

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031319\  
 Data File : VD061043.D  
 Acq On : 13 Mar 2019 15:41  
 Operator : VA/AP  
 Sample : K1866-13RE  
 Misc : 5.78g/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

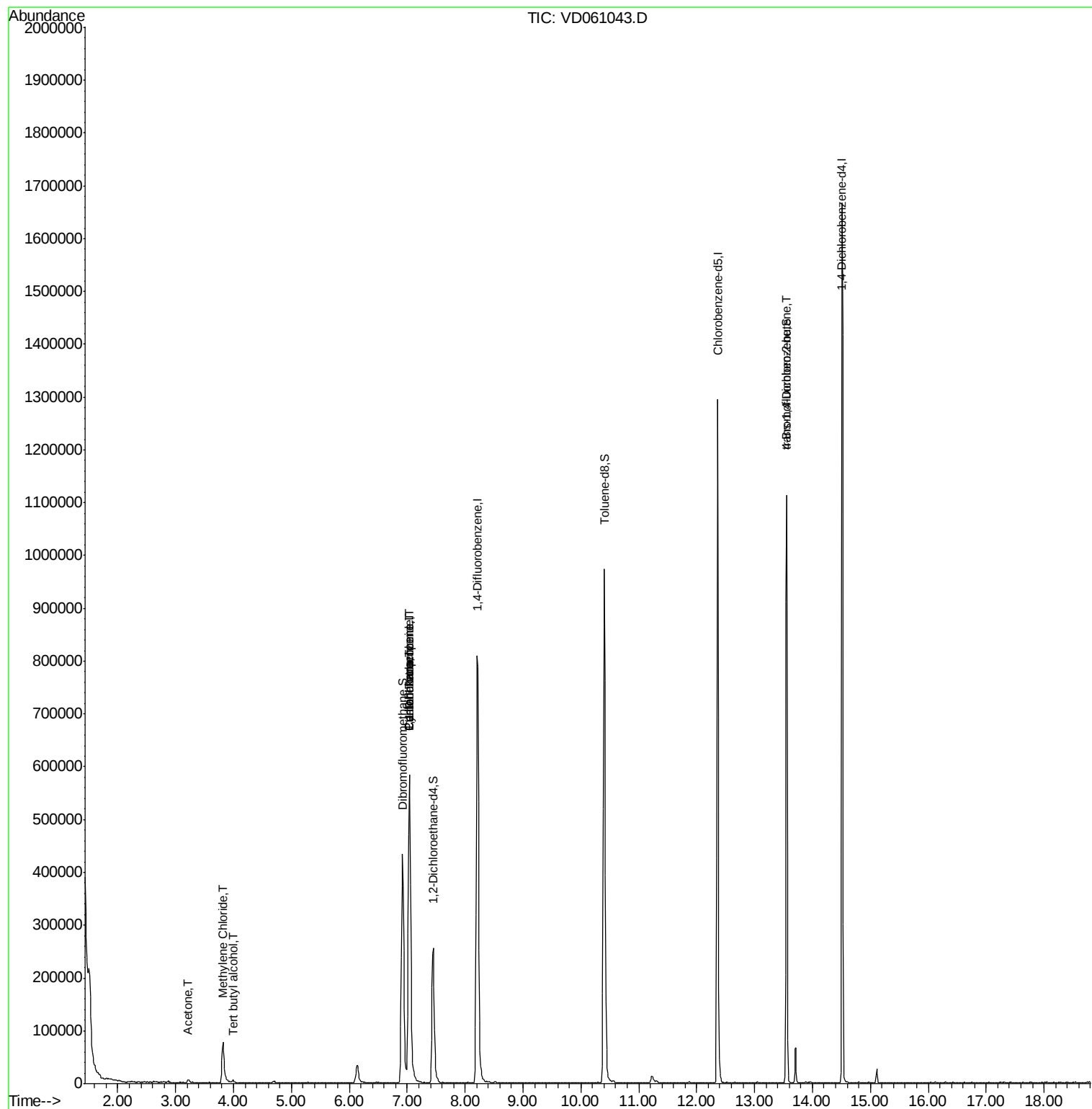
Quant Time: Mar 14 02:01:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.04   | 168  | 615048   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.21   | 114  | 1072803  | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 12.36  | 117  | 869214   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 14.51  | 152  | 409225   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.44   | 65   | 248818   | 48.60     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.20%  |          |
| 35) Dibromofluoromethane       | 6.92   | 113  | 423781   | 53.23     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 106.46% |          |
| 50) Toluene-d8                 | 10.40  | 98   | 913306   | 45.68     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 91.36%  |          |
| 62) 4-Bromofluorobenzene       | 13.55  | 95   | 366370   | 47.23     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 94.46%  |          |
| Target Compounds               |        |      |          |           |         |          |
| 5) Bromomethane                | 2.18   | 94   | 181      | Below Cal | #       | 8        |
| 11) Tert butyl alcohol         | 4.00   | 59   | 4499     | 13.804    | ug/l #  | 75       |
| 16) Acetone                    | 3.22   | 43   | 12257    | 8.372     | ug/l #  | 89       |
| 20) Methylene Chloride         | 3.82   | 84   | 62297    | 5.149     | ug/l    | 89       |
| 31) Cyclohexane                | 7.03   | 56   | 10219    | 1.128     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.04   | 75   | 45717    | 4.944     | ug/l #  | 45       |
| 38) Carbon Tetrachloride       | 7.05   | 117  | 58462    | 5.739     | ug/l #  | 15       |
| 81) trans-1,4-Dichloro-2-buten | 13.54  | 75   | 135335   | 77.970    | ug/l #  | 17       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031319\  
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Acq On : 13 Mar 2019 15:41  
Operator : VA/AP  
Sample : K1866-13RE  
Misc : 5.78q/5ml/MSVOA D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 14 02:01:16 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061043.D

