

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\  
 Data File : VF062101.D  
 Acq On : 23 Mar 2019 2:29  
 Operator : VA/AP  
 Sample : K2040-07  
 Misc : 4.52g/5mL/MSVOA-F/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S4B(10)

Manual Integrations  
 APPROVED

MMDadoda  
 3/27/2019 11:57:27 AM

Quant Time: Mar 23 06:57:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 01:16:37 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 4.89  | 168  | 240118   | 50.00  | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene     | 5.61  | 114  | 390485   | 50.00  | ug/l   | -0.01    |
| 63) Chlorobenzene-d5        | 9.79  | 117  | 323820   | 50.00  | ug/l   | -0.01    |
| 72) 1,4-Dichlorobenzene-d4  | 12.56 | 152  | 173048   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.86  | 65   | 80557    | 45.10  | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.20% |          |
| 35) Dibromofluoromethane    | 4.13  | 113  | 100577   | 38.08  | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 76.16% |          |
| 50) Toluene-d8              | 7.58  | 98   | 324590   | 41.17  | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 82.34% |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 128990   | 42.38  | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 84.76% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 2.25  | 43   | 19823    | 52.735 | ug/l   | 92       |
| 20) Methylene Chloride      | 2.19  | 84   | 23012m   | 7.448  | ug/l   |          |

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

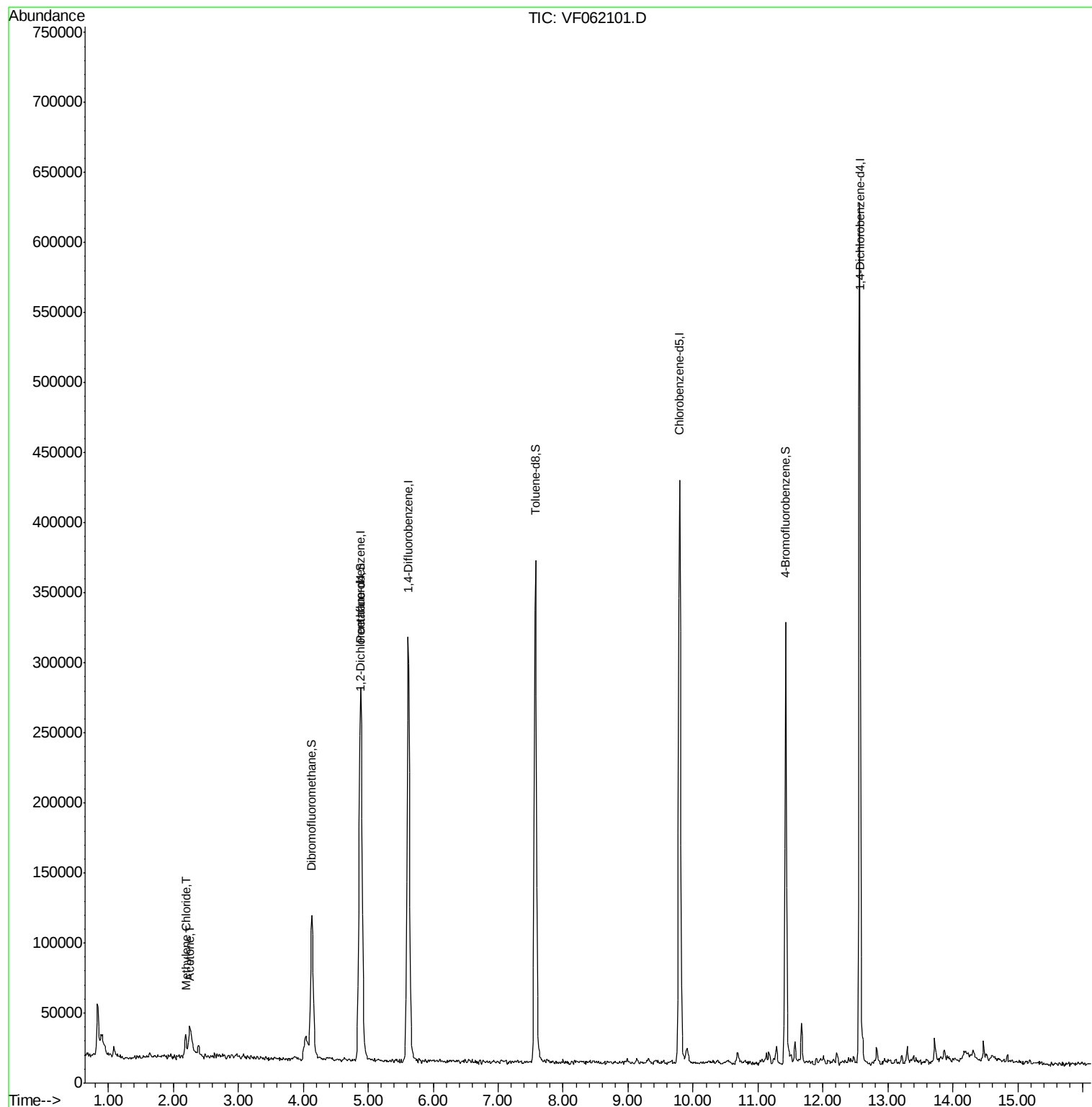
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032219\  
Data File : VF062101.D  
Acq On : 23 Mar 2019 2:29  
Operator : VA/AP  
Sample : K2040-07  
Misc : 4.52g/5mL/MSVOA-F/SOIL  
ALS Vial : 34 Sample Multiplier: 1

