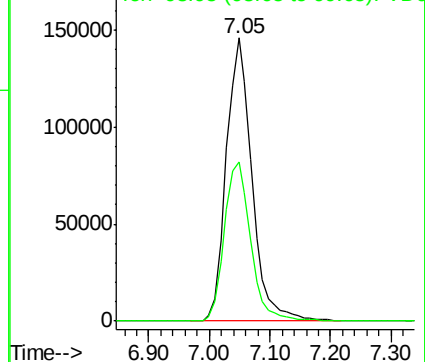
168 100

99 56.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 61.400 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD062003.D

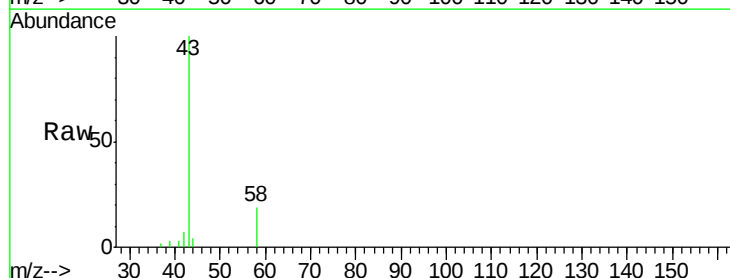
Acq: 24 Apr 2019 17:51

Tgt Ion: 43 Resp: 49288

Ion Ratio Lower Upper

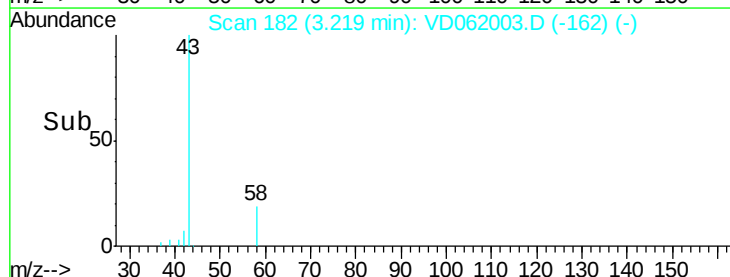
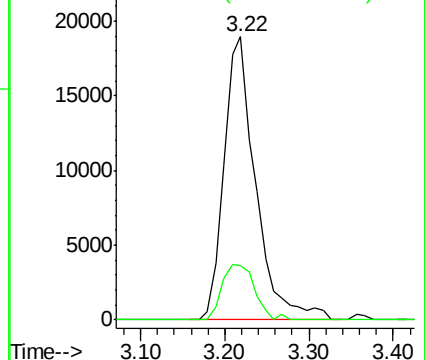
43 100

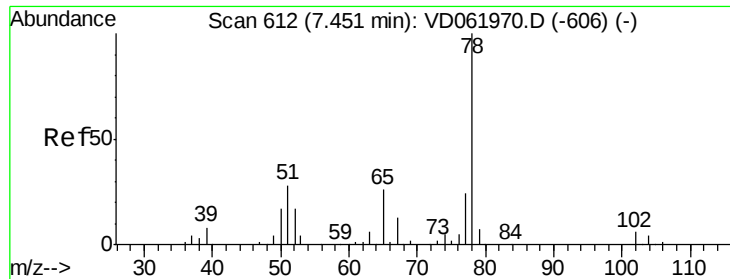
58 19.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 48.263 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA\_D

ClientSampleId :

