

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051519\  
 Data File : VD062399.D  
 Acq On : 15 May 2019 20:21  
 Operator : FY/SY  
 Sample : K2848-04  
 Misc : 5.66g/5mL/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-GF-02-040-B

Quant Time: May 16 04:42:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 602351   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 871385   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 672187   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 298185   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 7.45   | 65  | 255268   | 45.60 | ug/l   | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.20% |      |
| 35) Dibromofluoromethane    | 6.93   | 113 | 286896   | 39.68 | ug/l   | 0.04 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.36% |      |
| 50) Toluene-d8              | 10.42  | 98  | 616136   | 35.35 | ug/l   | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 70.70% |      |
| 62) 4-Bromofluorobenzene    | 13.56  | 95  | 250652   | 35.81 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 71.62% |      |

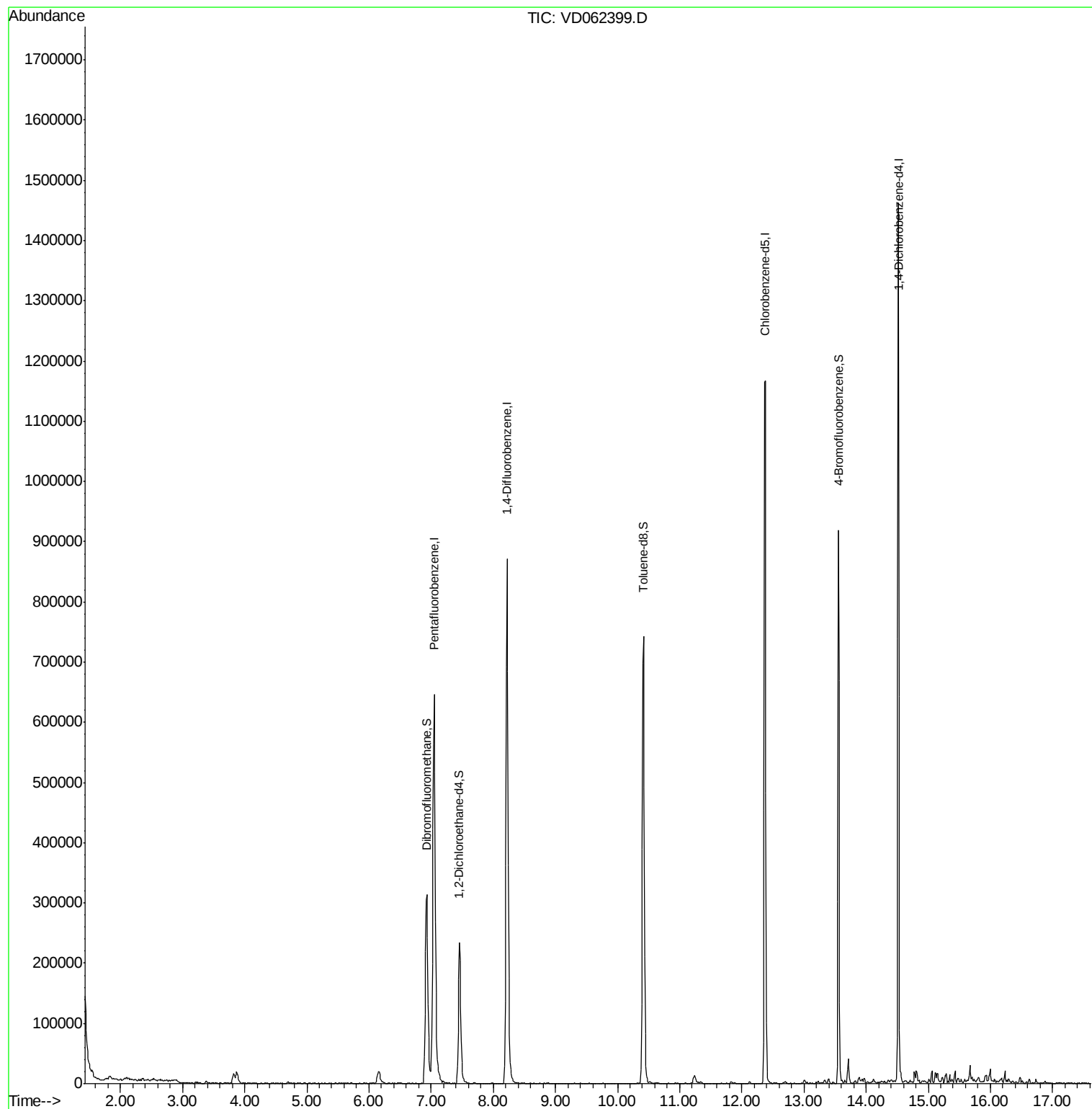
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