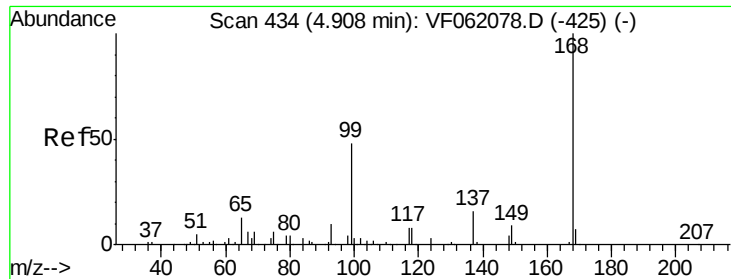
Instrument :  
MSVOA\_F  
ClientSampleId :  
S4B(10)

Manual Integrations  
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3/27/2019 11:57:27 AM

Quant Time: Mar 23 06:57:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 23 01:16:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.01 min

Lab File: VF062101.D

Acq: 23 Mar 2019 2:29

Instrument :

MSVOA\_F

ClientSampleId :

S4B(10)

Tot Ion:168 Resp: 240118

Ion Ratio Lower Upper

168 100

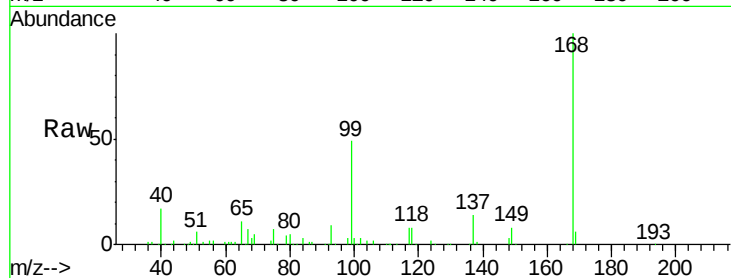
99 49.4 38.2 57.4

Manual Integrations

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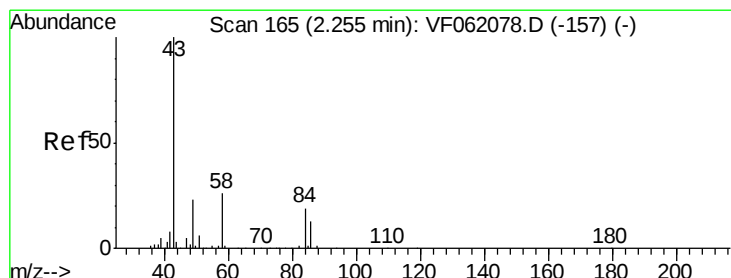
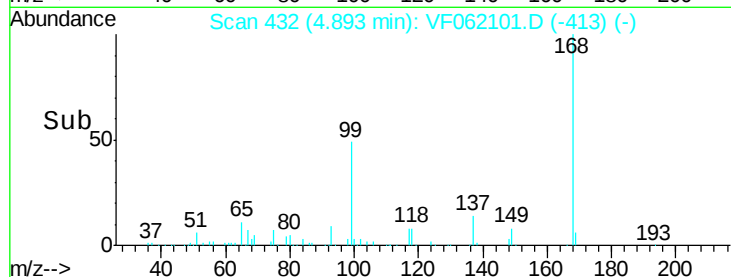
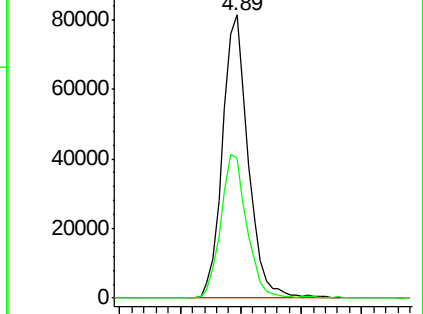
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#16

Acetone

Concen: 52.735 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF062101.D

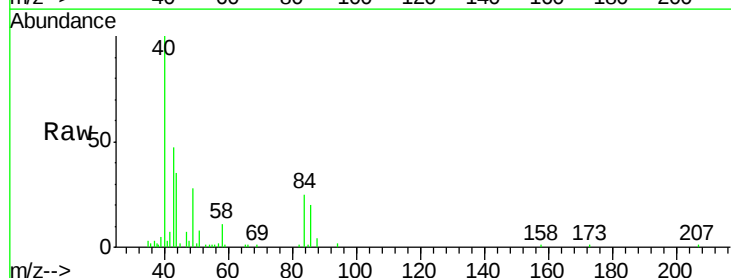
Acq: 23 Mar 2019 2:29

Tgt Ion: 43 Resp: 19823

Ion Ratio Lower Upper

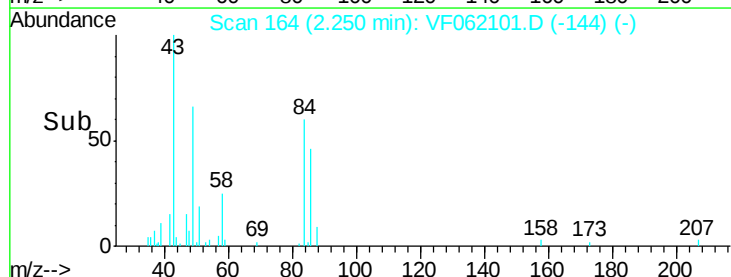
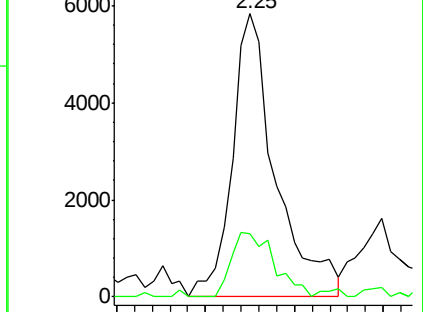
43 100

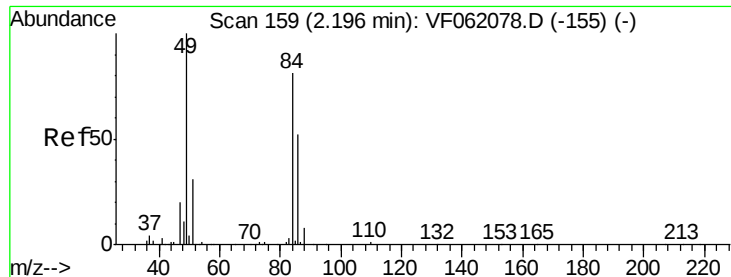
58 22.1 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





