

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\  
 Data File : VF059572.D  
 Acq On : 19 Jul 2018 23:13  
 Operator : VA/AP  
 Sample : J4051-03  
 Misc : 4.37g/5mL/MSVOA F/SOIL  
 ALS Vial : 64 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NS-SOIL

Manual Integrations  
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 7/20/2018 11:52:59 AM

Quant Time: Jul 20 06:50:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F071718S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 18 04:09:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 233247   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 341085   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 278943   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 52363    | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.01  | 65   | 172579     | 47.57   | ug/l  | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery = | 95.14%  |       |          |
| 35) Dibromofluoromethane    | 4.28  | 113  | 147974     | 50.09   | ug/l  | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery = | 100.18% |       |          |
| 50) Toluene-d8              | 7.71  | 98   | 295787     | 39.75   | ug/l  | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery = | 79.50%  |       |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 109213     | 27.98   | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 55.96%  |       |          |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 30) Chloroform             | 4.03  | 83   | 6296     | 1.15  | ug/l  | # 76   |
| 52) Toluene                | 7.77  | 92   | 327965   | 68.28 | ug/l  | 98     |
| 67) Ethyl Benzene          | 10.03 | 91   | 13550    | 1.46  | ug/l  | 97     |
| 68) m/p-Xylenes            | 10.27 | 106  | 24260    | 7.38  | ug/l  | 100    |
| 69) o-Xylene               | 10.83 | 106  | 13102    | 3.74  | ug/l  | 93     |
| 73) Isopropylbenzene       | 11.22 | 105  | 4576     | 1.38  | ug/l  | 77     |
| 78) n-propylbenzene        | 11.69 | 91   | 8831     | 2.33  | ug/l  | 100    |
| 80) 1,3,5-Trimethylbenzene | 11.91 | 105  | 26518    | 9.58  | ug/l  | 94     |
| 84) 1,2,4-Trimethylbenzene | 12.29 | 105  | 71515    | 25.11 | ug/l  | 95     |
| 86) p-Isopropyltoluene     | 12.54 | 119  | 4810m    | 1.64  | ug/l  |        |
| 95) Naphthalene            | 14.52 | 128  | 60224    | 31.40 | ug/l  | 100    |

