

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042519\  
 Data File : VD062046.D  
 Acq On : 25 Apr 2019 18:52  
 Operator : VA/AP  
 Sample : K2553-04  
 Misc : 6.06g/5ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR200051

Quant Time: Apr 26 01:44:33 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

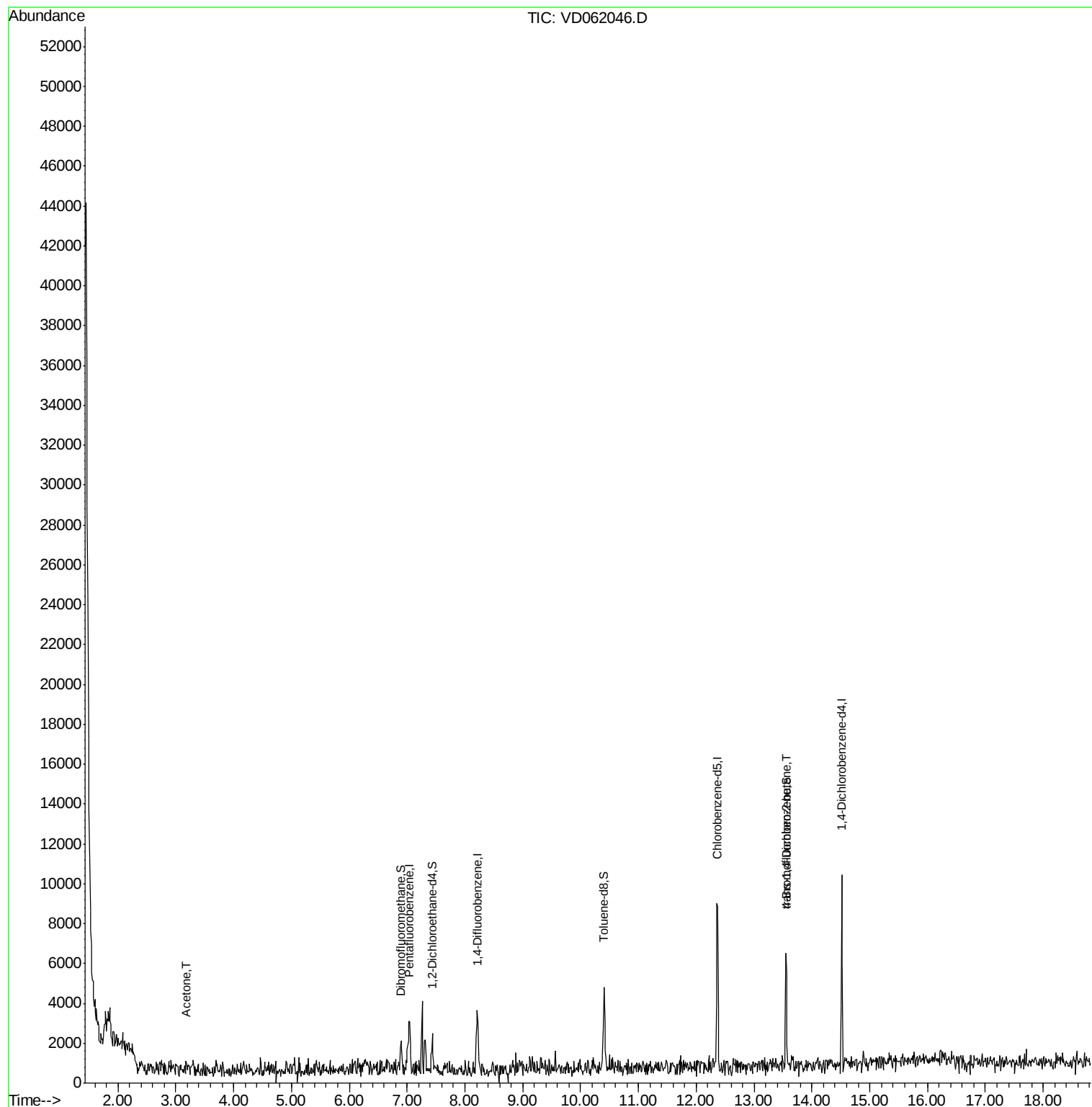
| Internal Standards             | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.03   | 168  | 3179     | 50.00  | ug/l    | -0.02    |
| 34) 1,4-Difluorobenzene        | 8.21   | 114  | 6466     | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 12.37  | 117  | 6240     | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 14.51  | 152  | 2365     | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.43   | 65   | 1712     | 68.81  | ug/l    | -0.03    |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 137.62% |          |
| 35) Dibromofluoromethane       | 6.90   | 113  | 1402     | 31.35  | ug/l    | -0.03    |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 62.70%  |          |
| 50) Toluene-d8                 | 10.41  | 98   | 5084     | 47.78  | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 95.56%  |          |
| 62) 4-Bromofluorobenzene       | 13.55  | 95   | 2276     | 53.33  | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 106.66% |          |
| Target Compounds               |        |      |          |        |         |          |
| 16) Acetone                    | 3.18   | 43   | 192      | 32.319 | ug/l #  | 50       |
| 81) trans-1,4-Dichloro-2-buten | 13.55  | 75   | 633      | 69.554 | ug/l #  | 16       |

