

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062019\  
 Data File : VD062799.D  
 Acq On : 20 Jun 2019 17:37  
 Operator : VA/AP  
 Sample : K3159-07  
 Misc : 6.92g/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-02-061919-B

Quant Time: Jun 21 07:19:47 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      | 7.07  | 168  | 596813   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.25  | 114  | 786033   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 567478   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 221308   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.48  | 65   | 365165   | 56.29 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 112.58% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 383435   | 57.85 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 115.70% |          |
| 50) Toluene-d8              | 10.44 | 98   | 674550   | 46.76 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 93.52%  |          |
| 62) 4-Bromofluorobenzene    | 13.57 | 95   | 278209   | 42.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.82%  |          |

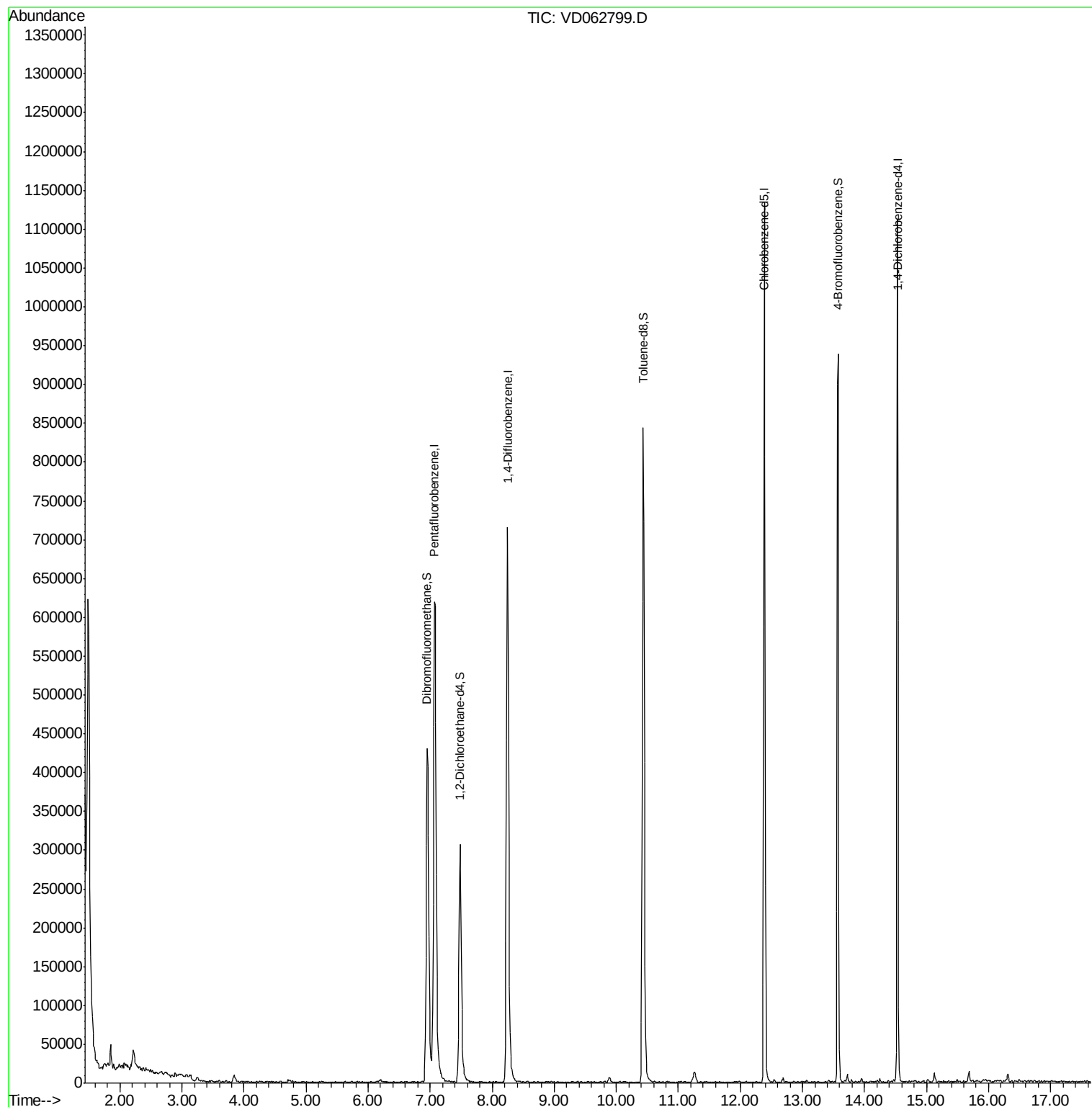
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