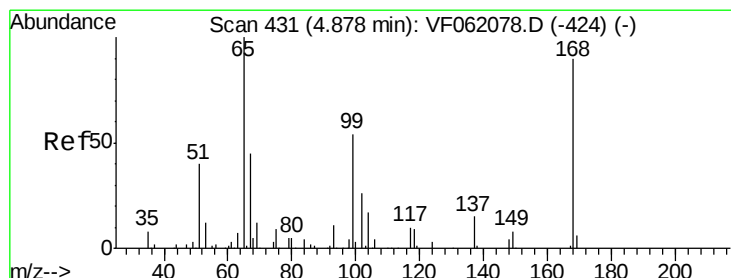
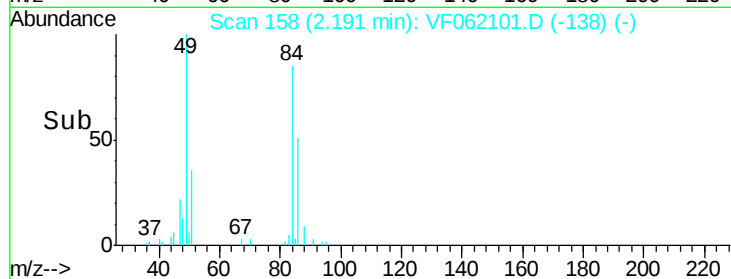
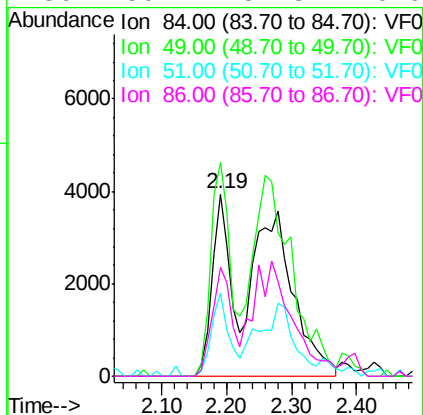
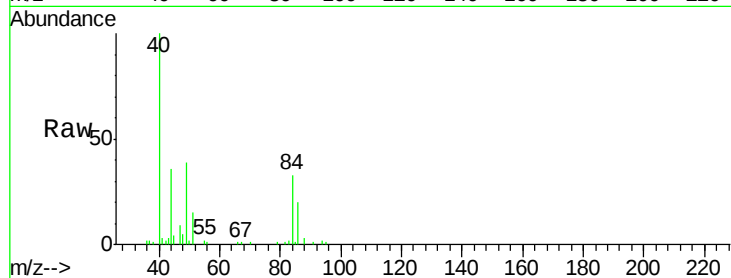
#20  
Methvlene Chloride  
Concen: 7.448 ug/l m  
RT: 2.19 min Scan# 158  
Delta R.T. -0.00 min  
Lab File: VF062101.D  
Acq: 23 Mar 2019 2:29

Instrument :  
MSVOA\_F  
ClientSampleId :  
S4B(10)

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 23012 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 117.1 | 100.4 | 150.6 |
| 51       | 45.3  | 31.0  | 46.6  |
| 86       | 59.4  | 51.3  | 76.9  |