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

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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: 7.03 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD062046.D

Acq: 25 Apr 2019 18:52

Instrument :

MSVOA\_D

ClientSampleId :

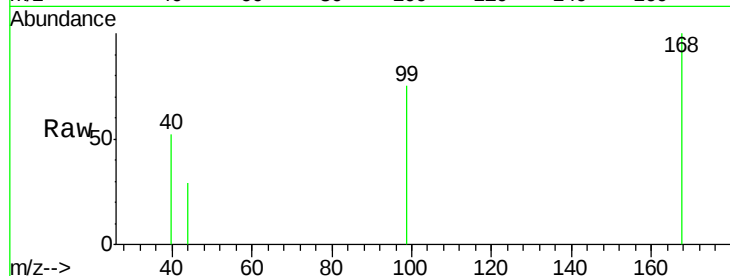
RBR200051

Tot Ion:168 Resp: 3179

Ion Ratio Lower Upper

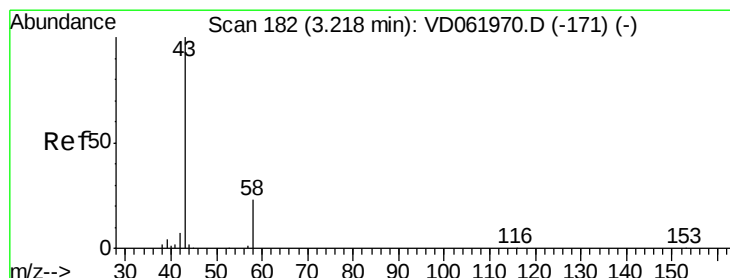
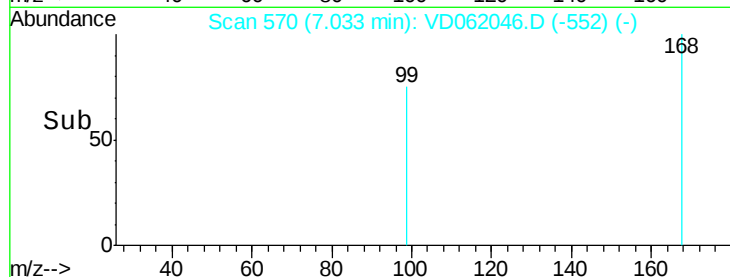
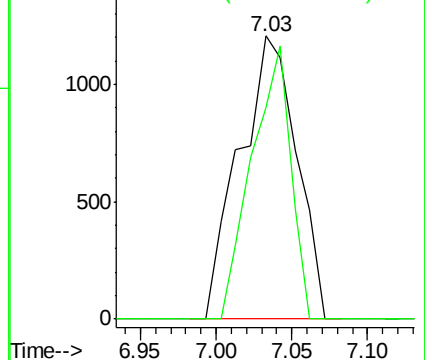
168 100

