

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070219\  
 Data File : VD063011.D  
 Acq On : 2 Jul 2019 19:17  
 Operator : VA/AP  
 Sample : K3602-05  
 Misc : 5.10g/5ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 GP-5

Quant Time: Jul 03 01:32:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 1056639  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 1401938  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 1212833  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 641846   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 7.46   | 65  | 434796   | 37.86 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 75.72% |      |
| 35) Dibromofluoromethane    | 6.93   | 113 | 486800   | 41.18 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.36% |      |
| 50) Toluene-d8              | 10.42  | 98  | 1003210  | 38.99 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 77.98% |      |
| 62) 4-Bromofluorobenzene    | 13.56  | 95  | 468127   | 40.02 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 80.04% |      |

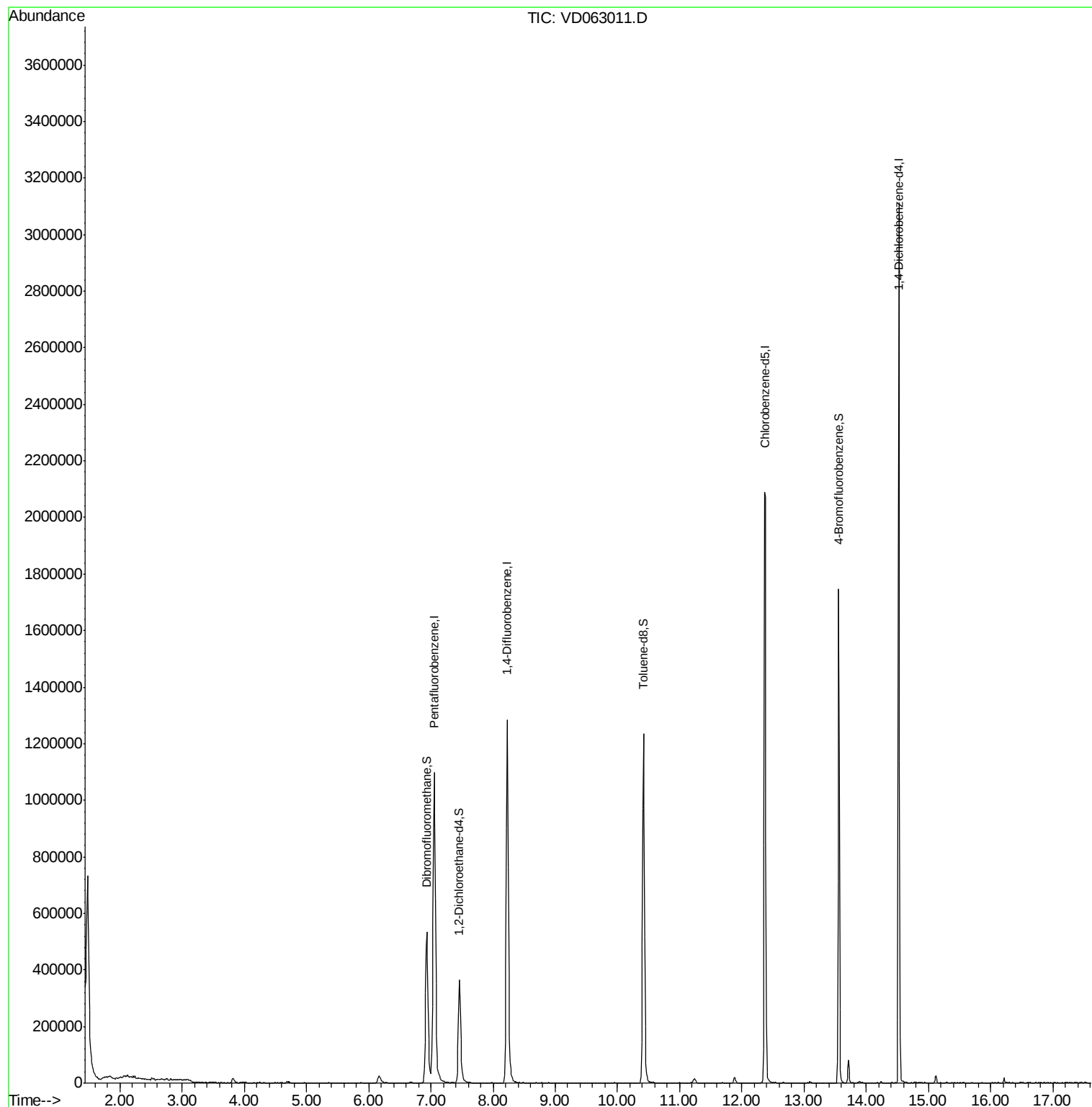
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

