

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY091919\  
 Data File : VY000084.D  
 Acq On : 19 Sep 2019 17:52  
 Operator : SY/MD  
 Sample : K4878-15  
 Misc : 12.38g/5.00ml/MSVOA Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CSA-2-9-4

Quant Time: Sep 20 03:48:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 05:38:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 101821   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 201207   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 174205   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 65506    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 62589    | 53.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.86% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 56937    | 46.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.48%  |          |
| 50) Toluene-d8              | 10.18 | 98   | 241427   | 50.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.92% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 78111    | 43.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.94%  |          |

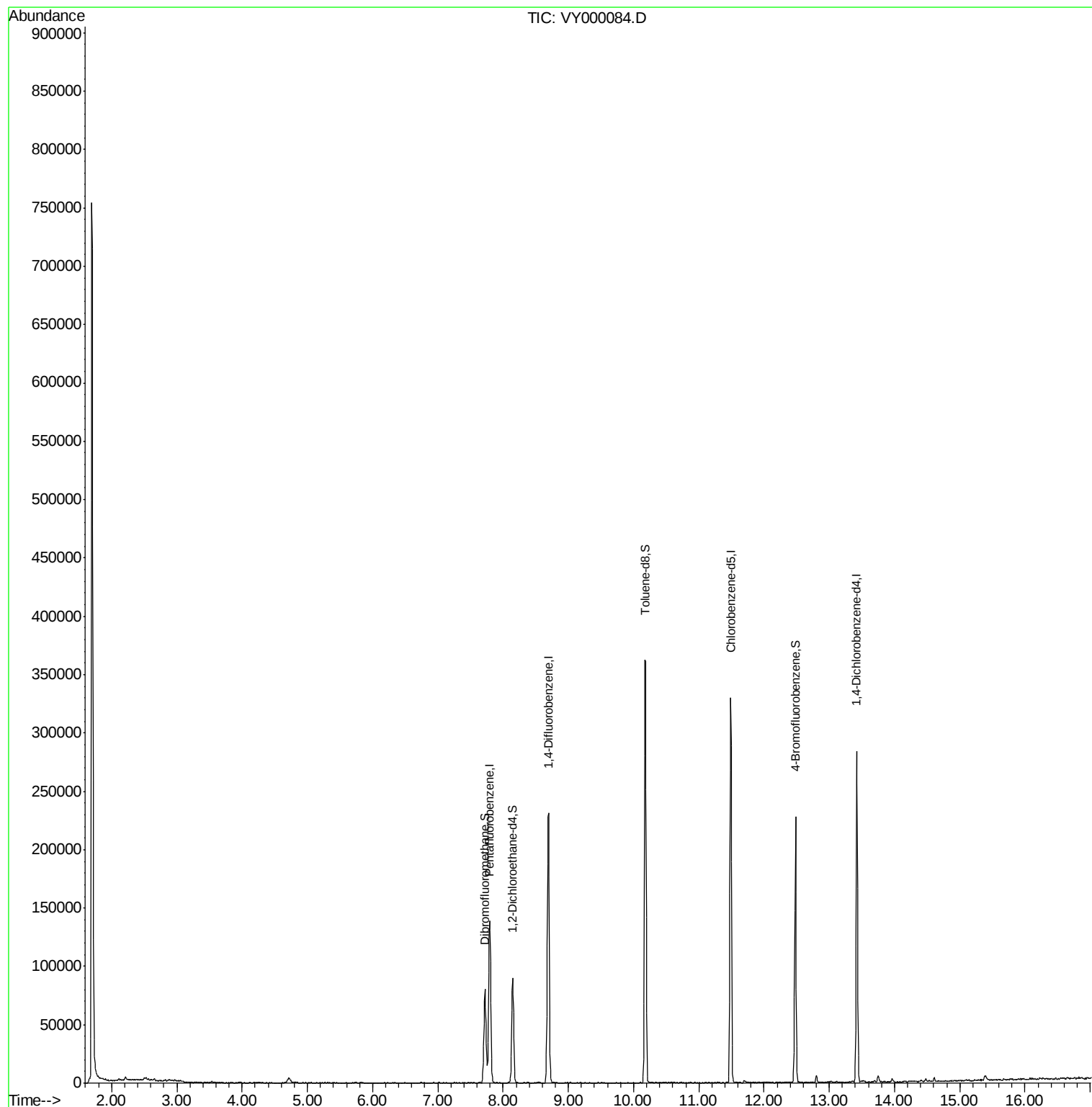
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