99 75.0 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: 32.319 ug/l

RT: 3.18 min Scan# 179

Delta R.T. -0.04 min

Lab File: VD062046.D

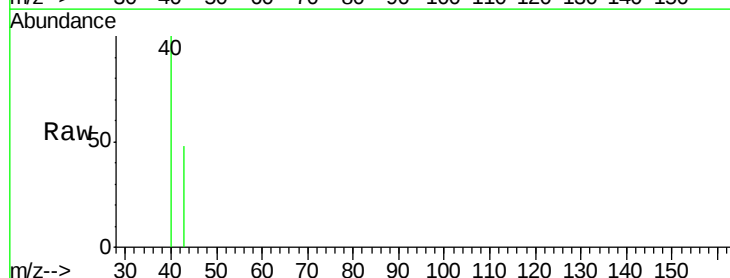
Acq: 25 Apr 2019 18:52

Tgt Ion: 43 Resp: 192

Ion Ratio Lower Upper

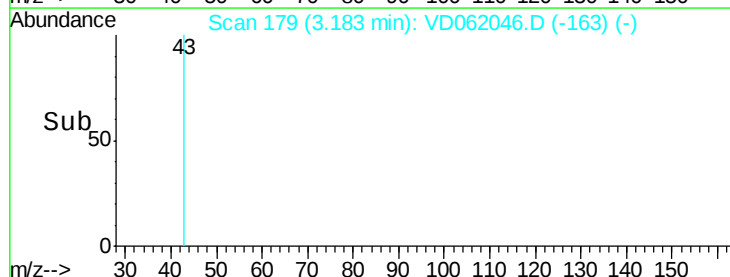
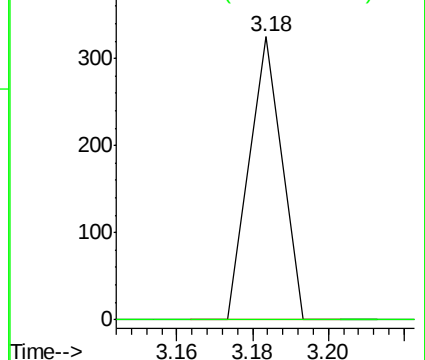
43 100

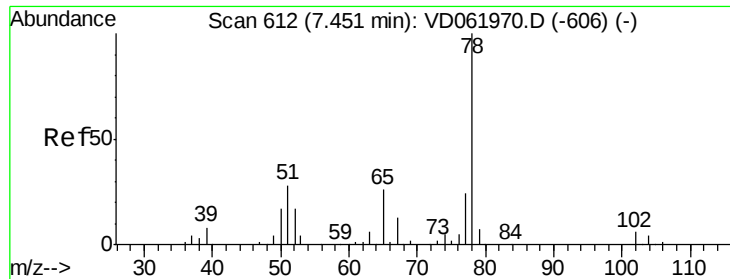
58 0.0 19.9 29.9#



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: 68.808 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.03 min

Lab File: VD062046.D

Acq: 25 Apr 2019 18:52

Instrument :

MSVOA\_D

ClientSampleId :