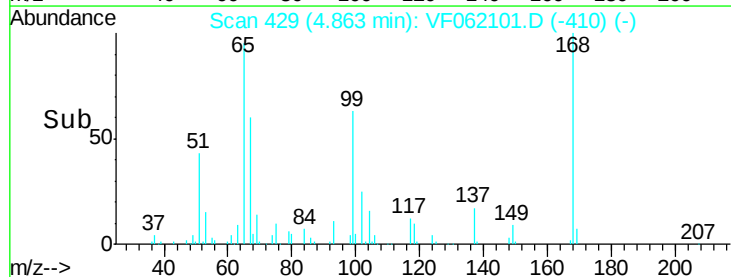
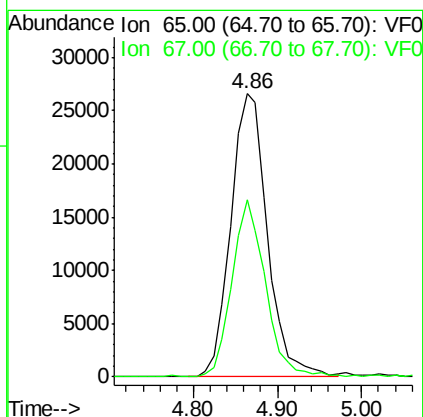
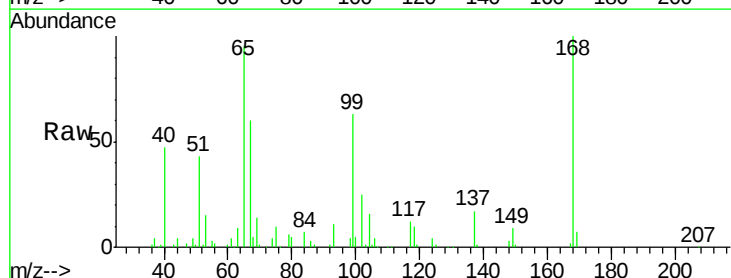
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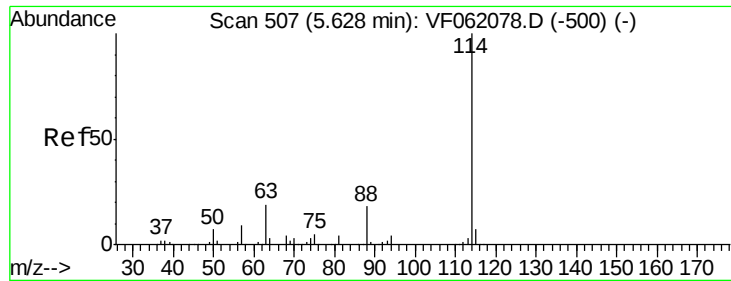
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#33  
1,2-Dichloroethane-d4  
Concen: 45.104 ug/l  
RT: 4.86 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: VF062101.D  
Acq: 23 Mar 2019 2:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 80557 |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 62.7  | 0.0   | 106.2 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF062101.D

Acq: 23 Mar 2019 2:29

Instrument :

MSVOA\_F

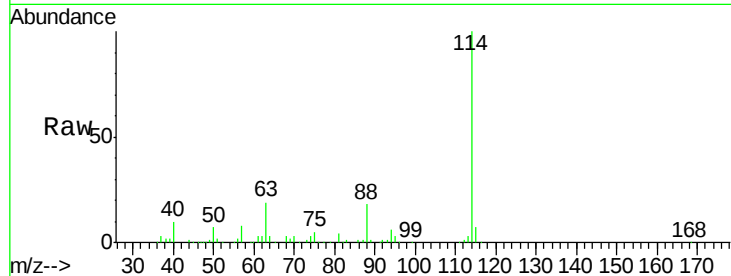
ClientSampleId :

S4B(10)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 390485 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 19.5  | 0.0   | 37.8   |
| 88        | 18.1  | 0.0   | 36.4   |

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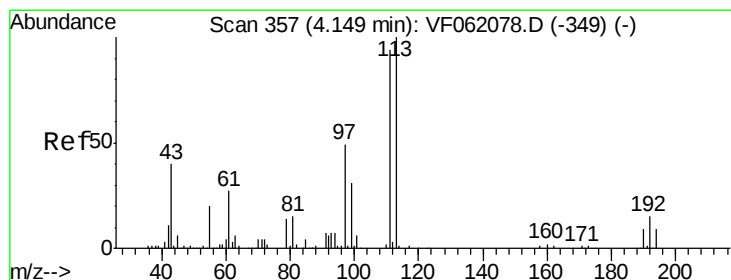
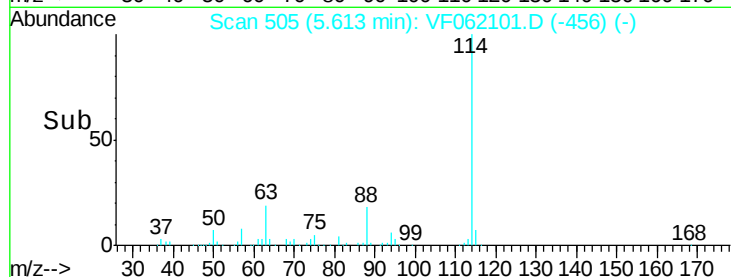
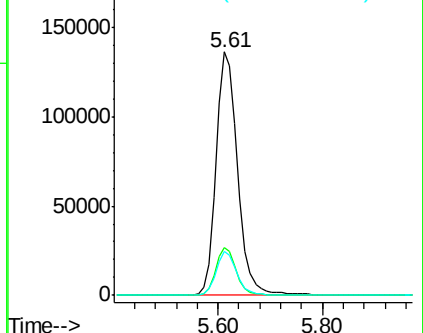
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 38.076 ug/l