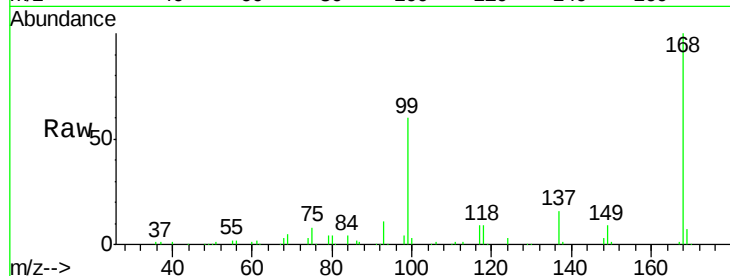
Acq: 13 Mar 2019 15:41

Tot Ion:168 Resp: 615048

Ion Ratio Lower Upper

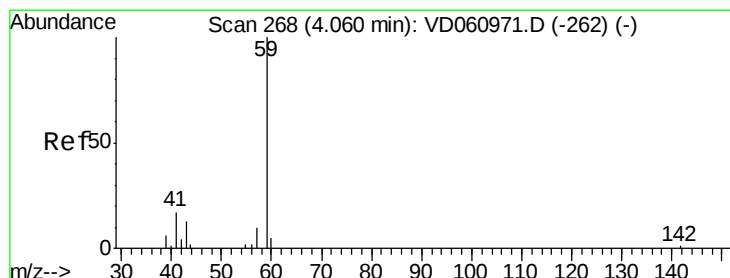
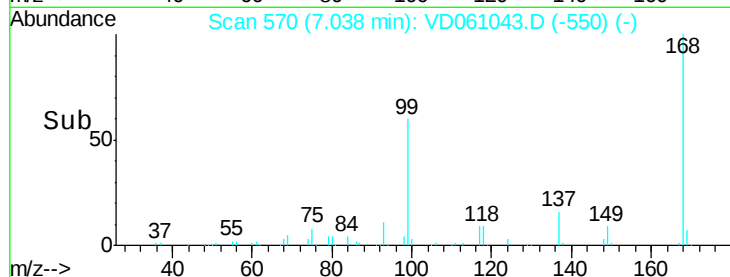
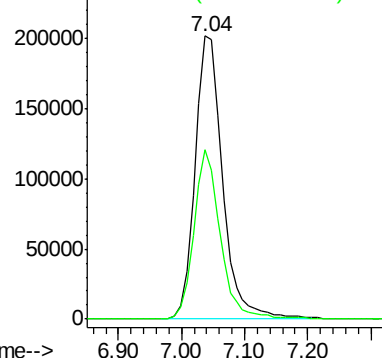
168 100

99 59.8 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 13.804 ug/l

RT: 4.00 min Scan# 261

Delta R.T. -0.06 min

Lab File: VD061043.D

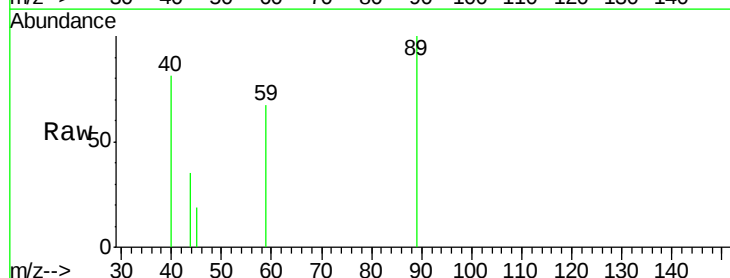
Acq: 13 Mar 2019 15:41

Tgt Ion: 59 Resp: 4499

Ion Ratio Lower Upper

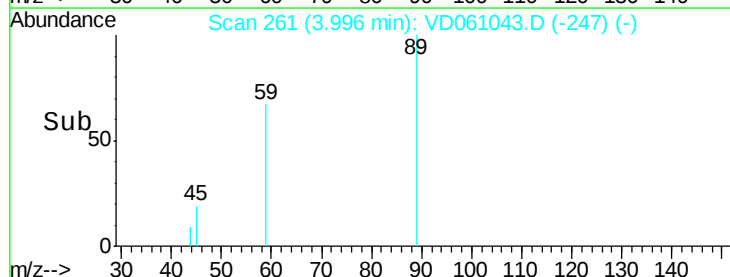
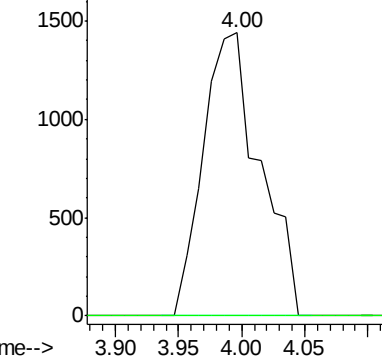
59 100

57 0.0 7.1 10.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 8.372 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061043.D