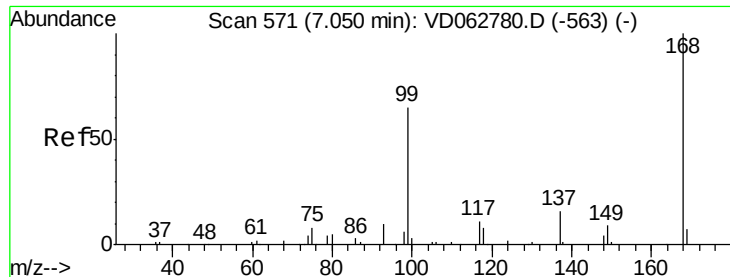
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.07 min Scan# 573

Delta R.T. 0.02 min

Lab File: VD062799.D

Acq: 20 Jun 2019 17:37

Instrument :

MSVOA\_D

ClientSampleId :

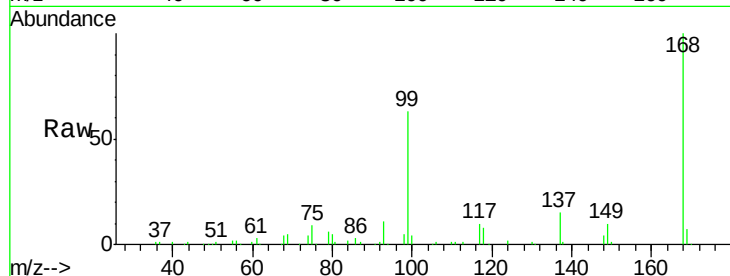
OR-02-061919-B

Tot Ion:168 Resp: 596813

Ion Ratio Lower Upper

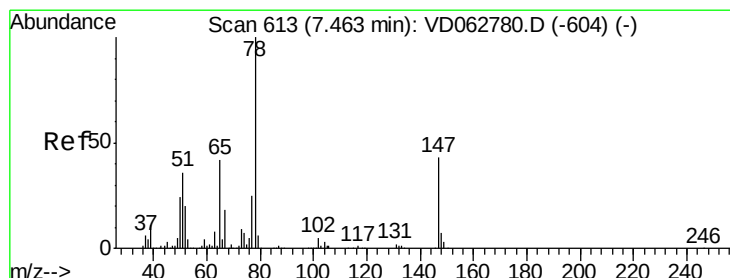
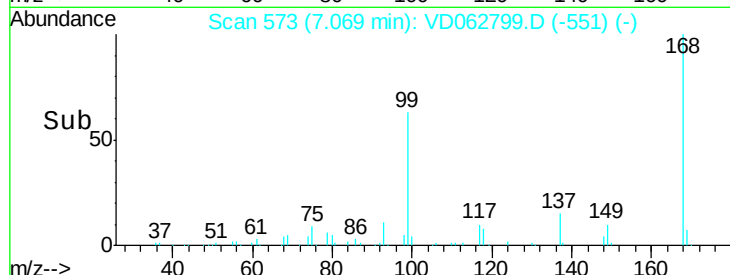
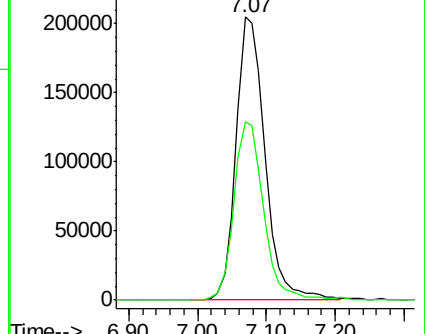
168 100

99 63.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 56.289 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.02 min