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

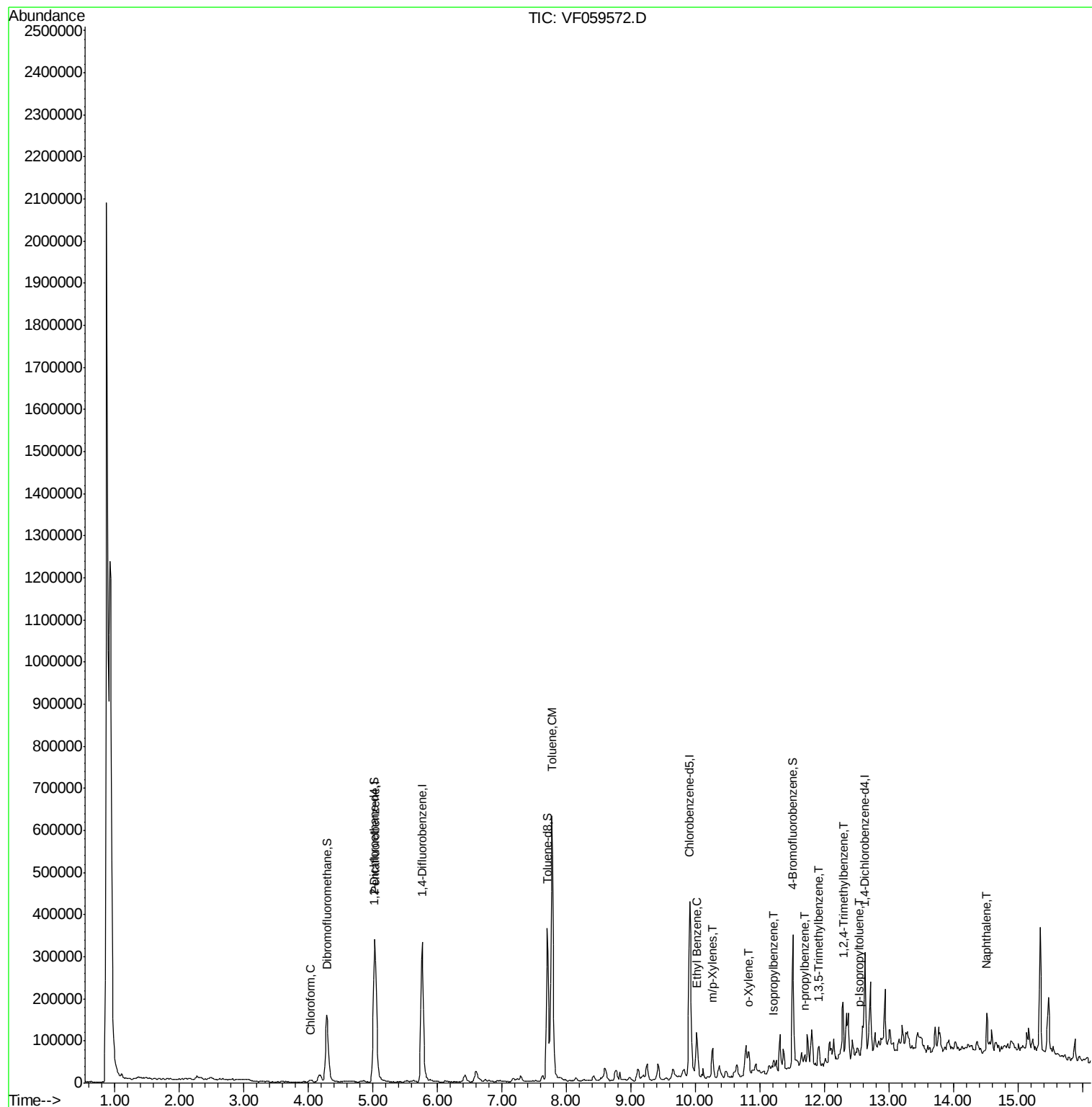
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF071918\  
Data File : VF059572.D  
Acq On : 19 Jul 2018 23:13  
Operator : VA/AP  
Sample : J4051-03  
Misc : 4.37g/5mL/MSVOA F/SOIL  
ALS Vial : 64 Sample Multiplier: 1

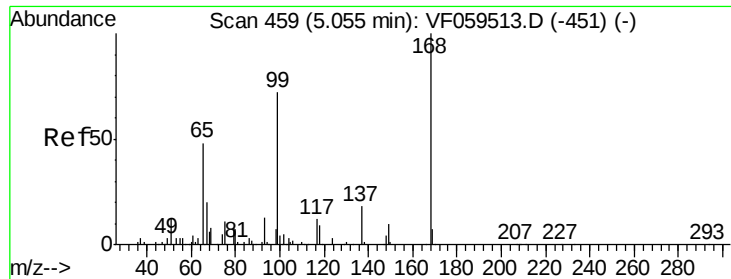
Instrument :  
MSVOA\_F  
ClientSampleId :  
NS-SOIL

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Quant Time: Jul 20 06:50:35 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F071718S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 18 04:09:10 2018  
Response via : Initial Calibration





