

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121719\  
 Data File : VD064554.D  
 Acq On : 17 Dec 2019 19:29  
 Operator : VA/SY  
 Sample : K6357-11  
 Misc : 5.16G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PF-F

Manual Integrations  
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 12/18/2019 1:00:58 PM

Quant Time: Dec 18 03:36:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.98  | 168  | 349733   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.87  | 114  | 532822   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.65 | 117  | 553011   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.58 | 152  | 290394   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 160912   | 50.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.66% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 170278   | 50.72 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.44% |          |
| 50) Toluene-d8              | 10.34 | 98   | 644558   | 50.97 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.94% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 243275   | 59.86 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 119.72% |          |
| Target Compounds            |       |      |          |       |         |          |
| 30) Chloroform              | 7.72  | 83   | 11076m   | 1.831 | ug/l    | Qvalue   |

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

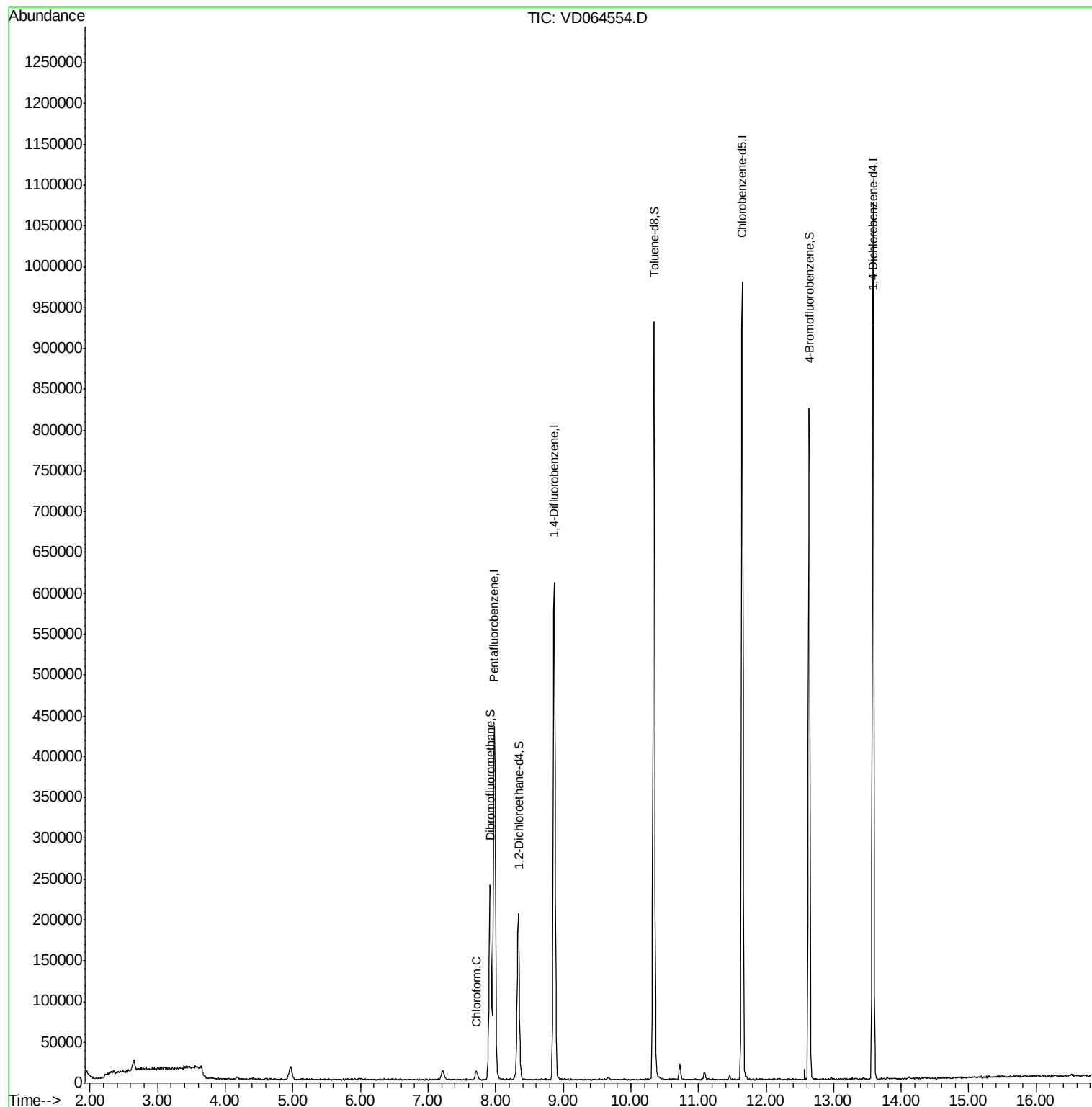
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD121719\  
Data File : VD064554.D  
Acq On : 17 Dec 2019 19:29  
Operator : VA/SY  
Sample : K6357-11  
Misc : 5.16G/5.00ml/MSVOA D/SOIL  
ALS Vial : 20 Sample Multiplier: 1

