

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\  
 Data File : VF061966.D  
 Acq On : 15 Mar 2019 17:39  
 Operator : VA/AP  
 Sample : K1928-09  
 Misc : 6.79g/5mL/MSVOA-F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SI-1(1.5-2)

Manual Integrations  
 APPROVED

MMDadoda  
 3/17/2019 5:23:52 AM

Quant Time: Mar 16 00:27:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 246216   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.61  | 114  | 424745   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.78  | 117  | 344412   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.56 | 152  | 188027   | 50.00  | ug/l    | 0.01     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 104617   | 58.35  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 116.70% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 152280   | 51.37  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.74% |          |
| 50) Toluene-d8              | 7.57  | 98   | 400023   | 45.40  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.80%  |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 174922   | 50.68  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.36% |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 2.24  | 43   | 7613     | 20.269 | ug/l    | 97       |
| 20) Methylene Chloride      | 2.28  | 84   | 22088m   | 5.947  | ug/l    |          |

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

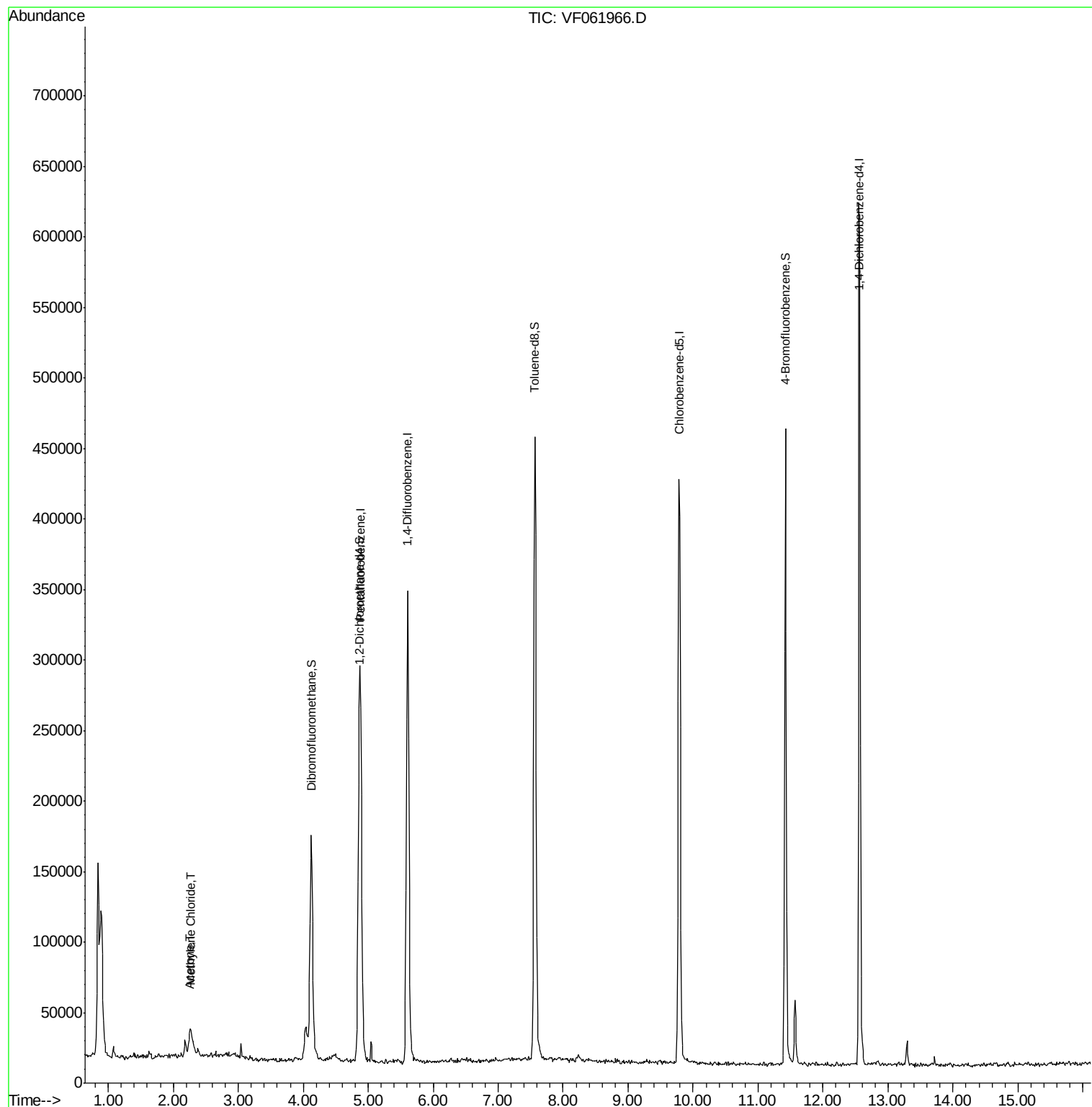
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031519\  
Data File : VF061966.D  
Acq On : 15 Mar 2019 17:39  
Operator : VA/AP  
Sample : K1928-09  
Misc : 6.79g/5mL/MSVOA-F/SOIL  
ALS Vial : 14 Sample Multiplier: 1