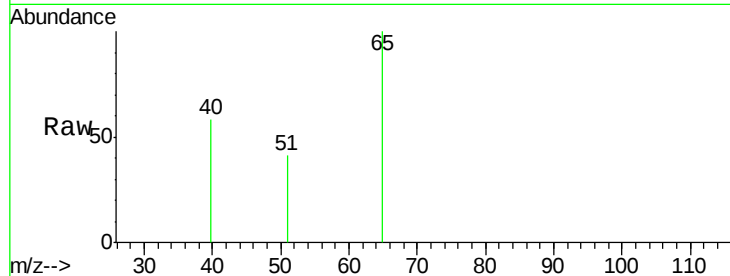
RBR200051

Tot Ion: 65 Resp: 1712

Ion Ratio Lower Upper

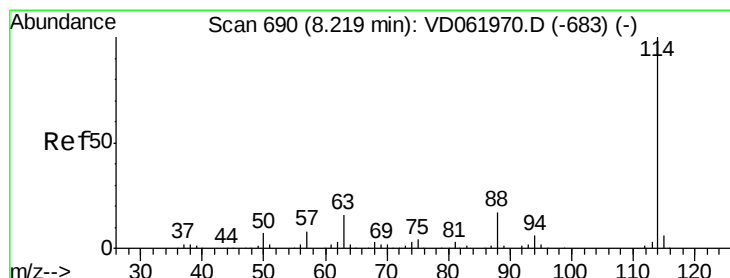
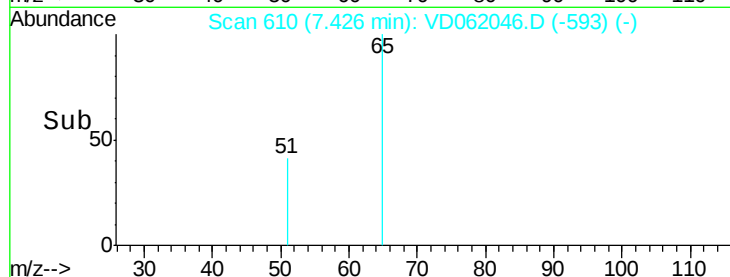
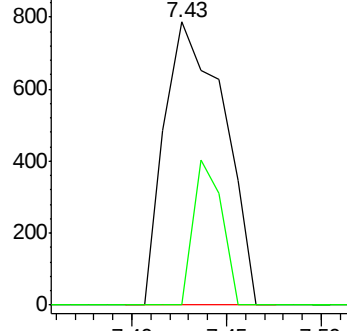
65 100

67 0.0 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: 8.21 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD062046.D

Acq: 25 Apr 2019 18:52

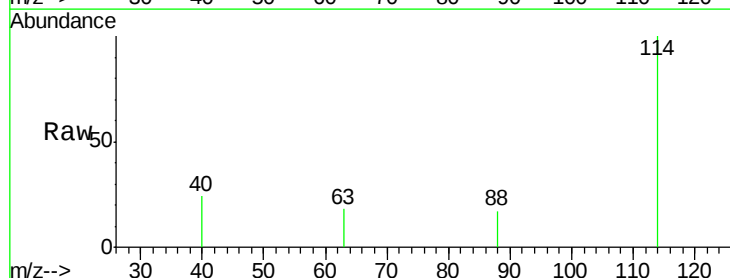
Tgt Ion: 114 Resp: 6466

Ion Ratio Lower Upper

114 100

63 18.3 0.0 32.4

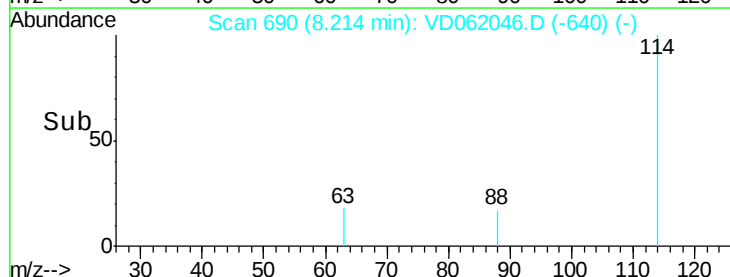
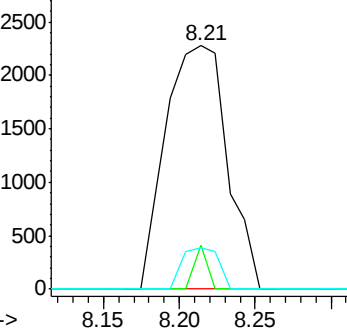
88 17.1 0.0 33.6