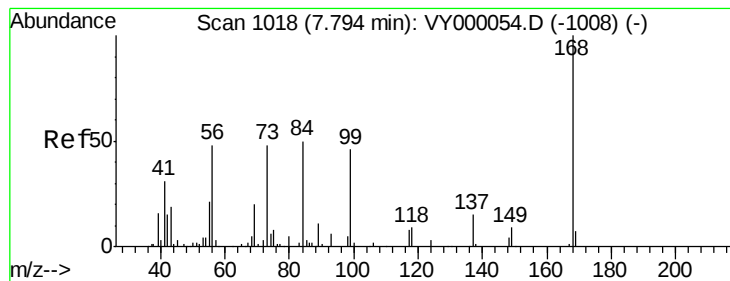
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 19 05:38:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VY000084.D

Acq: 19 Sep 2019 17:52

Instrument :

MSVOA\_Y

ClientSampled :

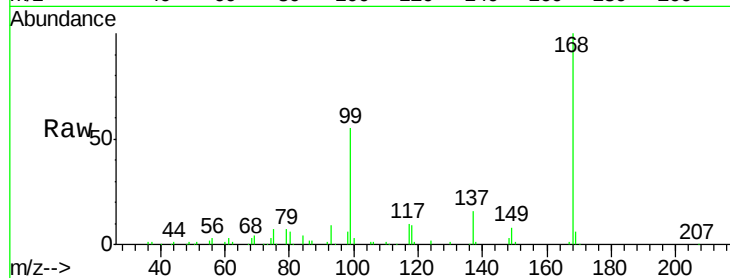
CSA-2-9-4

Tot Ion:168 Resp: 101821

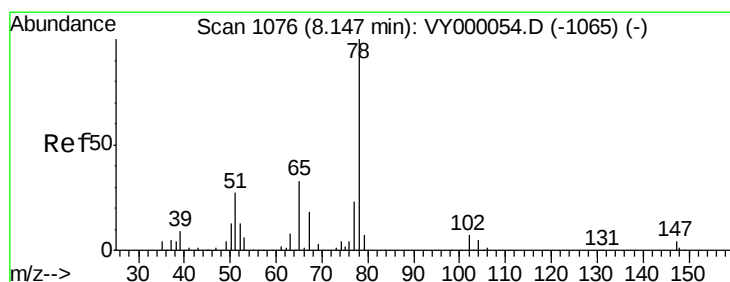
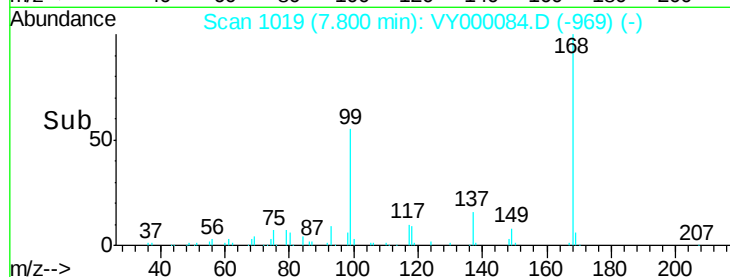
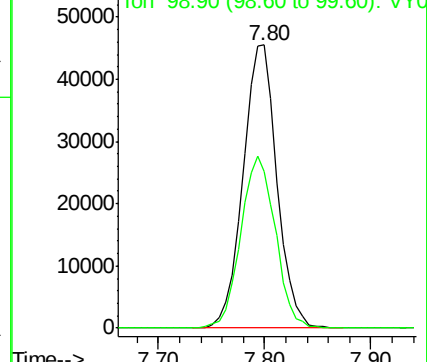
Ion Ratio Lower Upper

168 100

99 55.4 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000084.D (-1008) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.428 ug/l

