

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\  
 Data File : VD063182.D  
 Acq On : 22 Jul 2019 17:37  
 Operator : VA/AP  
 Sample : K3840-02  
 Misc : 4.88g/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-SF-02-005-A

Quant Time: Jul 23 08:33:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 08:11:56 2019  
 Response via : Initial Calibration

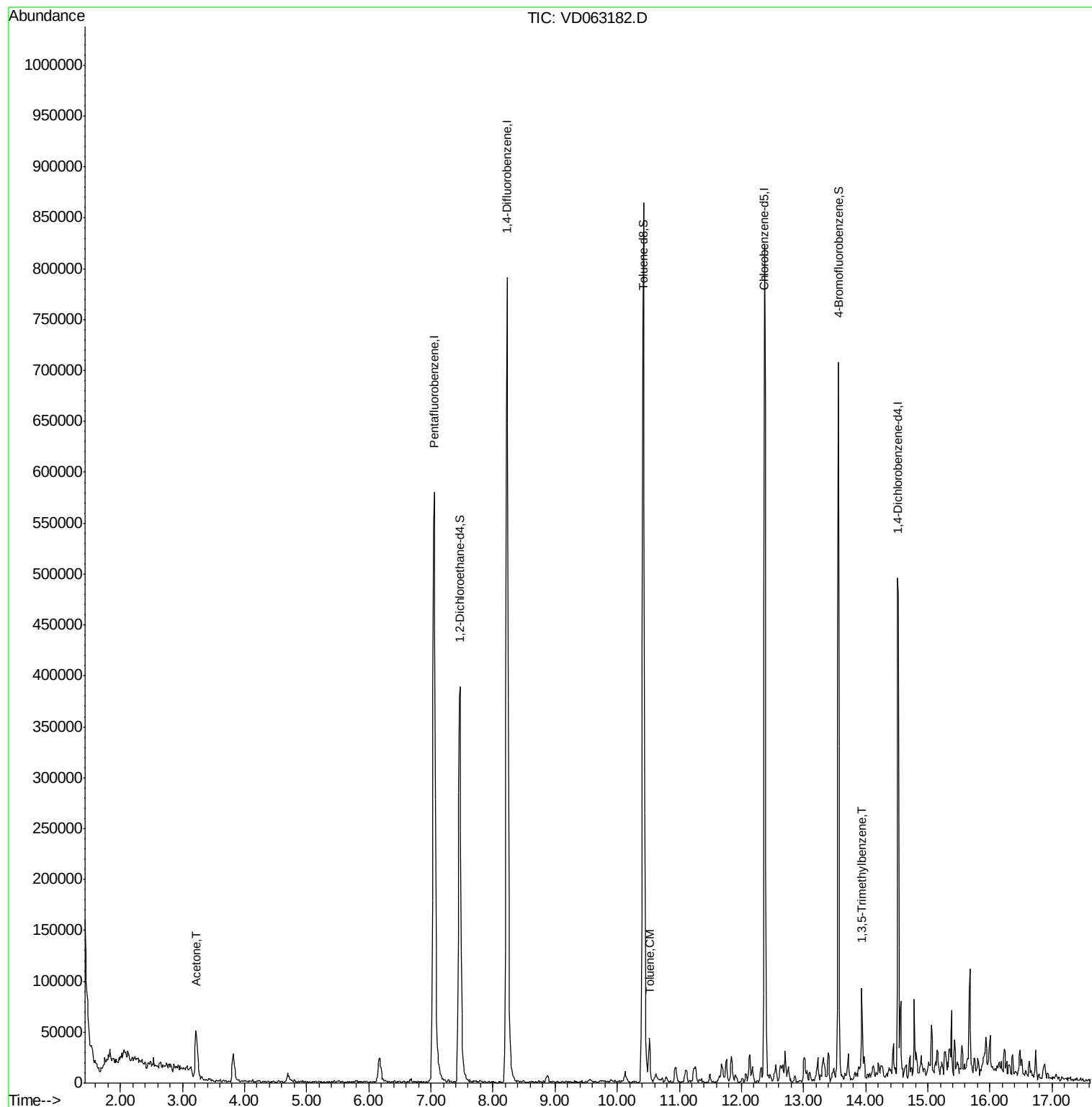
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.05  | 168  | 572727   | 50.00  | ug/l    | 0.02     |
| 34) 1,4-Difluorobenzene     | 8.23  | 114  | 872076   | 50.00  | ug/l    | 0.02     |
| 63) Chlorobenzene-d5        | 12.37 | 117  | 454656   | 50.00  | ug/l    | 0.01     |
| 72) 1,4-Dichlorobenzene-d4  | 14.53 | 152  | 122789   | 50.00  | ug/l    | 0.01     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 436098   | 61.13  | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 122.26% |          |
| 35) Dibromofluoromethane    | 7.04  | 113  | 956      | 0.11   | ug/l    | 0.13     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 0.22%   |          |
| 50) Toluene-d8              | 10.42 | 98   | 683509   | 36.63  | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 73.26%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 177118   | 20.52  | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 41.04%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.22  | 43   | 102869   | 59.698 | ug/l    | 93       |
| 52) Toluene                 | 10.52 | 92   | 18264    | 1.331  | ug/l    | 83       |
| 80) 1,3,5-Trimethylbenzene  | 13.94 | 105  | 36409    | 4.405  | ug/l    | 91       |

