

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY103119\  
 Data File : VY000512.D  
 Acq On : 31 Oct 2019 18:30  
 Operator : SY/MD  
 Sample : K5620-03RE  
 Misc : 5.21G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 09:08:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 109732   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 177289   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 140783   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 61282    | 50.00 | ug/l  | 0.00     |

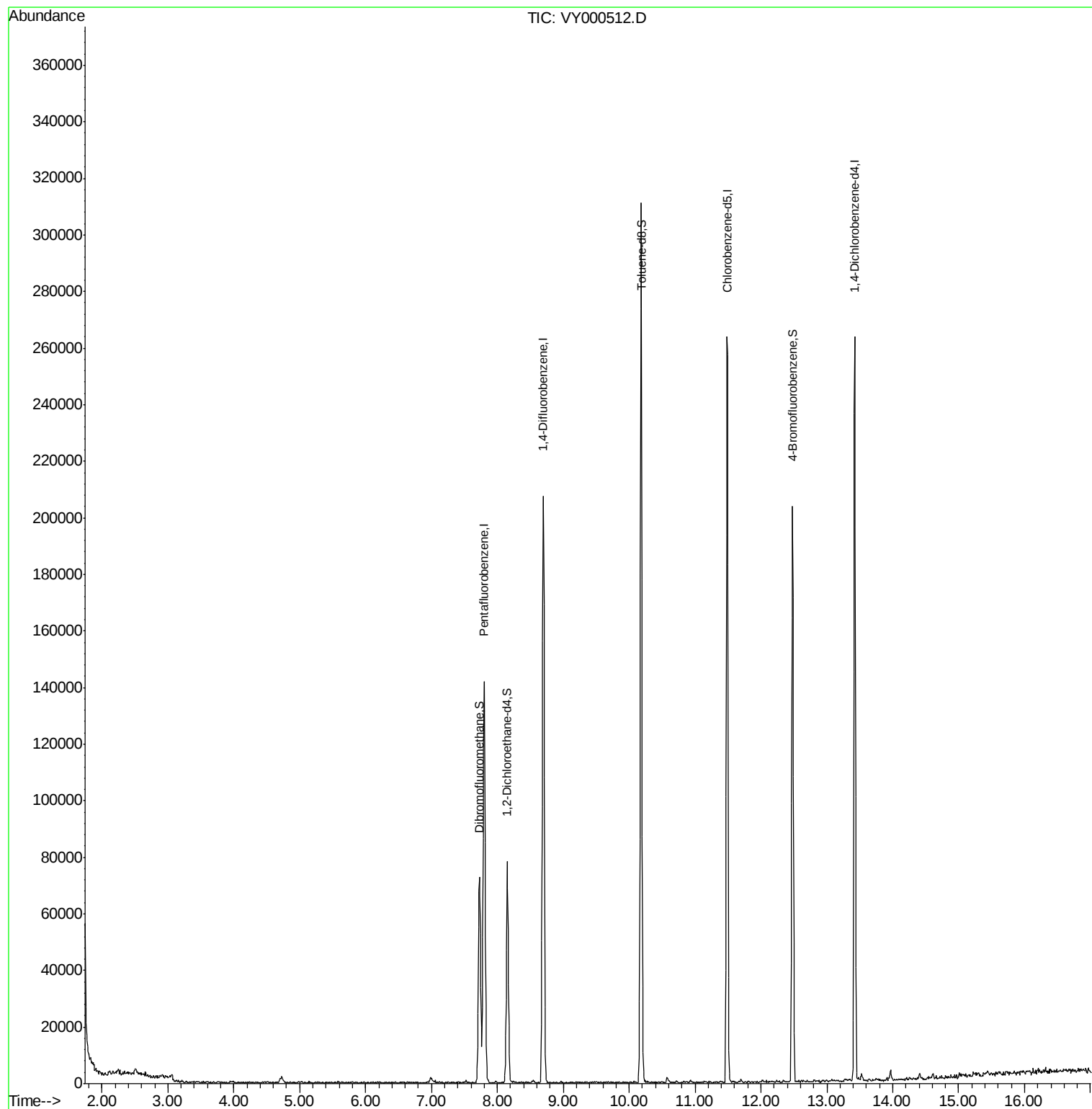
|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.15   | 65  | 57262    | 50.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.86% |      |
| 35) Dibromofluoromethane    | 7.73   | 113 | 49208    | 47.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.56%  |      |
| 50) Toluene-d8              | 10.18  | 98  | 199376   | 50.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.96% |      |
| 62) 4-Bromofluorobenzene    | 12.48  | 95  | 58759    | 39.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 78.16%  |      |