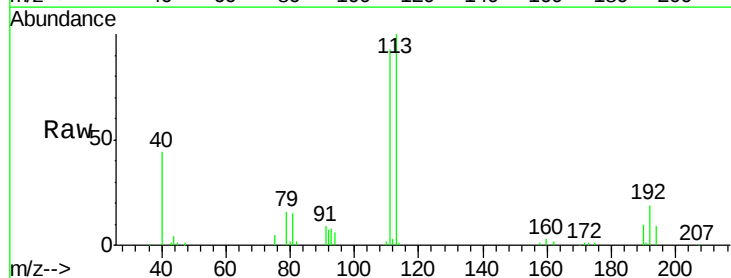
RT: 4.13 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF062101.D

Acq: 23 Mar 2019 2:29

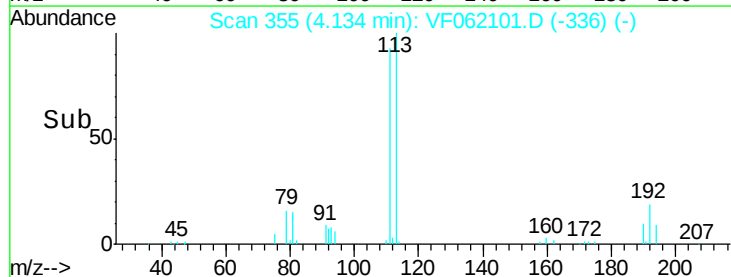
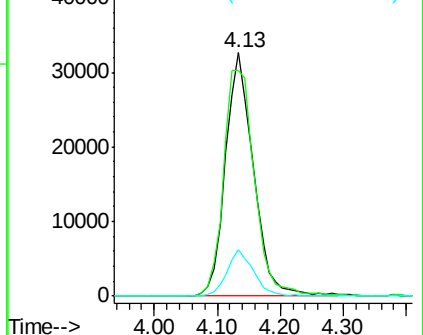
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 100577 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 92.8  | 75.4  | 113.0  |
| 192       | 19.2  | 12.3  | 18.5#  |