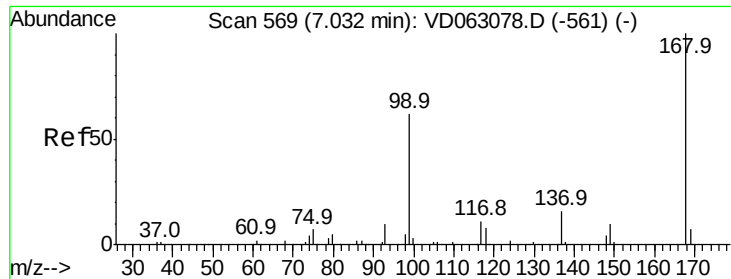
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072219\  
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MSVOA\_D  
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FK-SF-02-005-A

Quant Time: Jul 23 08:33:33 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 16 08:11:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063182.D

Acq: 22 Jul 2019 17:37

Instrument :

MSVOA\_D

ClientSampleId :

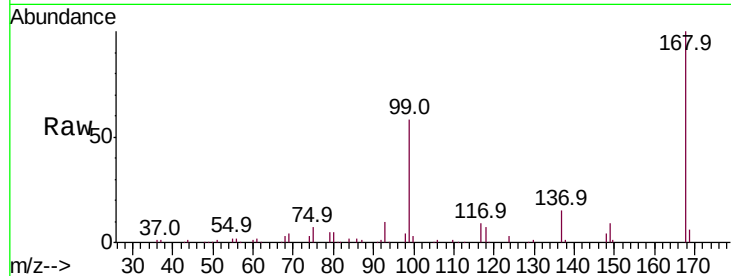
FK-SF-02-005-A

Tot Ion:168 Resp: 572727

Ion Ratio Lower Upper

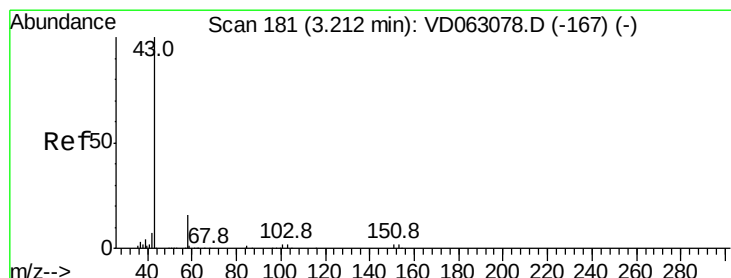
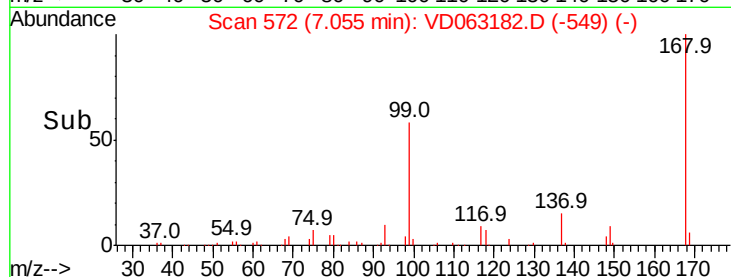
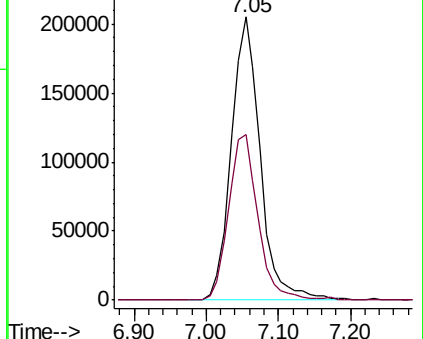
168 100

