

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052119\  
 Data File : VD062490.D  
 Acq On : 21 May 2019 19:20  
 Operator : VA/AP  
 Sample : K2971-11  
 Misc : 7.14g/5ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUP-2A-G-11-052019

Quant Time: May 22 03:23:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D052019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 21 03:32:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 520485   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 726351   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 569652   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 306067   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 170626   | 30.63 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 61.26% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 222473   | 33.95 | ug/l   | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 67.90% |          |
| 50) Toluene-d8              | 10.40 | 98   | 439470   | 30.65 | ug/l   | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 61.30% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 196653   | 31.35 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 62.70% |          |

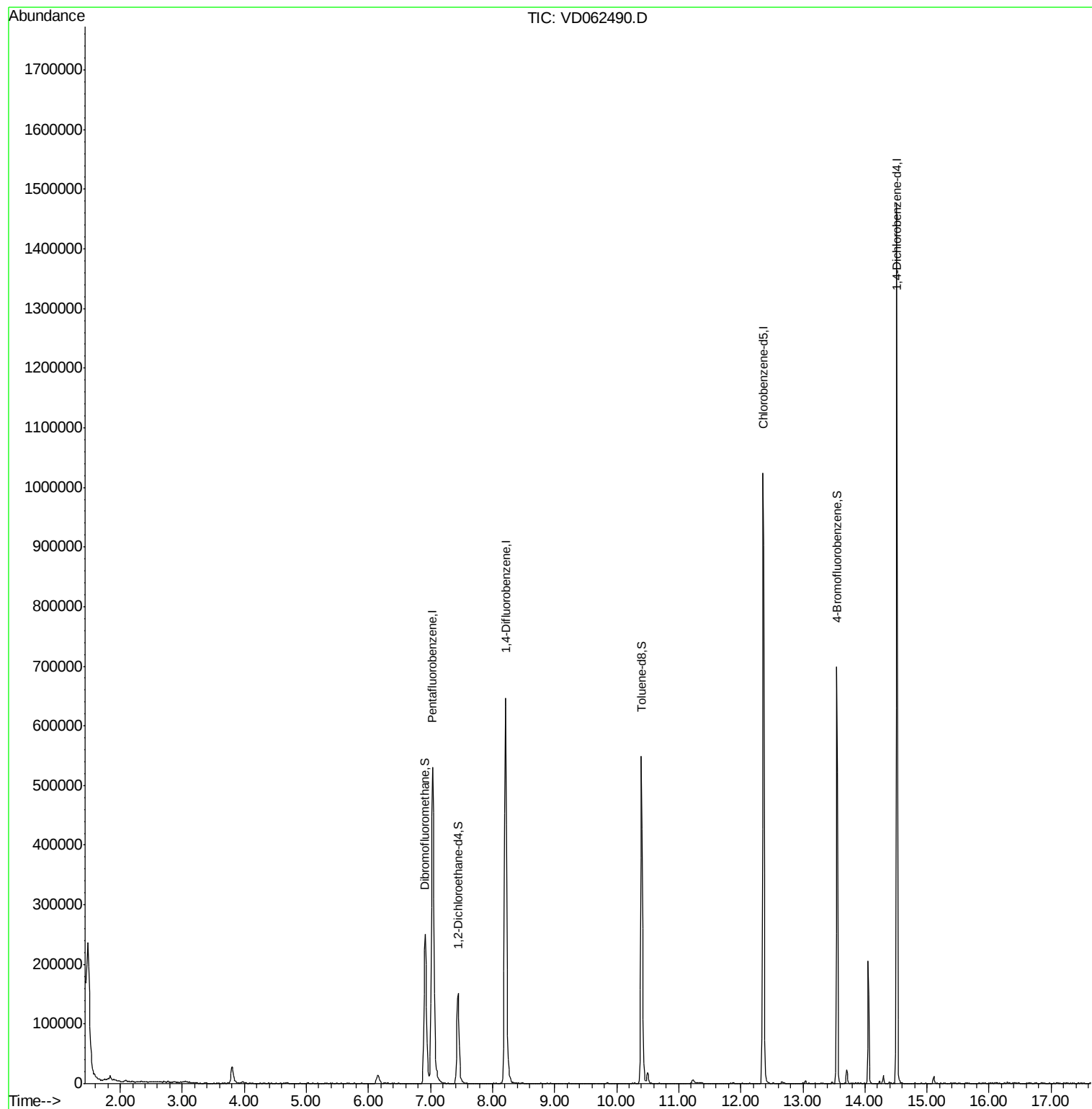
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