Lab File: VD062799.D

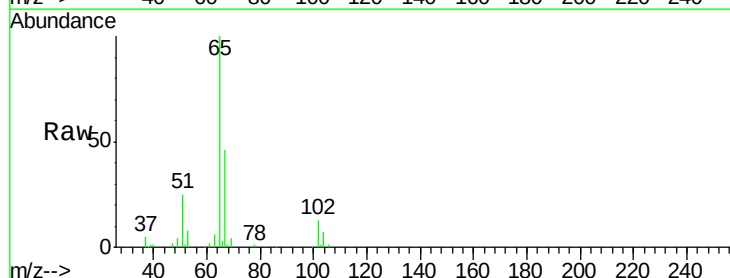
Acq: 20 Jun 2019 17:37

Tgt Ion: 65 Resp: 365165

Ion Ratio Lower Upper

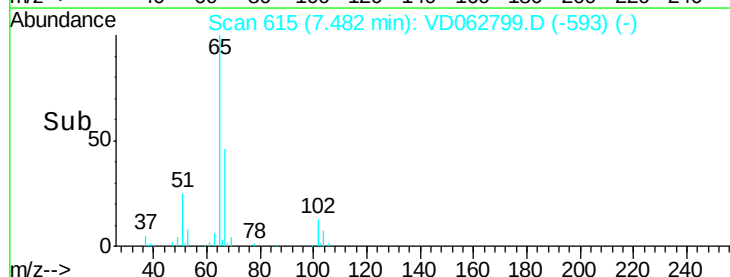
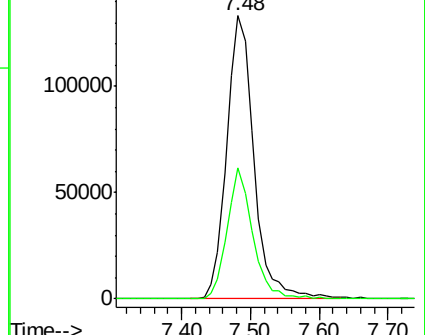
65 100

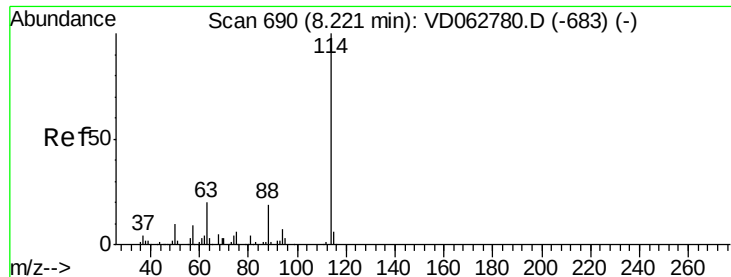
67 46.1 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.25 min Scan# 693

Delta R.T. 0.03 min

Lab File: VD062799.D

Acq: 20 Jun 2019 17:37

Instrument :

MSVOA\_D

ClientSampleId :

OR-02-061919-B

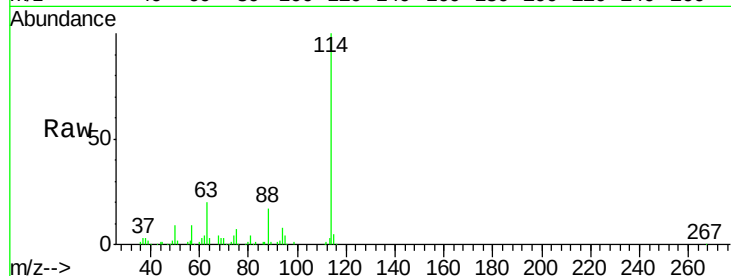
Tot Ion:114 Resp: 786033

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

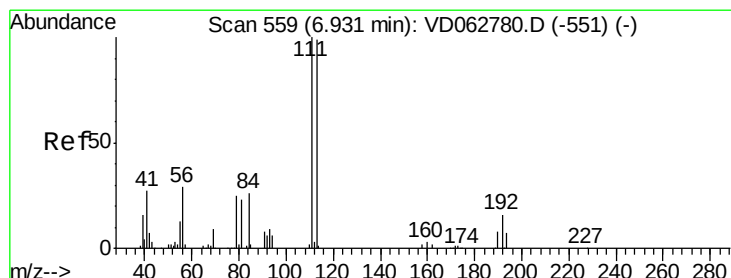
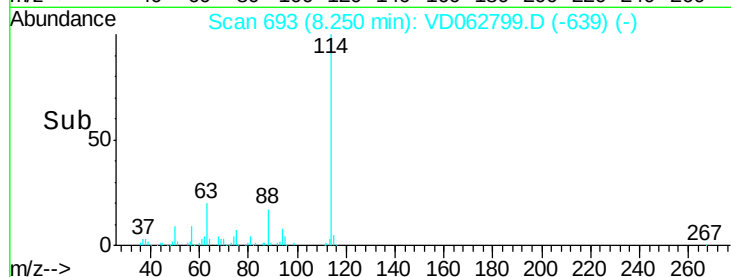
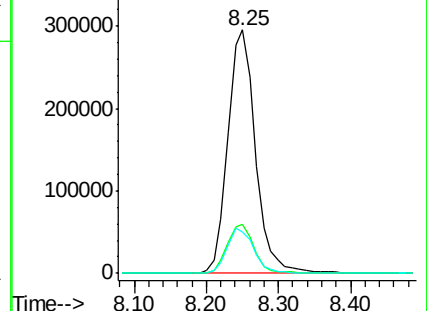
88 17.0 0.0 38.8