99 58.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 59.698 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063182.D

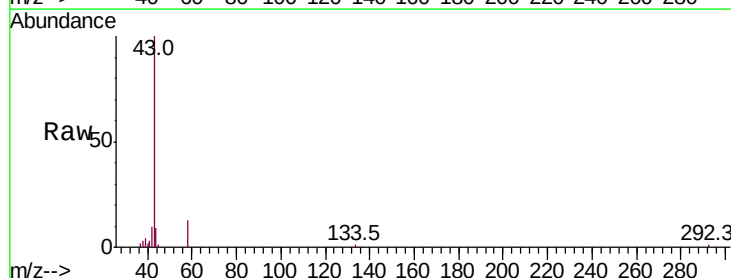
Acq: 22 Jul 2019 17:37

Tgt Ion: 43 Resp: 102869

Ion Ratio Lower Upper

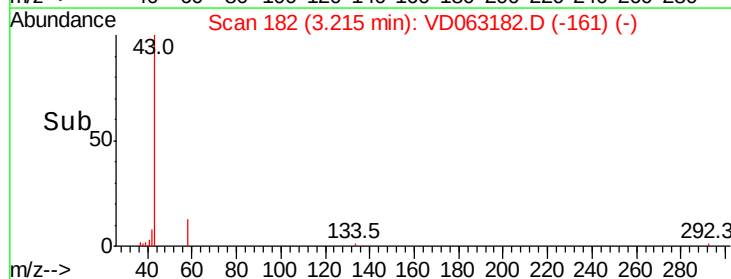
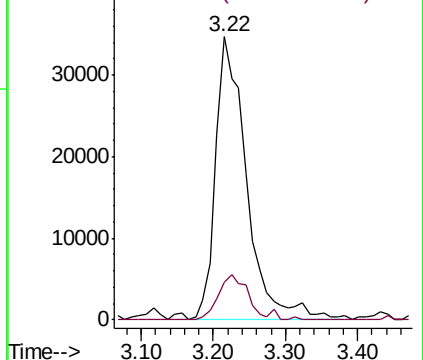
43 100

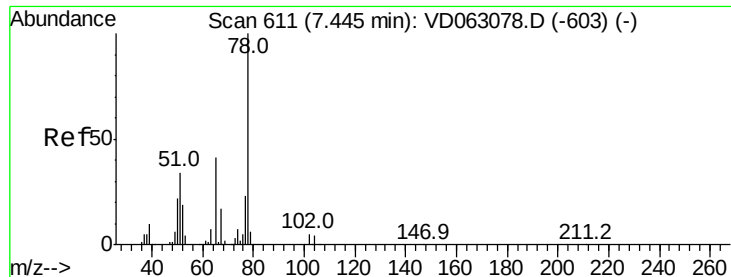
58 13.2 13.0 19.4



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: 61.126 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD063182.D

Acq: 22 Jul 2019 17:37

Instrument :

MSVOA\_D

ClientSampleId :