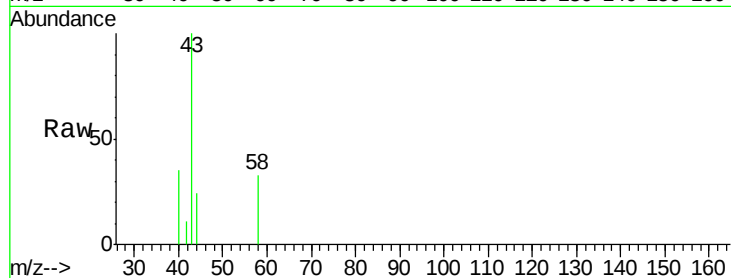
Acq: 13 Mar 2019 15:41

Tot Ion: 43 Resp: 12257

Ion Ratio Lower Upper

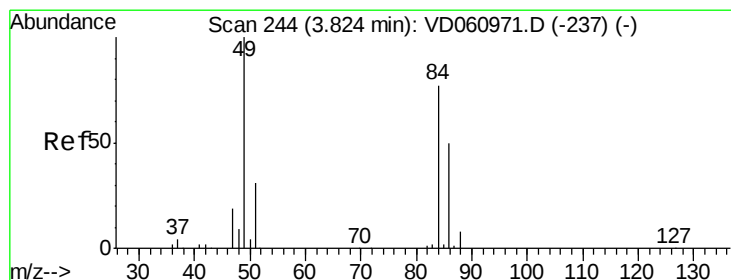
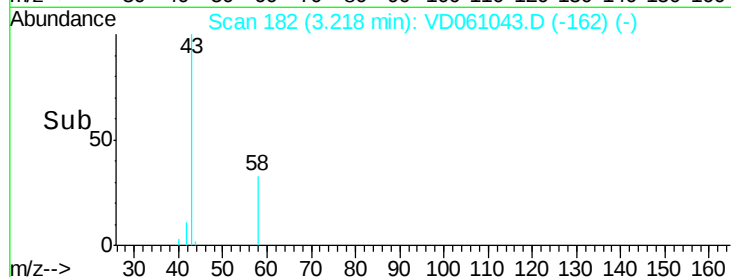
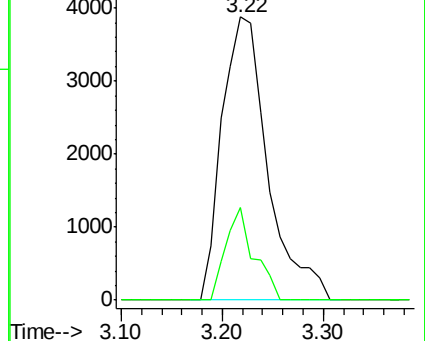
43 100

58 32.6 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 5.149 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD061043.D

Acq: 13 Mar 2019 15:41

Tgt Ion: 84 Resp: 62297

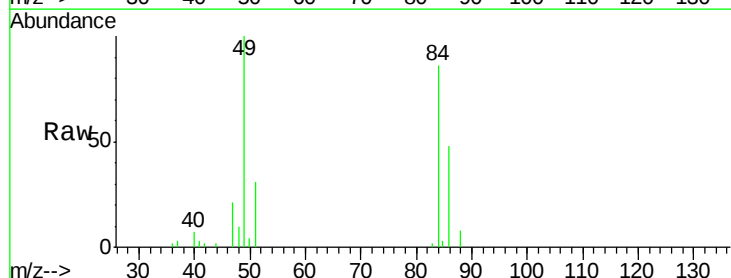
Ion Ratio Lower Upper

84 100

49 116.7 104.2 156.2

51 36.6 32.3 48.5

86 56.5 52.3 78.5

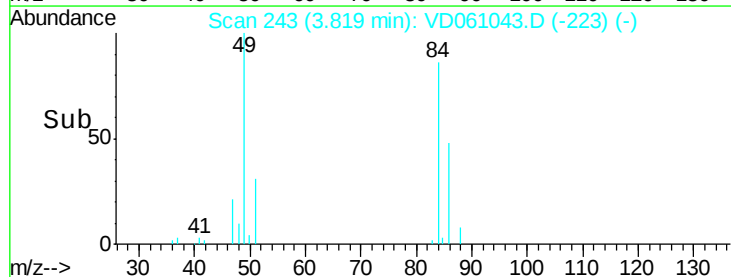
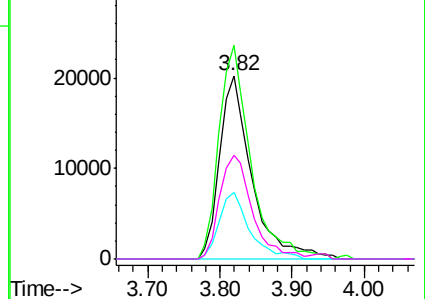


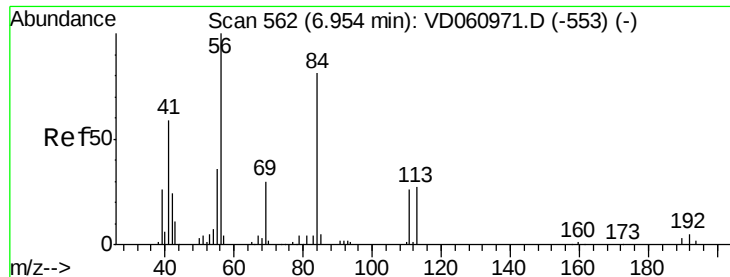
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