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: 57.853 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.02 min

Lab File: VD062799.D

Acq: 20 Jun 2019 17:37

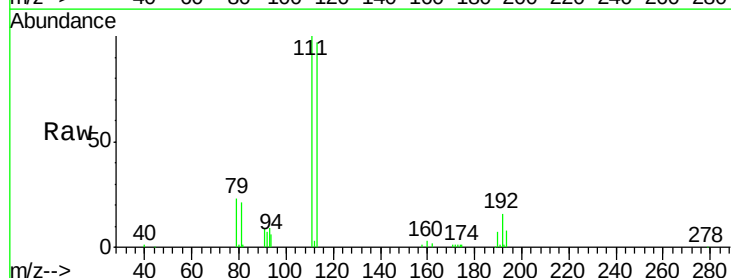
Tgt Ion:113 Resp: 383435

Ion Ratio Lower Upper

113 100

111 102.9 81.2 121.8

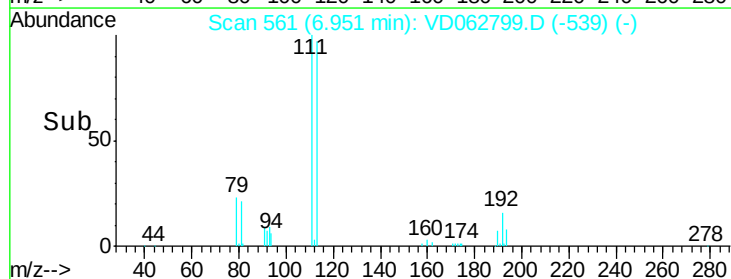
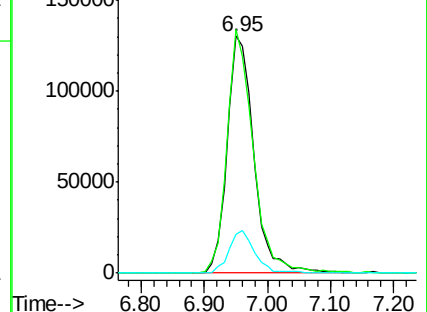
192 16.4 12.9 19.3