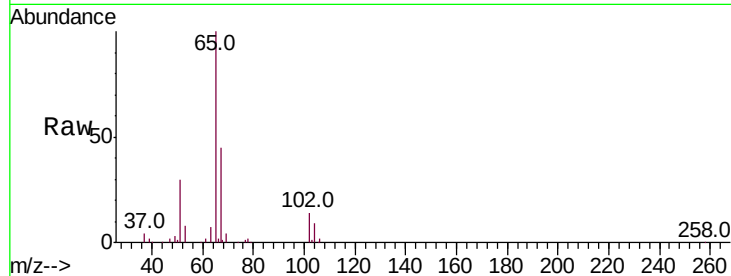
FK-SF-02-005-A

Tot Ion: 65 Resp: 436098

Ion Ratio Lower Upper

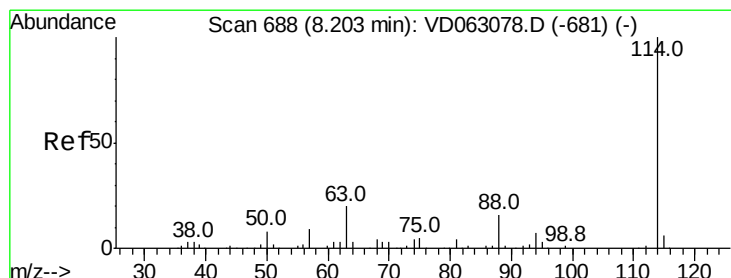
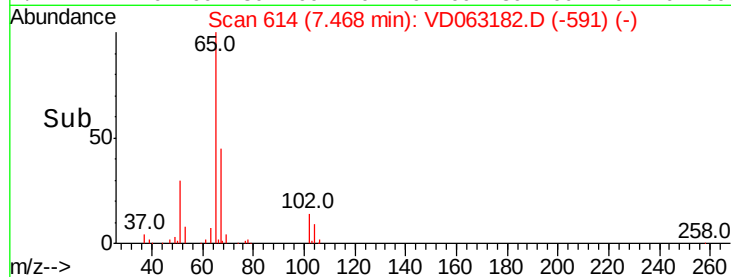
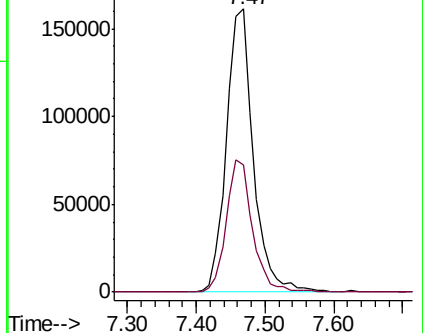
65 100

67 44.8 0.0 86.0



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: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063182.D

Acq: 22 Jul 2019 17:37

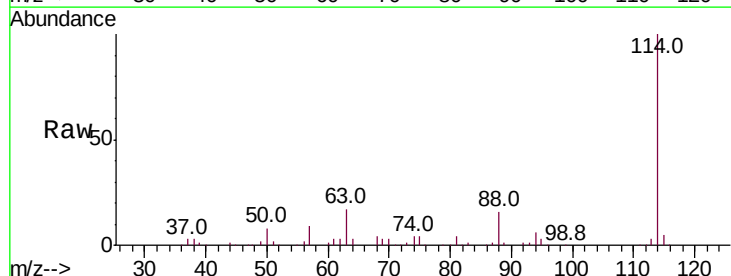
Tgt Ion: 114 Resp: 872076

Ion Ratio Lower Upper

114 100

63 17.1 0.0 40.6

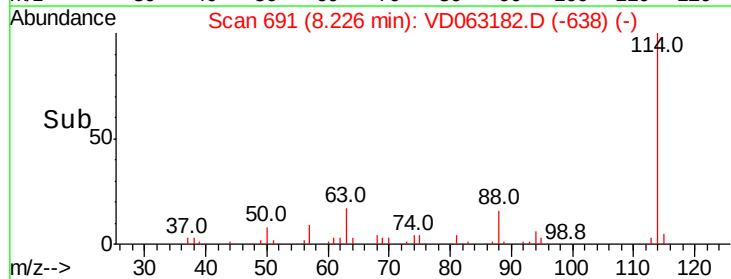
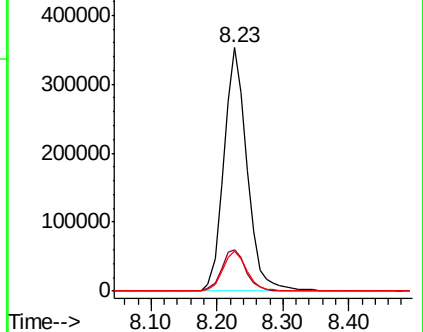
88 16.4 0.0 32.6

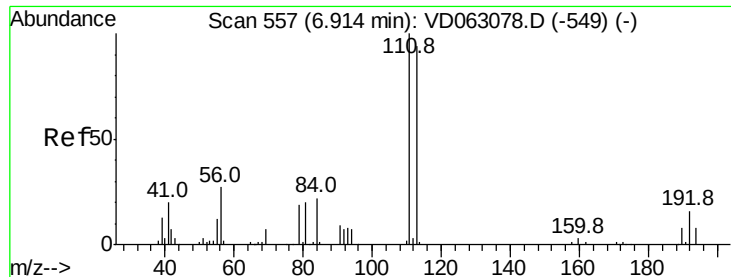


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 0.110 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.13 min