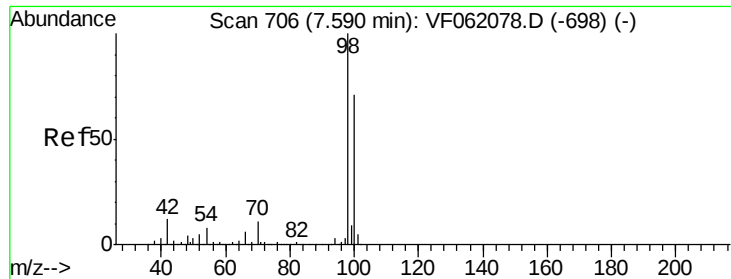


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





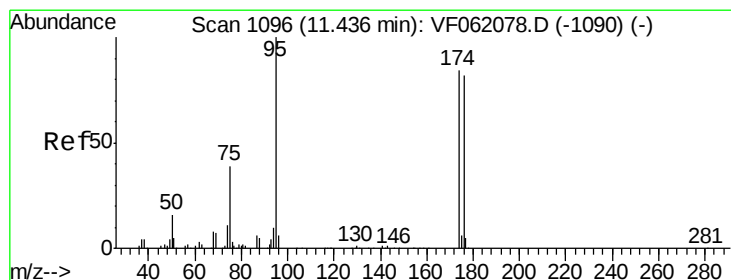
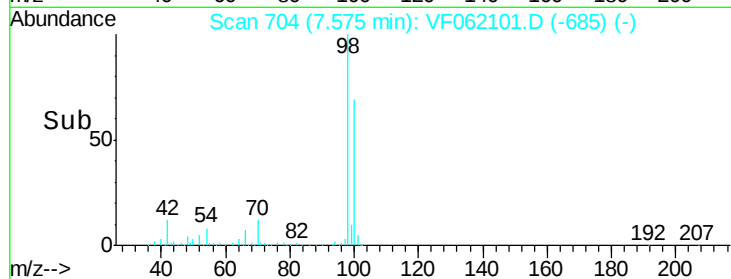
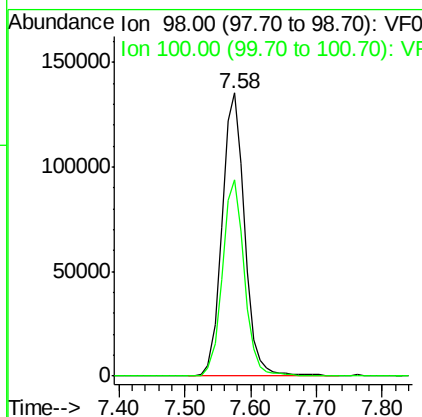
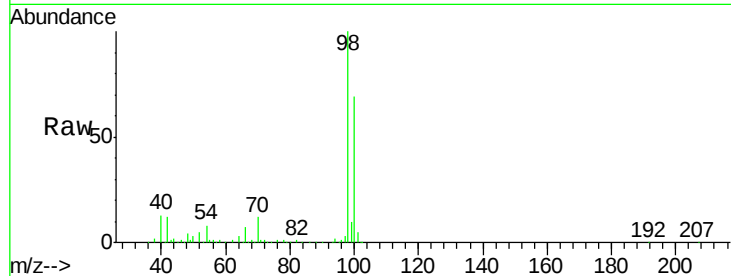
#50  
Toluene-d8  
Concen: 41.166 ug/l  
RT: 7.58 min Scan# 704  
Delta R.T. -0.02 min  
Lab File: VF062101.D  
Acq: 23 Mar 2019 2:29

Instrument :  
MSVOA\_F  
ClientSampleId :  
S4B(10)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 98      | 100  |       | 324590 |       |       |