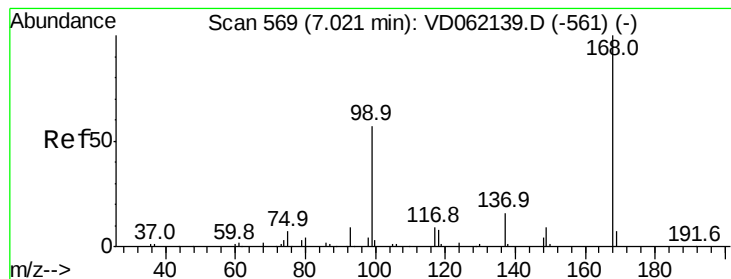
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051519\  
Data File : VD062399.D  
Acq On : 15 May 2019 20:21  
Operator : FY/SY  
Sample : K2848-04  
Misc : 5.66g/5mL/MSVOA D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-040-B

Quant Time: May 16 04:42:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062399.D

Acq: 15 May 2019 20:21

Instrument :

MSVOA\_D

ClientSampleId :

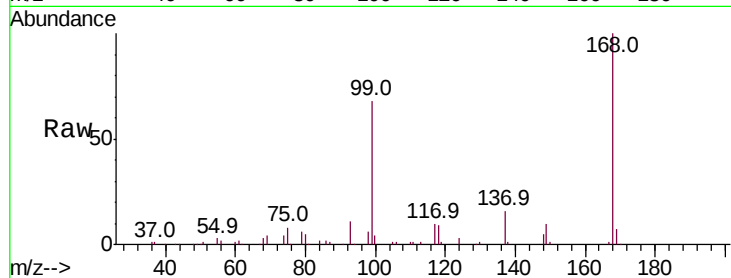
FK-GF-02-040-B

Tot Ion:168 Resp: 602351

Ion Ratio Lower Upper

168 100

99 67.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

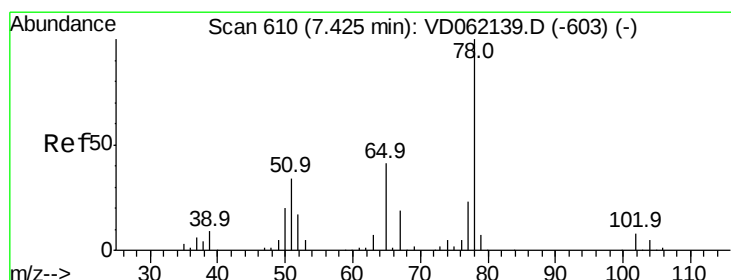
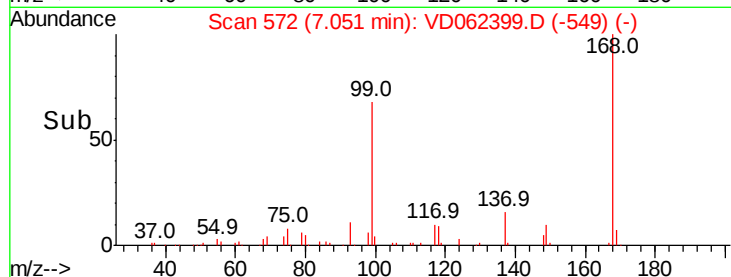
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#33