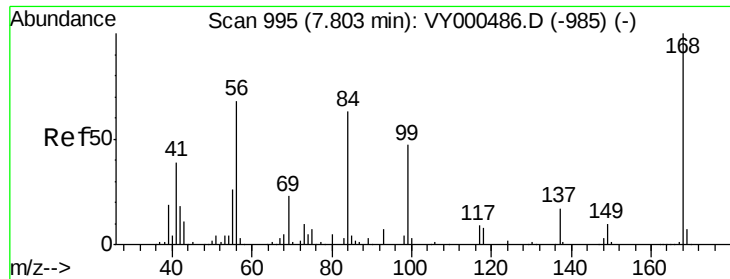
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000512.D

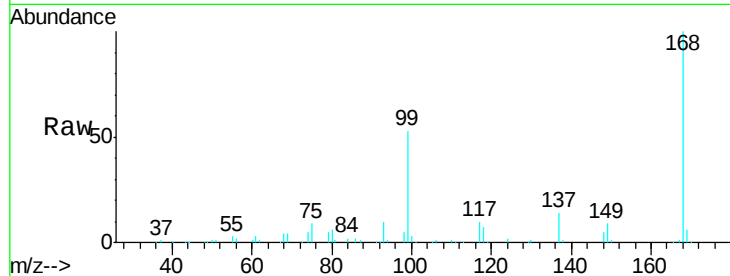
Acq: 31 Oct 2019 18:30

Tgt Ion: 168 Resp: 109732

Ion Ratio Lower Upper

168 100

99 53.4 45.7 68.5

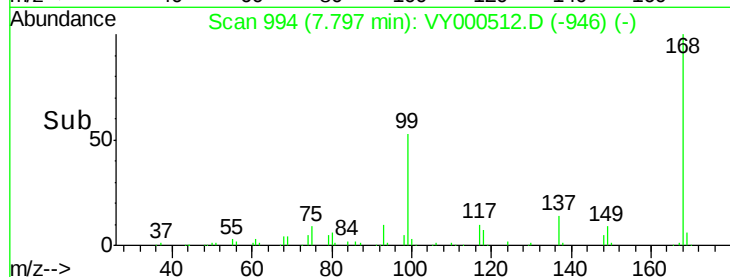


Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)

7.80

Time-->

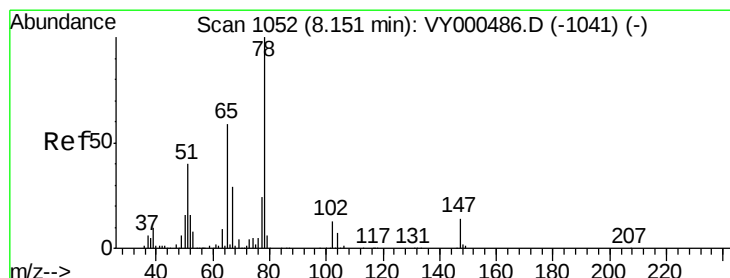


Abundance Ion 167.90 (167.60 to 168.60): VY000512.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000512.D (-946) (-)

7.80

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.425 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000512.D