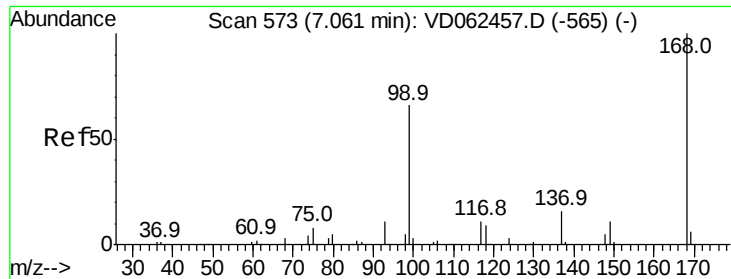
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052119\  
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Quant Title : SW846 8260  
QLast Update : Tue May 21 03:32:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD062490.D

Acq: 21 May 2019 19:20

Instrument :

MSVOA\_D

ClientSampleId :

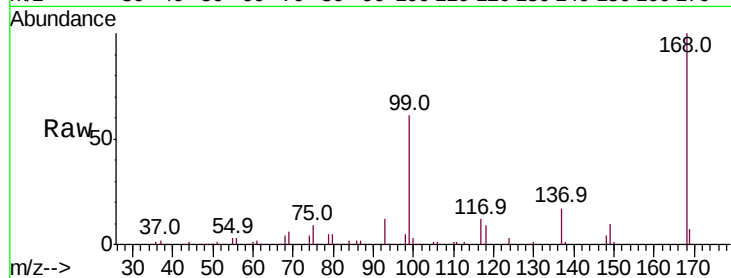
SUP-2A-G-11-052019

Tot Ion:168 Resp: 520485

Ion Ratio Lower Upper

168 100

99 61.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

150000

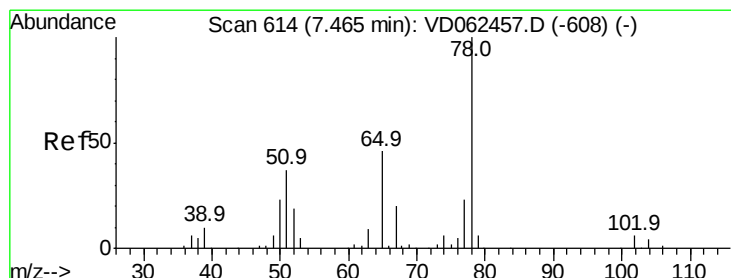
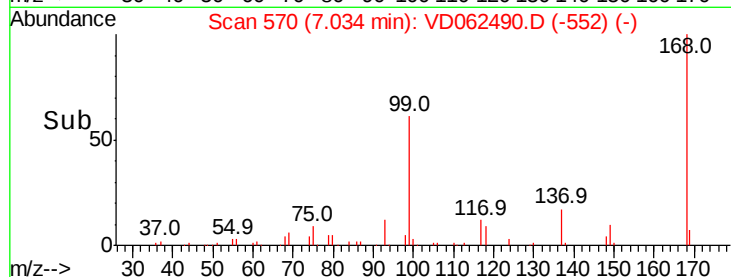
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#33