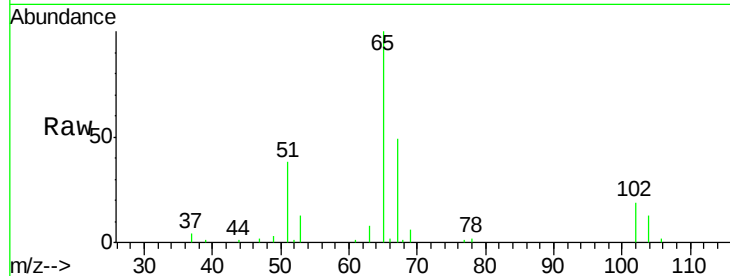
FK-SF-03-006-ARE

Tot Ion: 65 Resp: 162258

Ion Ratio Lower Upper

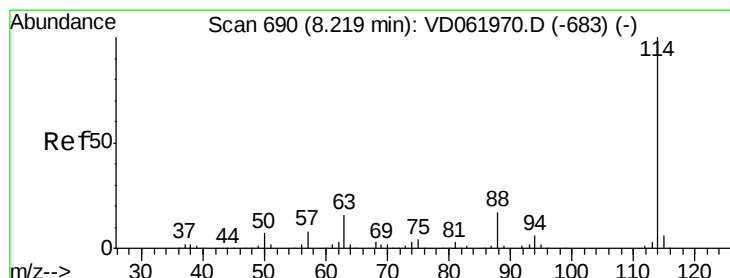
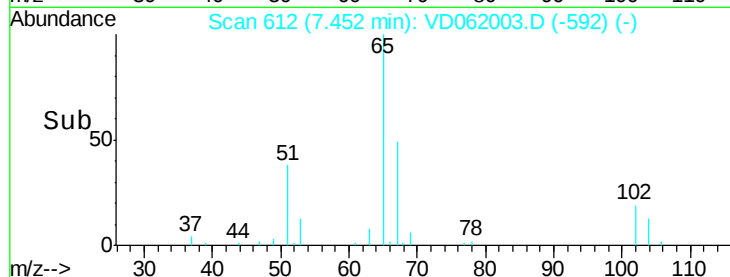
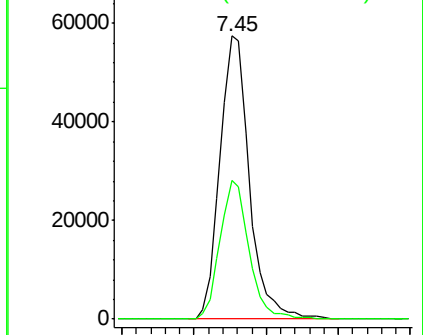
65 100

67 48.8 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

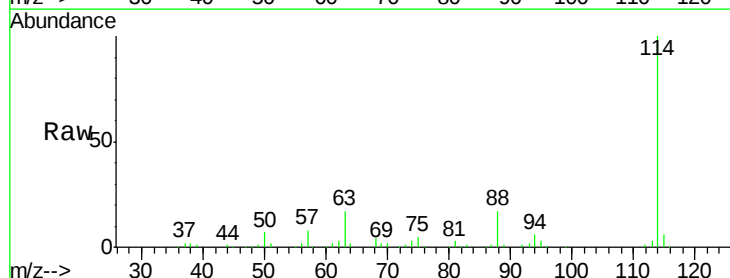
Tgt Ion: 114 Resp: 752147

Ion Ratio Lower Upper

114 100

63 17.1 0.0 32.4

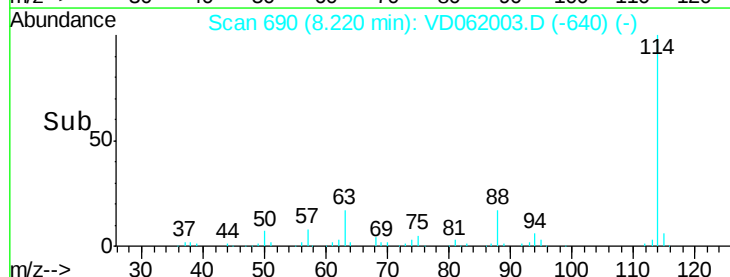
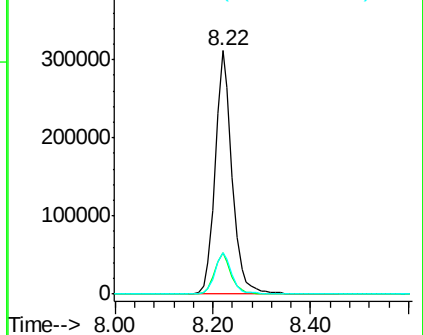
88 17.0 0.0 33.6