RT: 8.15 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VY000084.D

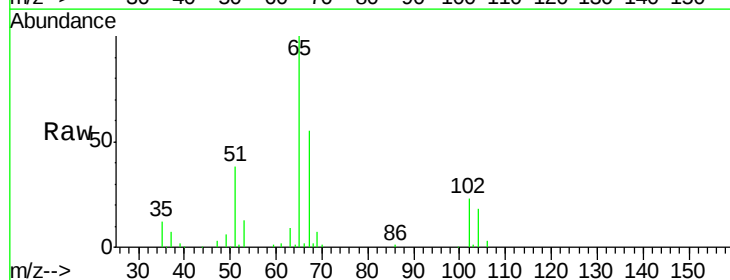
Acq: 19 Sep 2019 17:52

Tgt Ion: 65 Resp: 62589

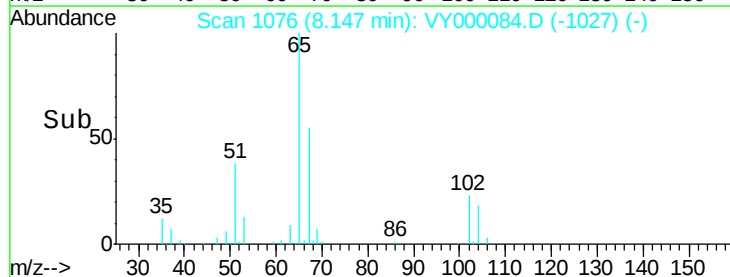
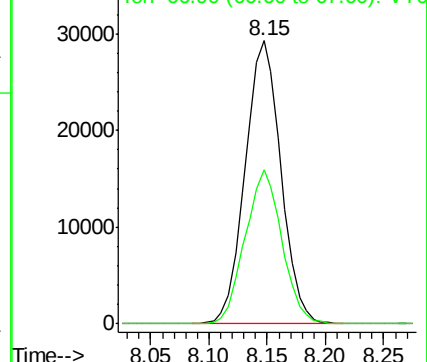
Ion Ratio Lower Upper

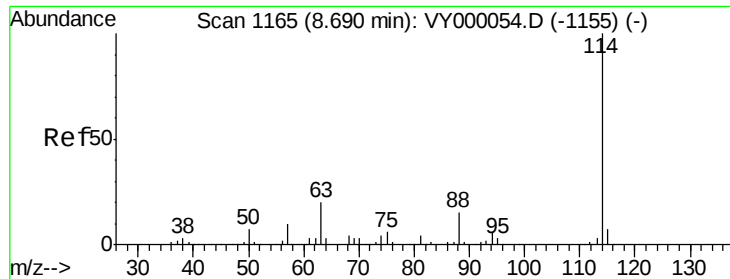
65 100

67 55.9 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY000084.D (-1027) (-)

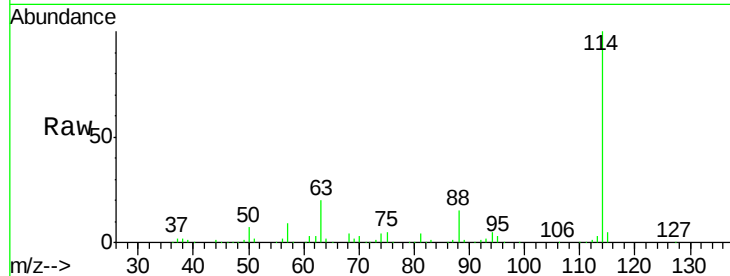




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1166  
 Delta R.T. 0.01 min  
 Lab File: VY000084.D  
 Acq: 19 Sep 2019 17:52