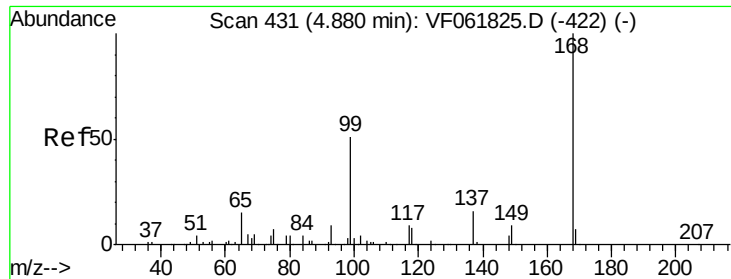
Instrument :  
MSVOA\_F  
ClientSampleId :  
SI-1(1.5-2)

Manual Integrations  
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3/17/2019 5:23:52 AM

Quant Time: Mar 16 00:27:14 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





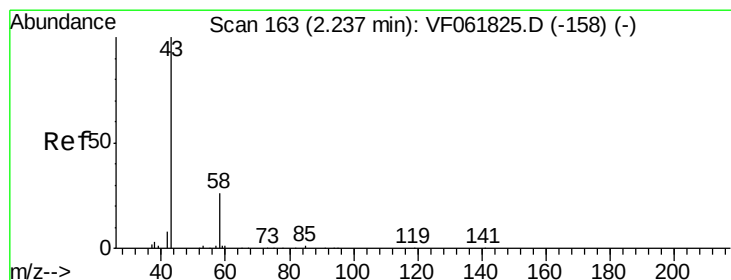
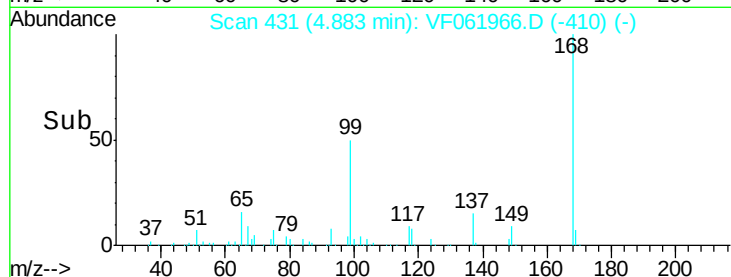
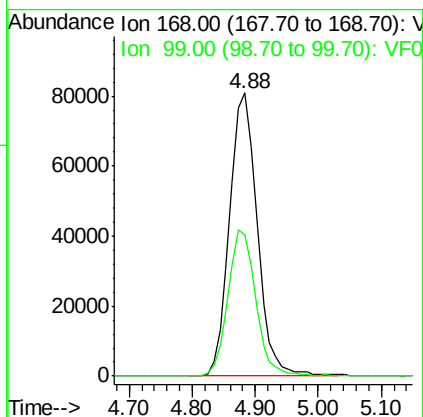
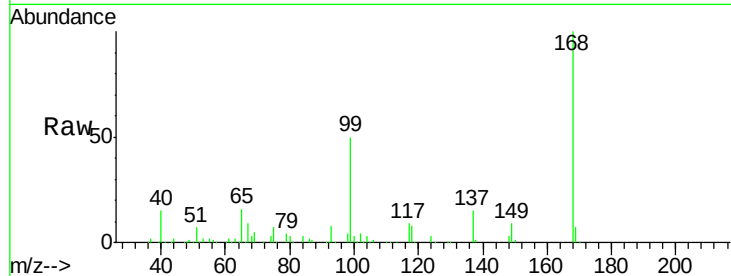
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.88 min Scan# 431  
Delta R.T. 0.00 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