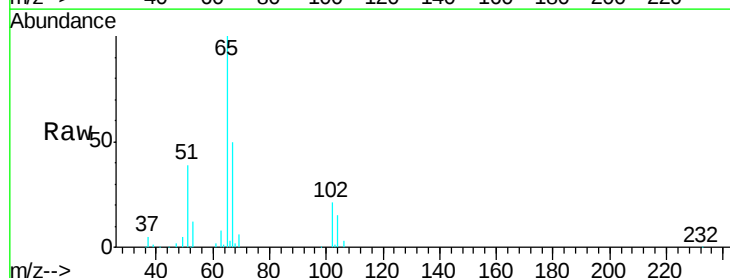
Acq: 31 Oct 2019 18:30

Tgt Ion: 65 Resp: 57262

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.2

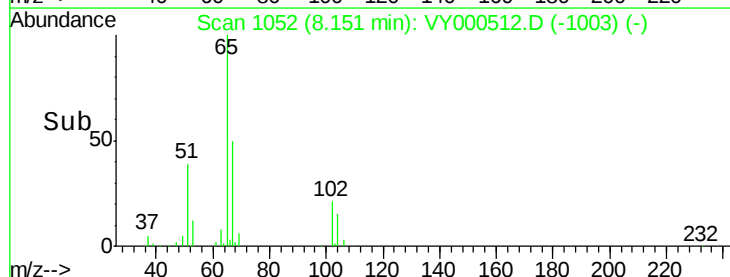


Abundance Ion 64.90 (64.60 to 65.60): VY000486.D (-1041) (-)

Ion 66.90 (66.60 to 67.60): VY000486.D (-1041) (-)

8.15

Time-->

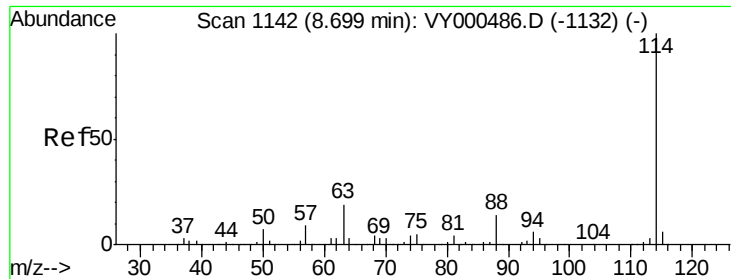


Abundance Ion 64.90 (64.60 to 65.60): VY000512.D (-1003) (-)

Ion 66.90 (66.60 to 67.60): VY000512.D (-1003) (-)

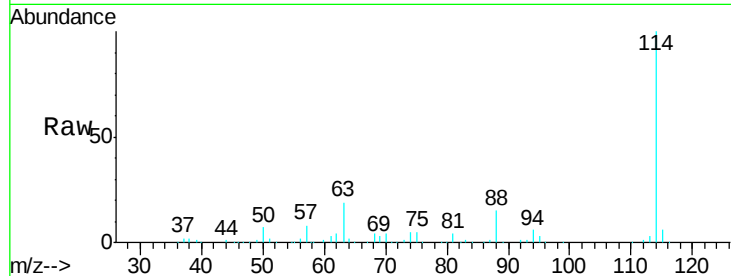
8.15

Time-->

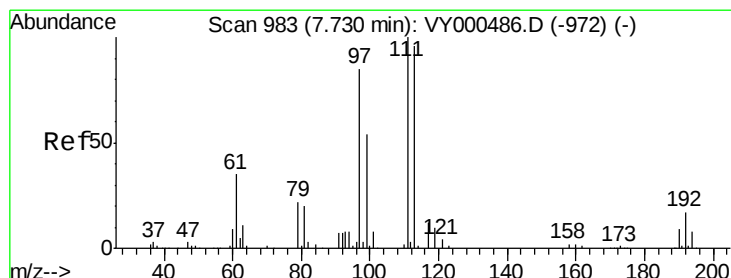
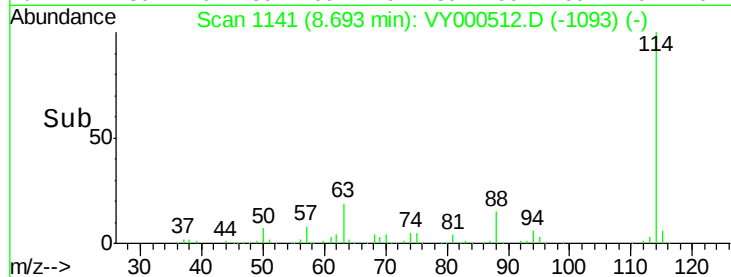
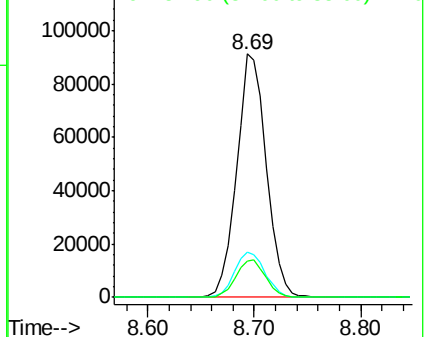