1,2-Dichloroethane-d4

Concen: 45.602 ug/l

RT: 7.45 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062399.D

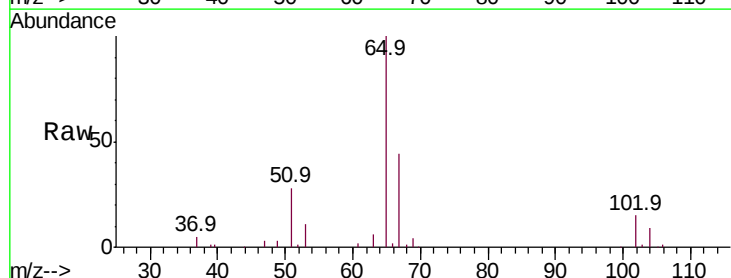
Acq: 15 May 2019 20:21

Tgt Ion: 65 Resp: 255268

Ion Ratio Lower Upper

65 100

67 44.4 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

100000

80000

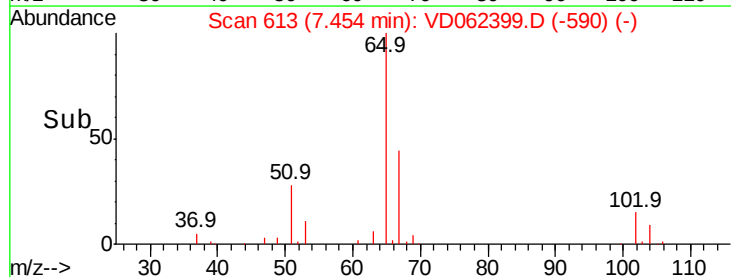
60000

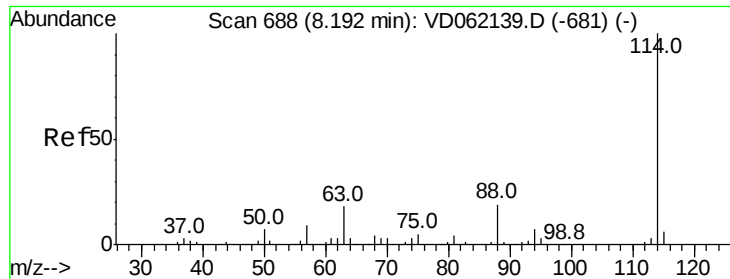
40000

20000

0

Time--> 7.30 7.40 7.50 7.60

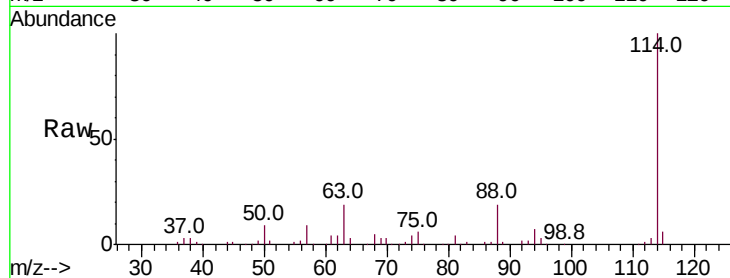




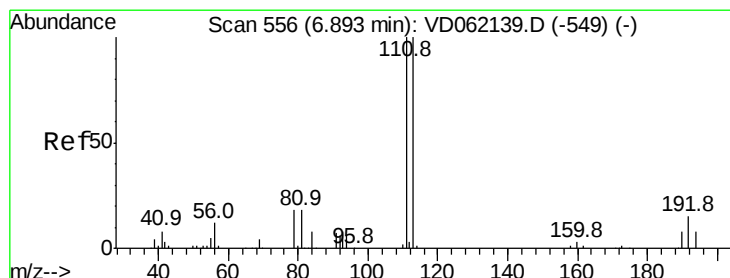
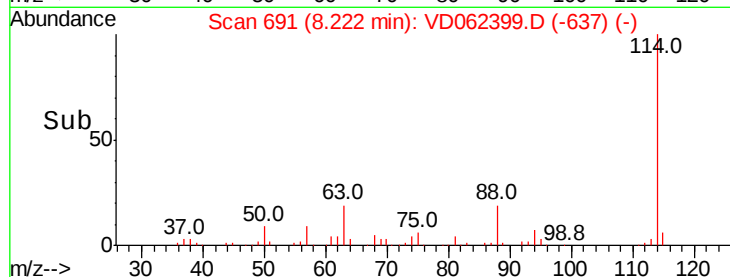
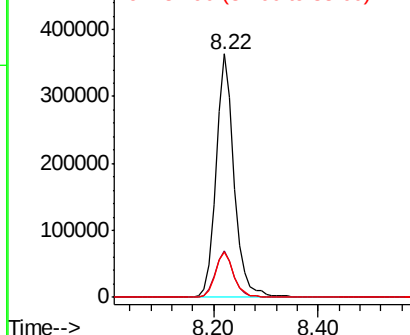
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 691  
 Delta R.T. 0.03 min  
 Lab File: VD062399.D  