1,2-Dichloroethane-d4

Concen: 30.625 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD062490.D

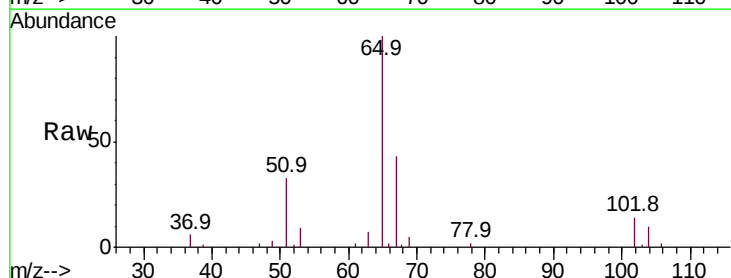
Acq: 21 May 2019 19:20

Tgt Ion: 65 Resp: 170626

Ion Ratio Lower Upper

65 100

67 42.8 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

60000

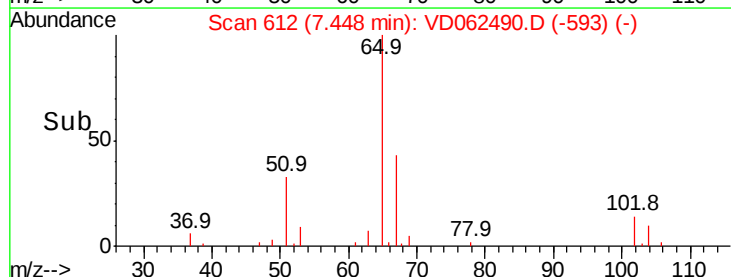
40000

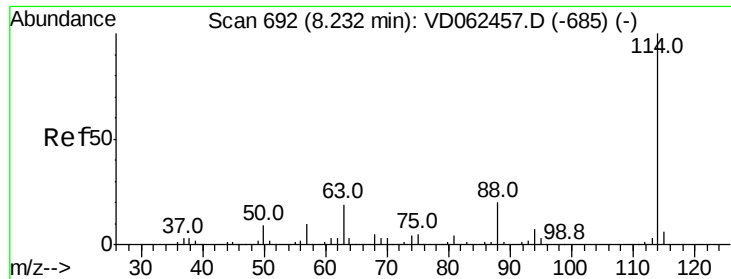
20000

0

7.30 7.40 7.50 7.60

Time-->

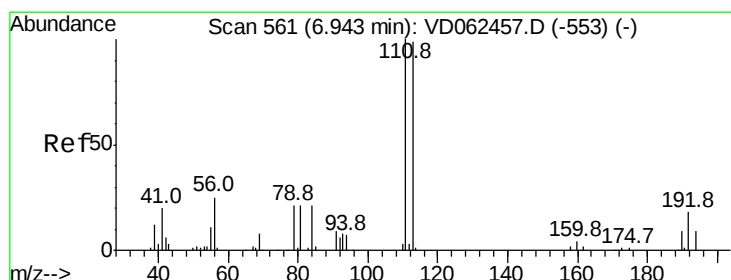
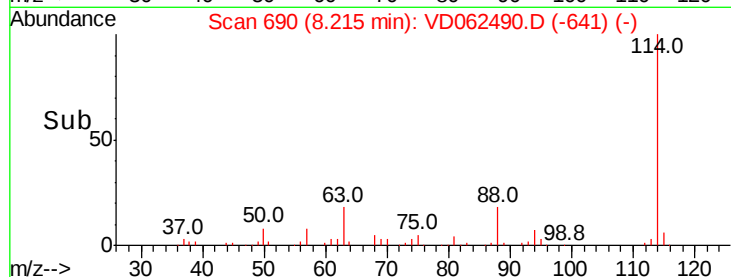
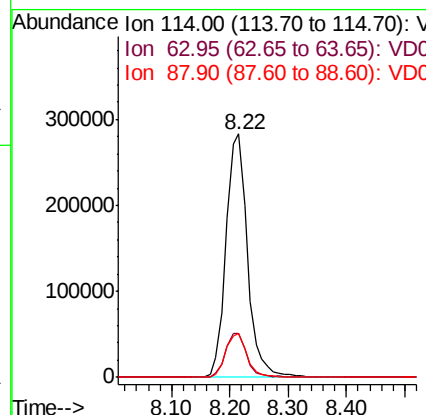
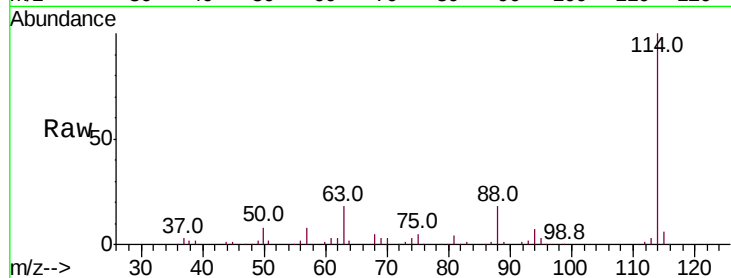