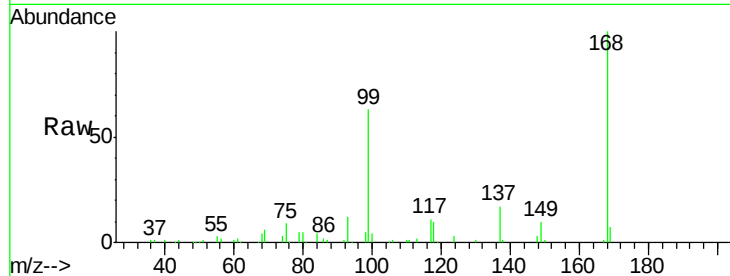
Ion 85.90 (85.60 to 86.60): VDC



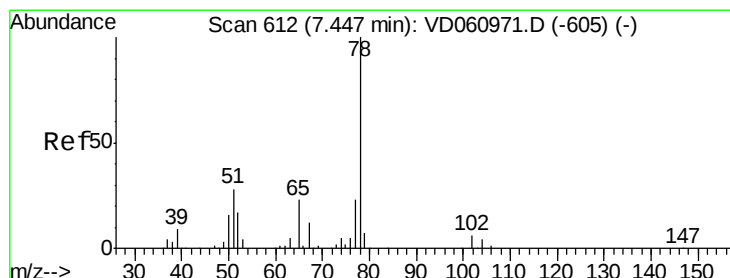
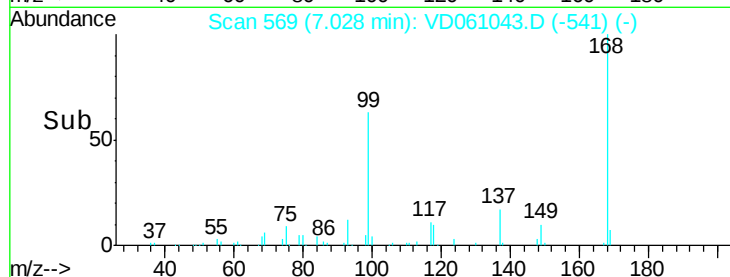
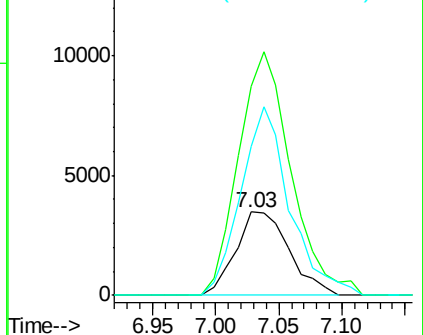


#31  
Cvclohexane  
Concen: 1.128 ug/l  
RT: 7.03 min Scan# 569  
Delta R.T. 0.07 min  
Lab File: VD061043.D  
Acq: 13 Mar 2019 15:41

| Tot Ion | 56    | Resp  | 10219 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 56      | 100   |       |       |
| 69      | 250.7 | 24.0  | 36.0# |
| 84      | 179.0 | 65.8  | 98.6# |

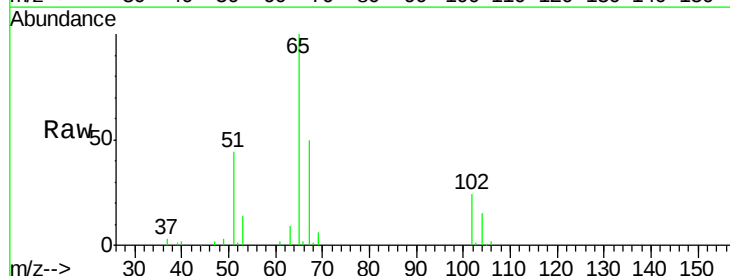


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

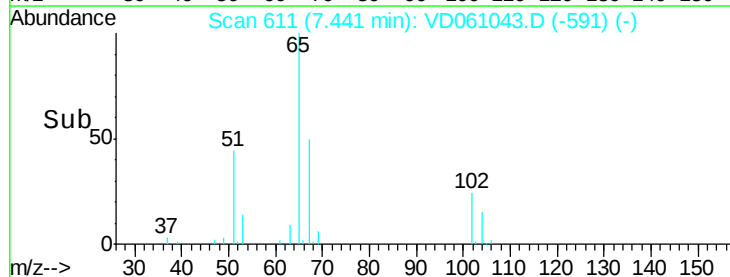
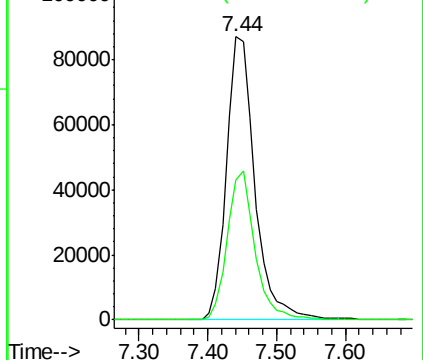


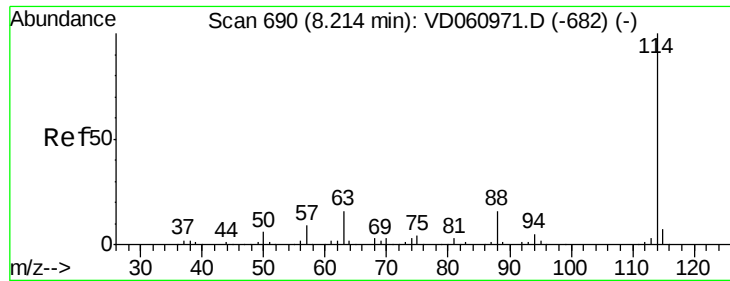
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 7.44 min Scan# 611  
Delta R.T. -0.01 min  
Lab File: VD061043.D  
Acq: 13 Mar 2019 15:41

| Tgt Ion | 65    | Resp  | 248818 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 65      | 100   |       |        |
| 67      | 49.7  | 0.0   | 105.2  |