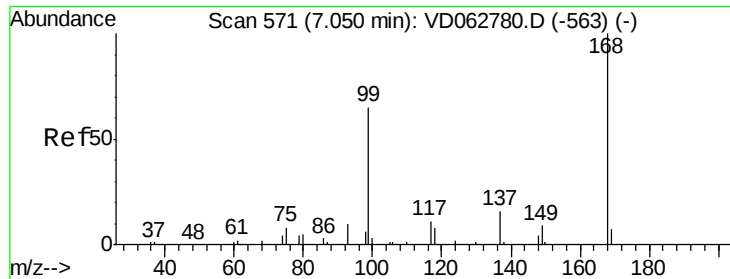
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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GP-5

Quant Time: Jul 03 01:32:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 01:50:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD063011.D

Acq: 2 Jul 2019 19:17

Instrument :

MSVOA\_D

ClientSampleId :

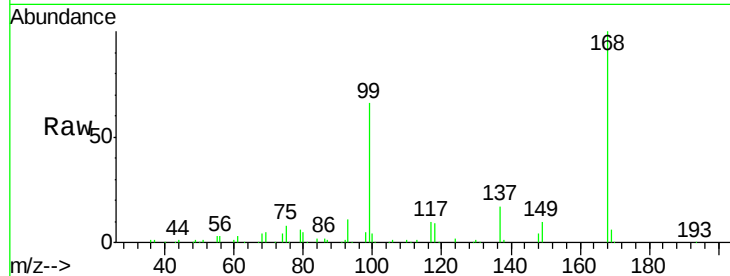
GP-5

Tot Ion:168 Resp: 1056639

Ion Ratio Lower Upper

168 100

99 66.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

400000

300000

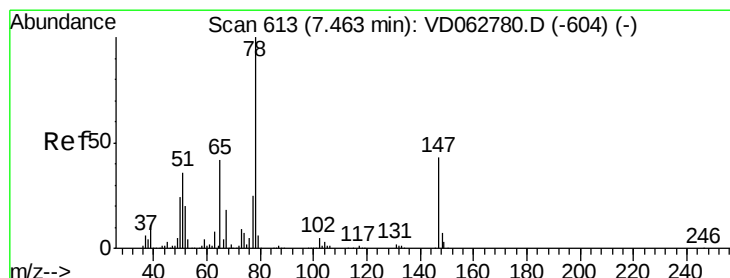
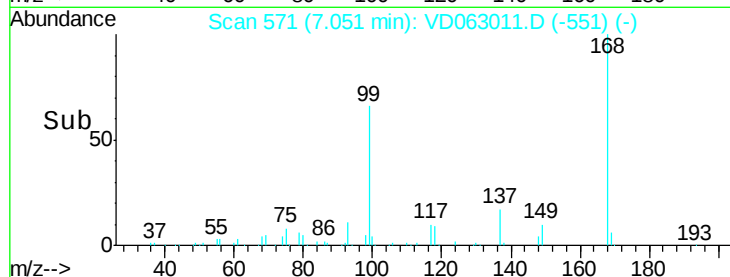
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: 37.856 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD063011.D