 Acq: 15 May 2019 20:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-GF-02-040-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 871385 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 19.2  | 0.0   | 32.4   |
| 88       | 18.6  | 0.0   | 33.6   |

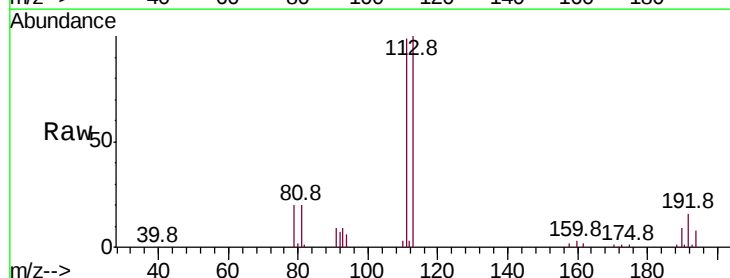


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

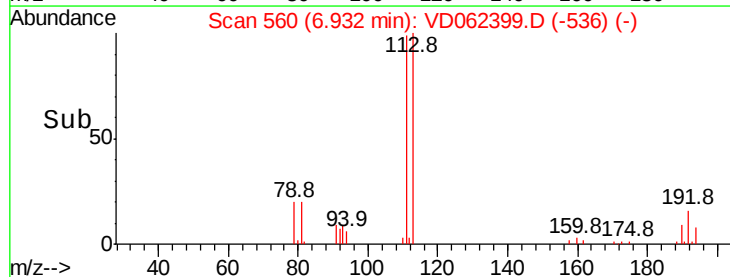
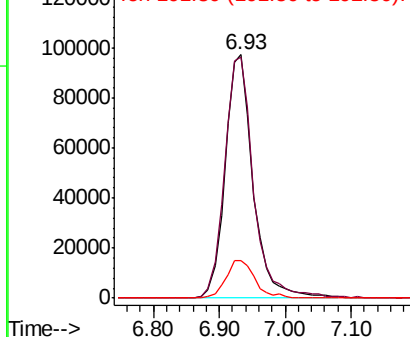


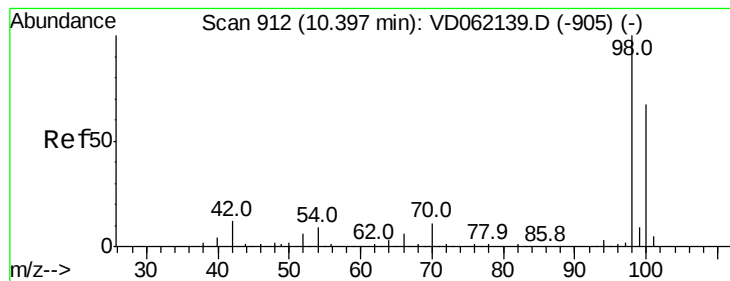
#35  
 Dibromofluoromethane  
 Concen: 39.681 ug/l  
 RT: 6.93 min Scan# 560  
 Delta R.T. 0.04 min  
 Lab File: VD062399.D  
 Acq: 15 May 2019 20:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 286896 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 98.9  | 78.5  | 117.7  |
| 192      | 15.6  | 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: 35.345 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062399.D