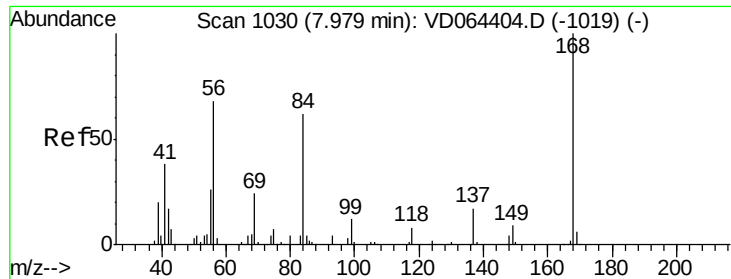
Instrument :  
MSVOA\_D  
ClientSampleId :  
PF-F

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Quant Time: Dec 18 03:36:03 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 29 07:18:03 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064554.D

Acq: 17 Dec 2019 19:29

Instrument :

MSVOA\_D

ClientSampleId :

PF-F

Tot Ion:168 Resp: 349733

Ion Ratio Lower Upper

168 100

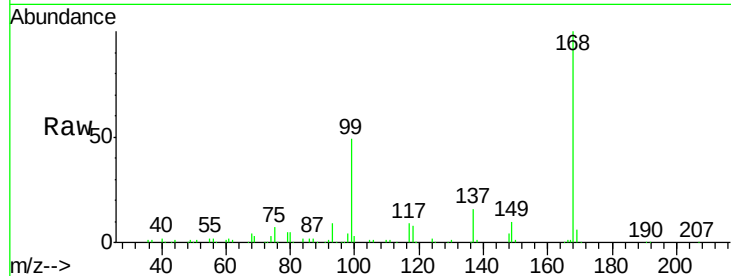
99 48.8 40.7 61.1

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

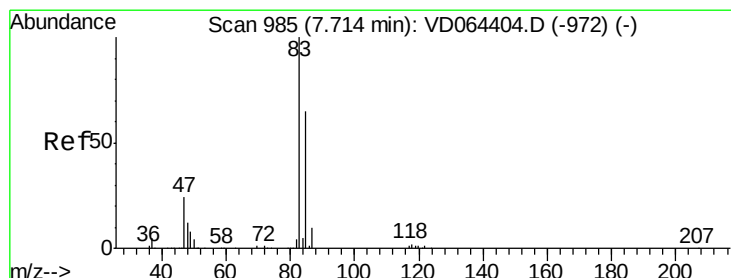
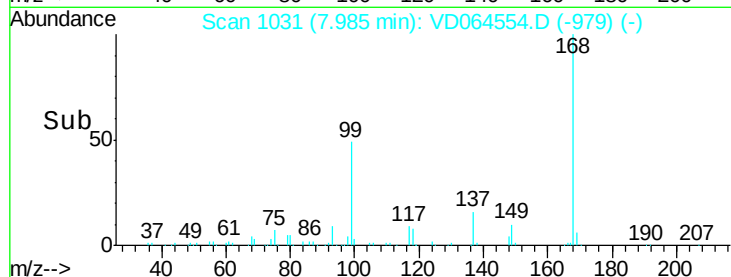
150000