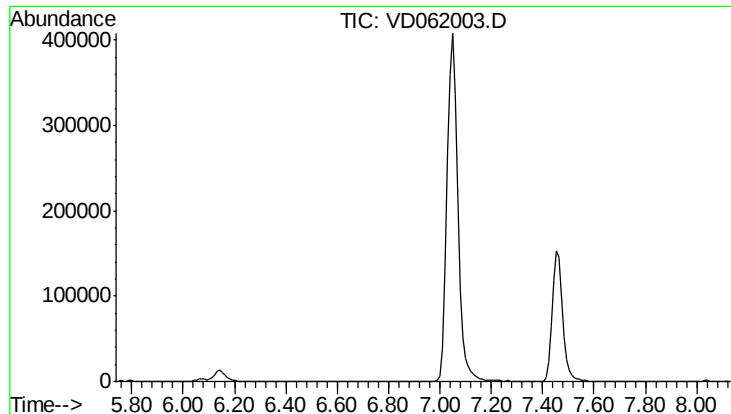


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

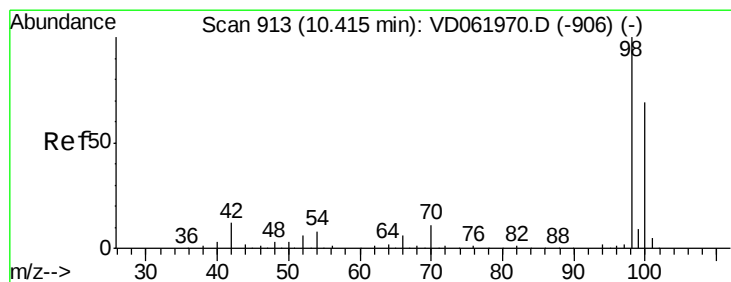
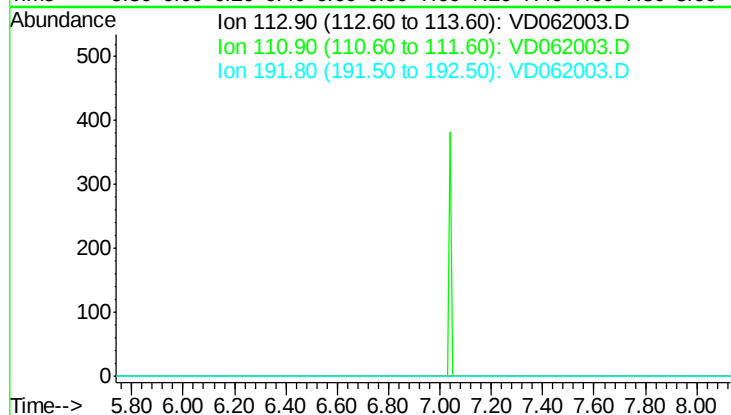




#35  
 Dibromofluoromethane  
 Concen: 0.000 ug/l  
 Expected RT: 6.93 min  
 Lab File: VD062003.D  
 Acq: 24 Apr 2019 17:51

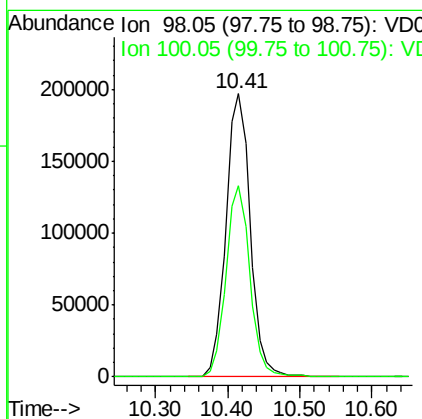
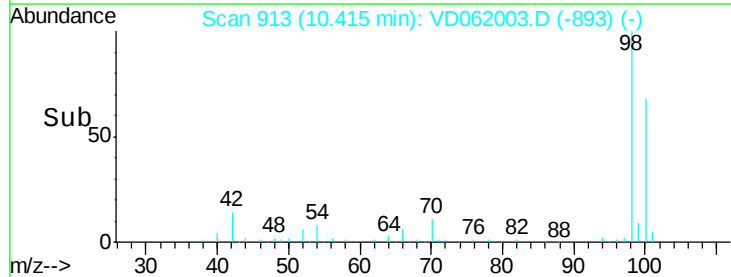
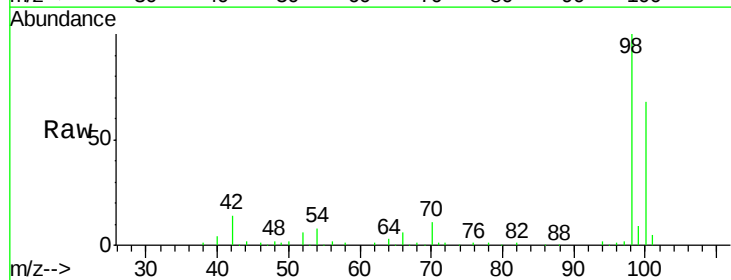
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-SF-03-006-ARE

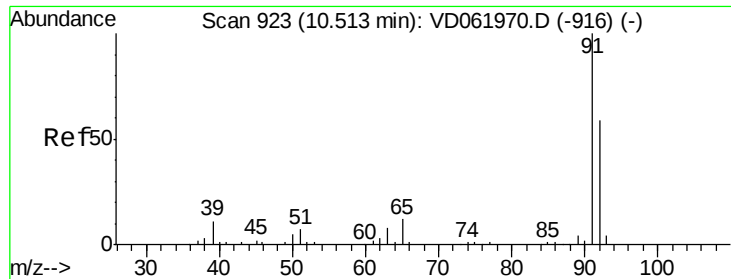
Tot Ion: 113  
 Sig Exp Ratio  
 113 100  
 111 98.1  
 192 16.2



#50  
 Toluene-d8  
 Concen: 37.360 ug/l  
 RT: 10.41 min Scan# 913  
 Delta R.T. -0.00 min  
 Lab File: VD062003.D  
 Acq: 24 Apr 2019 17:51