Instrument :  
MSVOA\_F  
ClientSampleId :  
SI-1(1.5-2)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 246216 |       |       |
| 99      | 50.1  |        | 40.8  | 61.2  |

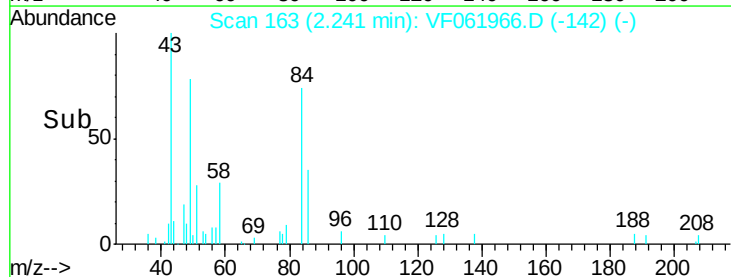
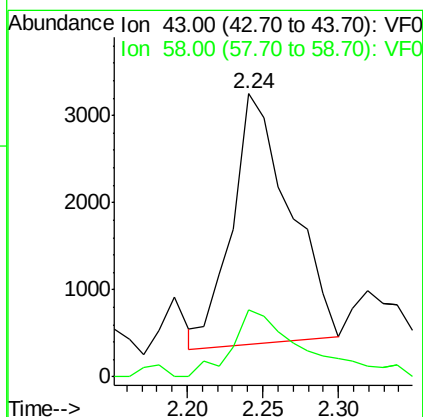
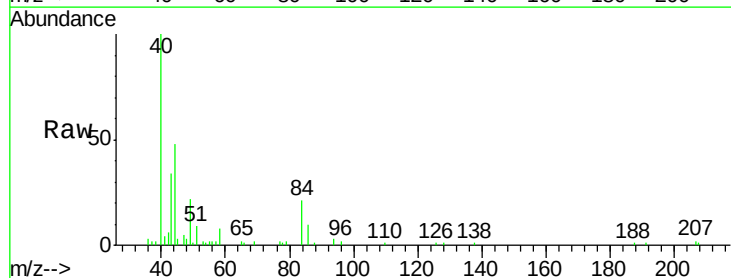
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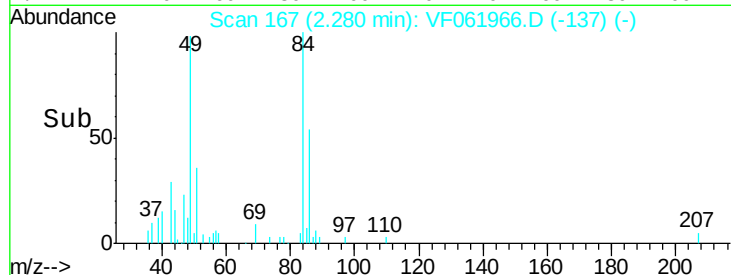
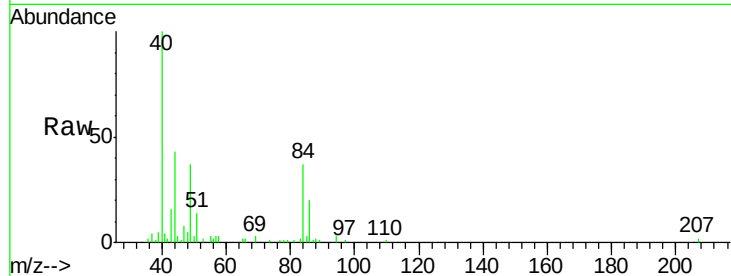
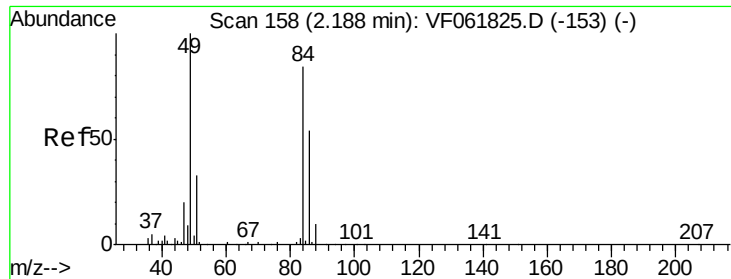
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#16  
Acetone  
Concen: 20.269 ug/l  
RT: 2.24 min Scan# 163  
Delta R.T. 0.00 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   | 7613 |       |       |
| 58      | 23.8  |      | 20.3  | 30.5  |