100000

50000

0

Time-->



#30

Chloroform

Concen: 1.831 ug/l m

RT: 7.72 min Scan# 986

Delta R.T. 0.01 min

Lab File: VD064554.D

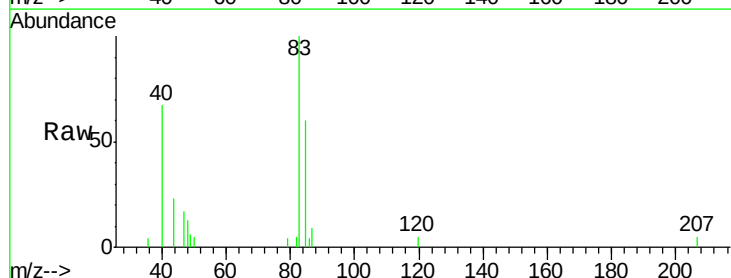
Acq: 17 Dec 2019 19:29

Tgt Ion: 83 Resp: 11076

Ion Ratio Lower Upper

83 100

85 59.6 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

7.72

5000

4000

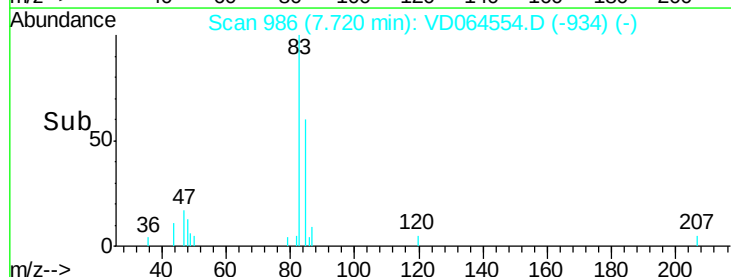
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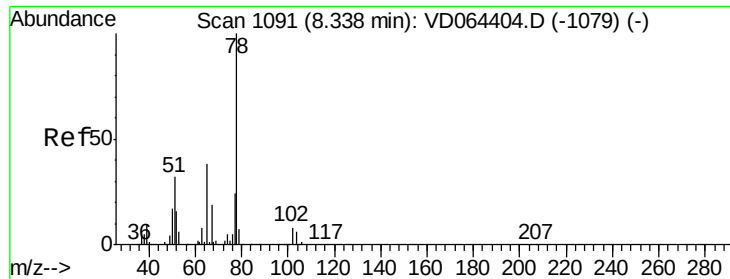
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1000

0

Time-->





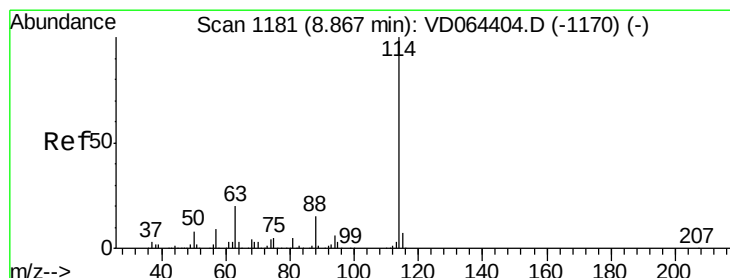
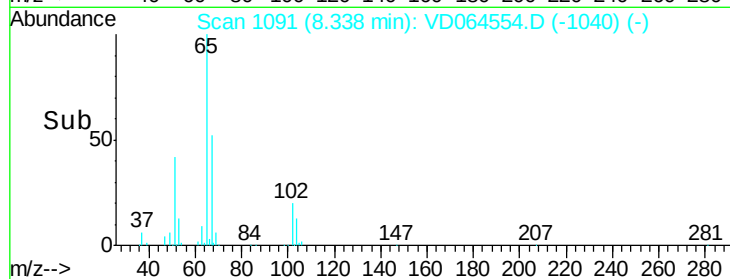
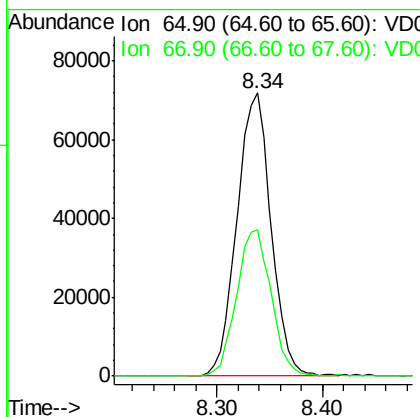
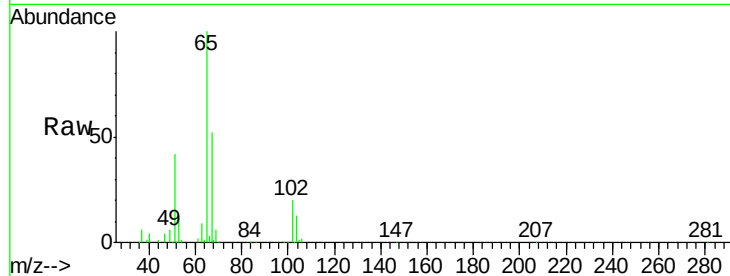
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.832 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.00 min  
 Lab File: VD064554.D  
 Acq: 17 Dec 2019 19:29