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CSA-2-9-4

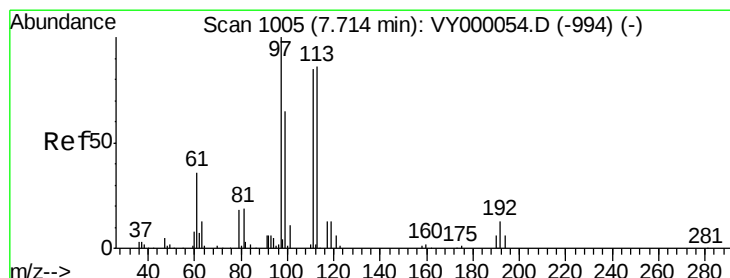
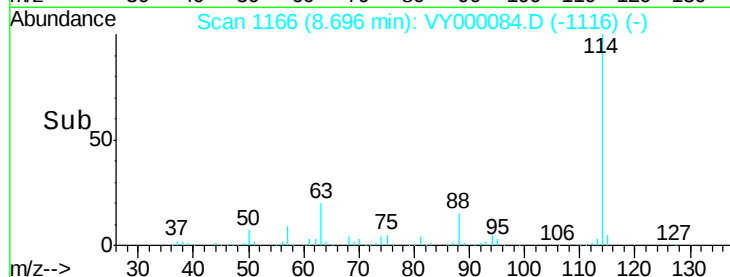
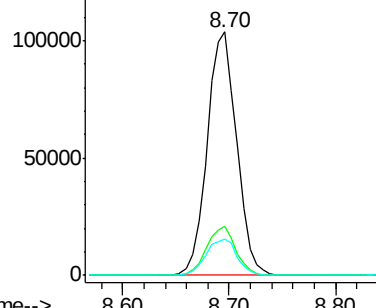
|             |       |        |
|-------------|-------|--------|
| Tot Ion:114 | Resp: | 201207 |
| Ion Ratio   | Lower | Upper  |
| 114 100     |       |        |
| 63 20.0     | 0.0   | 39.4   |
| 88 15.2     | 0.0   | 30.2   |



Abundance Ion 113.90 (113.60 to 114.60): V

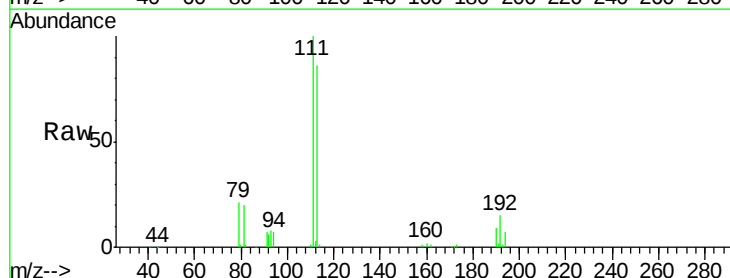
Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35  
 Dibromofluoromethane  
 Concen: 46.736 ug/l  
 RT: 7.72 min Scan# 1006  
 Delta R.T. 0.01 min  
 Lab File: VY000084.D  
 Acq: 19 Sep 2019 17:52

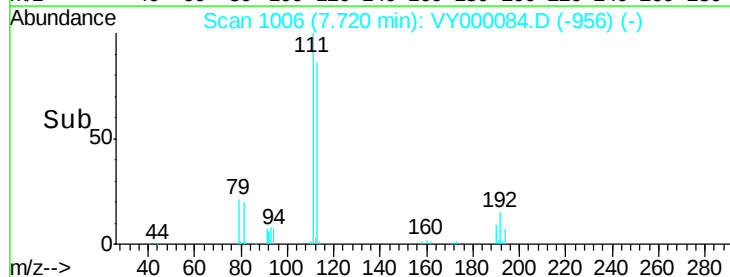
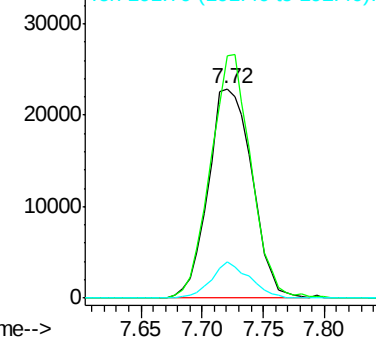
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:113 | Resp: | 56937 |
| Ion Ratio   | Lower | Upper |
| 113 100     |       |       |
| 111 108.0   | 81.7  | 122.5 |
| 192 15.2    | 13.4  | 20.2  |

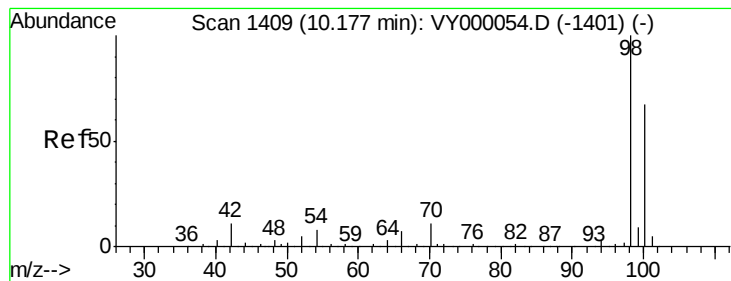


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.456 ug/l

RT: 10.18 min Scan# 1410

Delta R.T. 0.01 min

Lab File: VY000084.D

Acq: 19 Sep 2019 17:52

Instrument :

