

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\  
 Data File : VF062441.D  
 Acq On : 11 May 2019 2:17  
 Operator : FY/SY  
 Sample : K2754-02  
 Misc : 6.11g/5mL/MSVOA F/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-5

Manual Integrations  
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 5/11/2019 3:48:15 PM

Quant Time: May 11 06:39:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.06  | 168  | 255645   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.78  | 114  | 338857   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.92  | 117  | 215825   | 50.00 | ug/l    | 0.02     |
| 72) 1,4-Dichlorobenzene-d4  | 12.62 | 152  | 110591   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 188195   | 77.90 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 155.80% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 195349   | 72.36 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 144.72% |          |
| 50) Toluene-d8              | 7.71  | 98   | 274834   | 42.06 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.12%  |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 112543   | 38.17 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 76.34%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 20) Methylene Chloride      | 2.35  | 84   | 11768m   | 6.655 | ug/l    | Qvalue   |

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

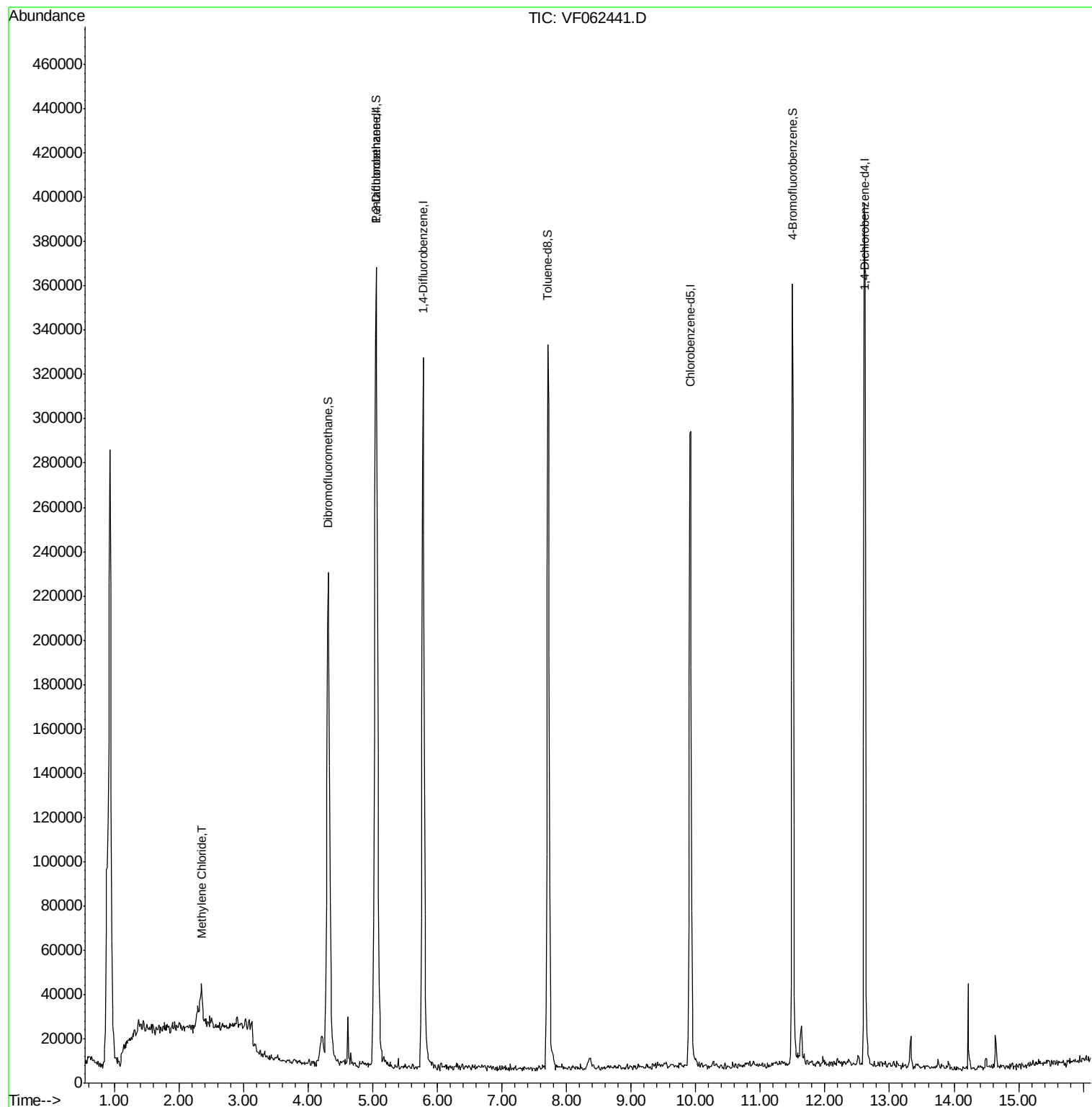
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051019\  
Data File : VF062441.D  
Acq On : 11 May 2019 2:17  
Operator : FY/SY  
Sample : K2754-02  
Misc : 6.11g/5mL/MSVOA F/SOIL  
ALS Vial : 35 Sample Multiplier: 1