Acq: 15 May 2019 20:21

Instrument :

MSVOA\_D

ClientSampleId :

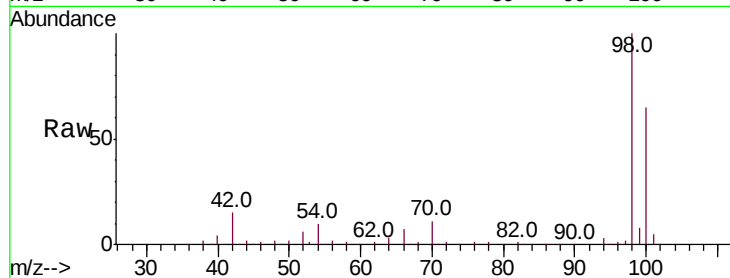
FK-GF-02-040-B

Tot Ion: 98 Resp: 616136

Ion Ratio Lower Upper

98 100

100 65.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)

10.42

300000

250000

200000

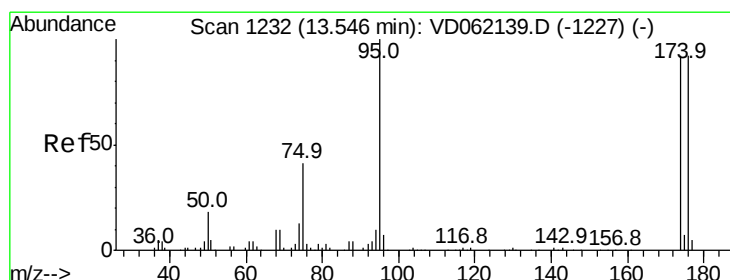
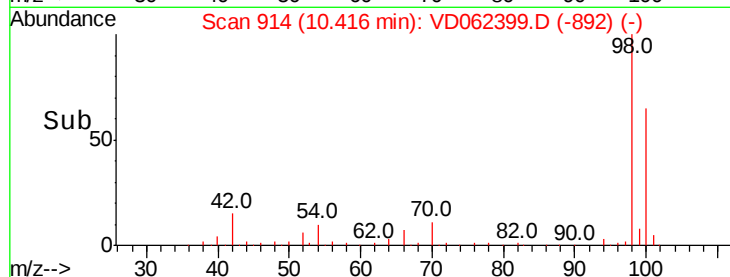
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 35.807 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062399.D

Acq: 15 May 2019 20:21

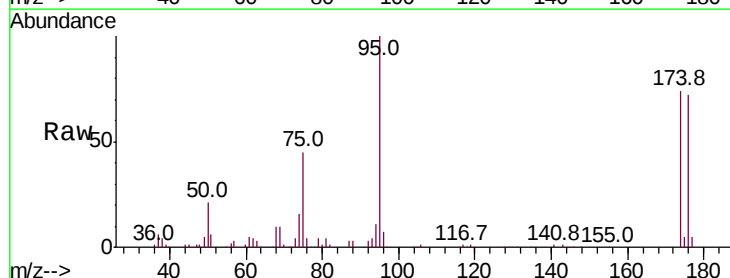
Tgt Ion: 95 Resp: 250652

Ion Ratio Lower Upper

95 100

174 73.7 0.0 181.8

176 72.1 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062139.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062139.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062139.D (-1227) (-)