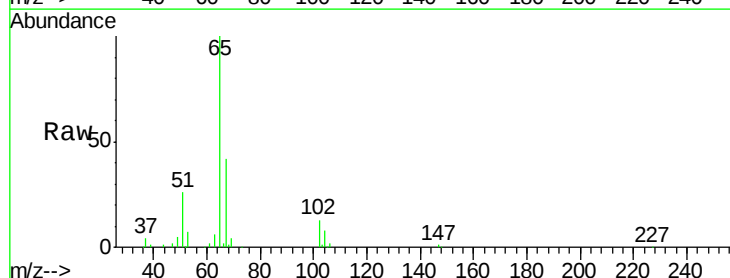
Acq: 2 Jul 2019 19:17

Tgt Ion: 65 Resp: 434796

Ion Ratio Lower Upper

65 100

67 41.6 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

150000

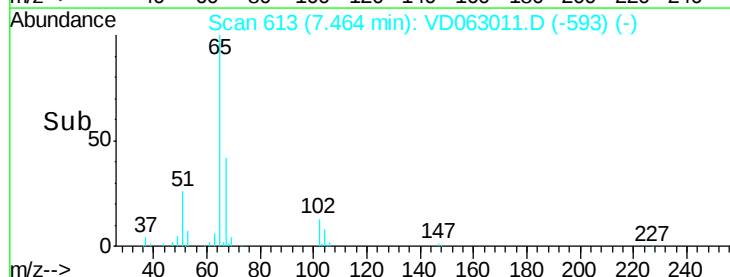
100000

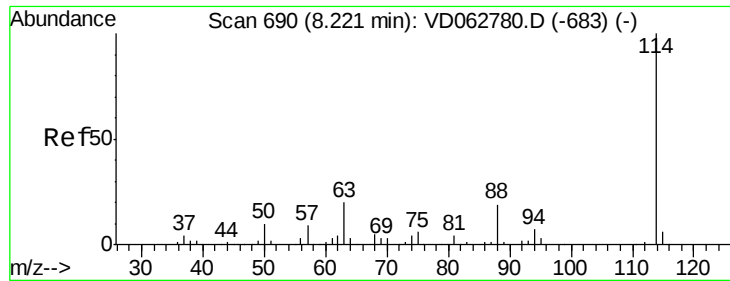
50000

0

7.30 7.40 7.50 7.60 7.70

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD063011.D

Acq: 2 Jul 2019 19:17

Instrument :

MSVOA\_D

ClientSampleId :

GP-5

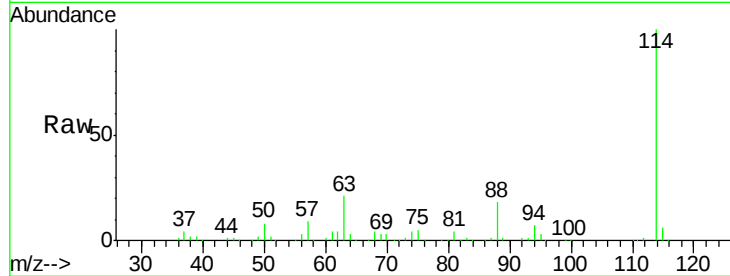
Tot Ion:114 Resp: 1401938

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.0

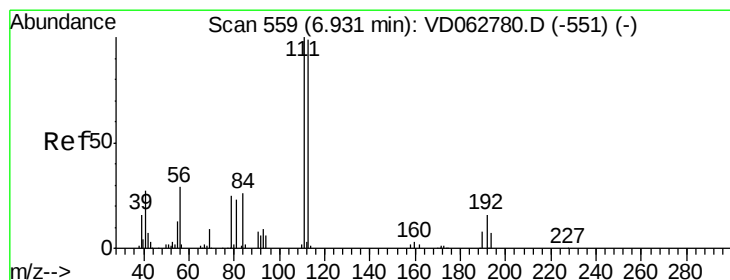
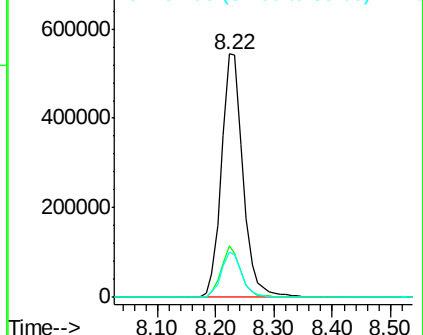
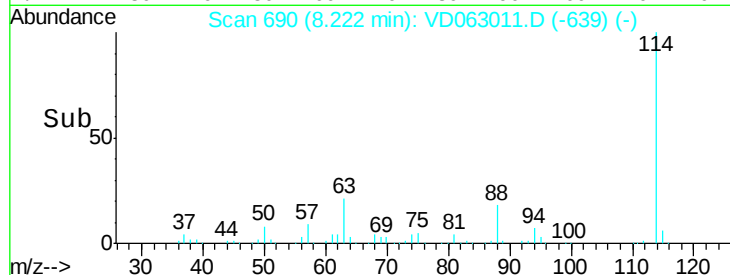
88 18.5 0.0 38.8