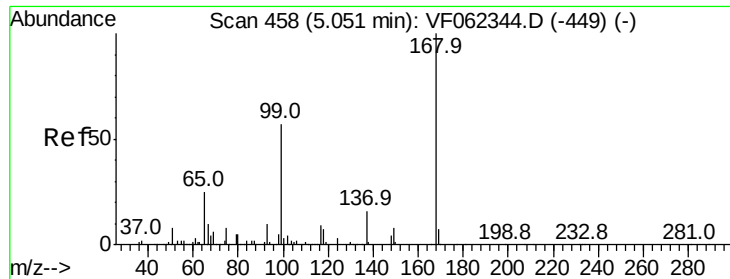
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-5

Manual Integrations  
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5/11/2019 3:48:15 PM

Quant Time: May 11 06:39:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA\_F

ClientSampled :

TP-5

Tot Ion:168 Resp: 255645

Ion Ratio Lower Upper

168 100

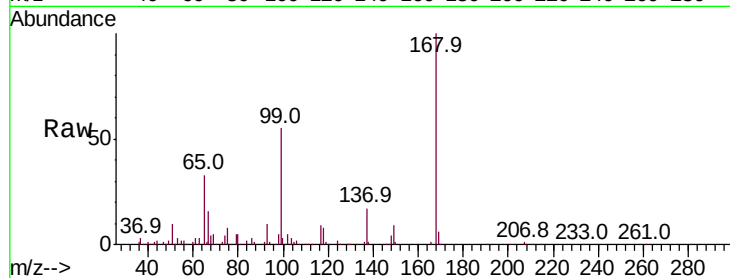
99 55.4 45.9 68.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

100000 Ion 98.90 (98.60 to 99.60): VF0

80000

60000

40000

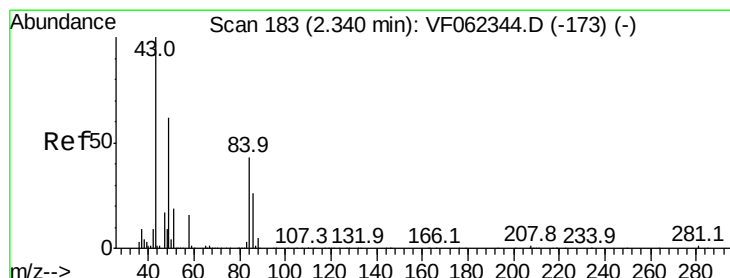
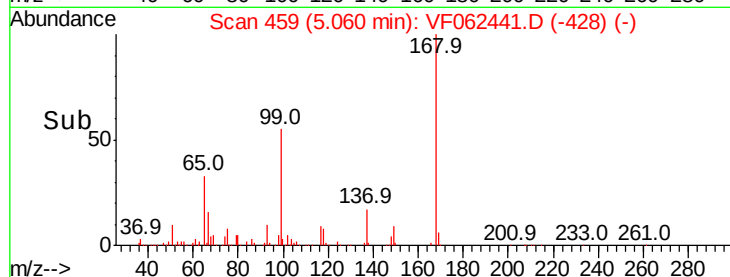
20000