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PF-F

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 160912 |       |       |
| 67      | 52.3  | 0.0    | 102.0 |       |

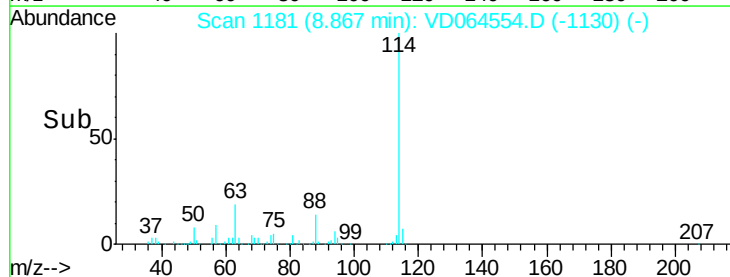
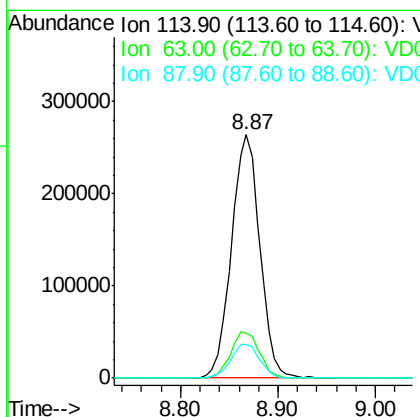
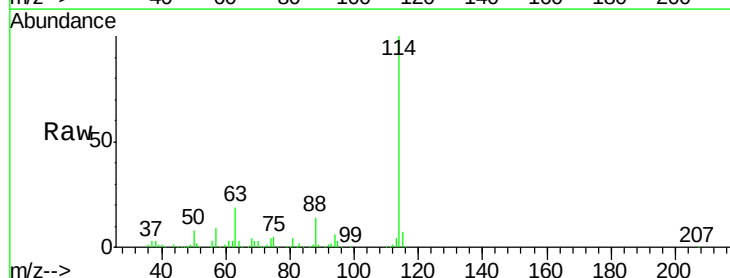
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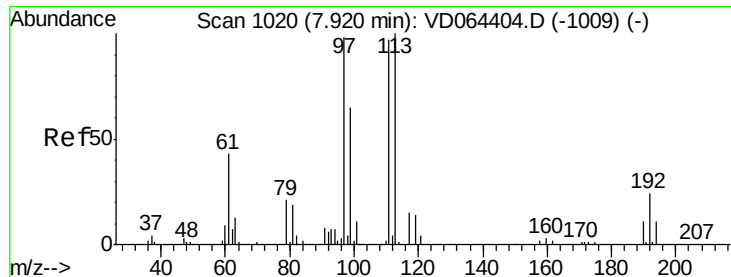
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064554.D  
 Acq: 17 Dec 2019 19:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 532822 |       |       |
| 63      | 18.7  | 0.0    | 40.0  |       |
| 88      | 13.9  | 0.0    | 29.2  |       |