Lab File: VD063182.D

Acq: 22 Jul 2019 17:37

Instrument :

MSVOA\_D

ClientSampleId :

FK-SF-02-005-A

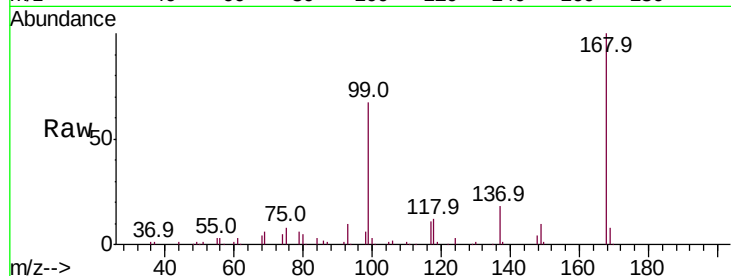
Tot Ion:113 Resp: 956

Ion Ratio Lower Upper

113 100

111 50.4 84.8 127.2#

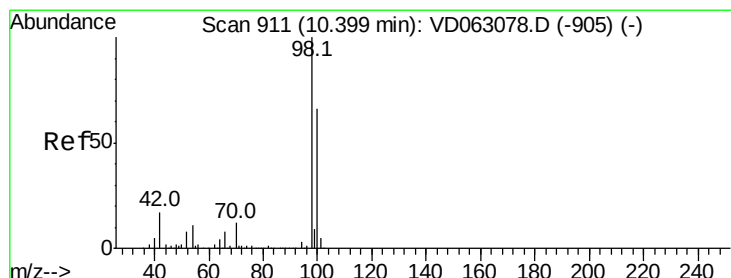
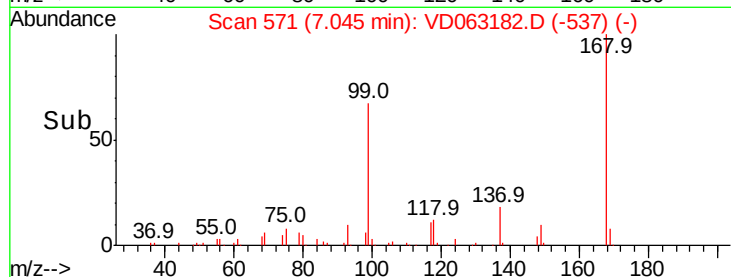
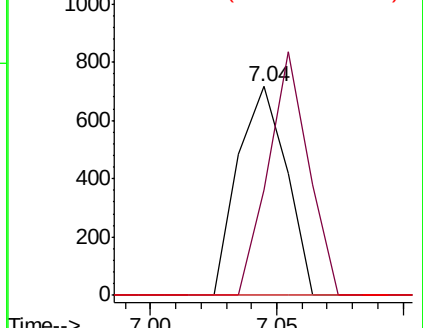
192 0.0 13.4 20.0#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#50