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.69 min Scan# 1141  
Delta R.T. -0.01 min  
Lab File: VY000512.D  
Acq: 31 Oct 2019 18:30

Tgt Ion:114 Resp: 177289  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 38.0  
88 15.1 0.0 28.6

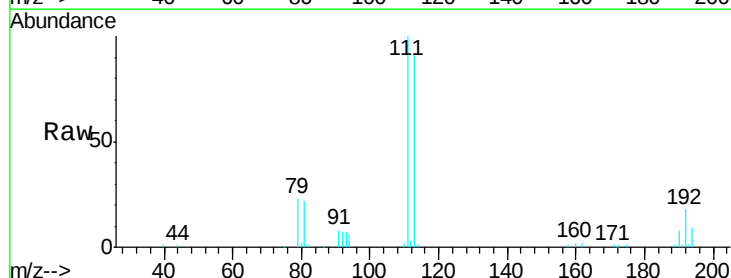


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VY0  
Ion 87.90 (87.60 to 88.60): VY0

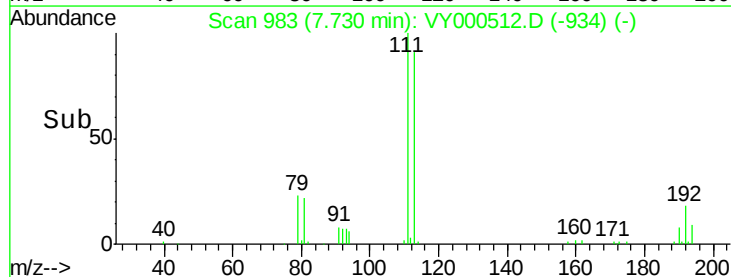
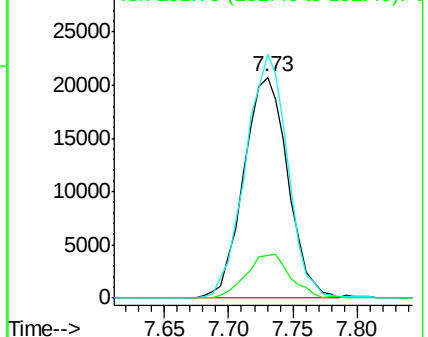


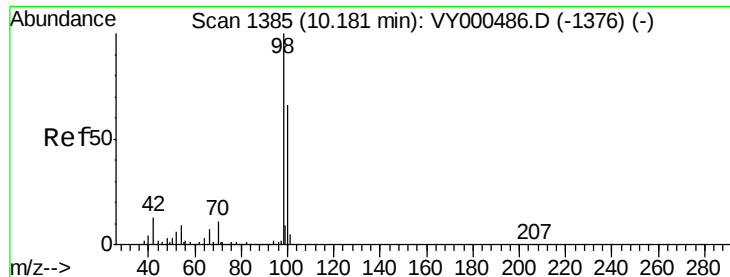
#35  
Dibromofluoromethane  
Concen: 47.279 ug/l  
RT: 7.73 min Scan# 983  
Delta R.T. -0.00 min  
Lab File: VY000512.D  
Acq: 31 Oct 2019 18:30

Tgt Ion:113 Resp: 49208  
Ion Ratio Lower Upper  
113 100  
111 105.9 81.7 122.5  
192 19.9 15.0 22.4



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.484 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000512.D

