

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\  
 Data File : VF061045.D  
 Acq On : 17 Dec 2018 17:27  
 Operator : VA/AP  
 Sample : J6319-12RE  
 Misc : 4.51g/5mL/MSVOA-F/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 066\_SW-W-2RE

Manual Integrations  
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Quant Time: Dec 18 03:40:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 250224   | 50.00  | ug/l   | -0.02    |
| 34) 1,4-Difluorobenzene     | 5.61  | 114  | 430647   | 50.00  | ug/l   | -0.02    |
| 63) Chlorobenzene-d5        | 9.80  | 117  | 340592   | 50.00  | ug/l   | -0.01    |
| 72) 1,4-Dichlorobenzene-d4  | 12.57 | 152  | 167678   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.86  | 65   | 108023   | 36.65  | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 73.30% |          |
| 35) Dibromofluoromethane    | 4.13  | 113  | 123843   | 36.25  | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 72.50% |          |
| 50) Toluene-d8              | 7.57  | 98   | 293950   | 29.21  | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 58.42% |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 131708   | 28.80  | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 57.60% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 2.24  | 43   | 12341m   | 22.703 | ug/l   | Qvalue   |
| 20) Methylene Chloride      | 2.26  | 84   | 5366m    | 2.691  | ug/l   |          |

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

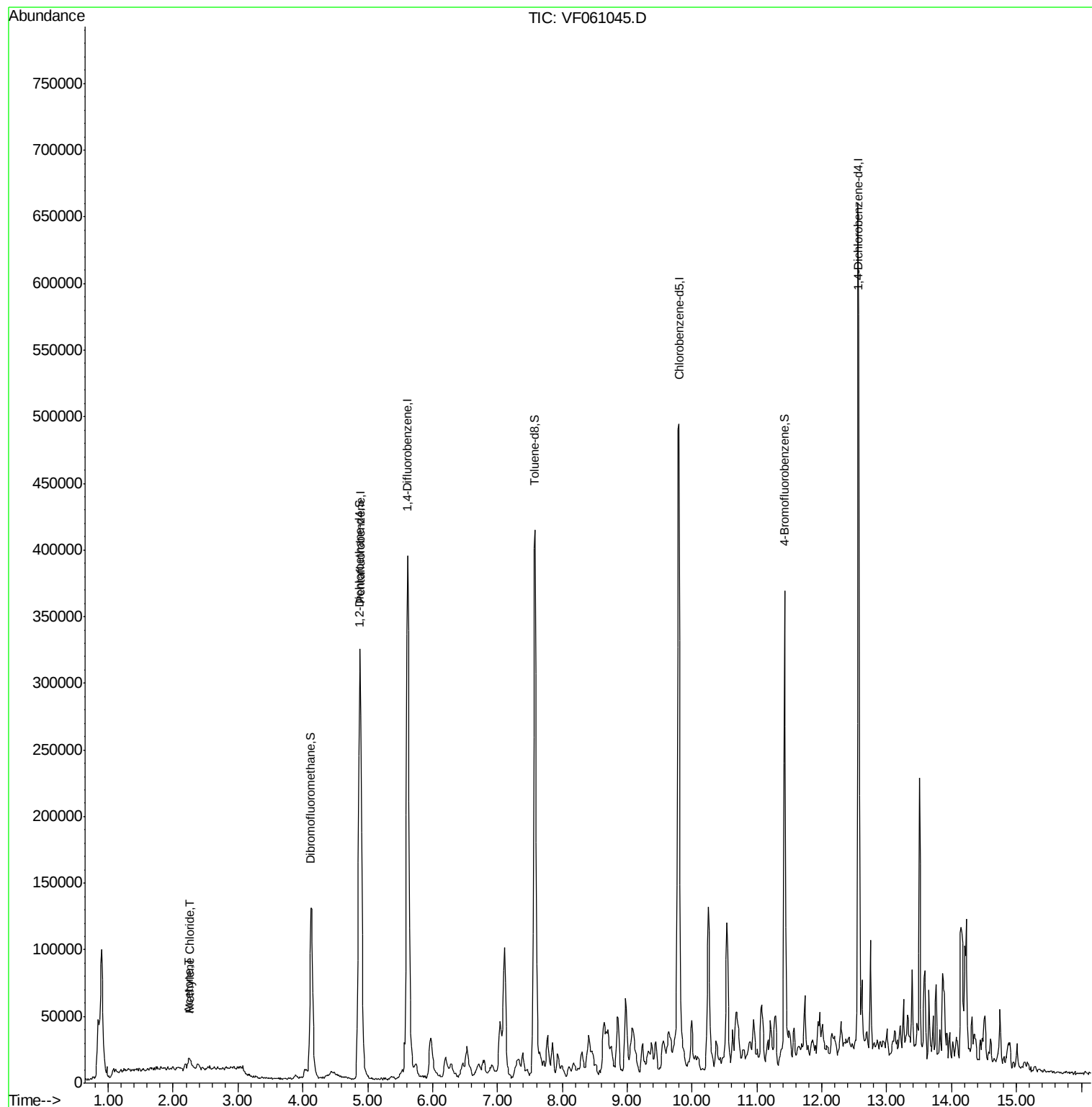
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121718\  
Data File : VF061045.D  
Acq On : 17 Dec 2018 17:27  
Operator : VA/AP  
Sample : J6319-12RE  
Misc : 4.51g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