#35

Dibromofluoromethane

Concen: 50.723 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064554.D

Acq: 17 Dec 2019 19:29

Instrument :

MSVOA\_D

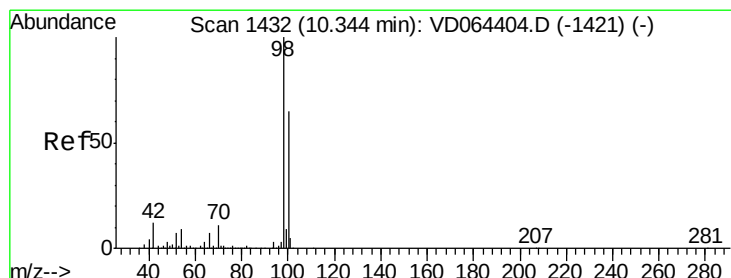
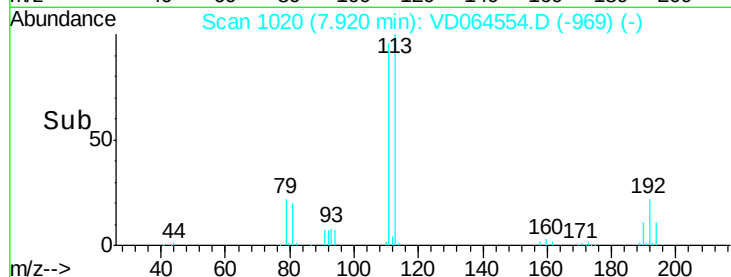
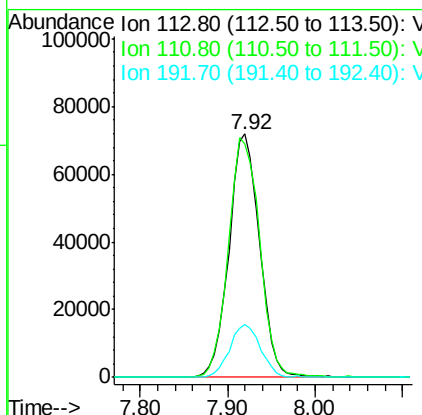
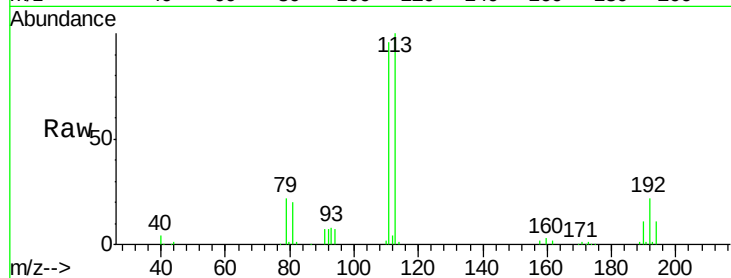
ClientSampled :

PF-F

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 170278 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.0 | 79.4  | 119.2  |
| 192       | 21.7  | 18.6  | 28.0   |