| 100     | 69.3 | 57.0  |        | 85.6  |       |

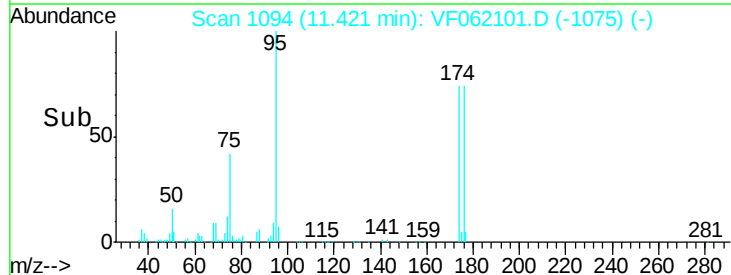
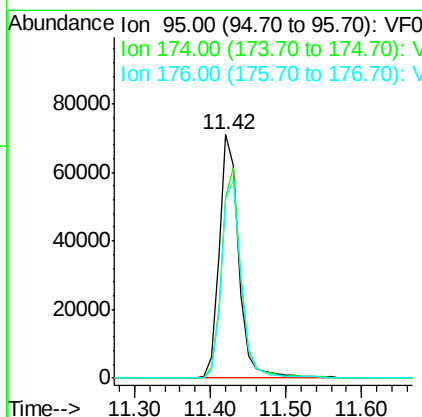
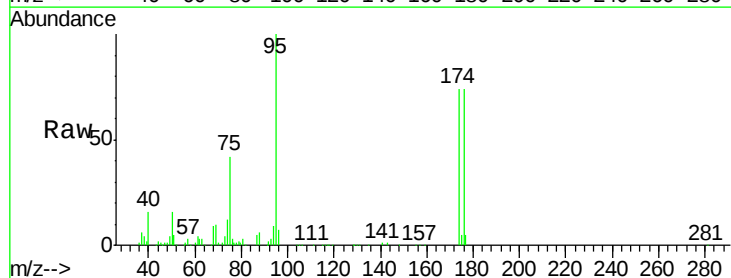
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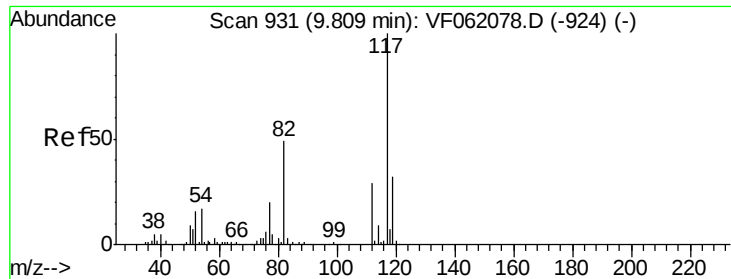
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#62  
4-Bromofluorobenzene  
Concen: 42.375 ug/l  
RT: 11.42 min Scan# 1094  
Delta R.T. -0.01 min  
Lab File: VF062101.D  
Acq: 23 Mar 2019 2:29