0

Time-->

4.90 5.00 5.10 5.20

5.06



#20

Methylene Chloride

Concen: 6.655 ug/l m

RT: 2.35 min Scan# 184

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Tgt Ion: 84 Resp: 11768

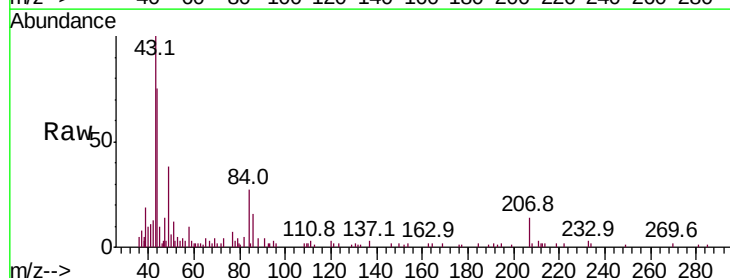
Ion Ratio Lower Upper

84 100

49 139.9 117.5 176.3

51 44.6 37.0 55.4

86 60.1 49.3 73.9



Abundance Ion 83.90 (83.60 to 84.60): VF0

5000 Ion 48.90 (48.60 to 49.60): VF0

4000 Ion 50.90 (50.60 to 51.60): VF0

3000 Ion 85.90 (85.60 to 86.60): VF0

2000

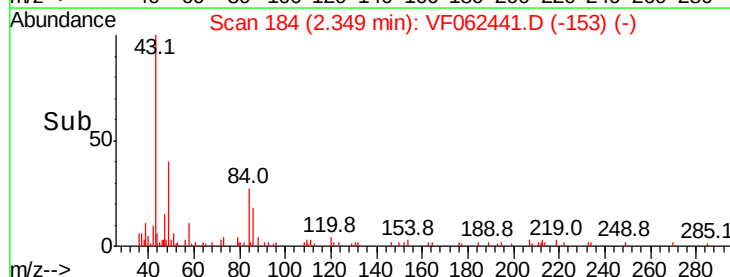
1000

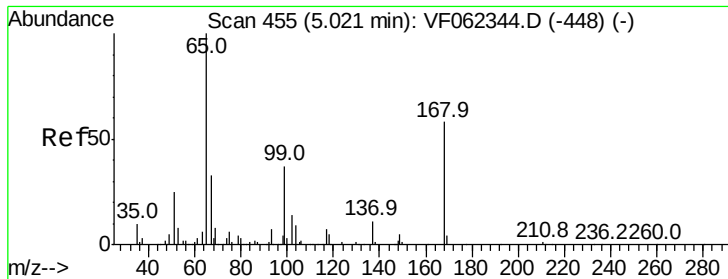
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Time-->

2.20 2.30 2.40 2.50

2.35





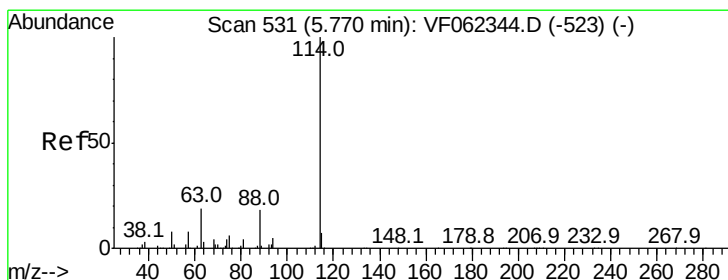
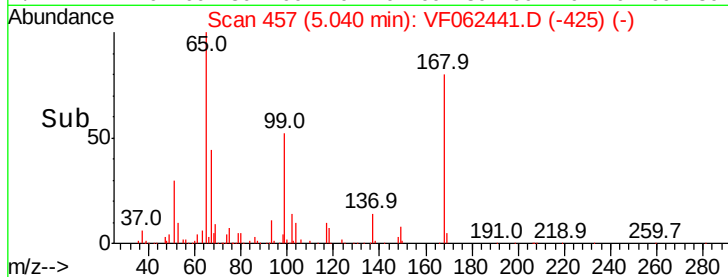
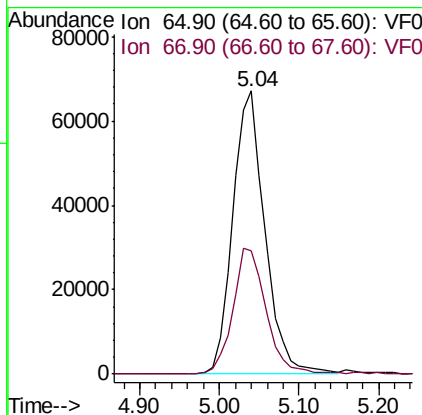
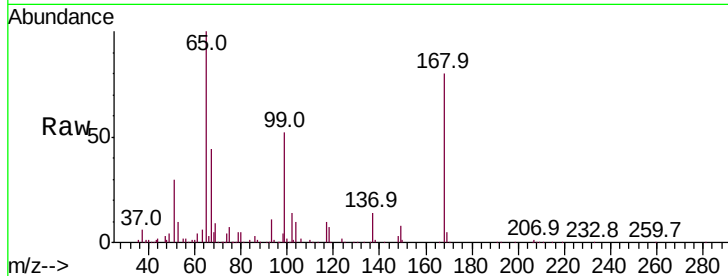
#33  
 1,2-Dichloroethane-d4  
 Concen: 77.897 ug/l  
 RT: 5.04 min Scan# 457  
 Delta R.T. 0.02 min  
 Lab File: VF062441.D  
 Acq: 11 May 2019 2:17