Toluene-d8

Concen: 36.634 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD063182.D

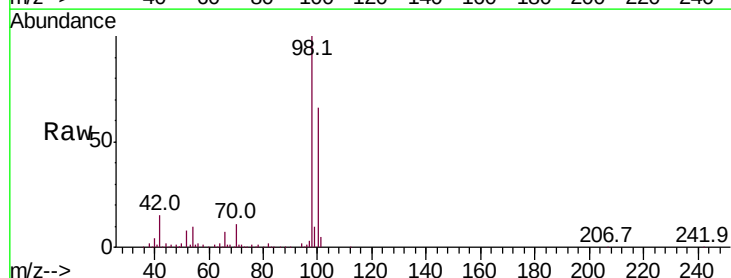
Acq: 22 Jul 2019 17:37

Tgt Ion: 98 Resp: 683509

Ion Ratio Lower Upper

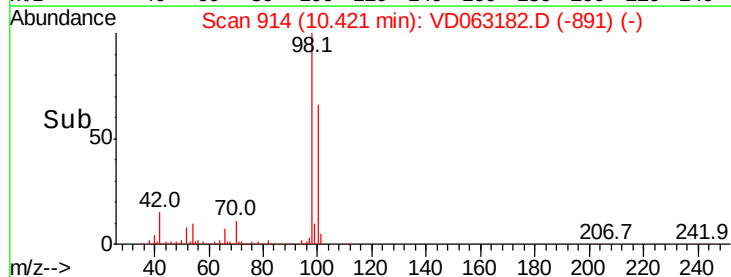
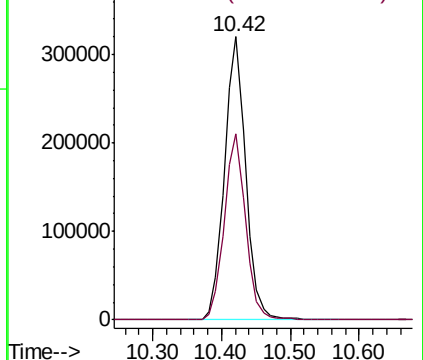
98 100

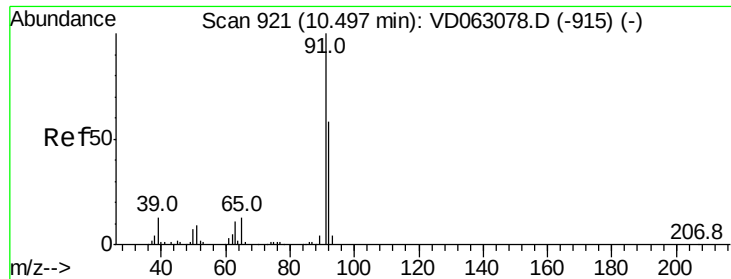
100 65.6 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.331 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD063182.D

Acq: 22 Jul 2019 17:37

Instrument :

MSVOA\_D

ClientSampleId :

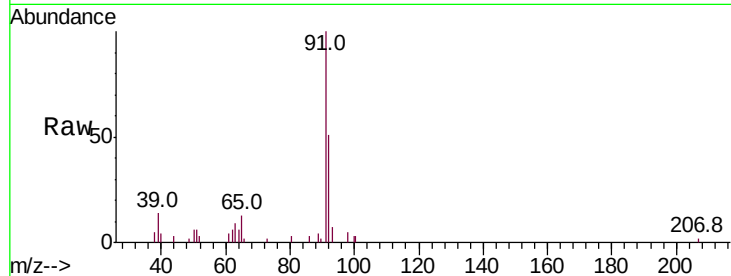
FK-SF-02-005-A

Tot Ion: 92 Resp: 18264

Ion Ratio Lower Upper

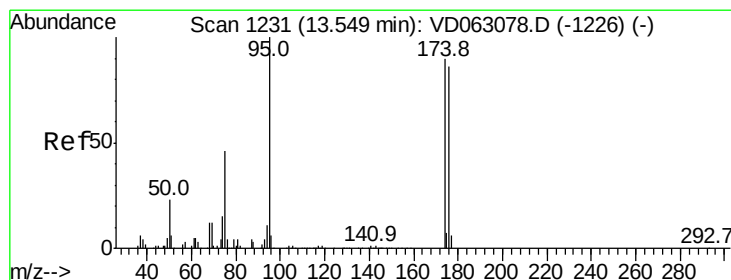
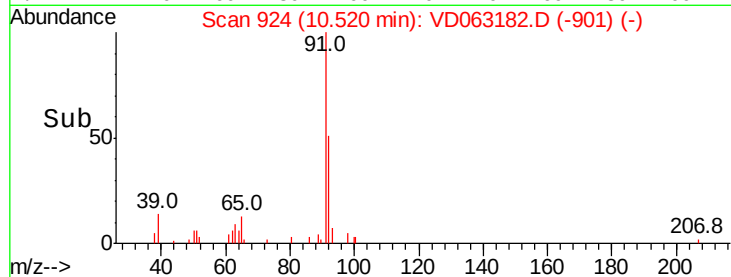
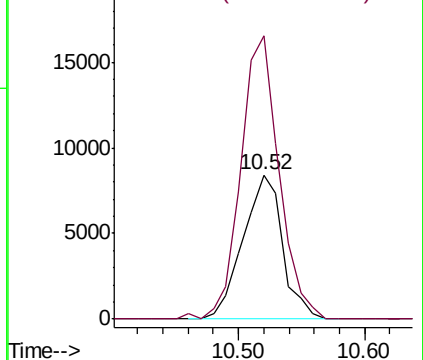
92 100

91 195.9 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 20.519 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063182.D