Tgt Ion: 98 Resp: 462430  
 Ion Ratio Lower Upper  
 98 100  
 100 67.7 53.8 80.8





#52

Toluene

Concen: 3.224 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA\_D

ClientSampleId :

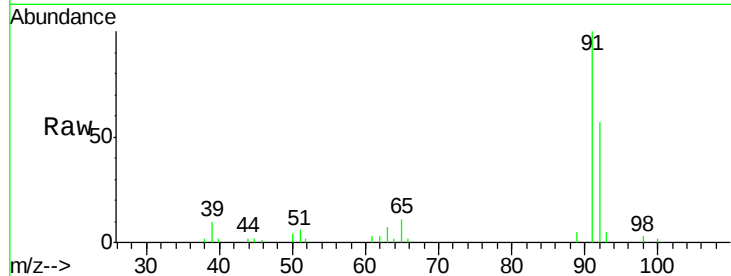
FK-SF-03-006-ARE

Tot Ion: 92 Resp: 29818

Ion Ratio Lower Upper

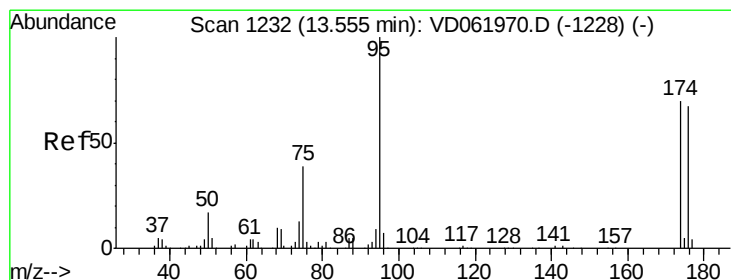
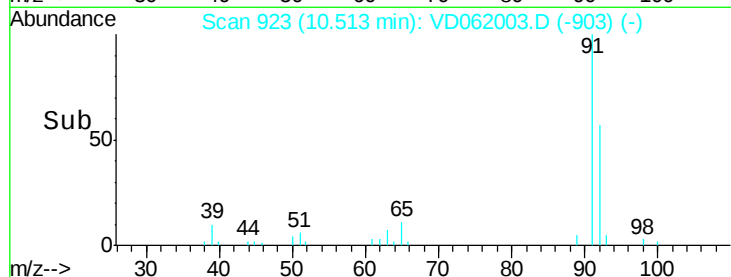
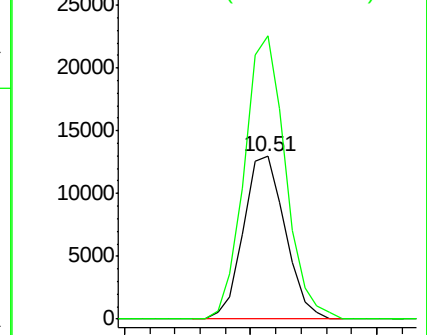
92 100

91 174.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 34.898 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

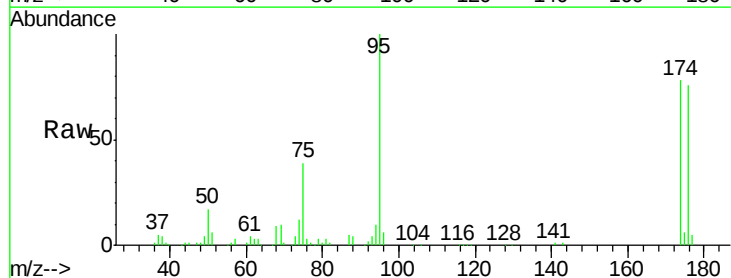
Tgt Ion: 95 Resp: 173253

Ion Ratio Lower Upper

95 100

174 77.8 0.0 181.8

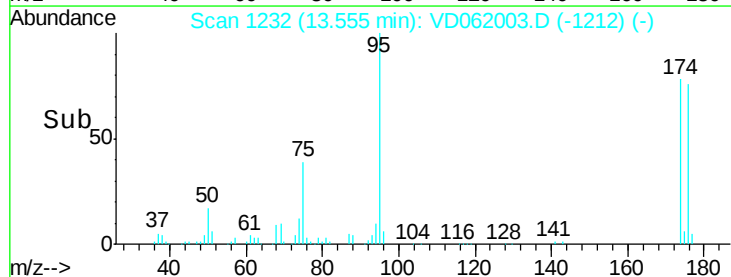
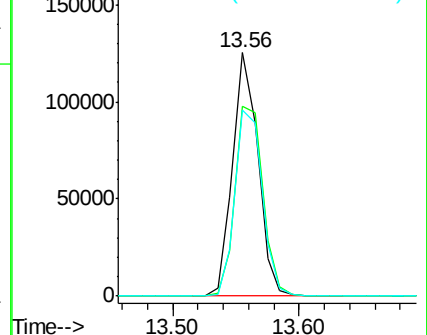
176 76.2 0.0 174.4