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-5

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 65      | 100   |            |       |
| 67      | 45.8  | 0.0        | 85.8  |

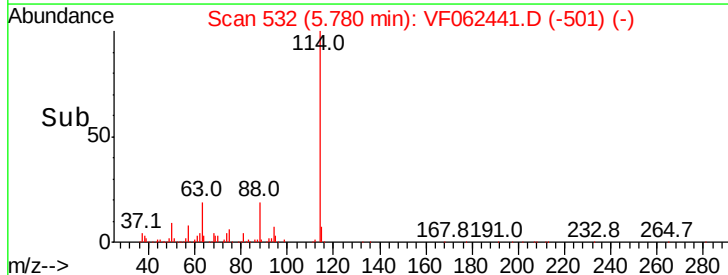
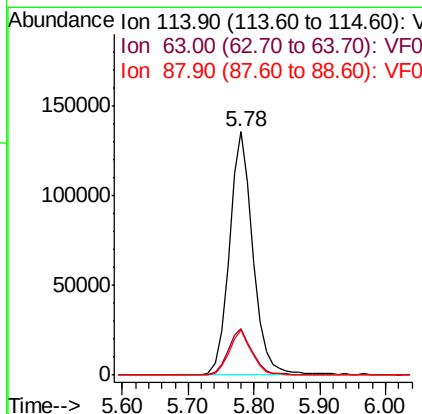
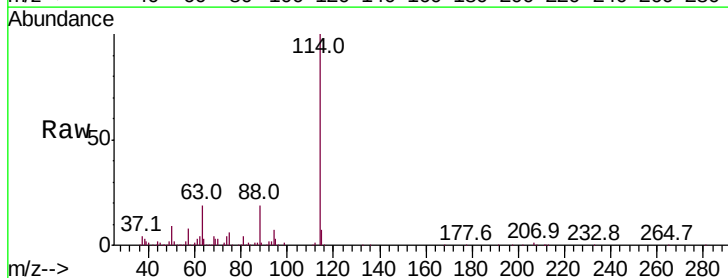
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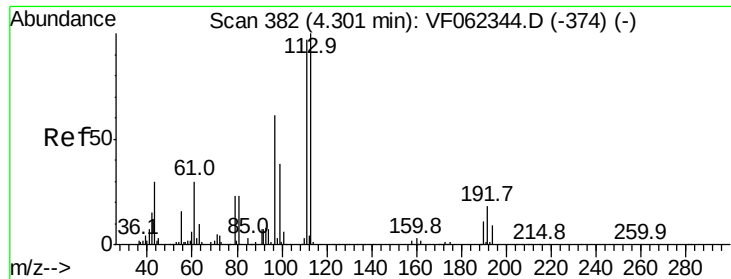
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.78 min Scan# 532  
 Delta R.T. 0.01 min  
 Lab File: VF062441.D  
 Acq: 11 May 2019 2:17

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 114     | 100   |            |       |
| 63      | 19.2  | 0.0        | 37.4  |
| 88      | 18.7  | 0.0        | 36.4  |