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 690  
 Delta R.T. -0.02 min  
 Lab File: VD062490.D  
 Acq: 21 May 2019 19:20

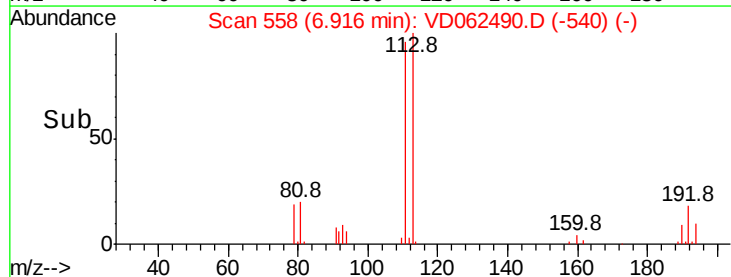
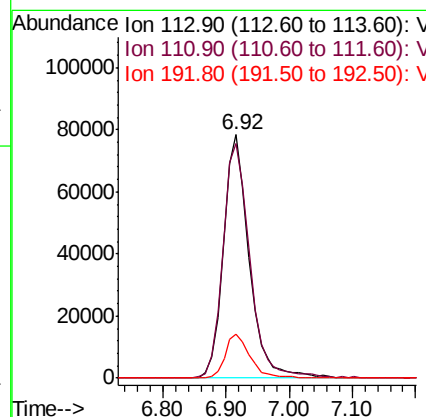
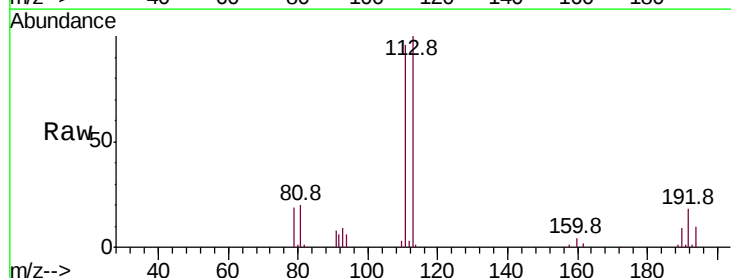
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUP-2A-G-11-052019

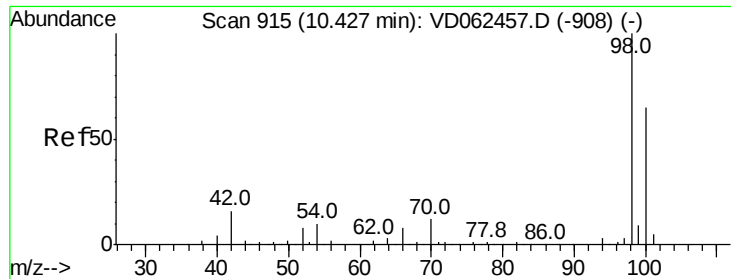
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 726351 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 18.1  | 0.0   | 32.4   |
| 88       | 18.2  | 0.0   | 33.6   |



#35  
 Dibromofluoromethane  
 Concen: 33.952 ug/l  
 RT: 6.92 min Scan# 558  
 Delta R.T. -0.03 min  
 Lab File: VD062490.D  
 Acq: 21 May 2019 19:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 222473 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 96.3  | 78.5  | 117.7  |
| 192      | 17.8  | 13.0  | 19.4   |





#50

Toluene-d8

Concen: 30.647 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.03 min

Lab File: VD062490.D

Acq: 21 May 2019 19:20

Instrument :

MSVOA\_D

ClientSampleId :