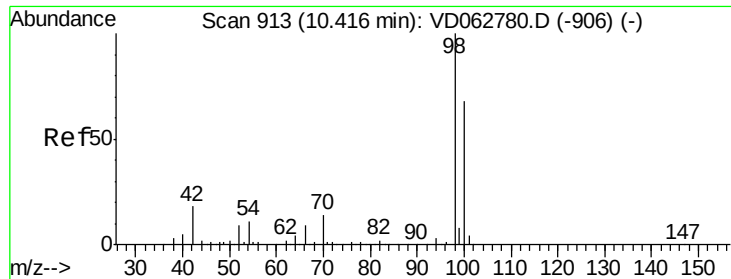


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

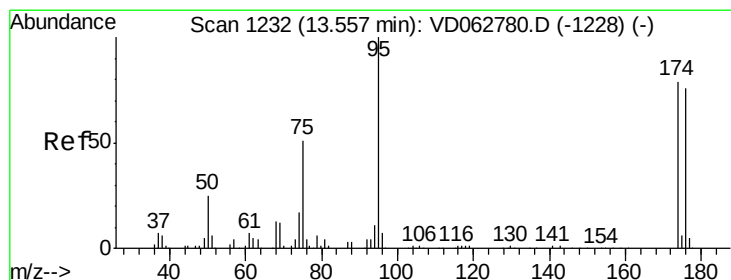
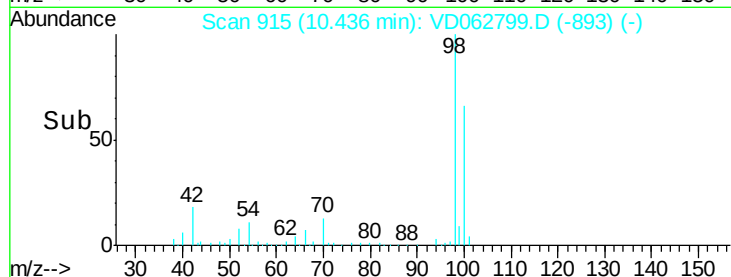
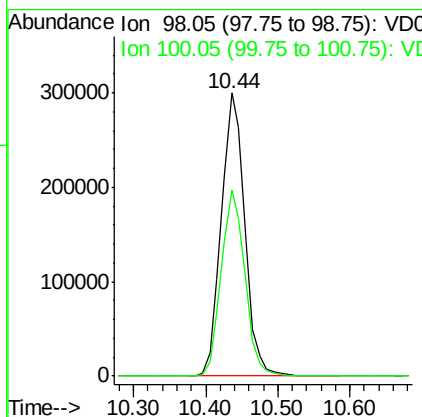
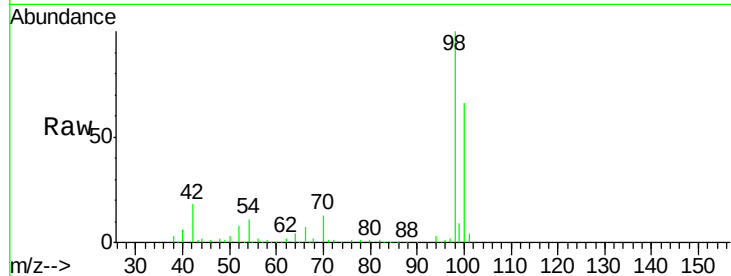




#50  
Toluene-d8  
Concen: 46.762 ug/l  
RT: 10.44 min Scan# 915  
Delta R.T. 0.02 min  
Lab File: VD062799.D  
Acq: 20 Jun 2019 17:37

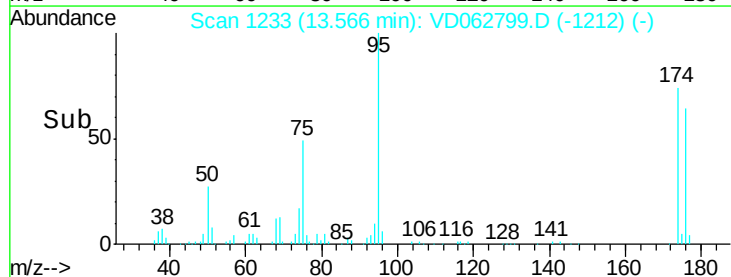
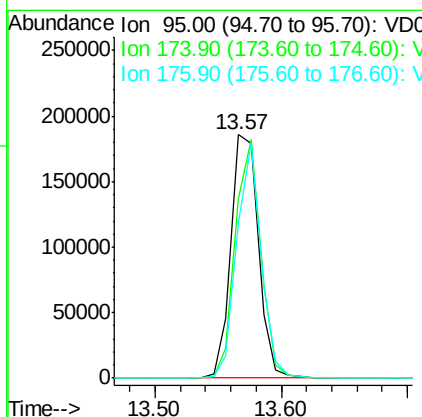
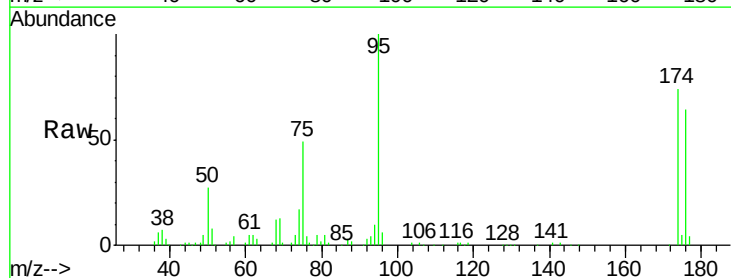
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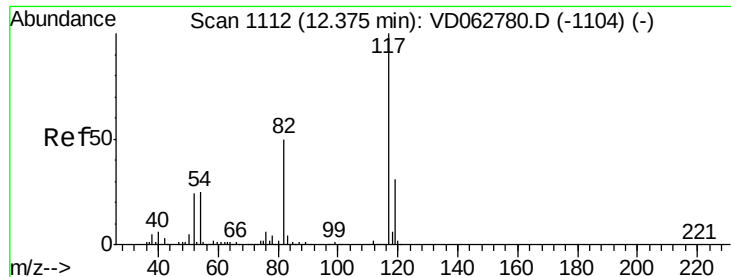
Tot Ion: 98 Resp: 674550  
Ion Ratio Lower Upper  
98 100  
100 65.6 54.7 82.1