MSVOA\_Y

ClientSampleId :

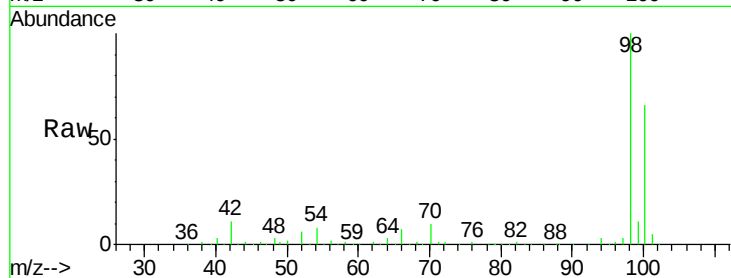
CSA-2-9-4

Tot Ion: 98 Resp: 241427

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.18

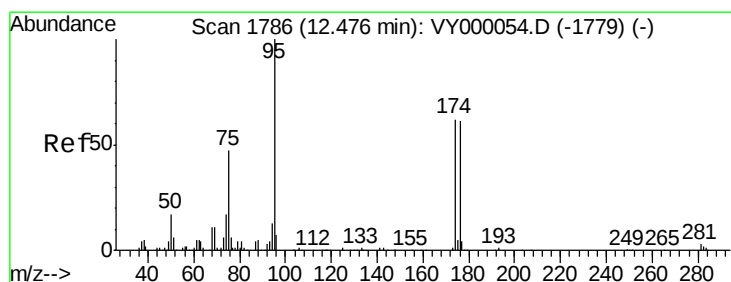
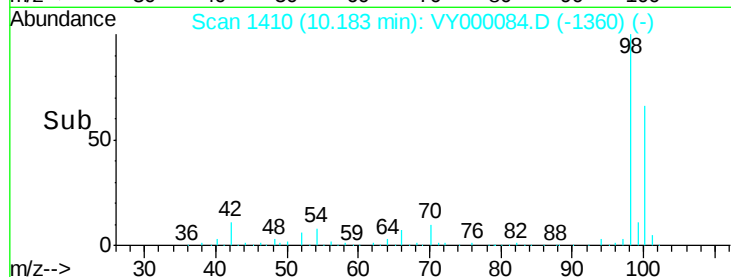
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.969 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.01 min