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 95      | 100  |       | 128990 |       |       |
| 174     | 74.1 | 0.0   |        | 168.2 |       |
| 176     | 74.0 | 0.0   |        | 164.2 |       |





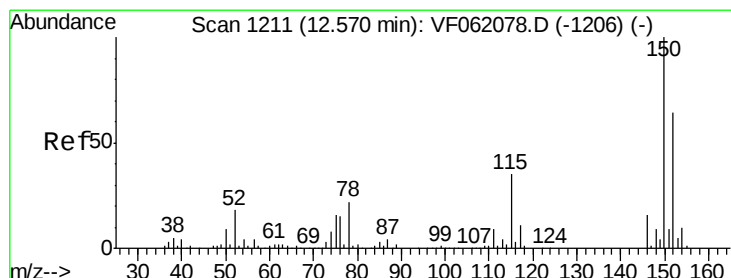
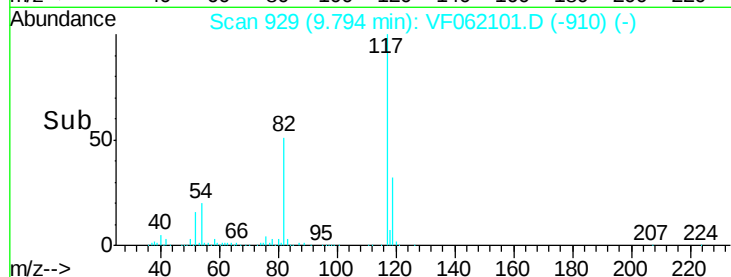
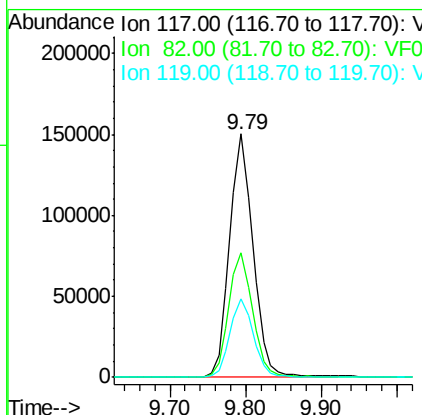
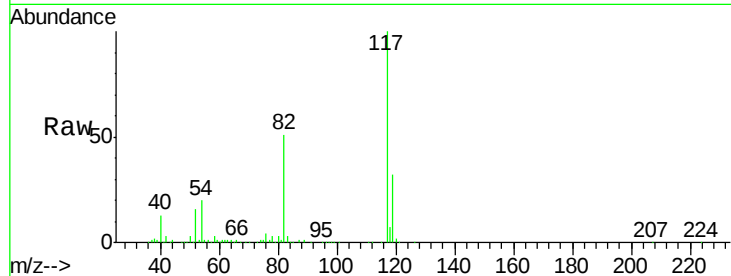
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.79 min Scan# 929  
Delta R.T. -0.01 min  
Lab File: VF062101.D  
Acq: 23 Mar 2019 2:29

Instrument :  
MSVOA\_F  
ClientSampleId :  
S4B(10)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 323820 |       |       |
| 82      | 51.0  |        | 39.2  | 58.8  |
| 119     | 32.4  |        | 25.4  | 38.2  |

Manual Integrations  
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3/27/2019 11:57:27 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: VF062101.D  
Acq: 23 Mar 2019 2:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 173048 |       |       |
| 115     | 51.6  |        | 27.7  | 83.1  |
| 150     | 150.7 |        | 0.0   | 313.2 |