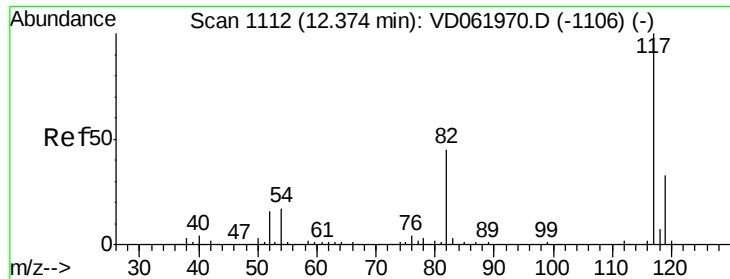


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

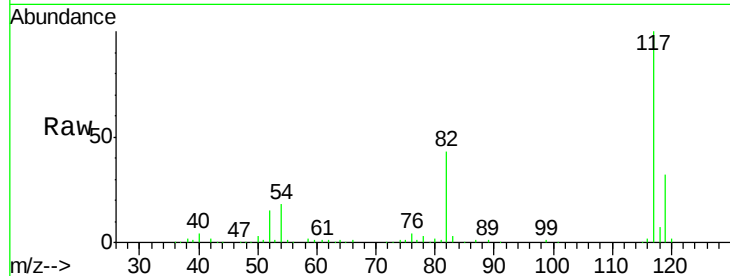




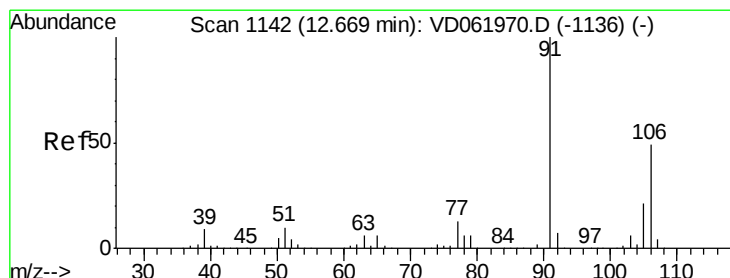
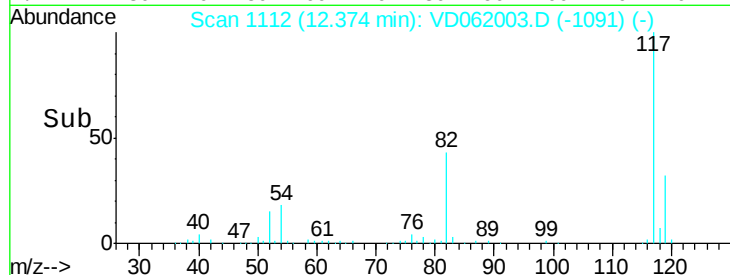
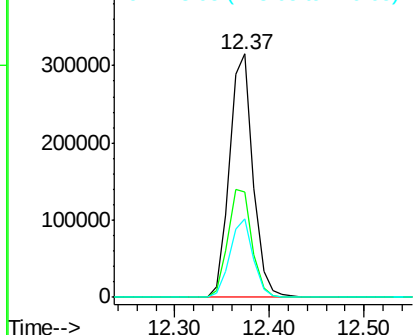
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD062003.D  
Acq: 24 Apr 2019 17:51

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-SF-03-006-ARE

Tot Ion:117 Resp: 540092  
Ion Ratio Lower Upper  
117 100  
82 43.5 36.2 54.2  
119 32.3 26.2 39.4