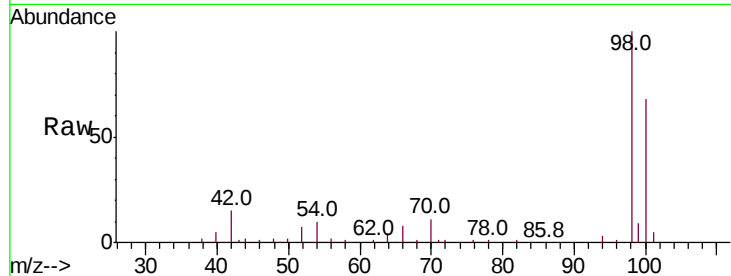
SUP-2A-G-11-052019

Tot Ion: 98 Resp: 439470

Ion Ratio Lower Upper

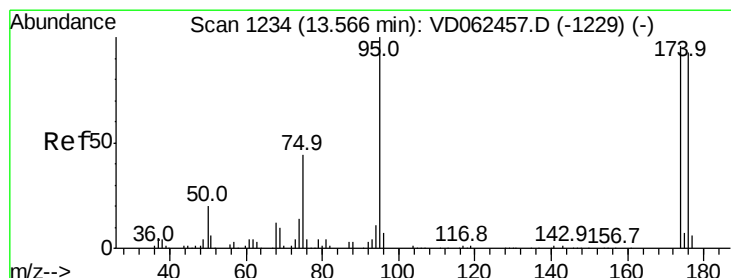
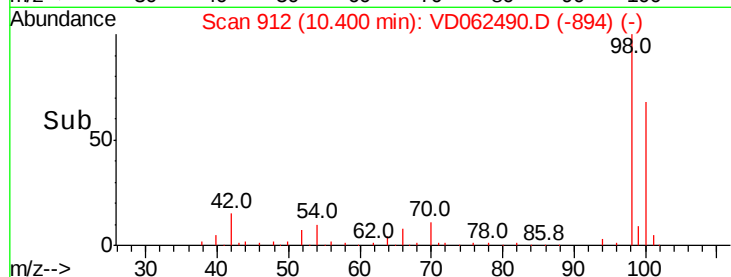
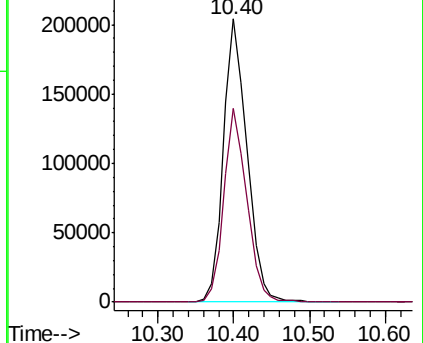
98 100

100 68.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: 31.351 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062490.D

Acq: 21 May 2019 19:20

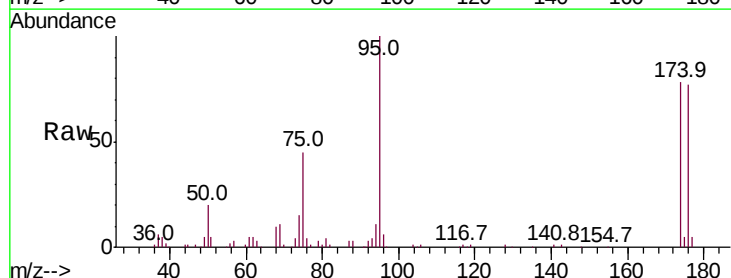
Tgt Ion: 95 Resp: 196653

Ion Ratio Lower Upper

95 100

174 77.5 0.0 181.8

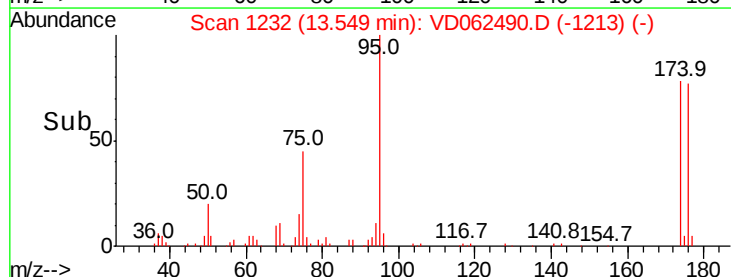
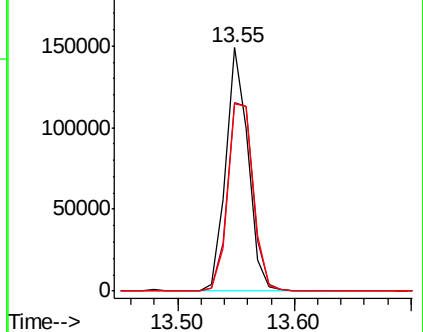
176 76.7 0.0 174.4