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

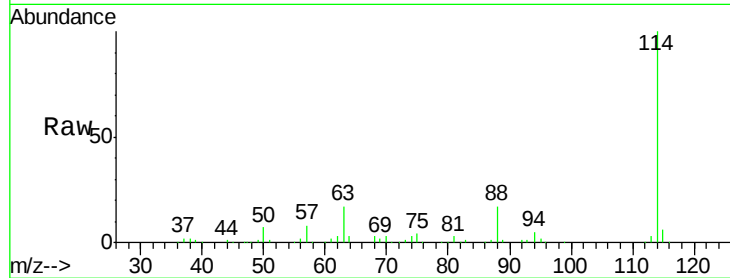




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. -0.01 min  
 Lab File: VD061043.D  
 Acq: 13 Mar 2019 15:41

Tot Ion:114 Resp: 1072803

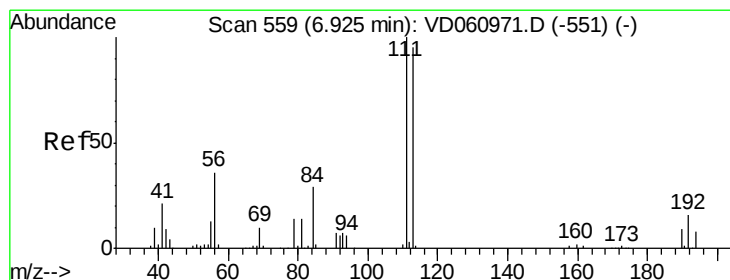
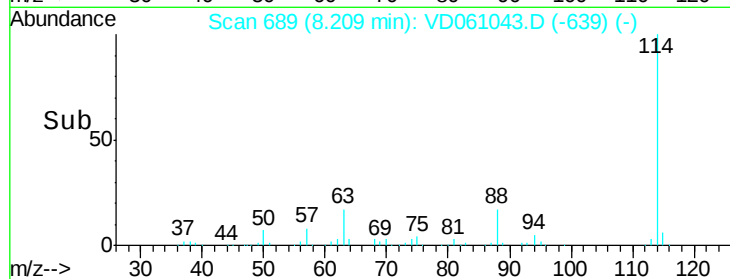
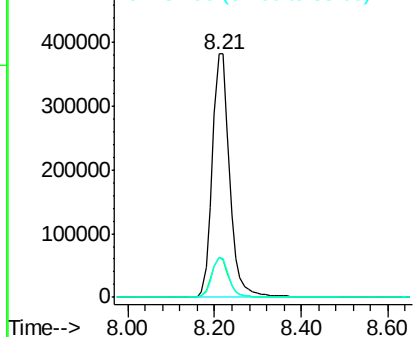
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 16.7  | 0.0   | 31.4  |
| 88  | 16.7  | 0.0   | 33.0  |



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

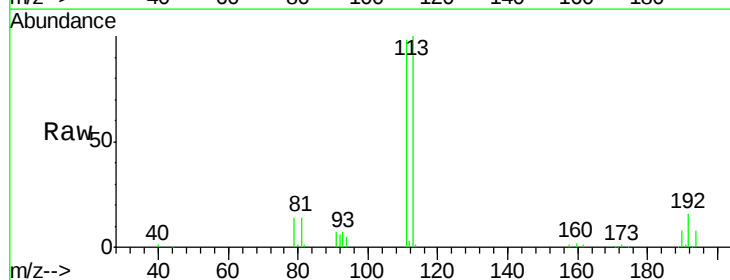
Ion 87.90 (87.60 to 88.60): VDC



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.92 min Scan# 558  
 Delta R.T. -0.01 min  
 Lab File: VD061043.D  
 Acq: 13 Mar 2019 15:41

Tgt Ion:113 Resp: 423781

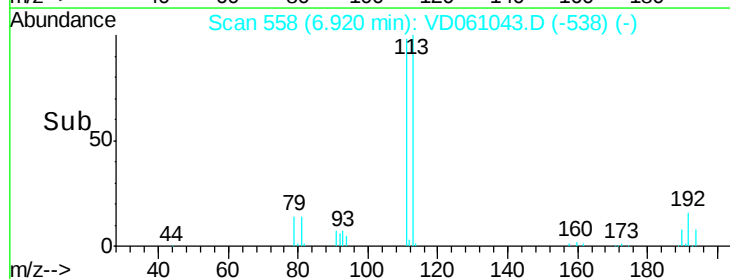
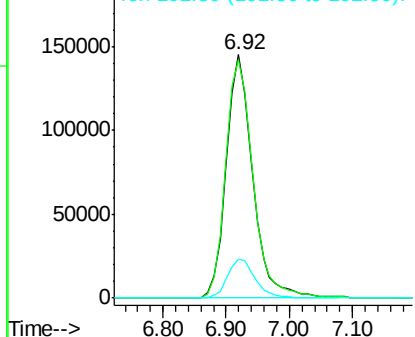
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 98.1  | 84.2  | 126.4 |
| 192 | 15.9  | 13.1  | 19.7  |