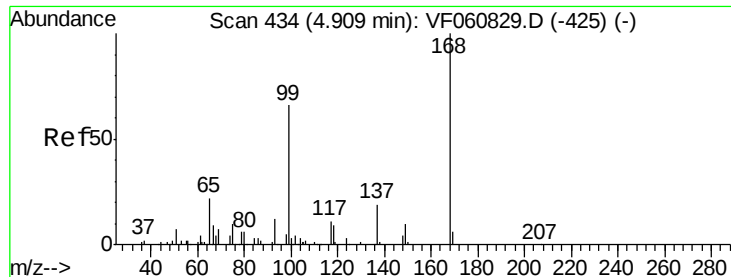
Instrument :  
MSVOA\_F  
ClientSampleId :  
066\_SW-W-2RE

Manual Integrations  
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Quant Time: Dec 18 03:40:47 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.02 min

Lab File: VF061045.D

Acq: 17 Dec 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

066\_SW-W-2RE

Tot Ion:168 Resp: 250224

Ion Ratio Lower Upper

168 100

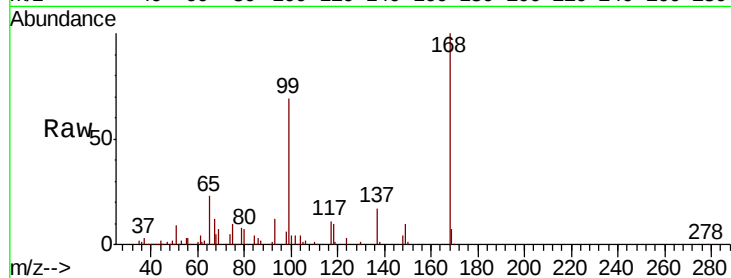
99 68.7 52.6 79.0

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

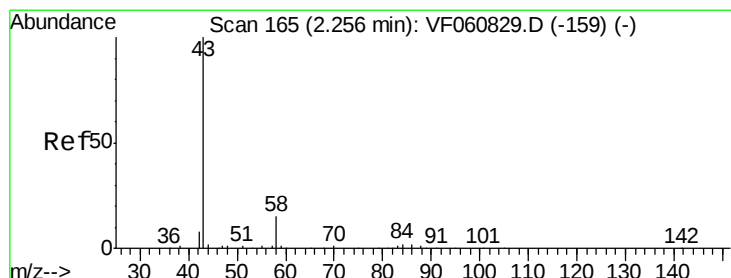
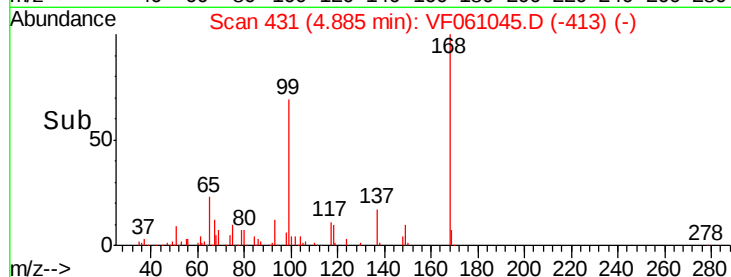
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#16