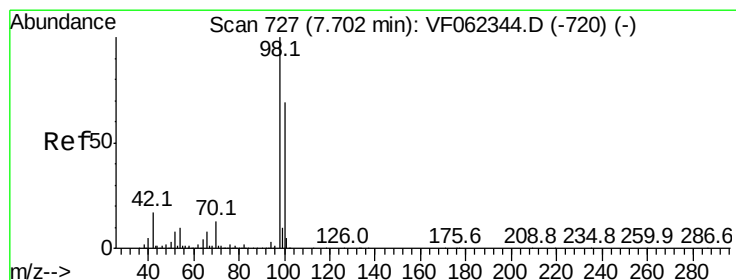
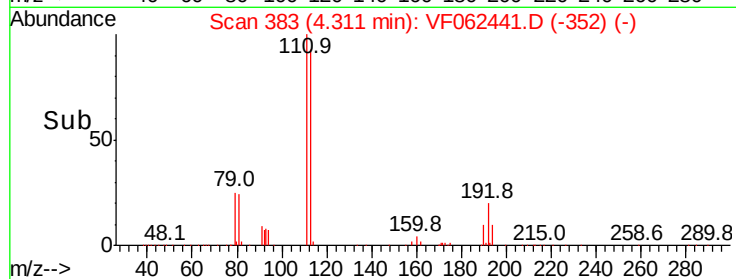
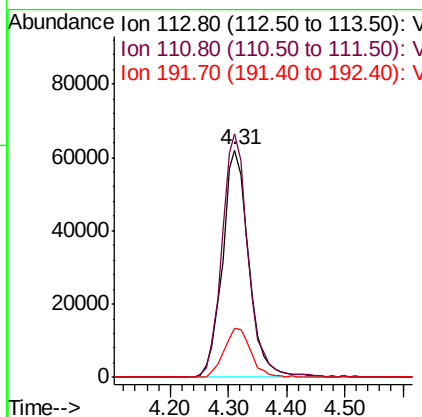
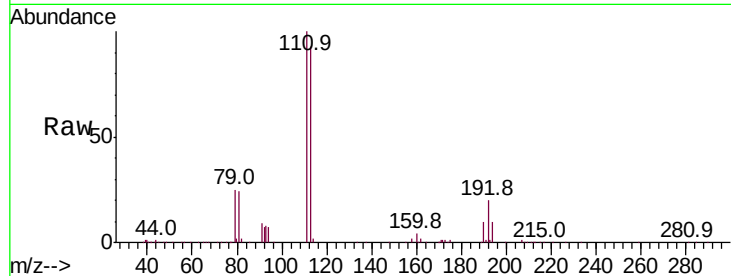
#35  
 Dibromofluoromethane  
 Concen: 72.362 ug/l  
 RT: 4.31 min Scan# 383  
 Delta R.T. 0.01 min  
 Lab File: VF062441.D  
 Acq: 11 May 2019 2:17

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 106.4 | 79.4  | 119.0 |
| 192     | 22.1  | 16.0  | 24.0  |