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: 41.181 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD063011.D

Acq: 2 Jul 2019 19:17

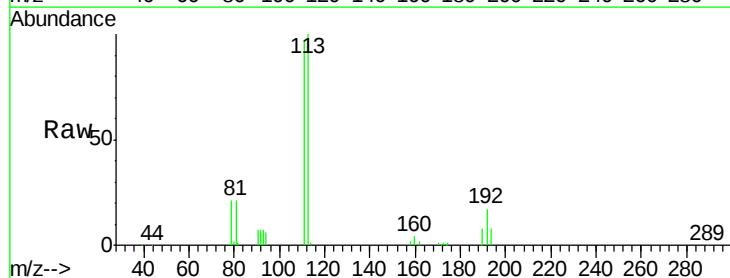
Tgt Ion:113 Resp: 486800

Ion Ratio Lower Upper

113 100

111 97.4 81.2 121.8

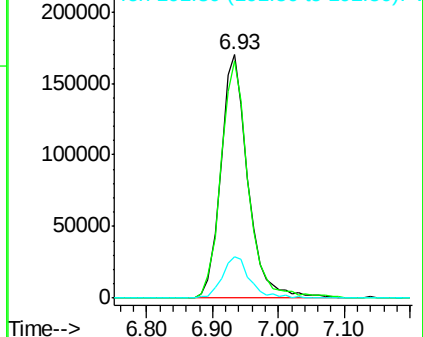
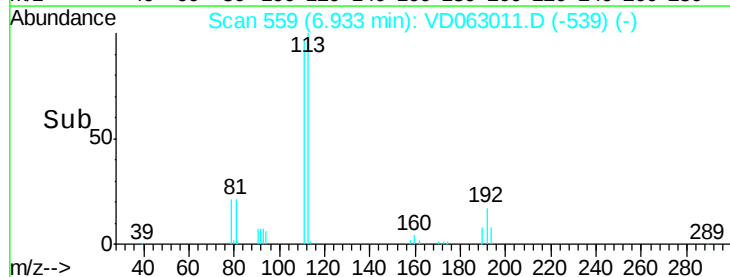
192 17.0 12.9 19.3



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

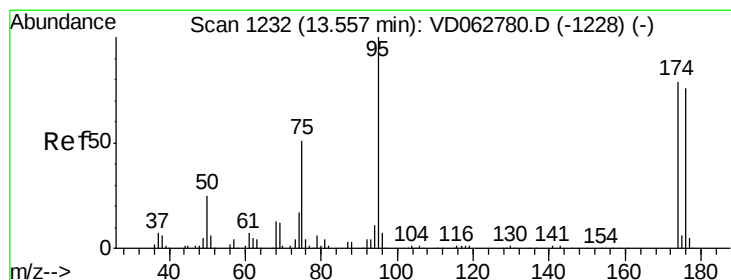
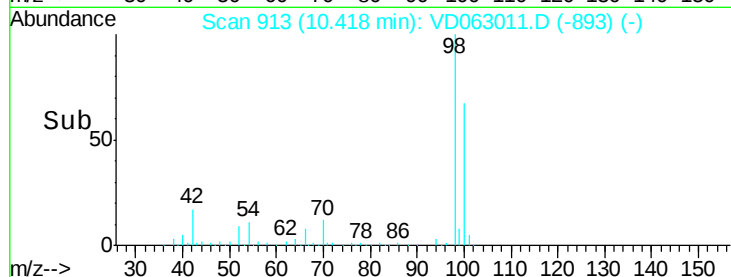
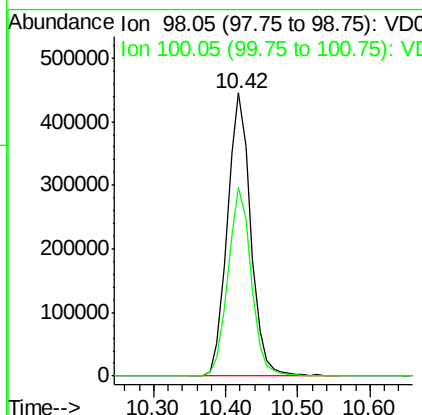
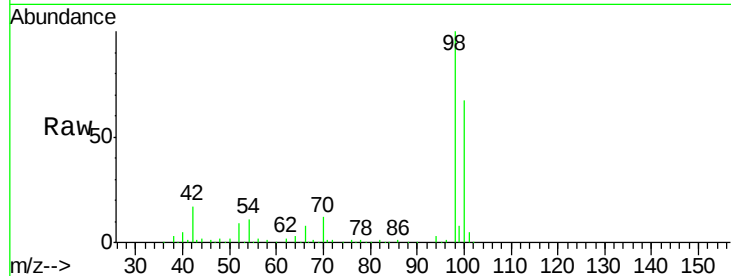