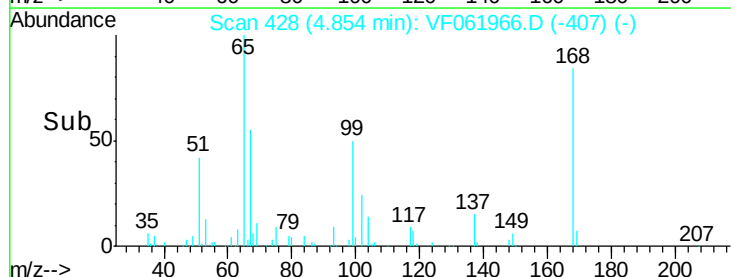
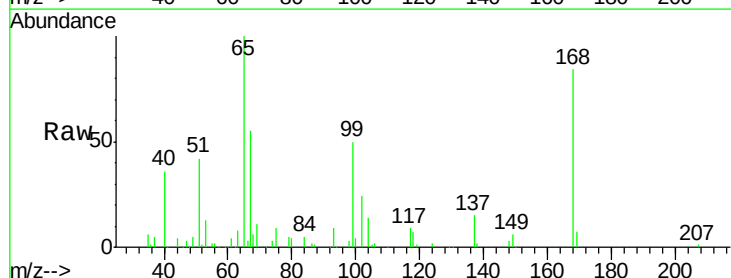
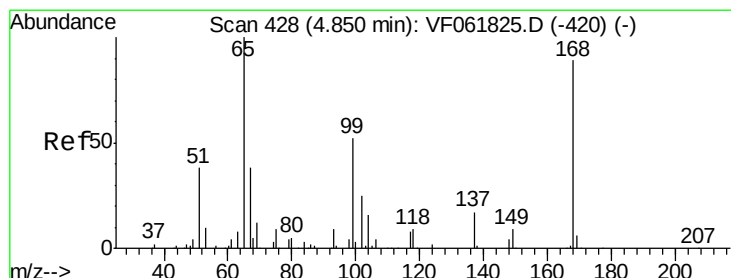
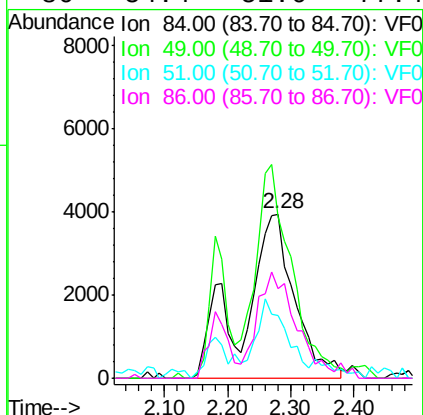
#20  
Methylene Chloride  
Concen: 5.947 ug/l m  
RT: 2.28 min Scan# 167  
Delta R.T. 0.09 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 98.0  | 96.8  | 145.2 |
| 51      | 38.5  | 31.8  | 47.6  |
| 86      | 54.4  | 51.6  | 77.4  |

Instrument :  
MSVOA\_F  
ClientSampleId :  
SI-1(1.5-2)