Acq: 22 Jul 2019 17:37

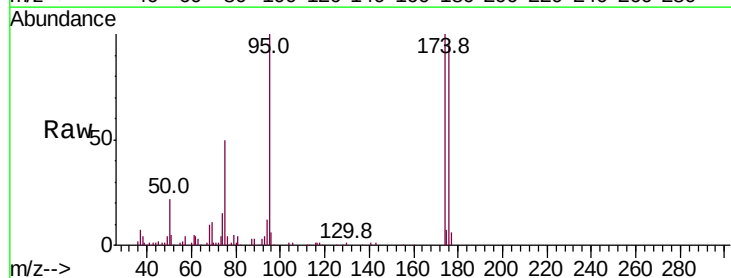
Tgt Ion: 95 Resp: 177118

Ion Ratio Lower Upper

95 100

174 100.0 0.0 180.6

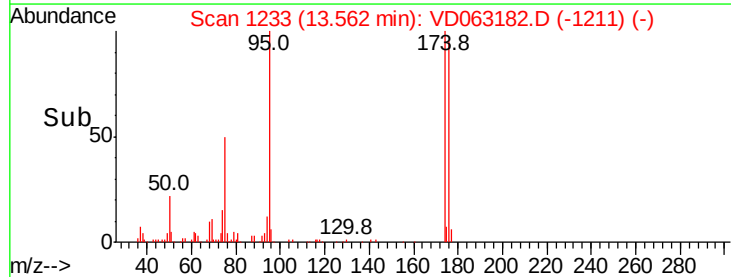
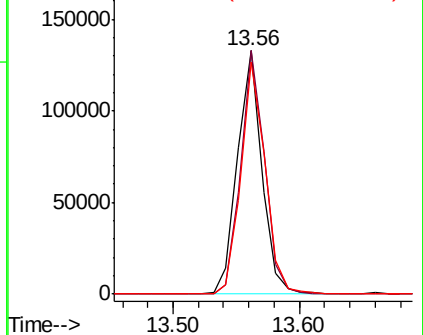
176 95.3 0.0 172.2