Acetone

Concen: 22.703 ug/l m

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061045.D

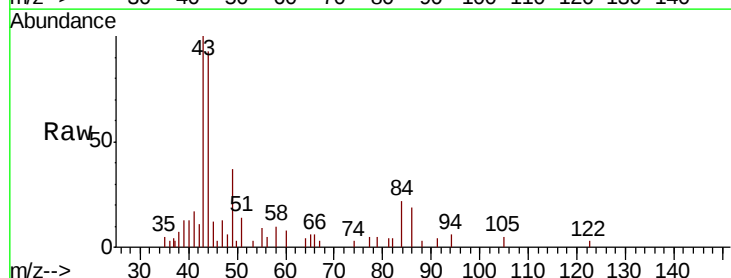
Acq: 17 Dec 2018 17:27

Tgt Ion: 43 Resp: 12341

Ion Ratio Lower Upper

43 100

58 9.8 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

4000

3000

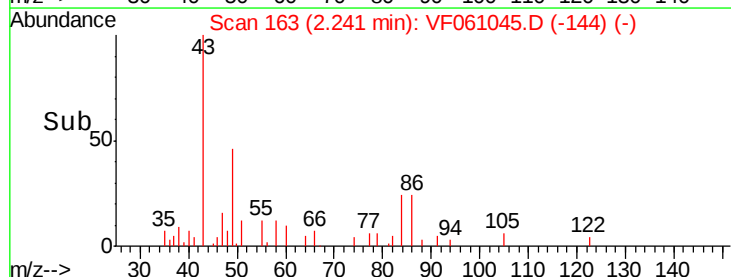
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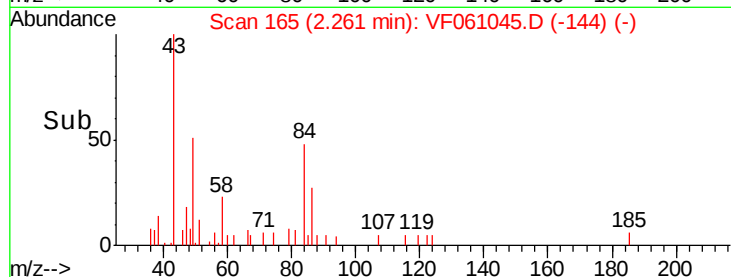
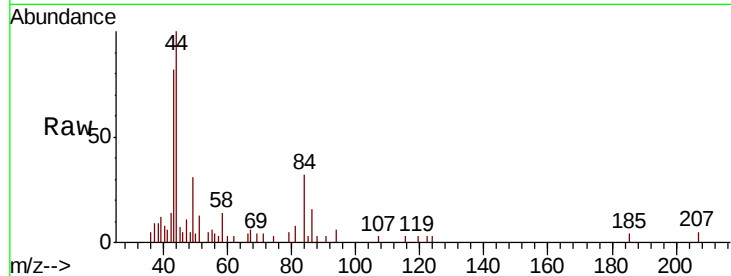
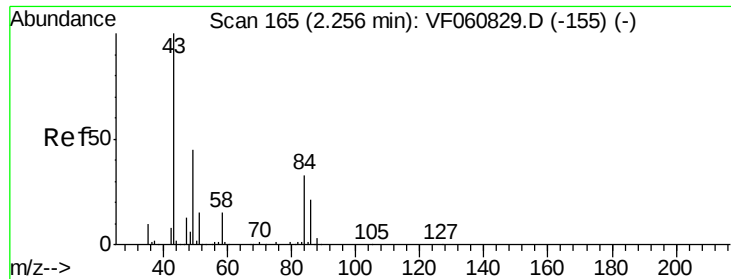
1000