250000

200000

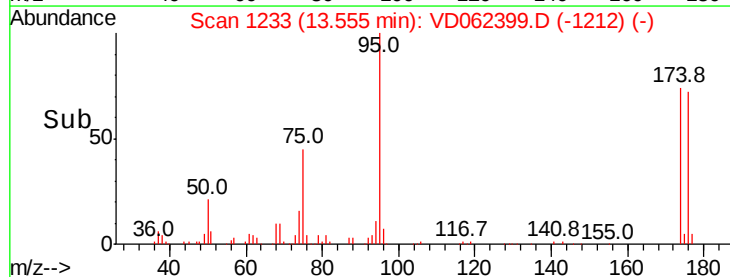
150000

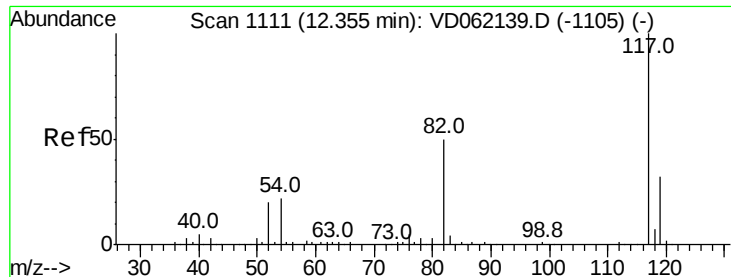
100000

50000

0

Time-->

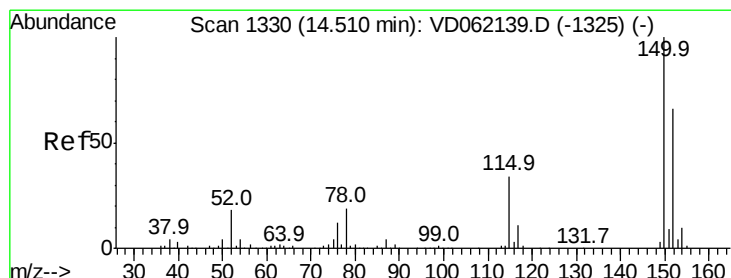
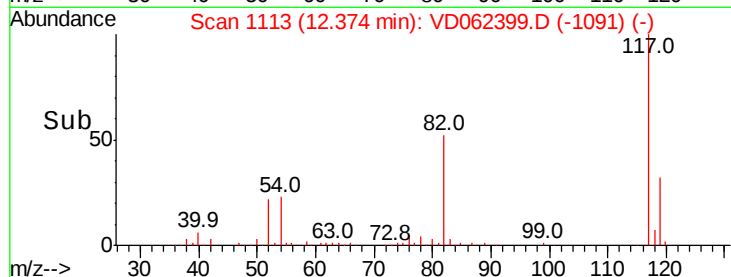
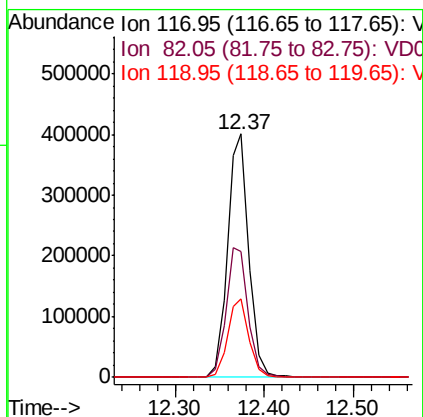
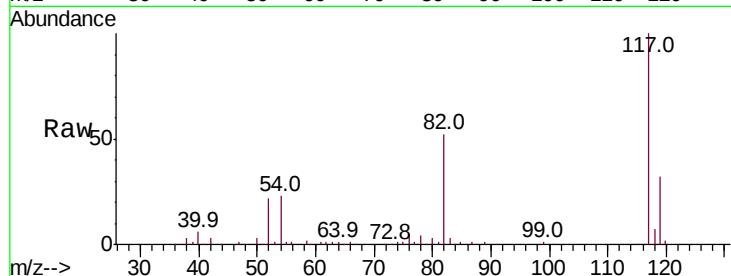




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VD062399.D  
Acq: 15 May 2019 20:21

Instrument :  
MSVOA\_D  
ClientSampleID :  
FK-GF-02-040-B

Tot Ion:117 Resp: 672187  
Ion Ratio Lower Upper  
117 100  
82 51.6 36.2 54.2  
119 32.2 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: VD062399.D  
Acq: 15 May 2019 20:21

Tgt Ion:152 Resp: 298185  
Ion Ratio Lower Upper  
152 100  
115 59.7 30.9 92.7  
150 159.7 0.0 314.8