#50  
Toluene-d8  
Concen: 38.993 ug/l  
RT: 10.42 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VD063011.D  
Acq: 2 Jul 2019 19:17

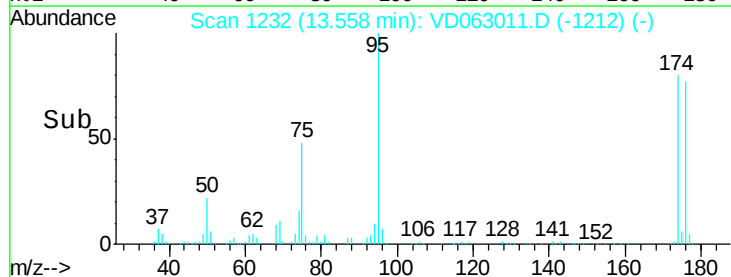
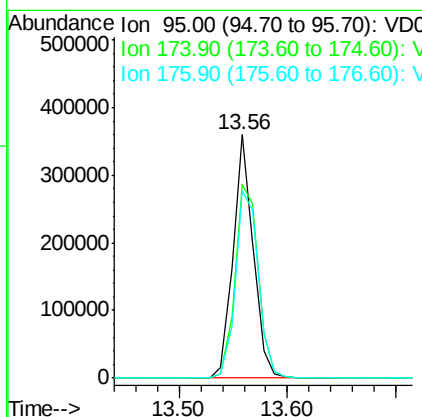
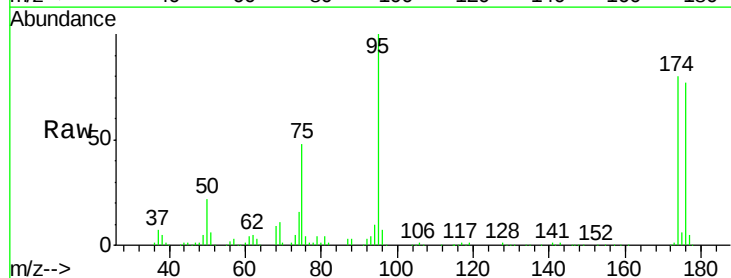
Instrument :  
MSVOA\_D  
ClientSampleId :  
GP-5

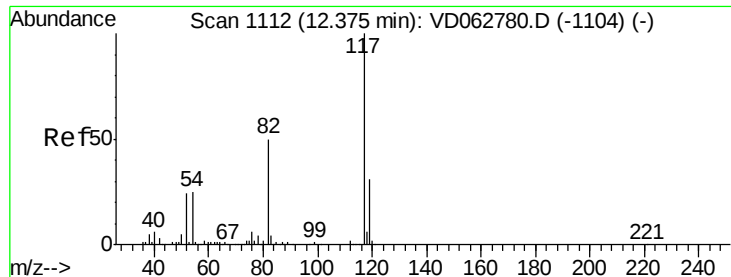
Tot Ion: 98 Resp: 1003210  
Ion Ratio Lower Upper  
98 100  
100 66.8 54.7 82.1