#1

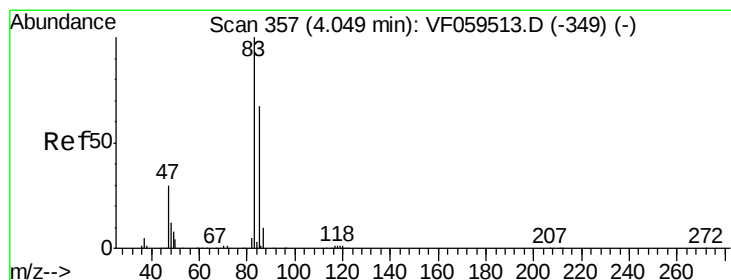
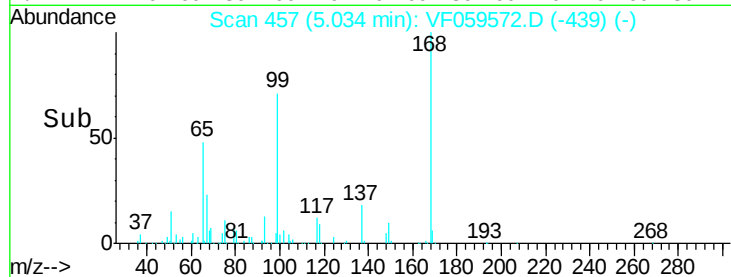
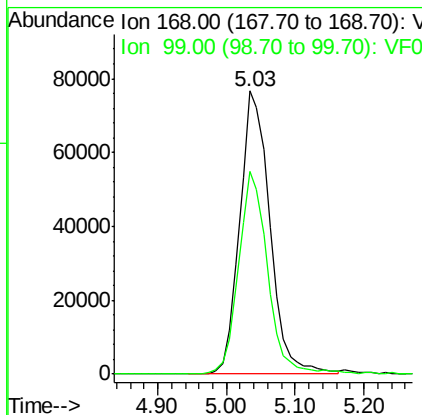
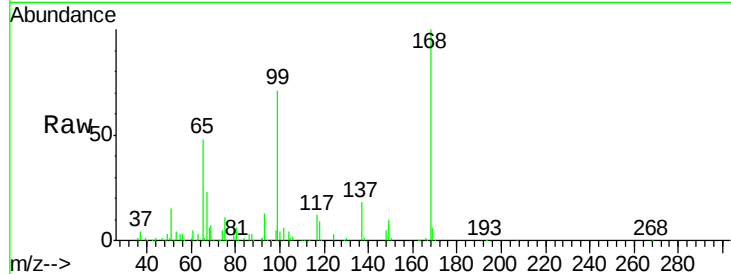
Pentafluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.03 min Scan# 457  
 Delta R.T. -0.02 min  
 Lab File: VF059572.D  
 Acq: 19 Jul 2018 23:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NS-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 99      | 71.5  | 57.6  | 86.4  |

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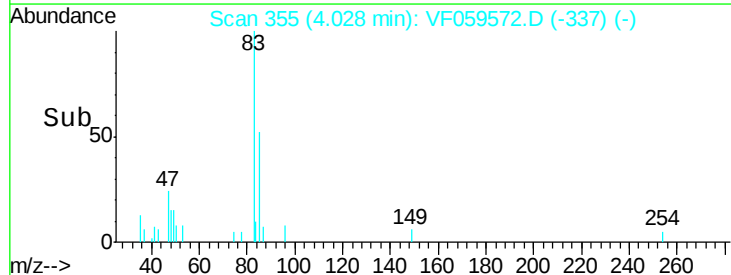
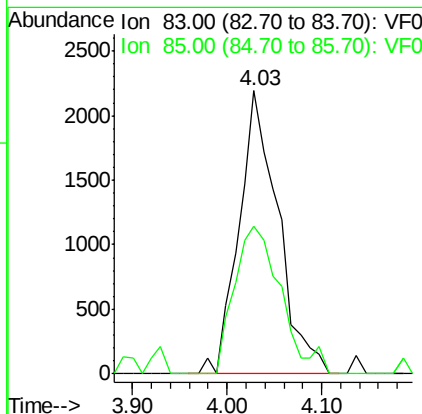
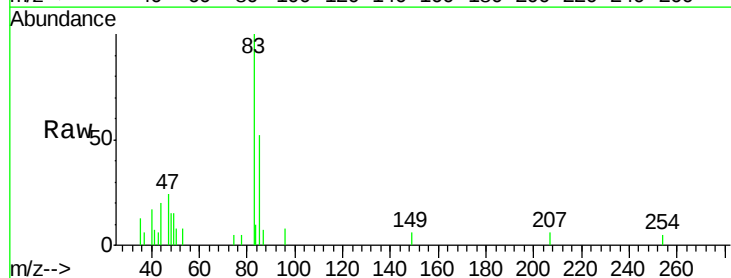
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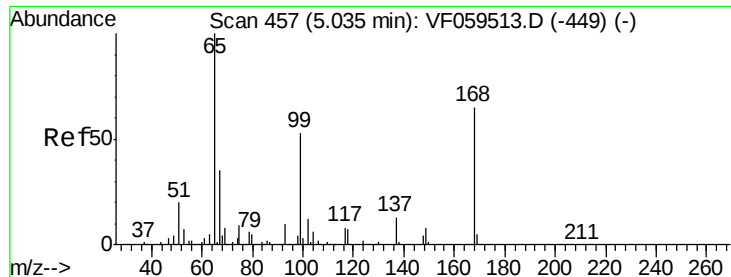