0

2.15 2.20 2.25 2.30 2.35

Time-->





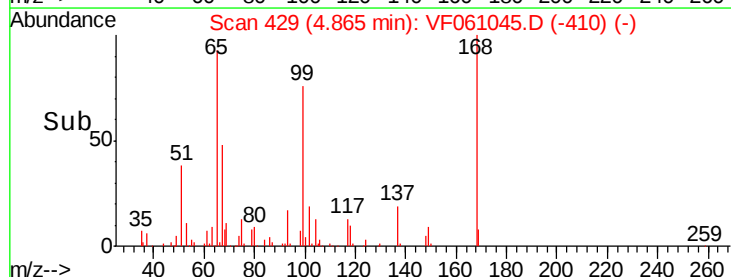
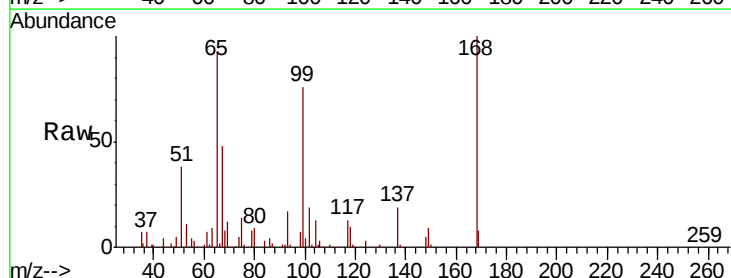
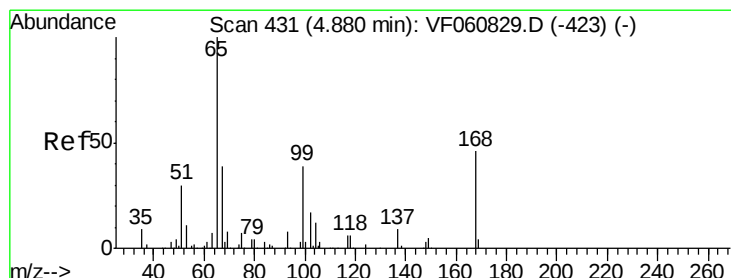
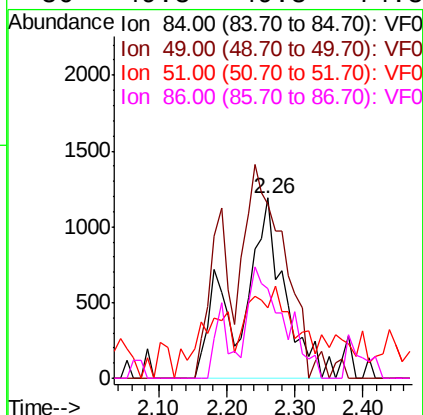
#20  
Methvlene Chloride  
Concen: 2.691 ug/l m  
RT: 2.26 min Scan# 165  
Delta R.T. 0.00 min  
Lab File: VF061045.D  
Acq: 17 Dec 2018 17:27

Tot Ion: 84 Resp: 5366  
Ion Ratio Lower Upper  
84 100  
49 96.6 111.3 166.9#  
51 39.2 38.0 57.0  
86 49.8 49.8 74.8#