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#50

Toluene-d8

Concen: 50.971 ug/l

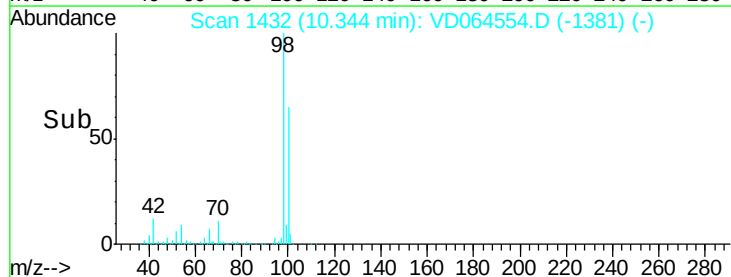
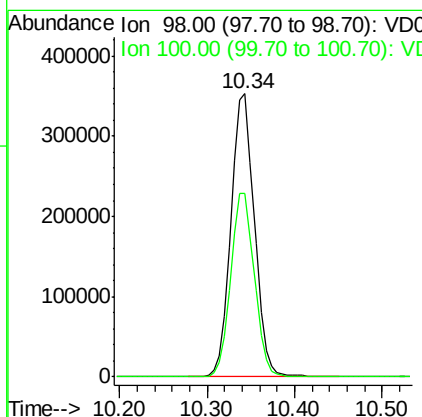
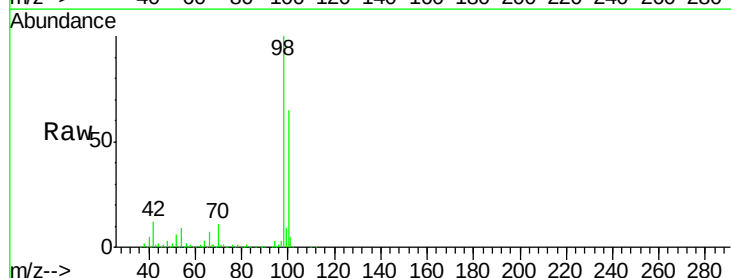
RT: 10.34 min Scan# 1432

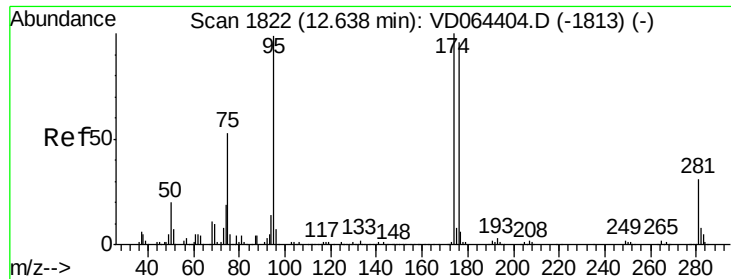
Delta R.T. 0.00 min

Lab File: VD064554.D

Acq: 17 Dec 2019 19:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 644558 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 65.4  | 52.6  | 79.0   |





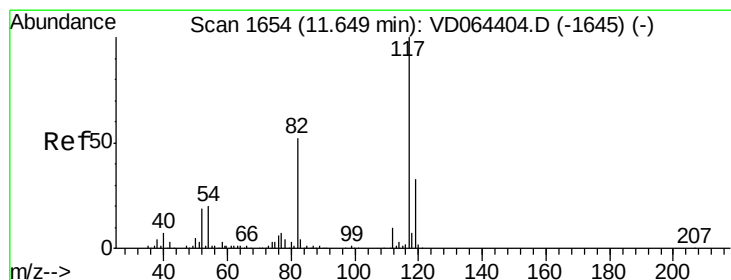
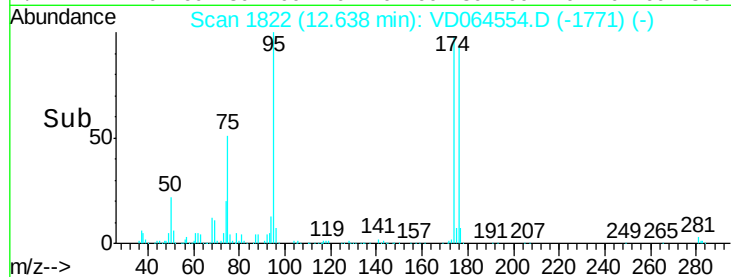
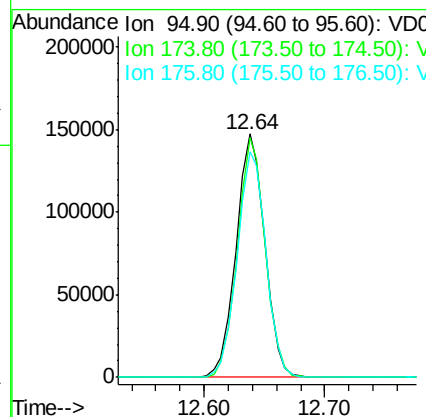
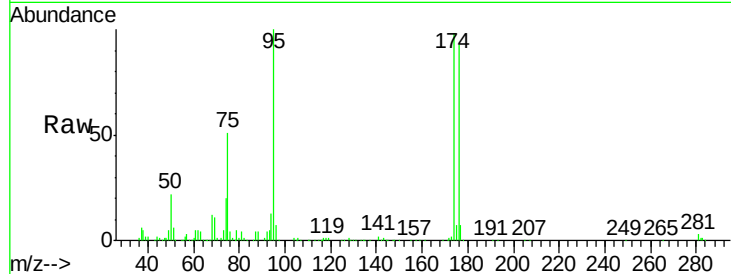
#62  
4-Bromofluorobenzene  
Concen: 59.862 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064554.D  
Acq: 17 Dec 2019 19:29