#62  
4-Bromofluorobenzene  
Concen: 40.015 ug/l  
RT: 13.56 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD063011.D  
Acq: 2 Jul 2019 19:17

Tgt Ion: 95 Resp: 468127  
Ion Ratio Lower Upper  
95 100  
174 79.8 0.0 158.0  
176 77.2 0.0 151.6

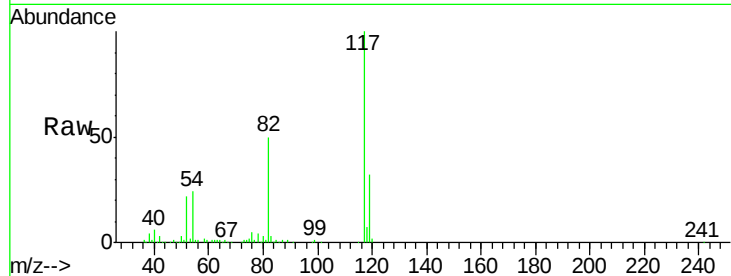




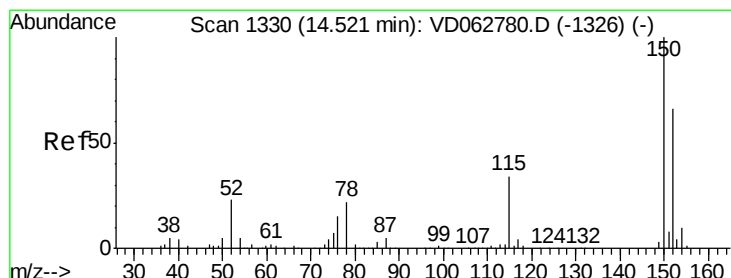
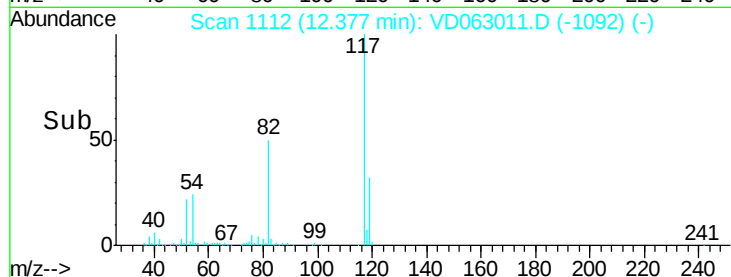
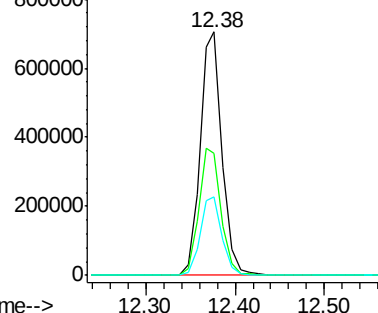
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD063011.D  
Acq: 2 Jul 2019 19:17

Instrument :  
MSVOA\_D  
ClientSampleId :  
GP-5

Tot Ion:117 Resp: 1212833  
Ion Ratio Lower Upper  
117 100  
82 50.3 40.4 60.6  
119 32.1 25.2 37.8

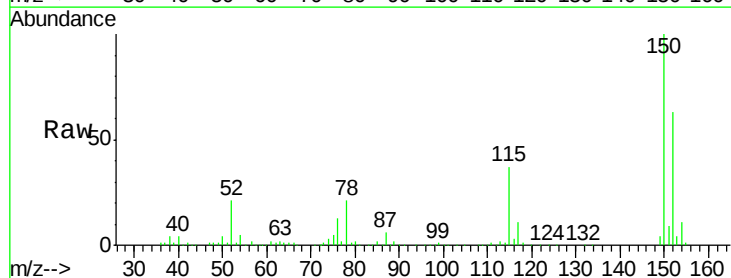


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD063011.D  
Acq: 2 Jul 2019 19:17

Tgt Ion:152 Resp: 641846  
Ion Ratio Lower Upper  
152 100  
115 58.4 29.2 87.6  
150 158.5 0.0 305.8



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