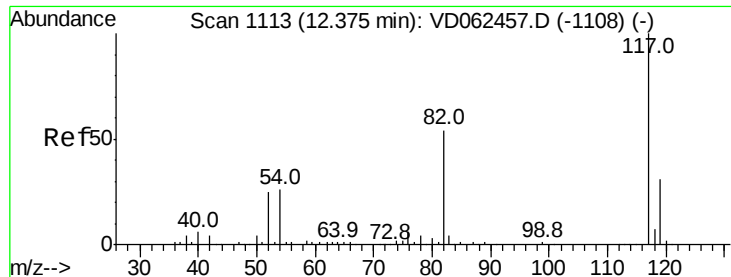


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

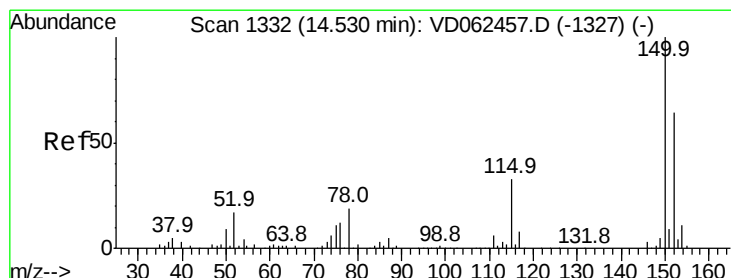
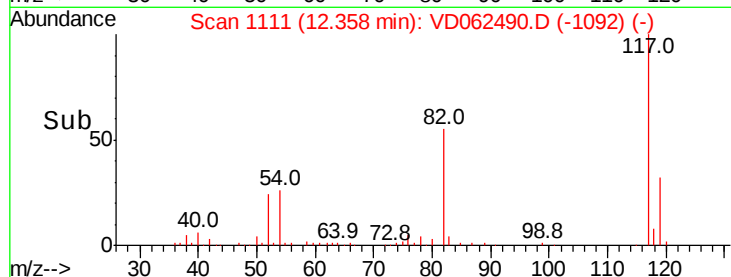
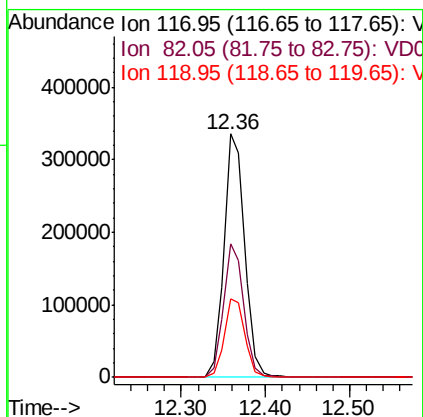
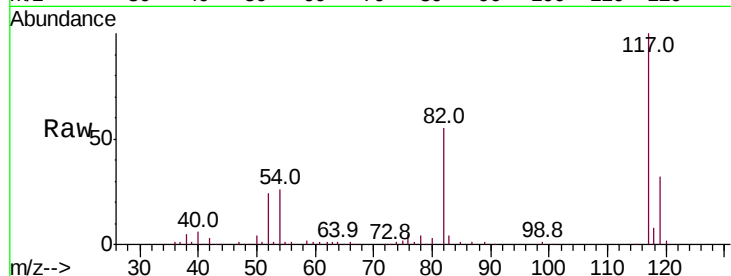




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. -0.02 min  
Lab File: VD062490.D  
Acq: 21 May 2019 19:20

Instrument :  
MSVOA\_D  
ClientSampleId :  
SUP-2A-G-11-052019

Tot Ion:117 Resp: 569652  
Ion Ratio Lower Upper  
117 100  
82 54.9 36.2 54.2#  
119 32.1 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. -0.02 min  
Lab File: VD062490.D  
Acq: 21 May 2019 19:20

Tgt Ion:152 Resp: 306067  
Ion Ratio Lower Upper  
152 100  
115 60.8 30.9 92.7  
150 153.0 0.0 314.8