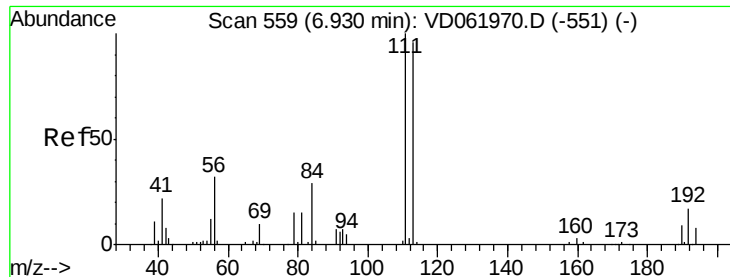


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 31.352 ug/l

RT: 6.90 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD062046.D

Acq: 25 Apr 2019 18:52

Instrument :

MSVOA\_D

ClientSampleId :

RBR200051

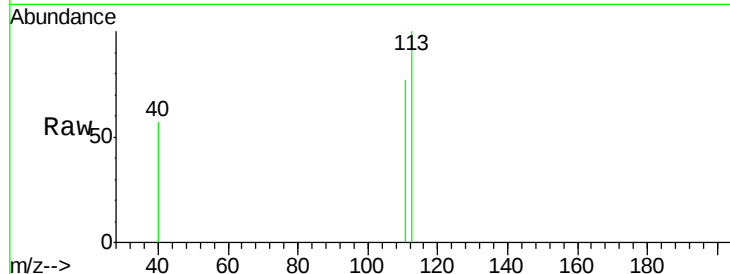
Tot Ion:113 Resp: 1402

Ion Ratio Lower Upper

113 100

111 77.0 78.5 117.7#

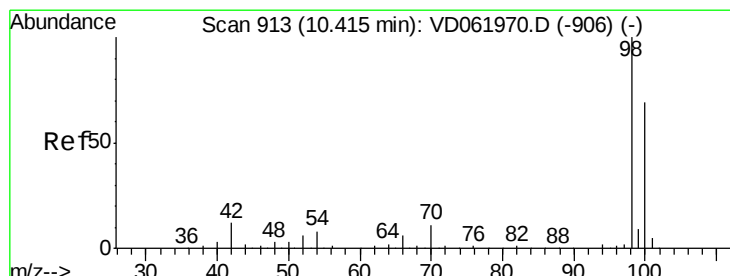
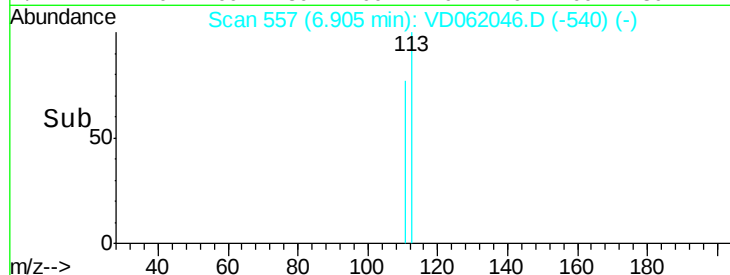
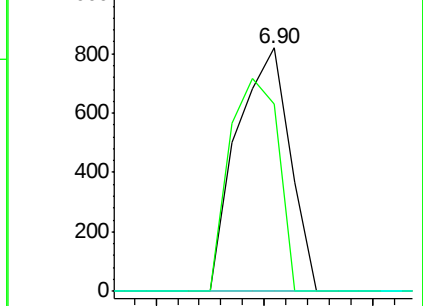
192 0.0 13.0 19.4#



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: 47.778 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD062046.D