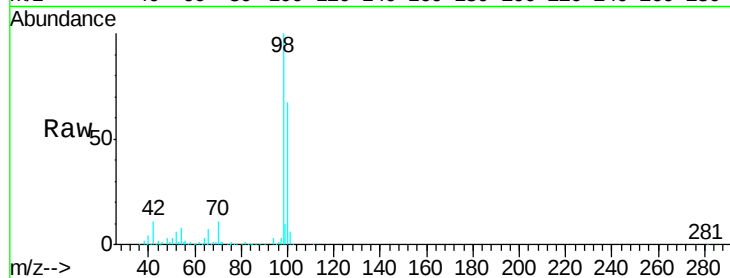
Acq: 31 Oct 2019 18:30

Tgt Ion: 98 Resp: 199376

Ion Ratio Lower Upper

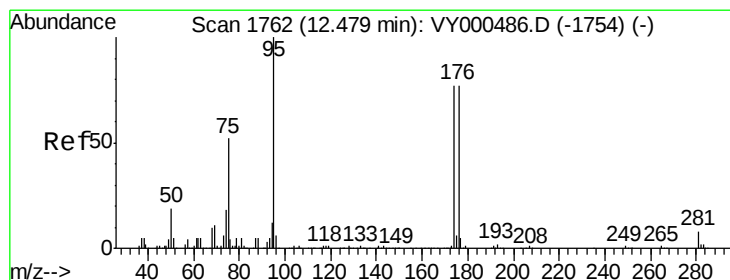
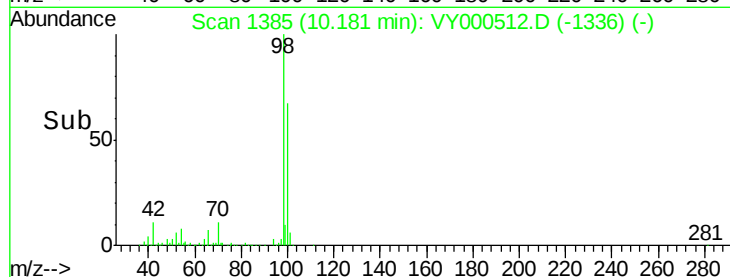
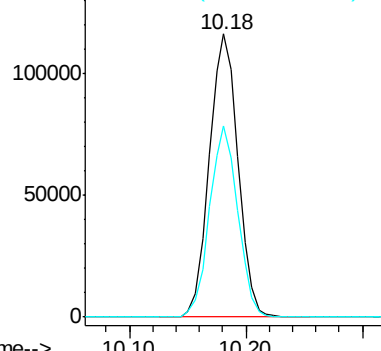
98 100

100 66.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#62

4-Bromofluorobenzene

Concen: 39.082 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000512.D

Acq: 31 Oct 2019 18:30

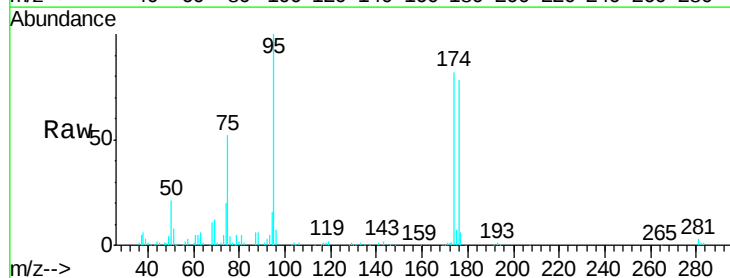
Tgt Ion: 95 Resp: 58759

Ion Ratio Lower Upper

95 100

174 84.9 0.0 161.6

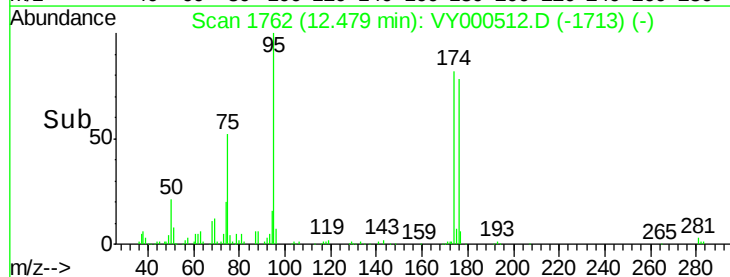
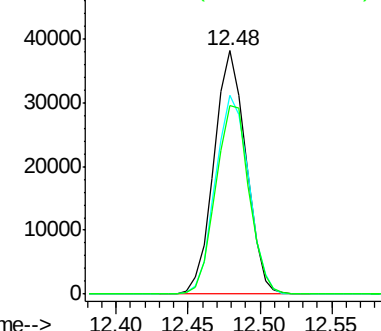
176 81.0 0.0 157.8