#30

Chloroform  
 Concen: 1.15 ug/l  
 RT: 4.03 min Scan# 355  
 Delta R.T. -0.02 min  
 Lab File: VF059572.D  
 Acq: 19 Jul 2018 23:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 47.4  | 53.2  | 79.8# |





#33

1,2-Dichloroethane-d4

Concen: 47.57 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Tot Ion: 65 Resp: 172579

Ion Ratio Lower Upper

65 100

67 46.3 0.0 91.2

Instrument :

MSVOA\_F

ClientSampleId :

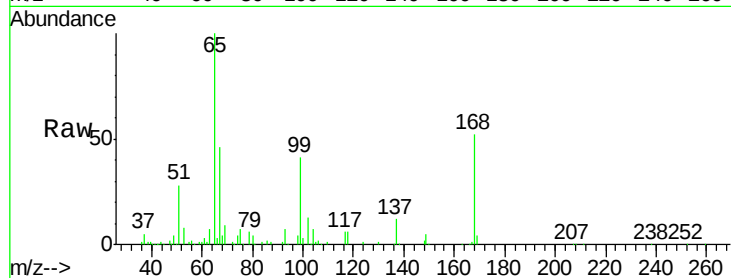
NS-SOIL

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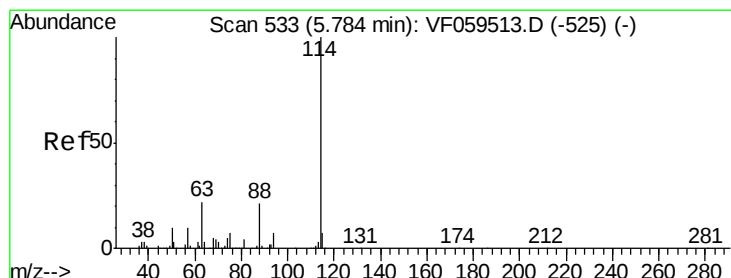
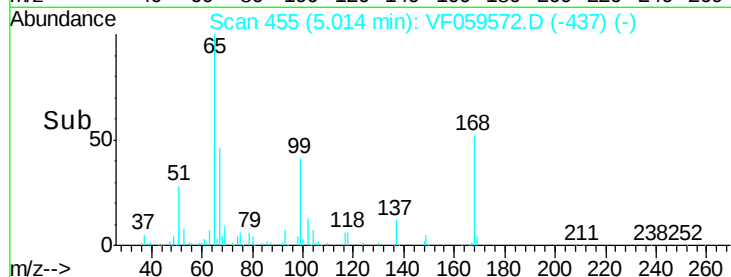
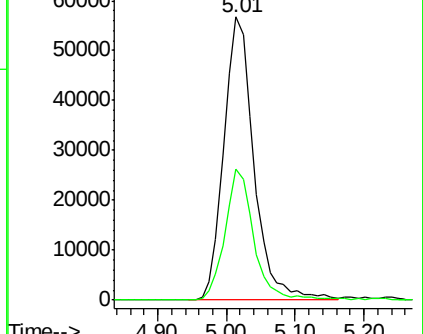
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