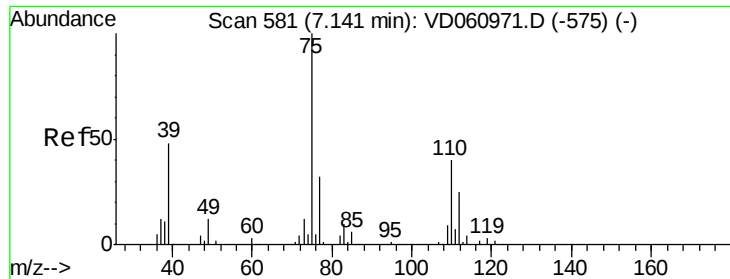


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.944 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD061043.D

Acq: 13 Mar 2019 15:41

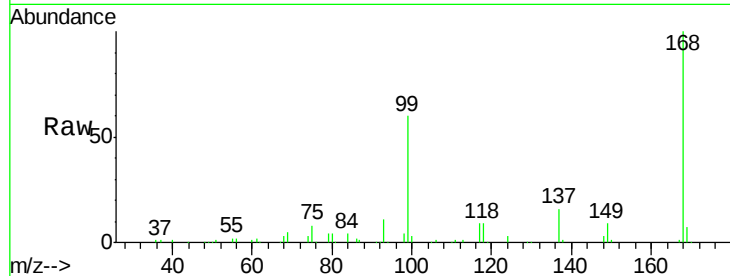
Tot Ion: 75 Resp: 45717

Ion Ratio Lower Upper

75 100

110 6.5 19.7 59.1#

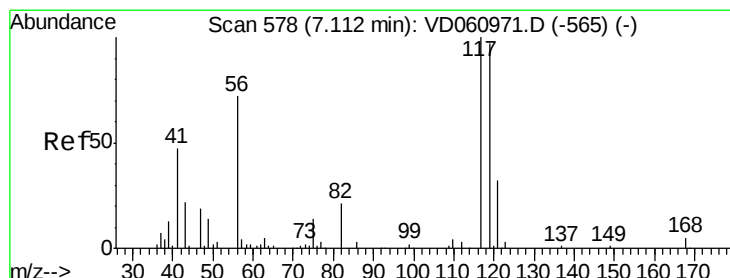
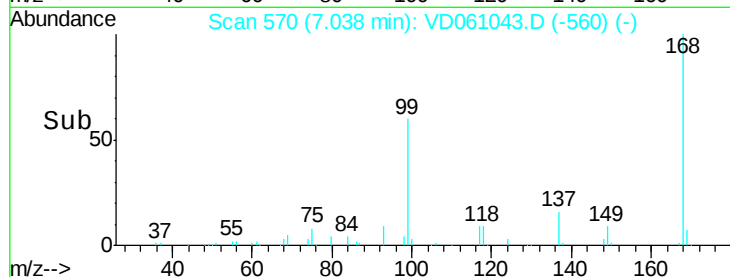
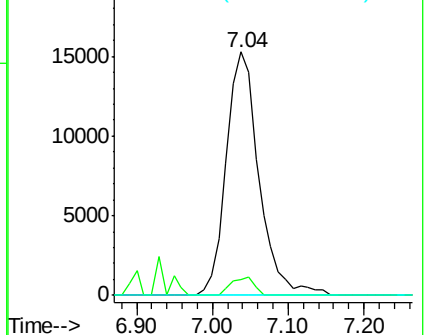
77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 5.739 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD061043.D

Acq: 13 Mar 2019 15:41

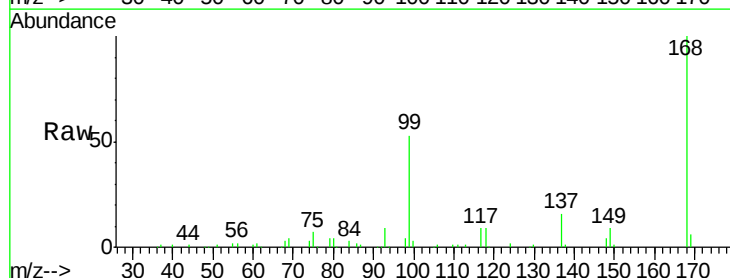
Tgt Ion: 117 Resp: 58462

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.8#

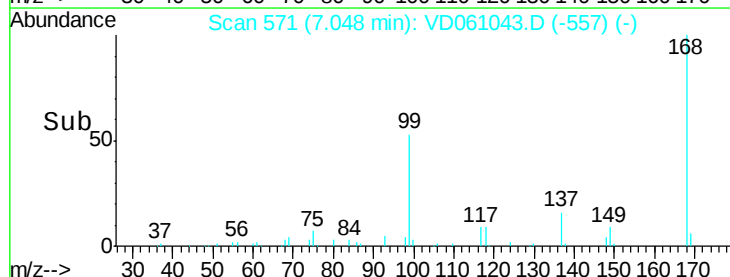
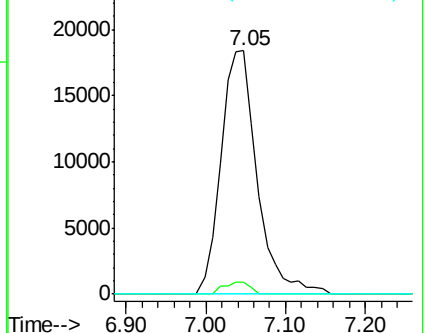
121 0.0 25.3 37.9#