Lab File: VY000084.D

Acq: 19 Sep 2019 17:52

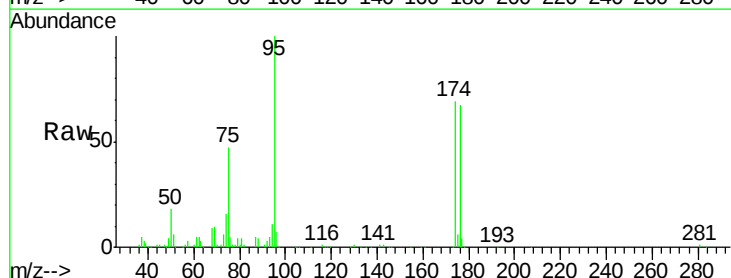
Tgt Ion: 95 Resp: 78111

Ion Ratio Lower Upper

95 100

174 67.0 0.0 137.2

176 63.7 0.0 135.0



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

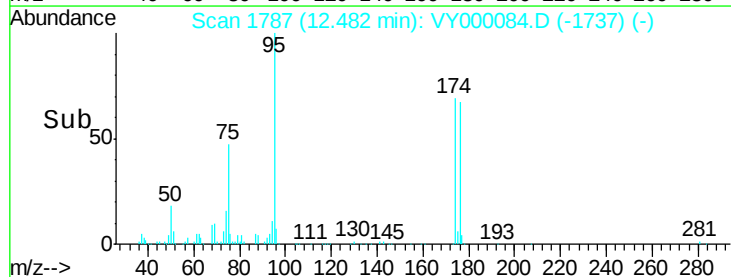
60000

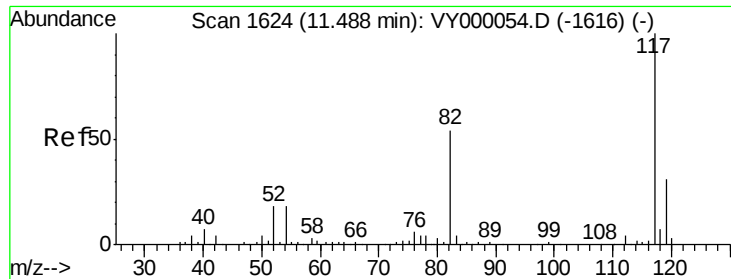
40000

20000

0

Time-->

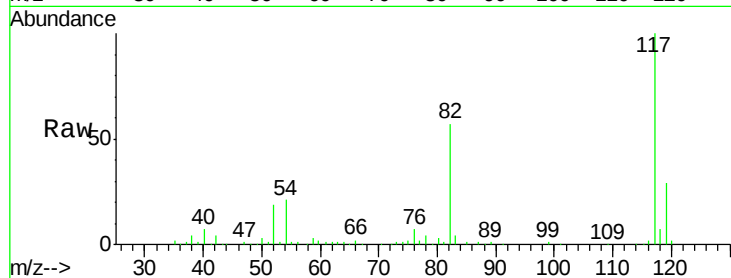




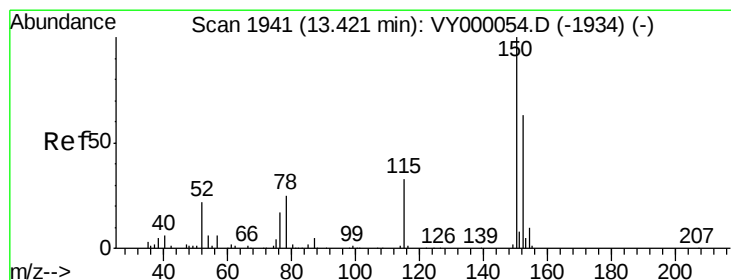
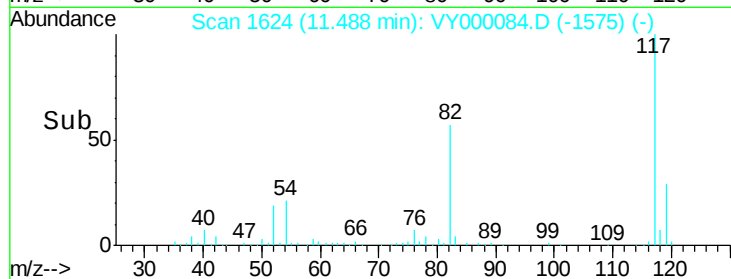
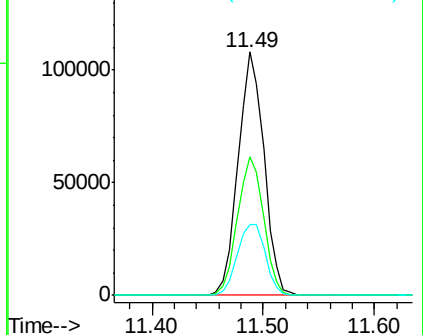
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1624  
Delta R.T. -0.00 min  
Lab File: VY000084.D  
Acq: 19 Sep 2019 17:52

Instrument :  
MSVOA\_Y  
ClientSampled :  
CSA-2-9-4

Tot Ion:117 Resp: 174205  
Ion Ratio Lower Upper  
117 100  
82 57.2 43.5 65.3  
119 29.2 24.6 36.8

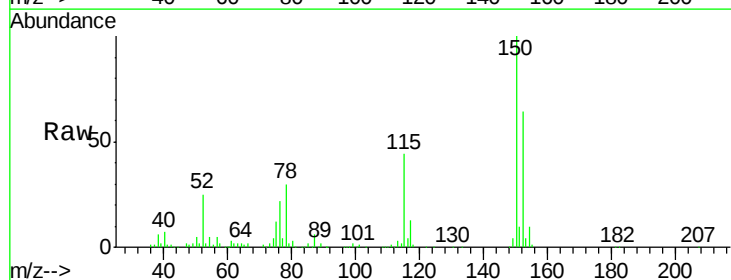


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1941  
Delta R.T. -0.00 min  
Lab File: VY000084.D  
Acq: 19 Sep 2019 17:52

Tgt Ion:152 Resp: 65506  
Ion Ratio Lower Upper  
152 100  
115 65.3 30.7 92.1  
150 158.1 0.0 351.6



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