Instrument :  
MSVOA\_F  
ClientSampleId :  
066\_SW-W-2RE

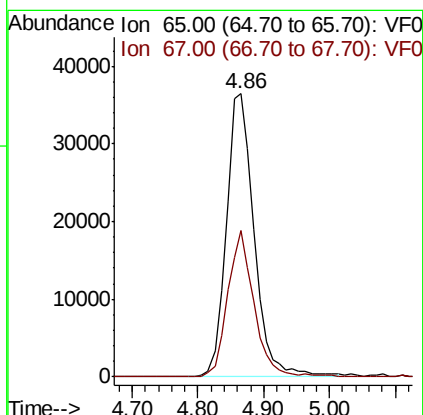
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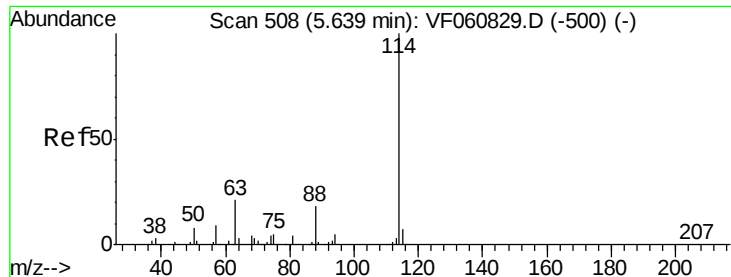
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#33  
1,2-Dichloroethane-d4  
Concen: 36.646 ug/l  
RT: 4.86 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: VF061045.D  
Acq: 17 Dec 2018 17:27

Tgt Ion: 65 Resp: 108023  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.02 min

Lab File: VF061045.D

Acq: 17 Dec 2018 17:27

Instrument :

MSVOA\_F

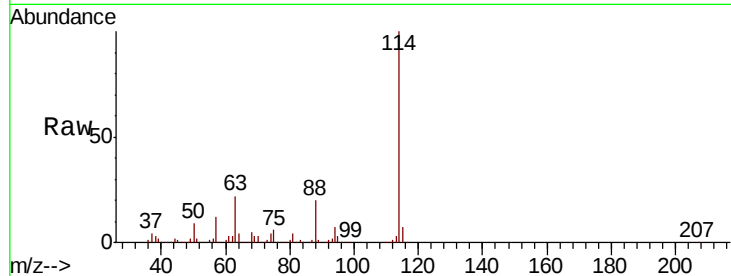
ClientSampleId :

066\_SW-W-2RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 430647 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 21.5  | 0.0   | 41.6   |
| 88        | 19.6  | 0.0   | 36.6   |

Manual Integrations  
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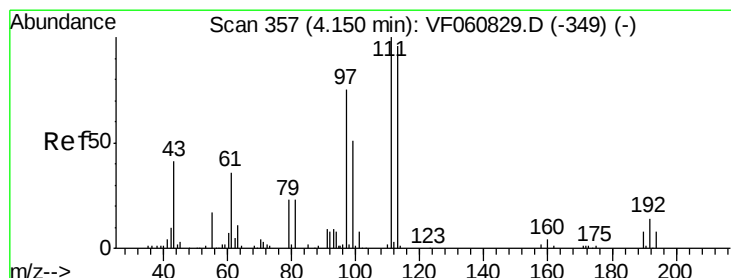
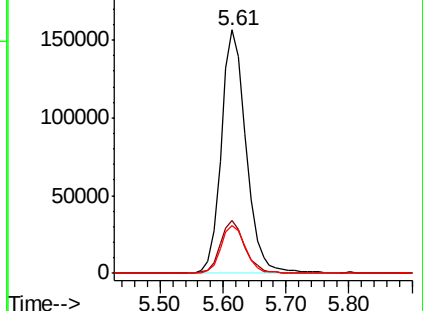
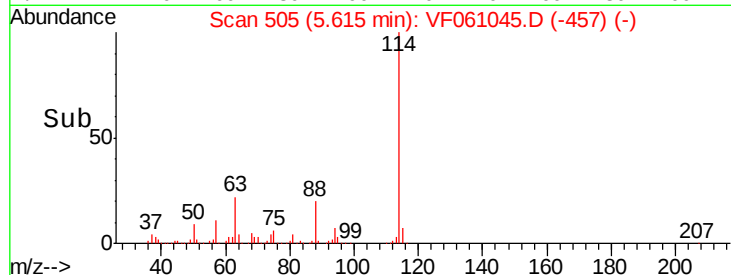
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 36.249 ug/l