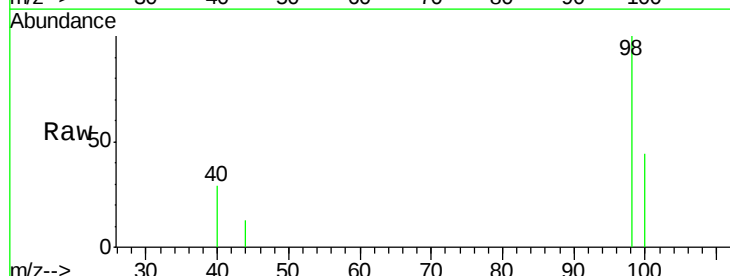
Acq: 25 Apr 2019 18:52

Tgt Ion: 98 Resp: 5084

Ion Ratio Lower Upper

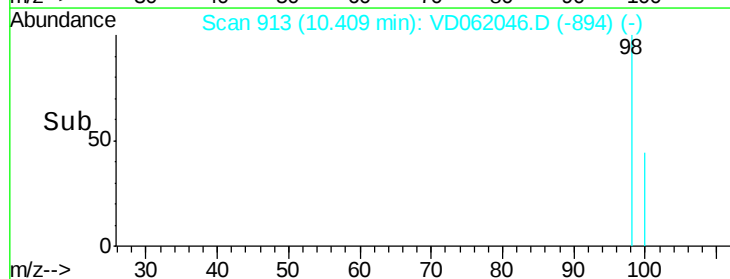
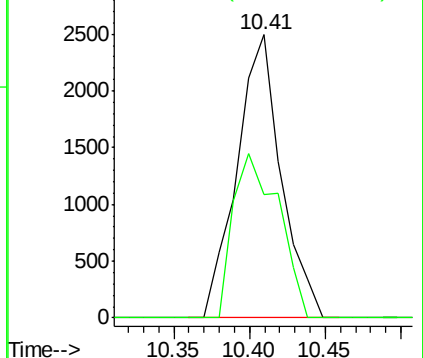
98 100