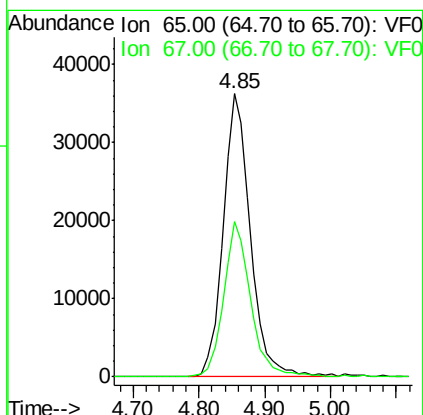
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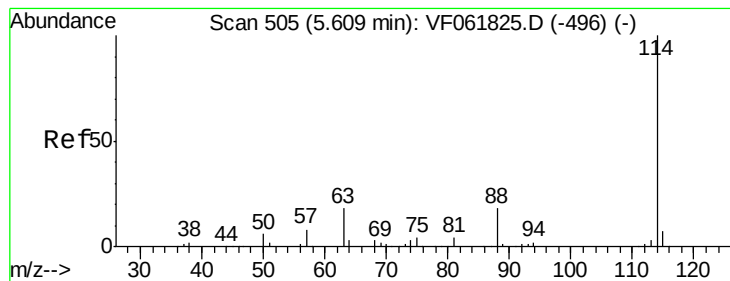
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#33  
1,2-Dichloroethane-d4  
Concen: 58.346 ug/l  
RT: 4.85 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 55.1  | 0.0   | 108.6 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.00 min

Lab File: VF061966.D

Acq: 15 Mar 2019 17:39

Instrument :

MSVOA\_F

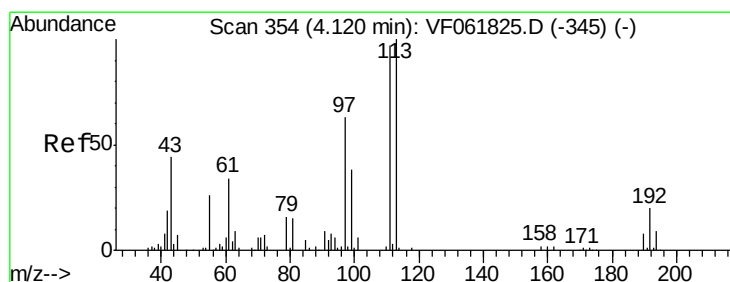
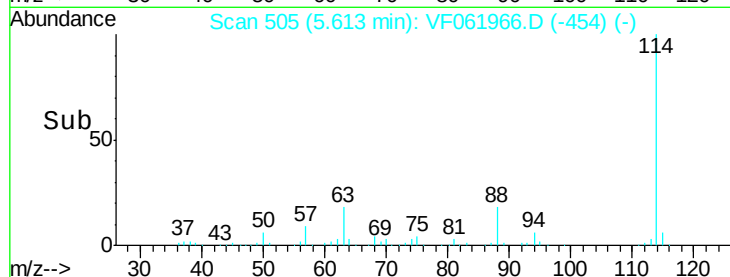
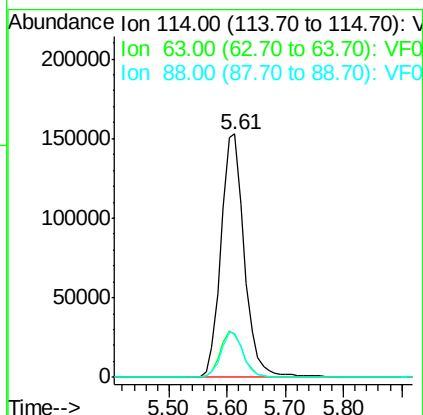
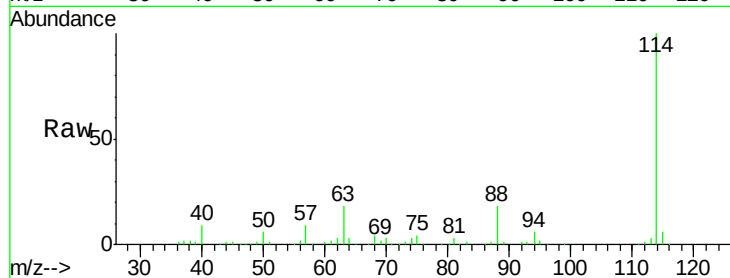
ClientSampleId :

SI-1(1.5-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 424745 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 17.8  | 0.0   | 35.6   |
| 88        | 18.3  | 0.0   | 35.6   |