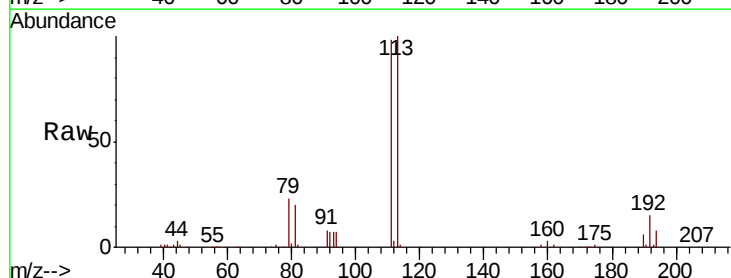
RT: 4.13 min Scan# 354

Delta R.T. -0.02 min

Lab File: VF061045.D

Acq: 17 Dec 2018 17:27

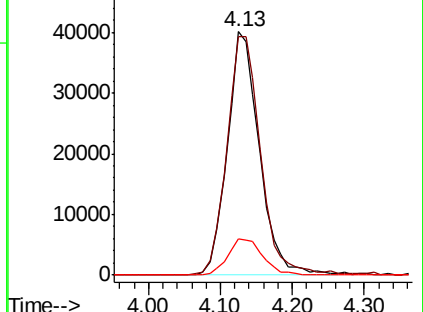
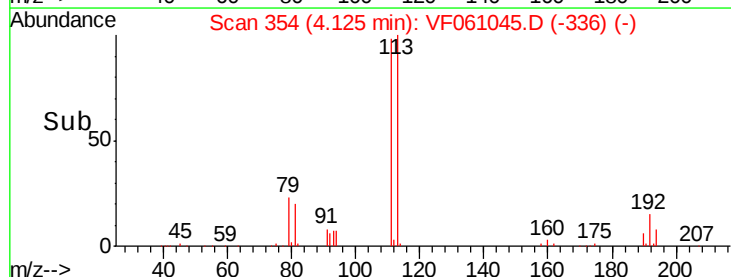
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 123843 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 97.8  | 83.0  | 124.6  |
| 192       | 14.8  | 12.3  | 18.5   |