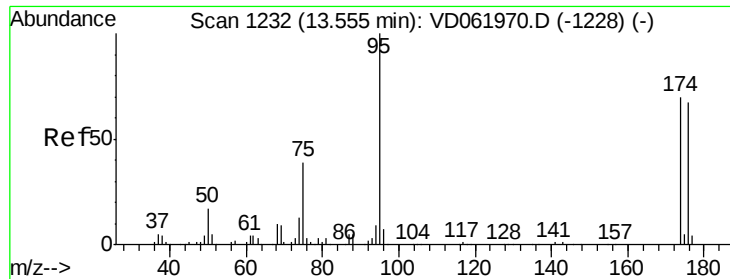
100 43.6 53.8 80.8#



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

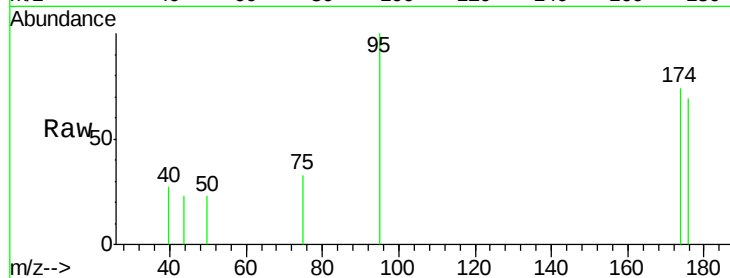




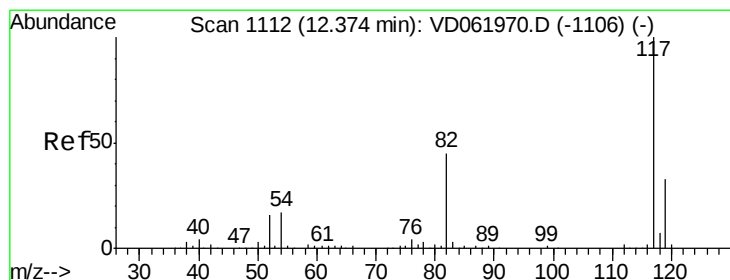
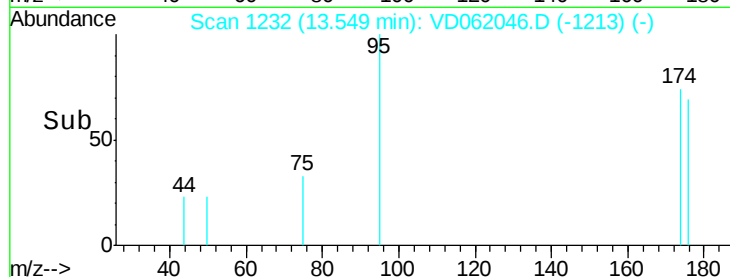
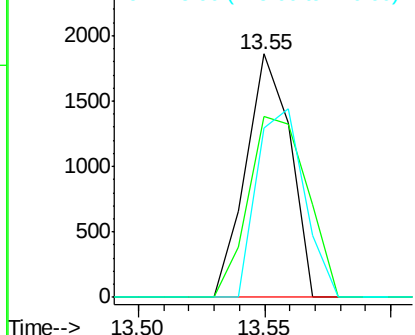
#62  
4-Bromofluorobenzene  
Concen: 53.328 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. -0.01 min  
Lab File: VD062046.D  
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Tot Ion: 95 Resp: 2276  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 181.8  
176 69.3 0.0 174.4

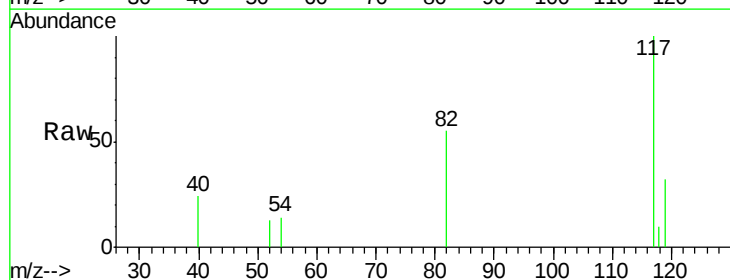


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

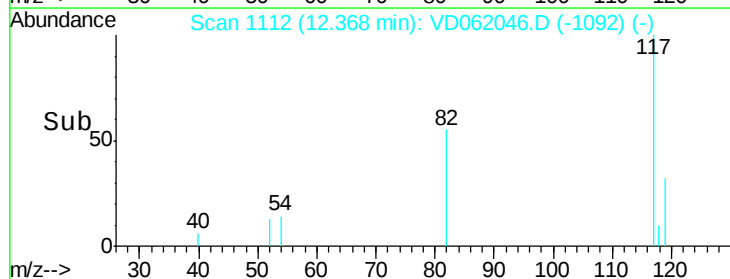
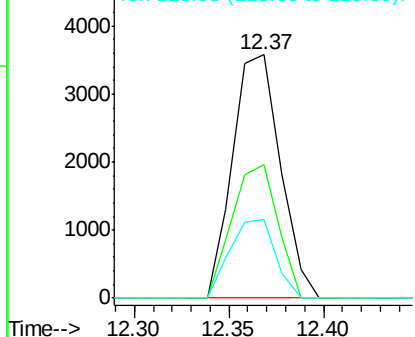


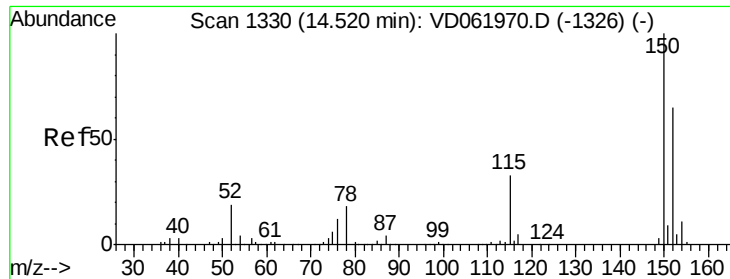
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD062046.D  
Acq: 25 Apr 2019 18:52