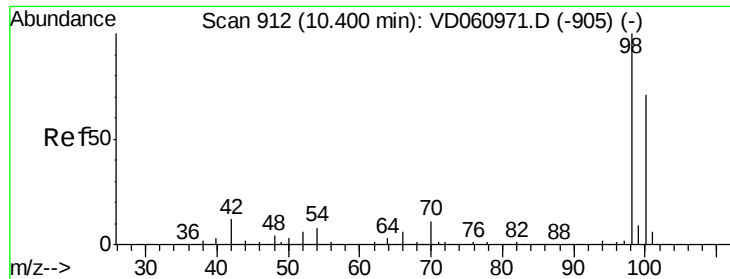


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD061043.D

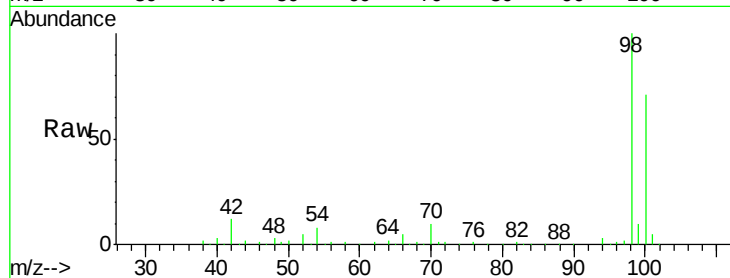
Acq: 13 Mar 2019 15:41

Tot Ion: 98 Resp: 913306

Ion Ratio Lower Upper

98 100

100 70.8 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.40

400000

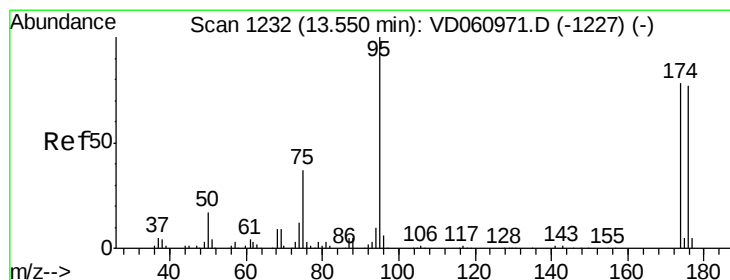
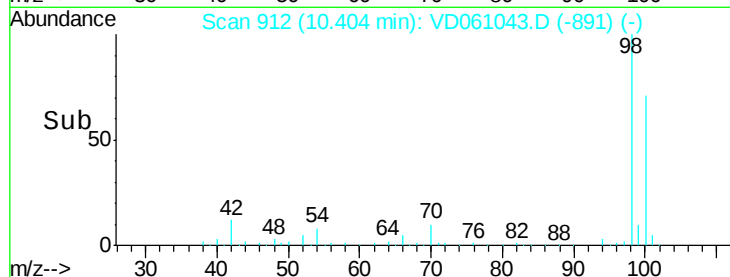
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061043.D

Acq: 13 Mar 2019 15:41

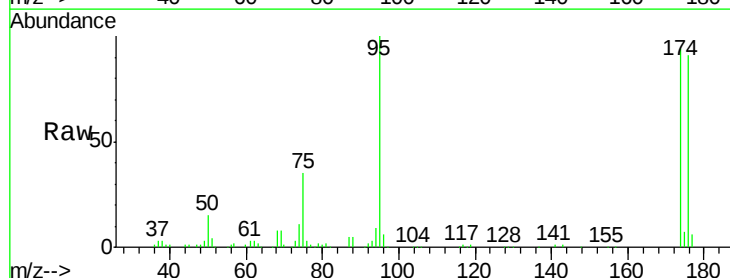
Tgt Ion: 95 Resp: 366370

Ion Ratio Lower Upper

95 100

174 94.3 0.0 155.6

176 91.1 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

300000

250000

200000

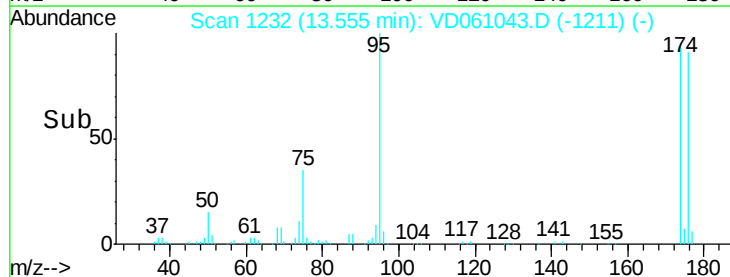
150000

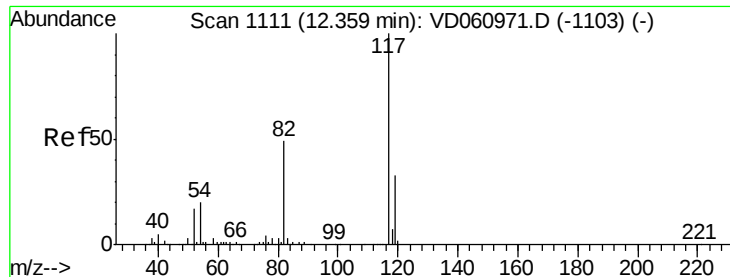
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD061043.D