#62  
4-Bromofluorobenzene  
Concen: 42.415 ug/l  
RT: 13.57 min Scan# 1233  
Delta R.T. 0.01 min  
Lab File: VD062799.D  
Acq: 20 Jun 2019 17:37

Tgt Ion: 95 Resp: 278209  
Ion Ratio Lower Upper  
95 100  
174 73.9 0.0 158.0  
176 63.8 0.0 151.6

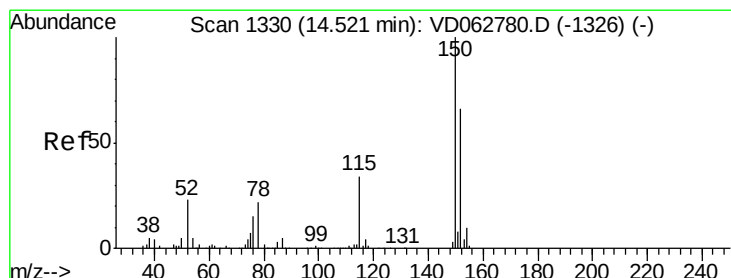
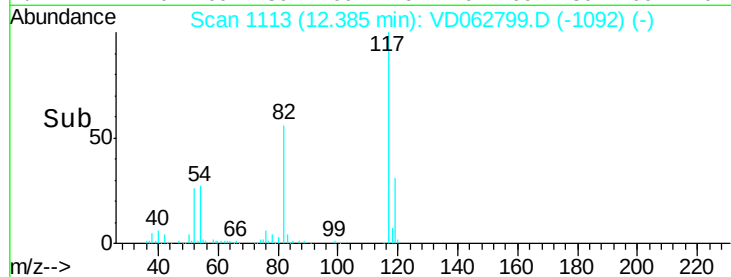
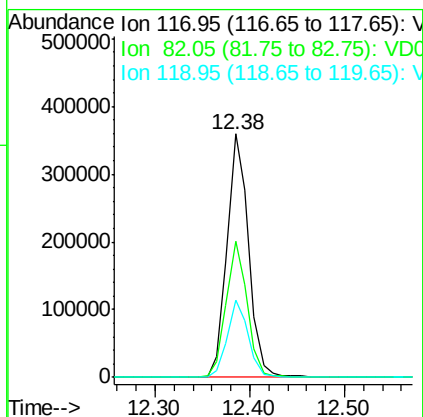
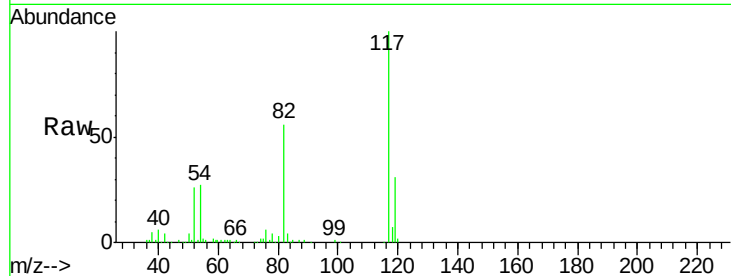




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.01 min  
Lab File: VD062799.D  
Acq: 20 Jun 2019 17:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-061919-B

Tot Ion:117 Resp: 567478  
Ion Ratio Lower Upper  
117 100  
82 56.1 40.4 60.6  
119 31.5 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: VD062799.D  
Acq: 20 Jun 2019 17:37

Tgt Ion:152 Resp: 221308  
Ion Ratio Lower Upper  
152 100  
115 59.5 29.2 87.6  
150 165.5 0.0 305.8