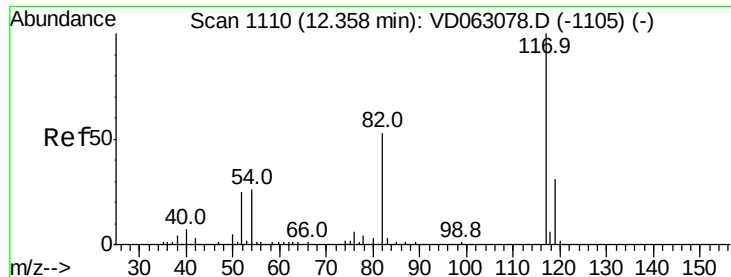


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

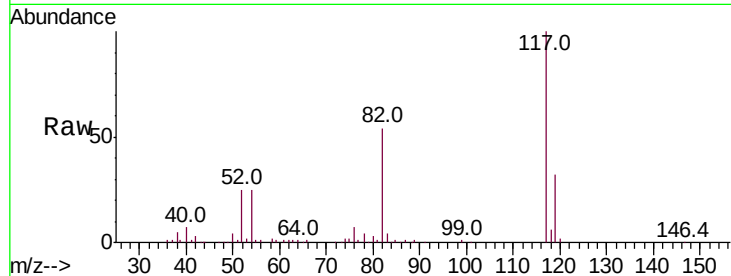




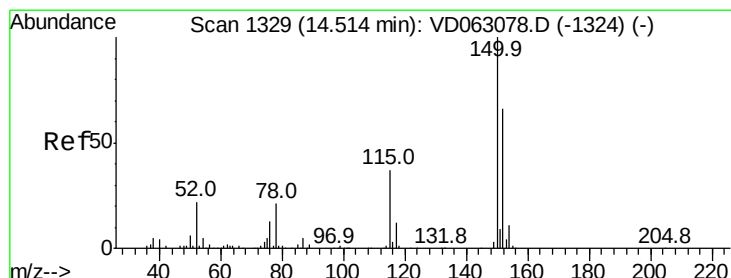
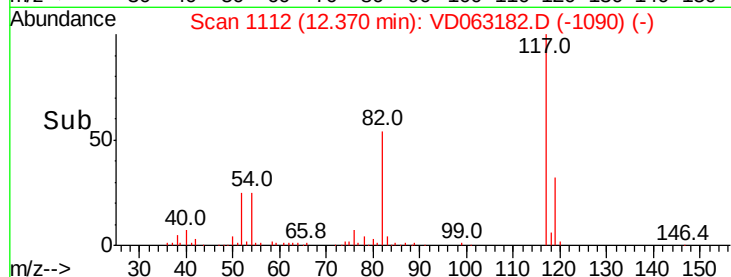
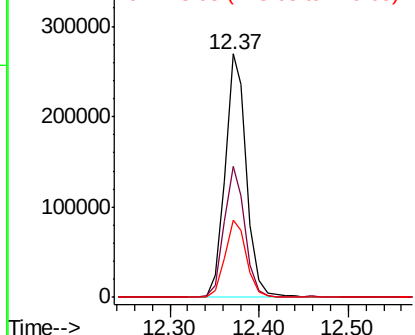
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD063182.D  
Acq: 22 Jul 2019 17:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-SF-02-005-A

Tot Ion:117 Resp: 454656  
Ion Ratio Lower Upper  
117 100  
82 53.7 42.3 63.5  
119 31.5 25.2 37.8

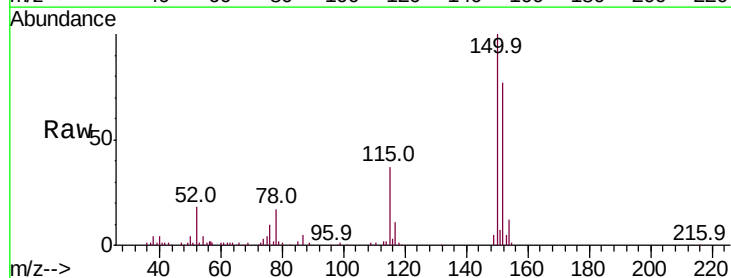


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

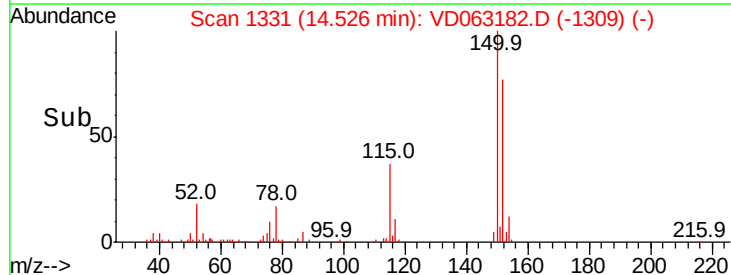
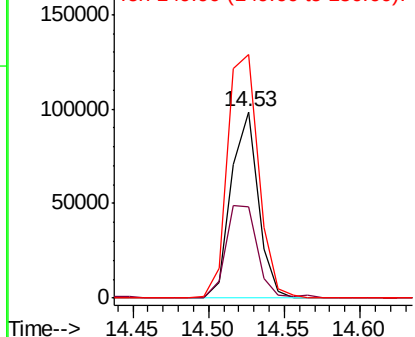


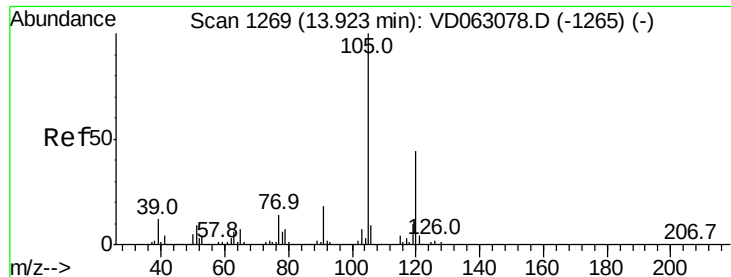
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: VD063182.D  
Acq: 22 Jul 2019 17:37

Tgt Ion:152 Resp: 122789  
Ion Ratio Lower Upper  
152 100  
115 48.8 28.9 86.8  
150 130.5 0.0 313.8



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: 4.405 ug/l  
 RT: 13.94 min Scan# 1271  
 Delta R.T. 0.01 min  
 Lab File: VD063182.D  
 Acq: 22 Jul 2019 17:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-SF-02-005-A

Tot Ion:105 Resp: 36409  
 Ion Ratio Lower Upper  
 105 100  
 120 37.7 21.8 65.4