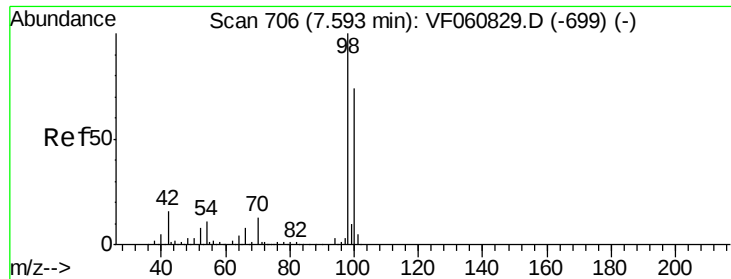


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





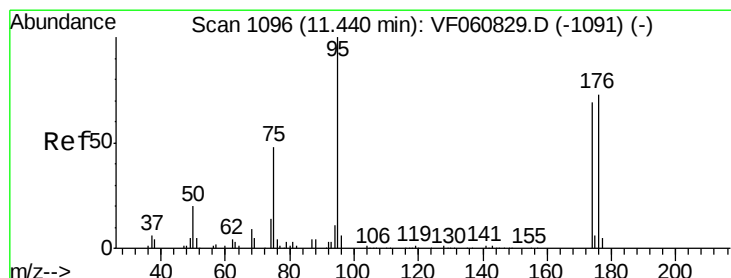
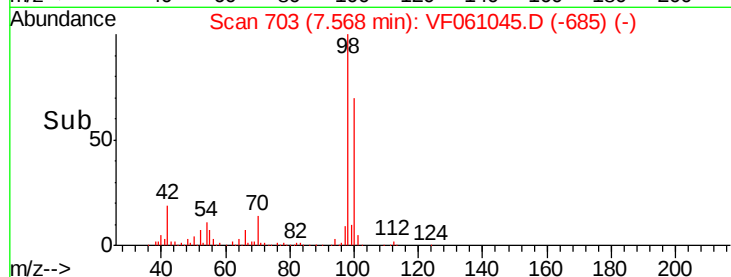
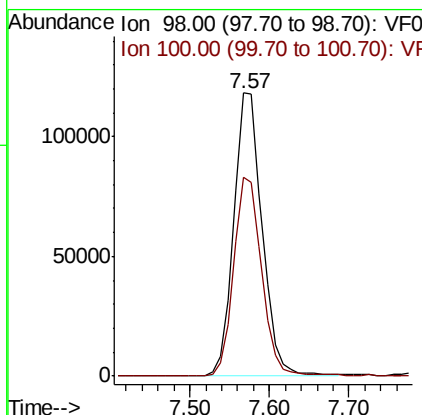
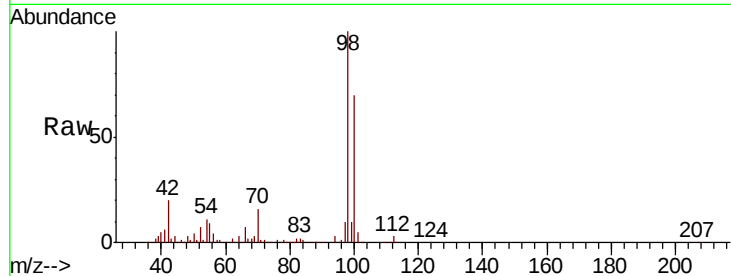
#50  
Toluene-d8  
Concen: 29.209 ug/l  
RT: 7.57 min Scan# 703  
Delta R.T. -0.02 min  
Lab File: VF061045.D  
Acq: 17 Dec 2018 17:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
066\_SW-W-2RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 70.4  | 59.3  | 88.9  |

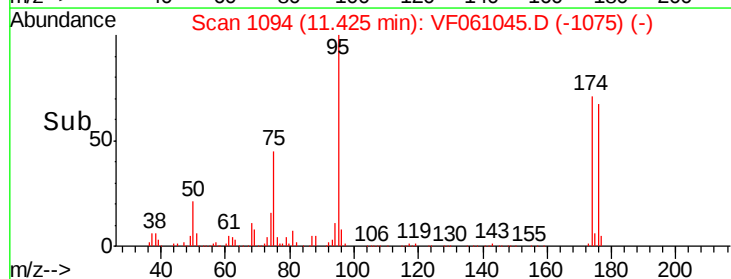
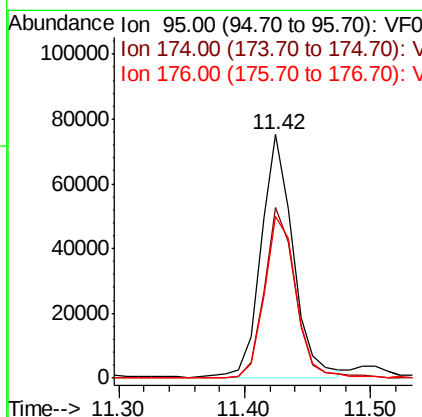
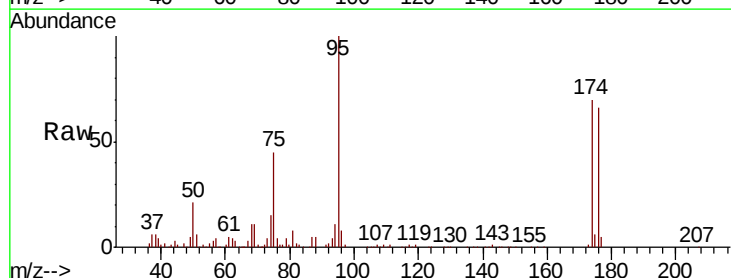
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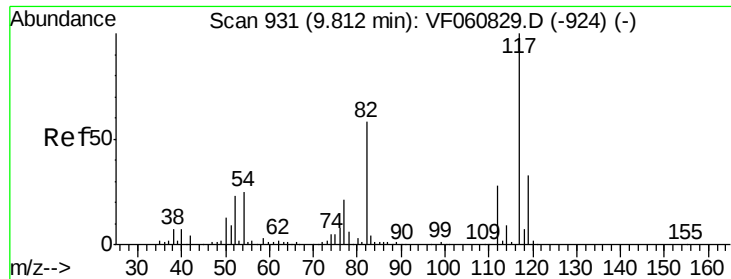
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#62  
4-Bromofluorobenzene  
Concen: 28.796 ug/l  
RT: 11.42 min Scan# 1094  
Delta R.T. -0.01 min  
Lab File: VF061045.D  
Acq: 17 Dec 2018 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 70.2  | 0.0   | 138.2 |
| 176     | 66.3  | 0.0   | 146.2 |