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#35

Dibromofluoromethane

Concen: 51.374 ug/l

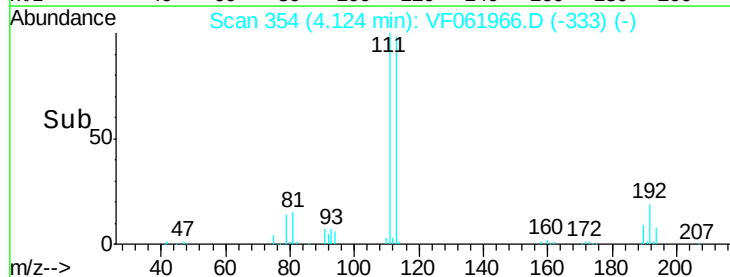
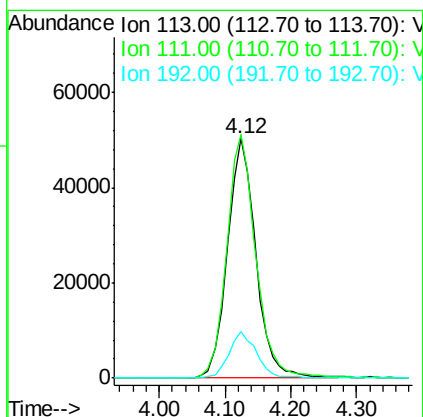
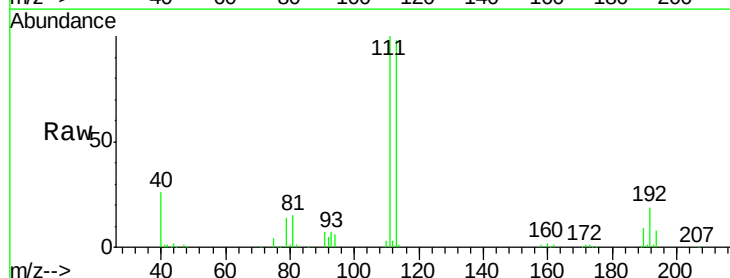
RT: 4.12 min Scan# 354

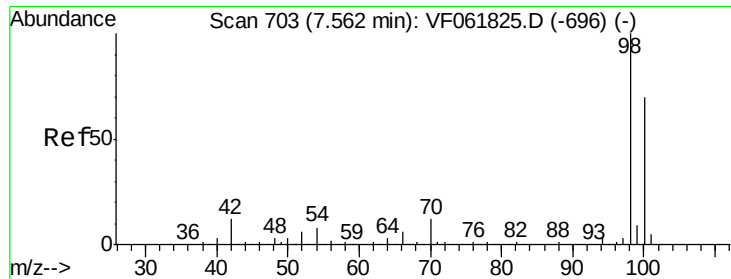
Delta R.T. 0.00 min

Lab File: VF061966.D

Acq: 15 Mar 2019 17:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 152280 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.8 | 77.6  | 116.4  |
| 192       | 20.1  | 15.9  | 23.9   |