Tgt Ion: 117 Resp: 6240  
Ion Ratio Lower Upper  
117 100  
82 55.0 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062046.D

Acq: 25 Apr 2019 18:52

Instrument :

MSVOA\_D

ClientSampleId :

RBR200051

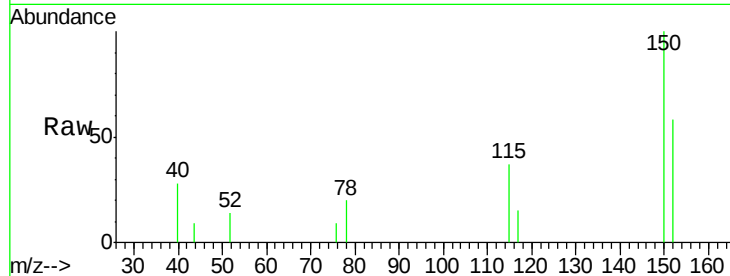
Tot Ion:152 Resp: 2365

Ion Ratio Lower Upper

152 100

115 63.6 30.9 92.7

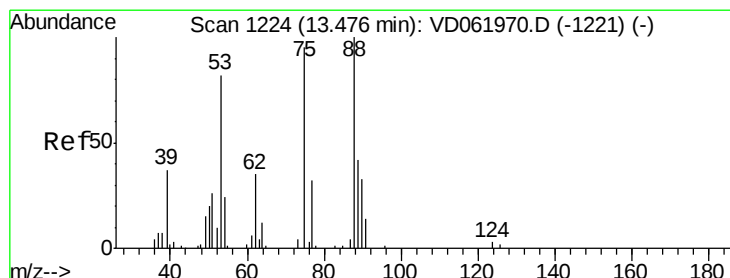
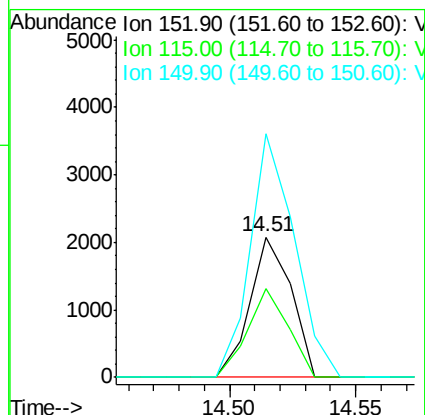
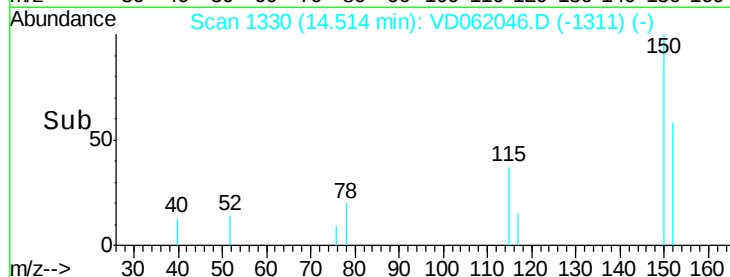
150 173.9 0.0 314.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 69.554 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062046.D

Acq: 25 Apr 2019 18:52

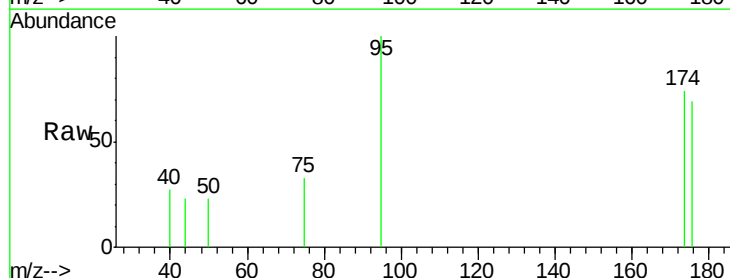
Tgt Ion: 75 Resp: 633

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