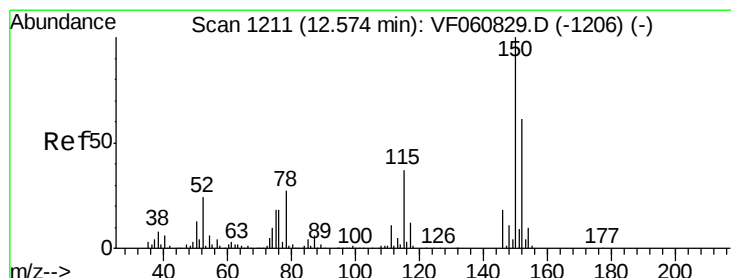
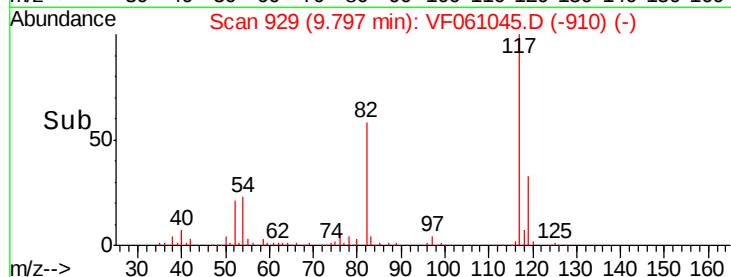
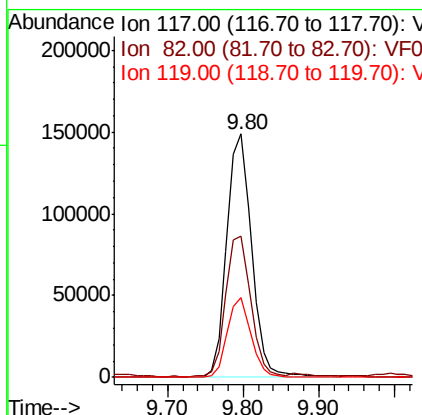
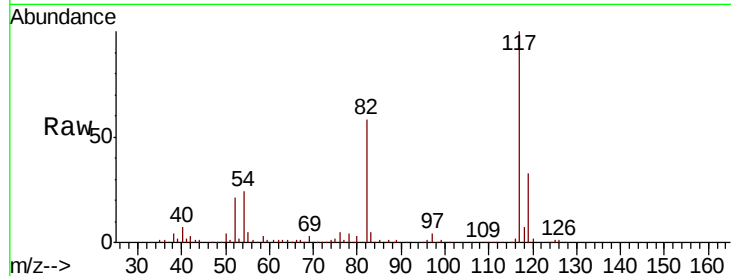
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.80 min Scan# 929  
Delta R.T. -0.01 min  
Lab File: VF061045.D  
Acq: 17 Dec 2018 17:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
066\_SW-W-2RE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 340592 |       |       |
| 82      | 58.1  | 46.6   | 69.8  |       |
| 119     | 32.7  | 26.4   | 39.6  |       |

Manual Integrations  
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.57 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: VF061045.D  
Acq: 17 Dec 2018 17:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 167678 |       |       |
| 115     | 54.0  | 30.1   | 90.5  |       |
| 150     | 151.6 | 0.0    | 327.6 |       |