Acq: 13 Mar 2019 15:41

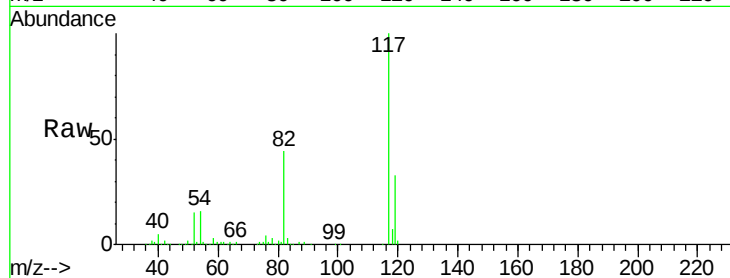
Tot Ion:117 Resp: 869214

Ion Ratio Lower Upper

117 100

82 44.2 38.9 58.3

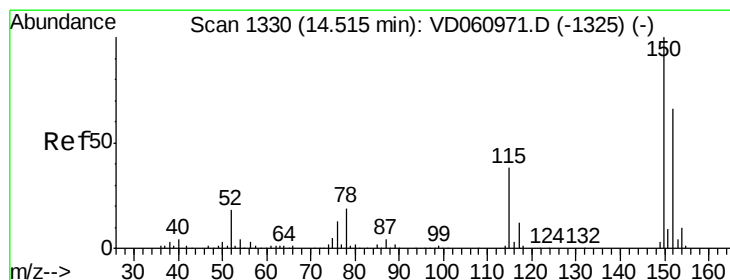
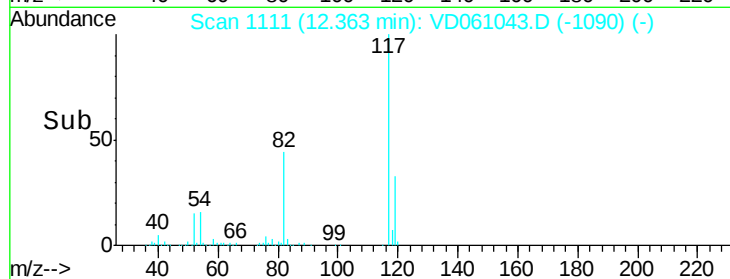
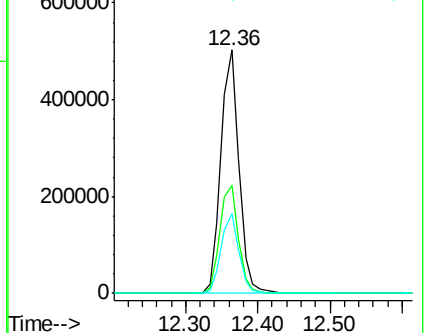
119 33.0 26.6 39.8



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: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD061043.D

Acq: 13 Mar 2019 15:41

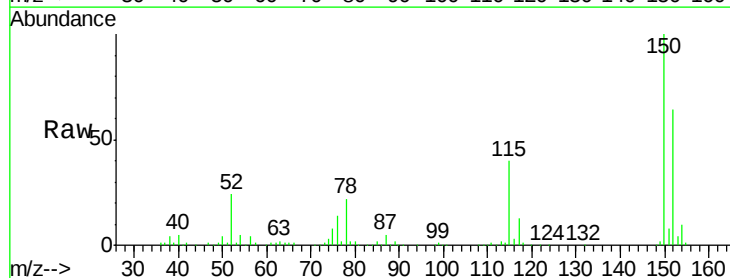
Tgt Ion:152 Resp: 409225

Ion Ratio Lower Upper

152 100

115 63.0 28.6 85.9

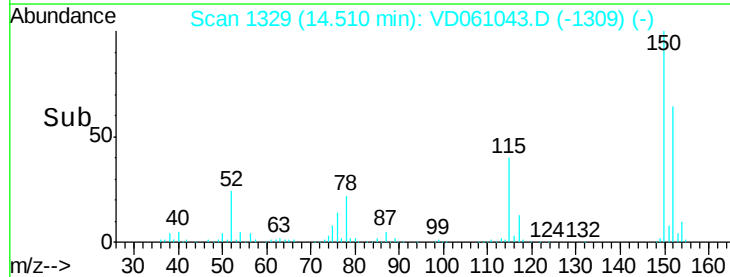
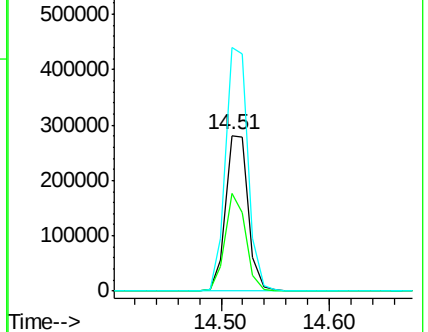
150 156.6 0.0 310.6

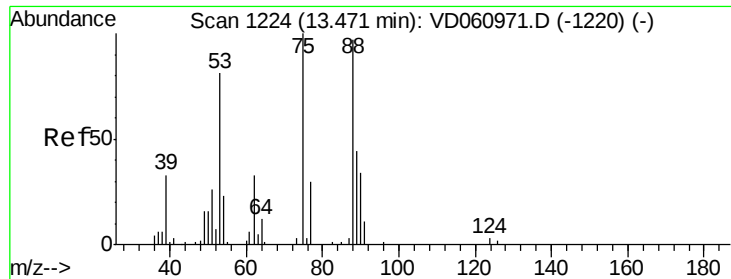


Abundance Ion 151.90 (151.60 to 152.60): V

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: 77.970 ug/l  
 RT: 13.54 min Scan# 1231  
 Delta R.T. 0.07 min  
 Lab File: VD061043.D  
 Acq: 13 Mar 2019 15:41

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 0.0   | 64.4  | 96.6# |
| 89      | 0.0   | 34.8  | 52.2# |