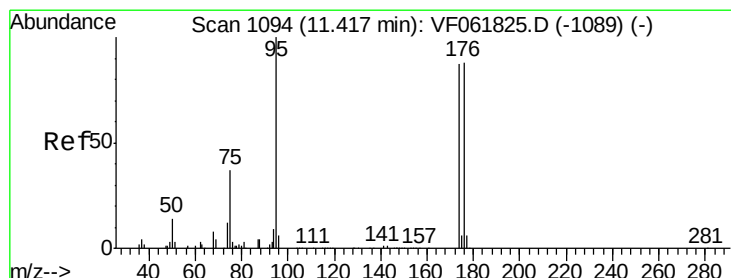
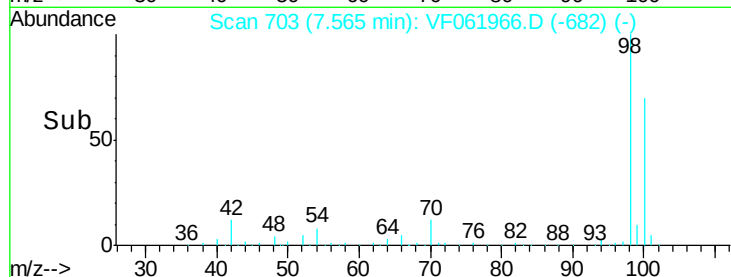
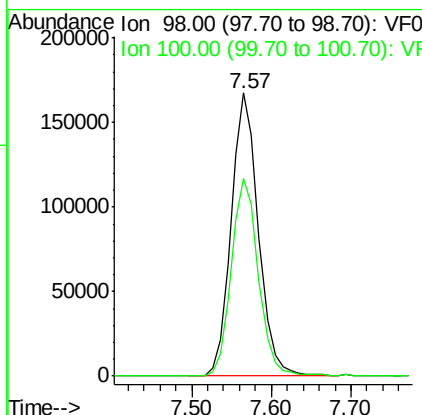
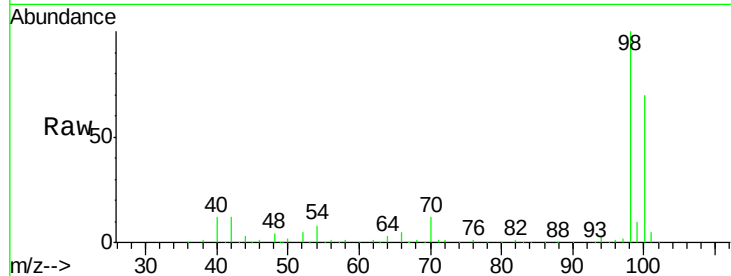
#50  
Toluene-d8  
Concen: 45.404 ug/l  
RT: 7.57 min Scan# 703  
Delta R.T. 0.00 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

Instrument :  
MSVOA\_F  
ClientSampleId :  
SI-1(1.5-2)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 98      | 100  |       | 400023 |       |       |
| 100     | 69.7 | 56.0  | 84.0   |       |       |

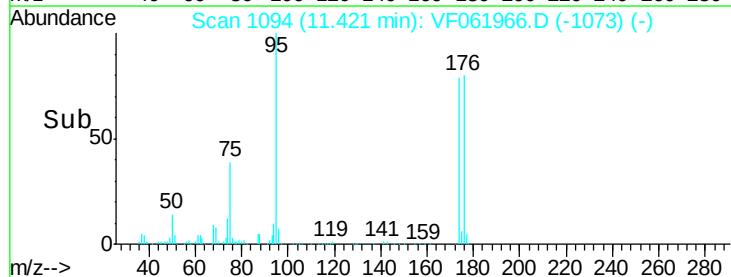
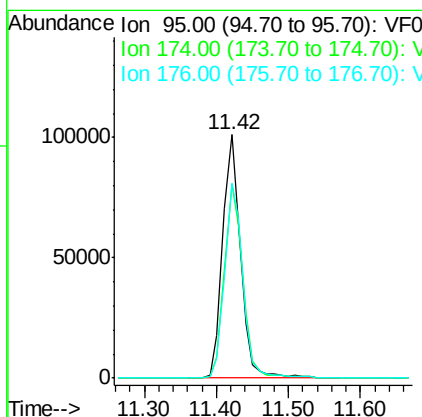
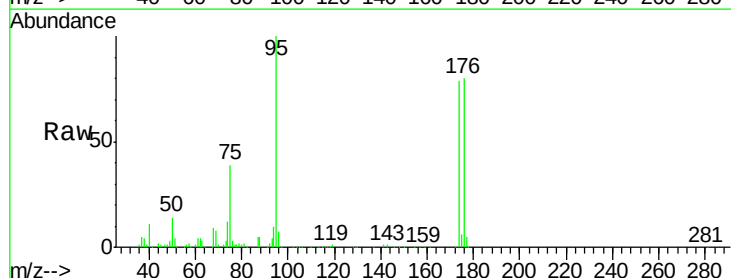
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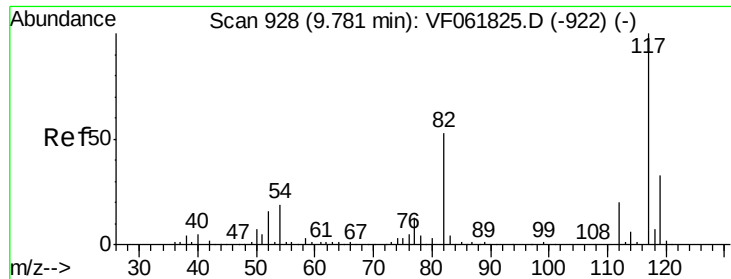
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#62  
4-Bromofluorobenzene  
Concen: 50.684 ug/l  
RT: 11.42 min Scan# 1094  
Delta R.T. 0.00 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 95      | 100  |       | 174922 |       |       |
| 174     | 79.4 | 0.0   | 174.0  |       |       |
| 176     | 80.1 | 0.0   | 175.2  |       |       |