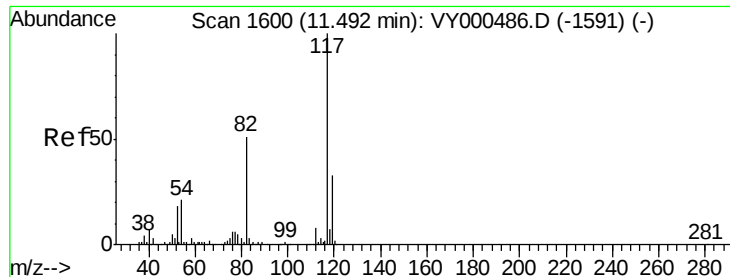


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

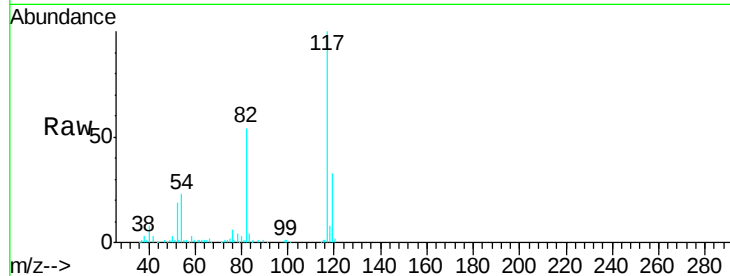
Ion 175.80 (175.50 to 176.50): V



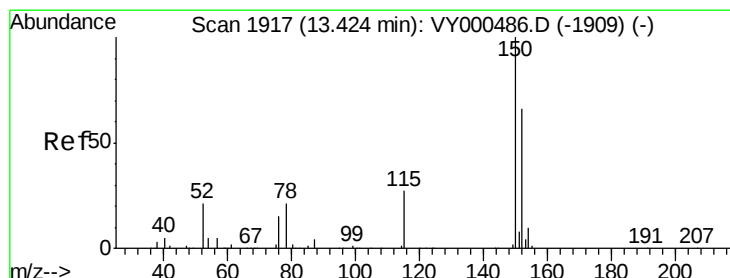
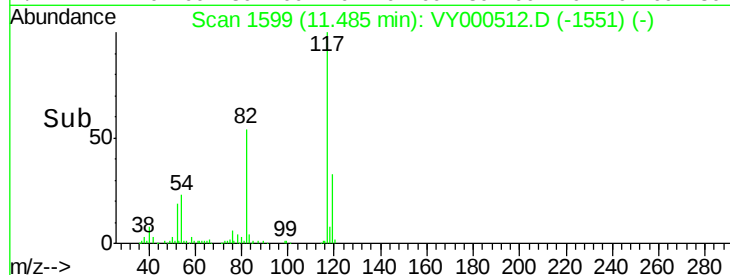
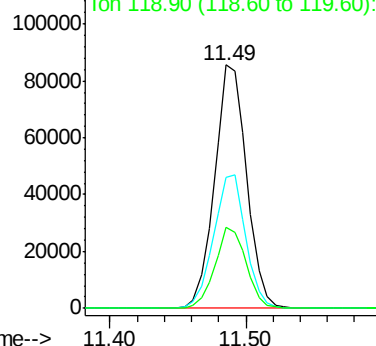


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VY000512.D  
Acq: 31 Oct 2019 18:30

Tgt Ion:117 Resp: 140783  
Ion Ratio Lower Upper  
117 100  
82 54.1 40.8 61.2  
119 33.5 26.2 39.2

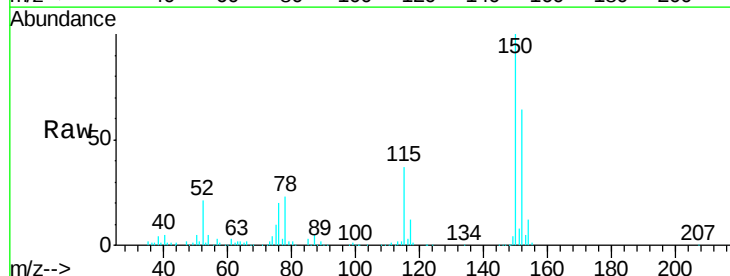


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000512.D  
Acq: 31 Oct 2019 18:30

Tgt Ion:152 Resp: 61282  
Ion Ratio Lower Upper  
152 100  
115 57.5 29.1 87.4  
150 160.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