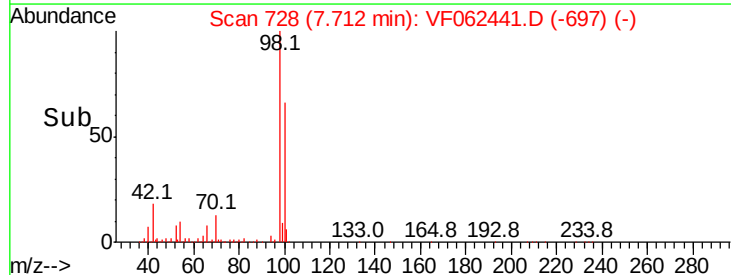
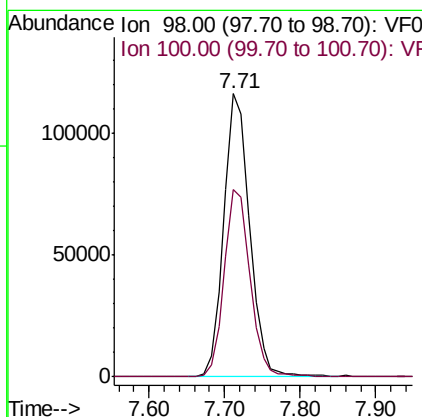
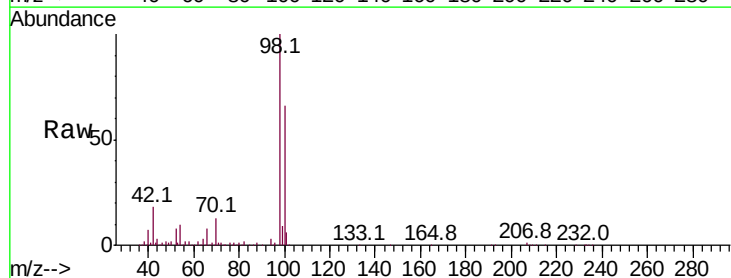
Manual Integrations  
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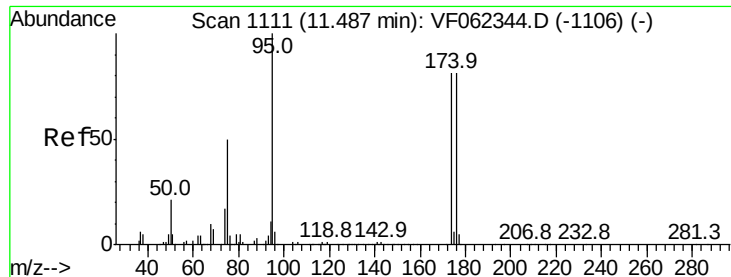
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#50  
 Toluene-d8  
 Concen: 42.057 ug/l  
 RT: 7.71 min Scan# 728  
 Delta R.T. 0.01 min  
 Lab File: VF062441.D  
 Acq: 11 May 2019 2:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.6  | 53.3  | 79.9  |





#62

4-Bromofluorobenzene

Concen: 38.173 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA\_F

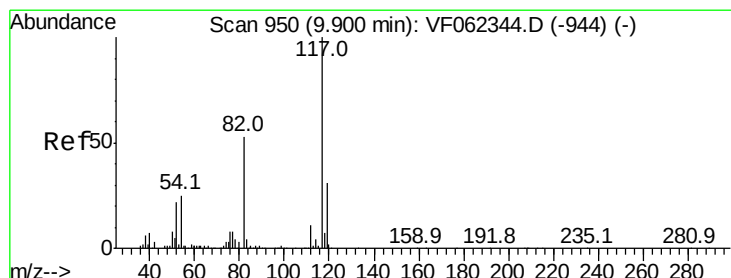
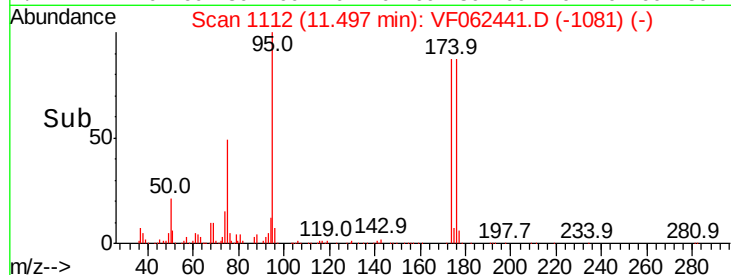
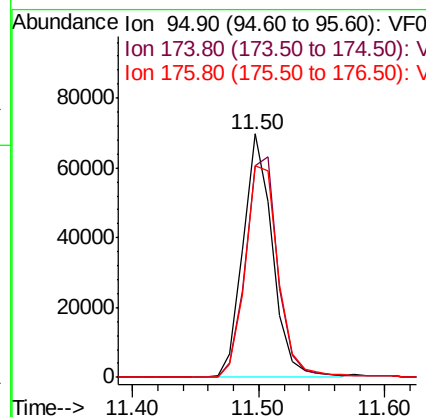
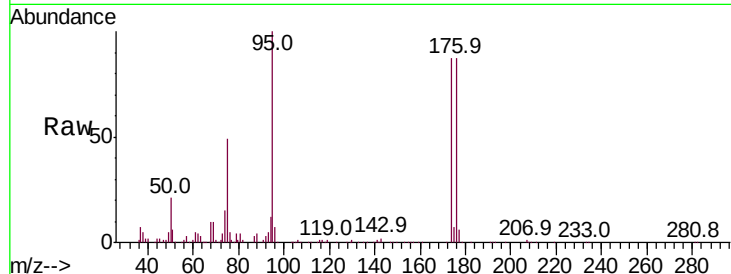
ClientSampleId :