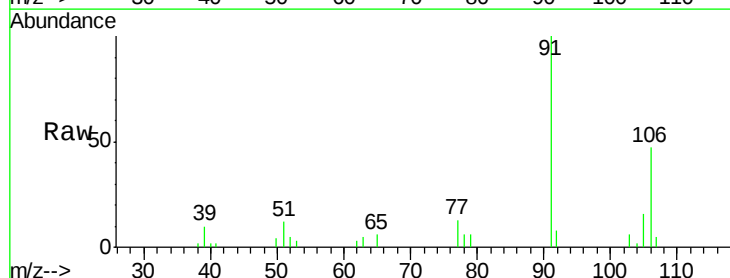


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

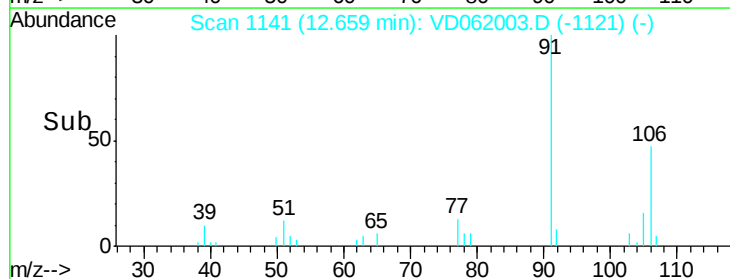
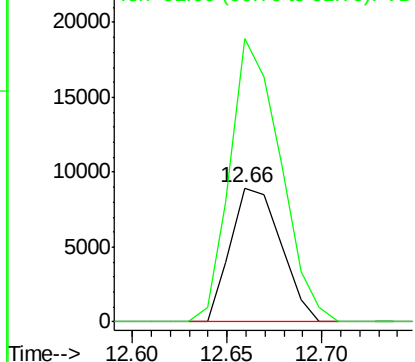


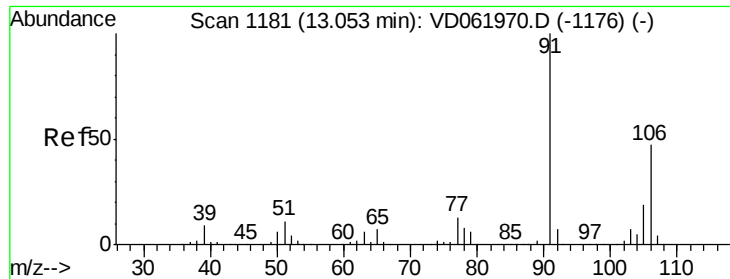
#68  
m/p-Xylenes  
Concen: 2.754 ug/l  
RT: 12.66 min Scan# 1141  
Delta R.T. -0.00 min  
Lab File: VD062003.D  
Acq: 24 Apr 2019 17:51

Tgt Ion:106 Resp: 16581  
Ion Ratio Lower Upper  
106 100  
91 210.9 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

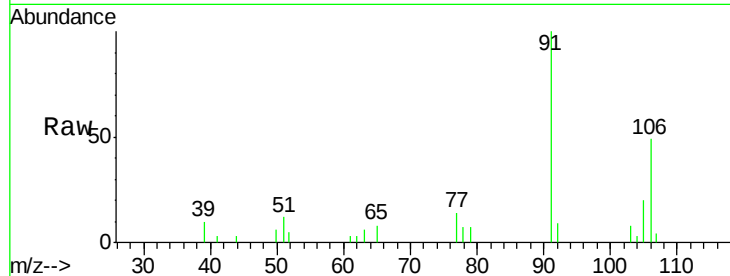




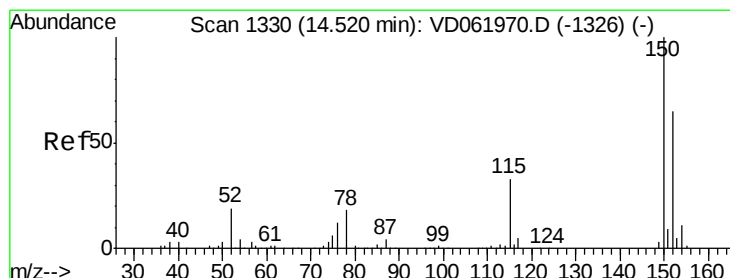
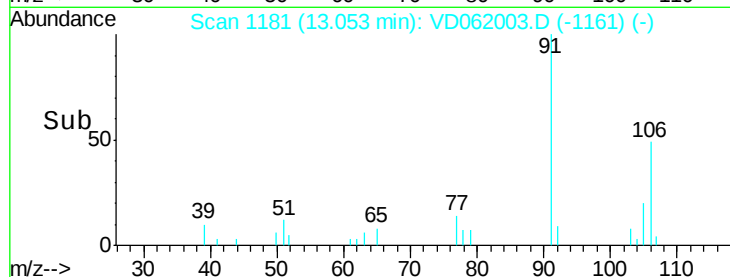
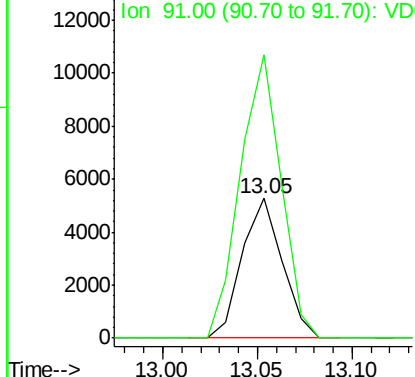
#69  
o-Xylene  
Concen: 1.403 ug/l  
RT: 13.05 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VD062003.D  
Acq: 24 Apr 2019 17:51