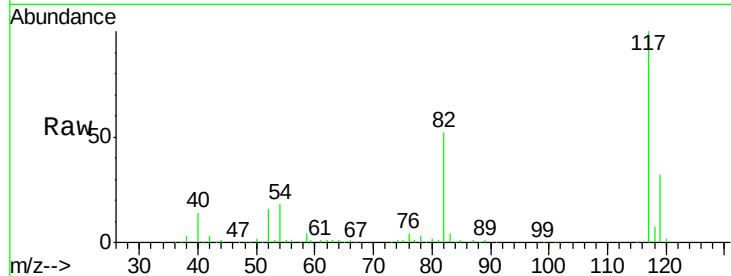
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

Instrument :  
MSVOA\_F  
ClientSampleId :  
SI-1(1.5-2)

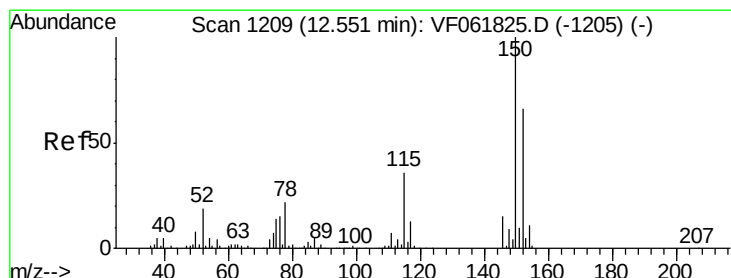
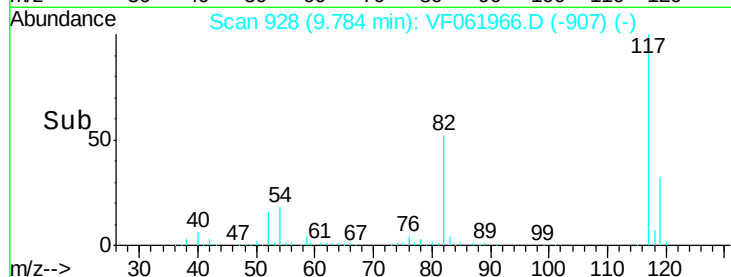
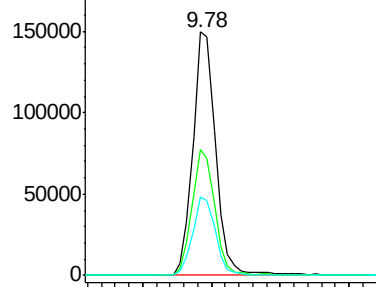
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.7  | 42.6  | 63.8  |
| 119     | 32.2  | 26.0  | 39.0  |

Manual Integrations  
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3/17/2019 5:23:52 AM

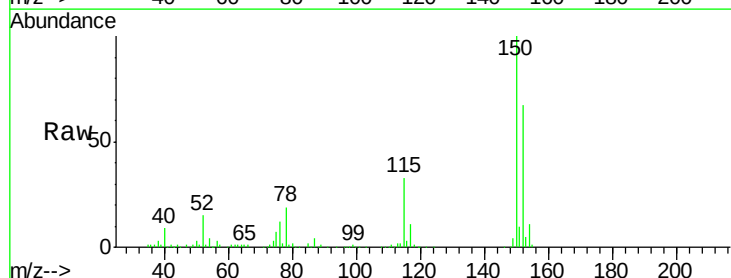


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1210  
Delta R.T. 0.01 min  
Lab File: VF061966.D  
Acq: 15 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 49.7  | 27.7  | 83.1  |
| 150     | 148.8 | 0.0   | 304.2 |



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V