TP-5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 112543 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 100.6 | 0.0   | 191.8  |
| 176       | 99.1  | 0.0   | 193.2  |

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

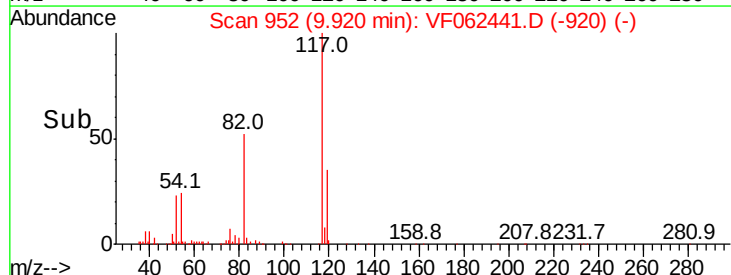
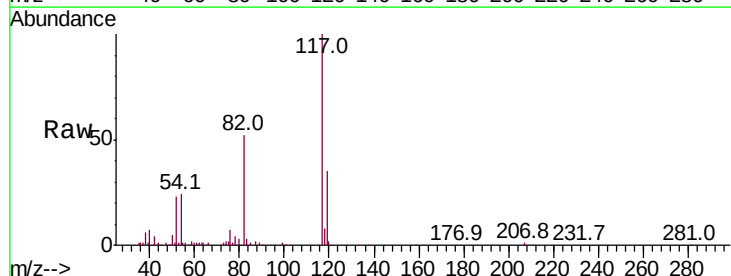
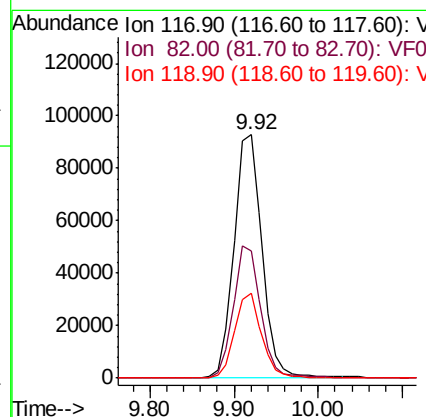
RT: 9.92 min Scan# 952

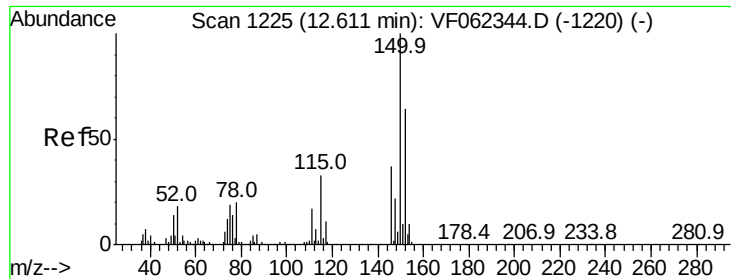
Delta R.T. 0.02 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 215825 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 52.0  | 42.2  | 63.2   |
| 119       | 34.9  | 25.0  | 37.4   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA\_F

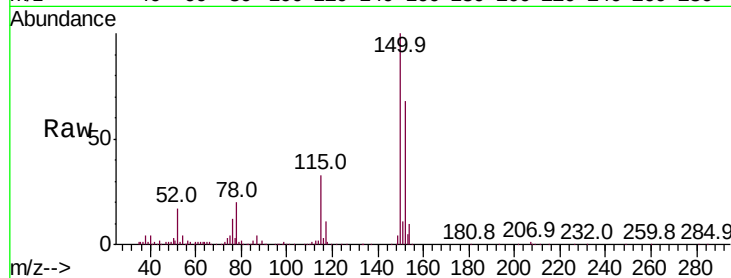
ClientSampleId :

TP-5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 110591 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 53.9  | 26.4  | 79.2   |
| 150       | 153.1 | 0.0   | 335.0  |

Manual Integrations  
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Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