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-SF-03-006-ARE

Tot Ion:106 Resp: 7728  
Ion Ratio Lower Upper  
106 100  
91 202.5 106.7 319.9

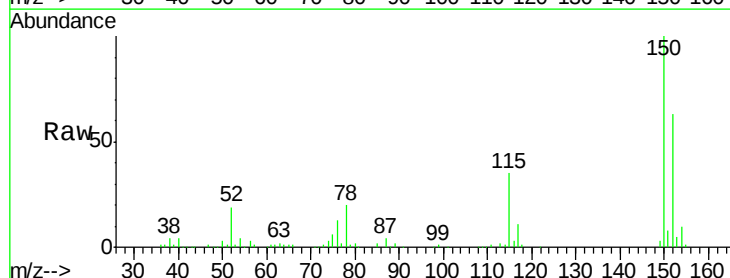


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

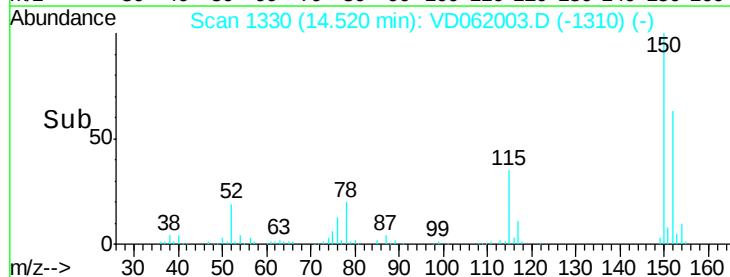
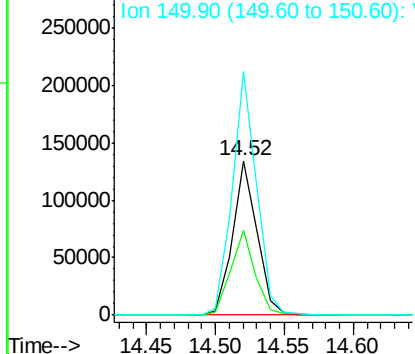


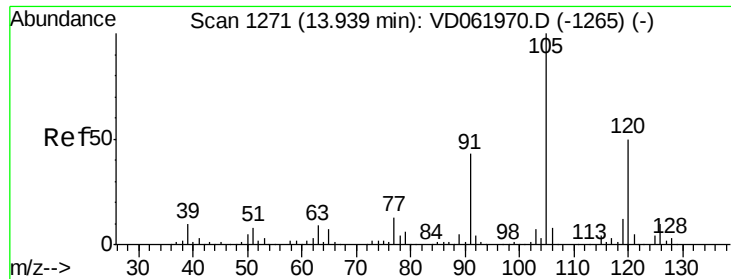
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VD062003.D  
Acq: 24 Apr 2019 17:51

Tgt Ion:152 Resp: 165518  
Ion Ratio Lower Upper  
152 100  
115 54.9 30.9 92.7  
150 157.8 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V





#80

1,3,5-Trimethylbenzene

Concen: 1.390 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA\_D

ClientSampleId :

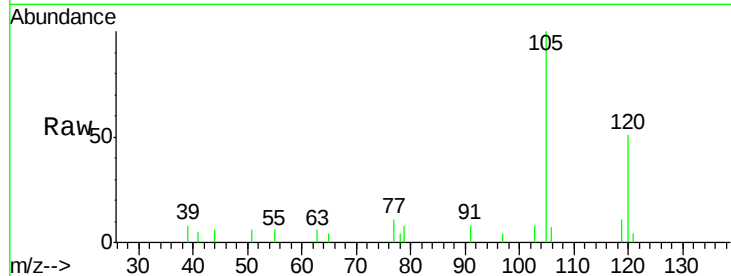
FK-SF-03-006-ARE

Tot Ion:105 Resp: 12233

Ion Ratio Lower Upper

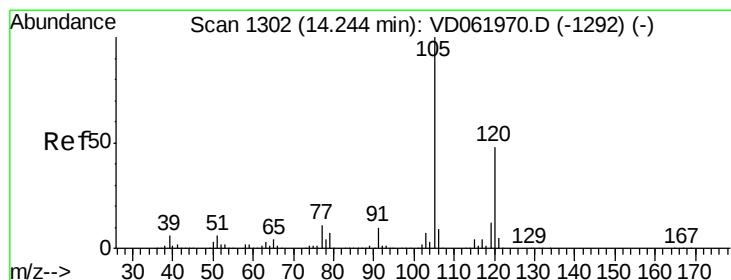
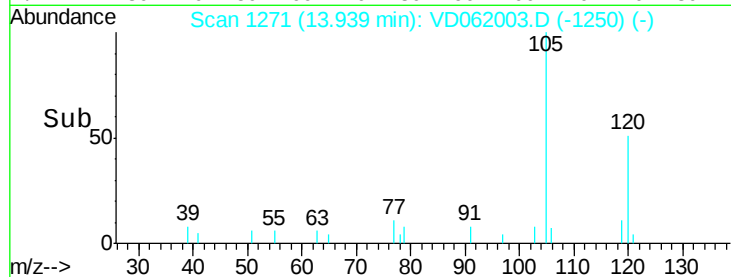
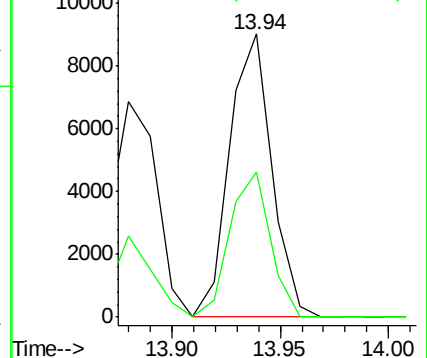
105 100