Instrument :  
MSVOA\_D  
ClientSampled :  
PF-F

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 243275 |       |       |
| 174     | 95.5  | 0.0    | 197.2 |       |
| 176     | 92.9  | 0.0    | 189.6 |       |

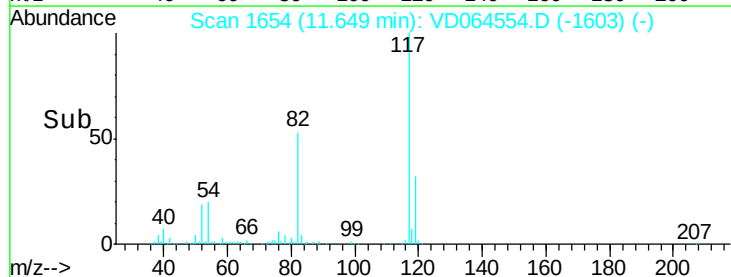
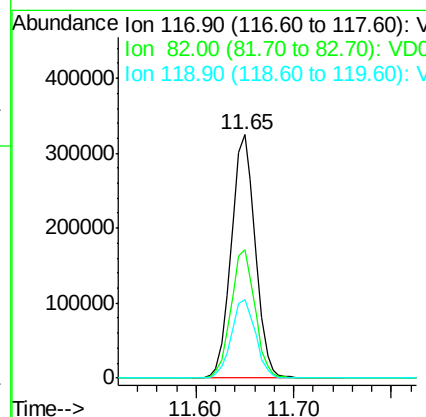
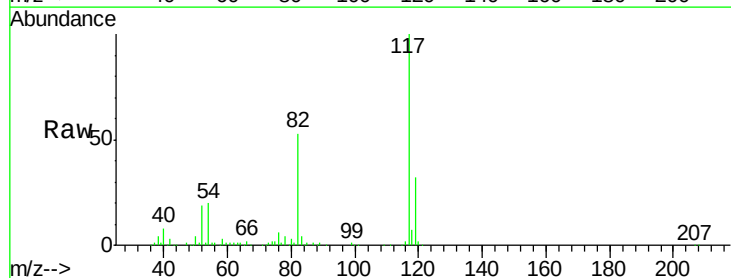
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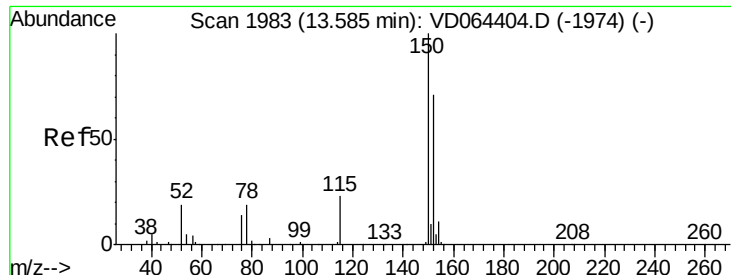
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#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064554.D  
Acq: 17 Dec 2019 19:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 553011 |       |       |
| 82      | 53.0  | 41.4   | 62.2  |       |
| 119     | 32.4  | 26.2   | 39.2  |       |





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.58 min Scan# 1983  
 Delta R.T. 0.00 min  
 Lab File: VD064554.D  
 Acq: 17 Dec 2019 19:29

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PF-F

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 290394 |       |       |
| 115     | 53.8  | 26.7   | 80.1  |       |
| 150     | 153.2 | 0.0    | 347.2 |       |

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