120 51.1 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#84

1,2,4-Trimethylbenzene

Concen: 4.548 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD062003.D

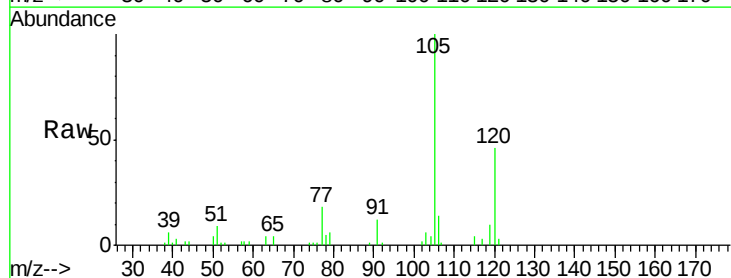
Acq: 24 Apr 2019 17:51

Tgt Ion:105 Resp: 38235

Ion Ratio Lower Upper

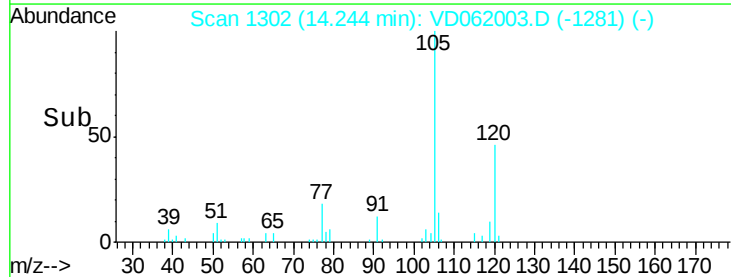
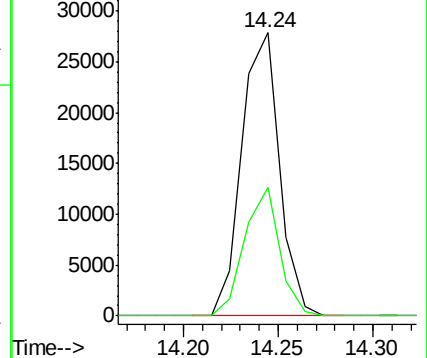
105 100

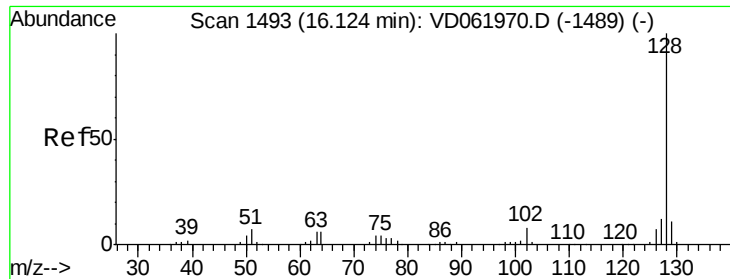
120 45.6 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 6.637 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA\_D

ClientSampleId :

FK-SF-03-006-ARE

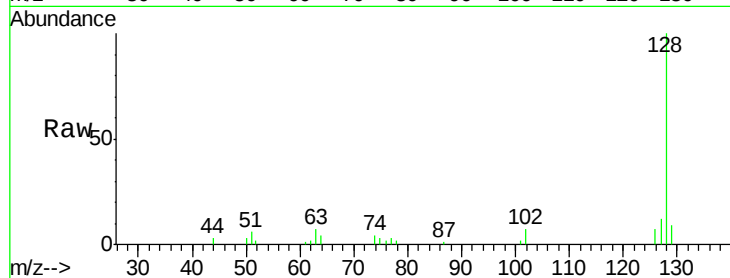
Tot Ion:128 Resp: 26453

Ion Ratio Lower Upper

128 100

127 12.1 9.8 14.8

129 9.2 8.8 13.2



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