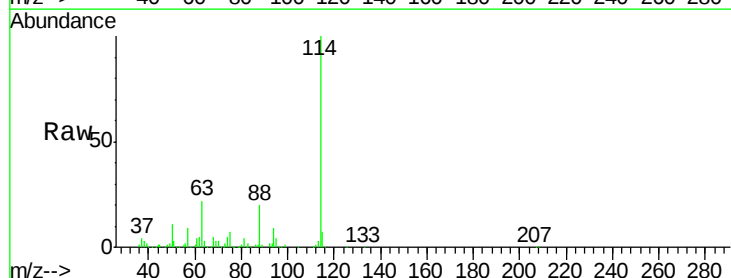
Tgt Ion: 114 Resp: 341085

Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.8

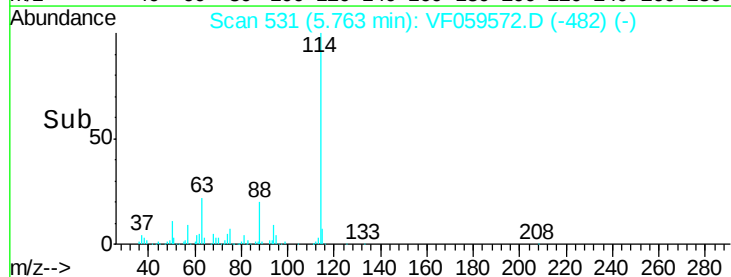
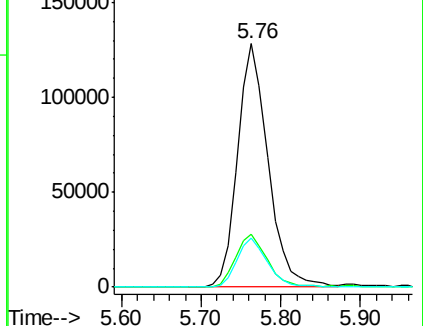
88 20.2 0.0 42.6

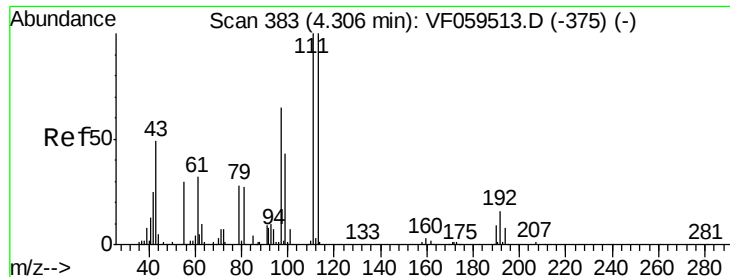


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 50.09 ug/l

RT: 4.28 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Instrument :

MSVOA\_F

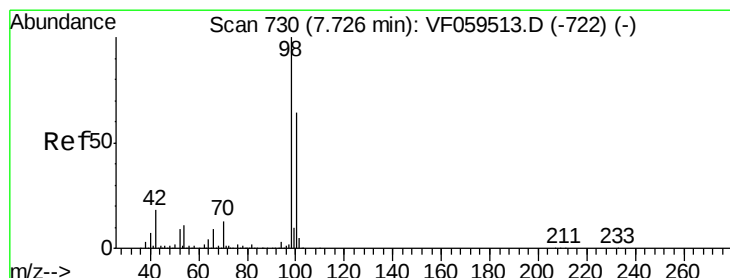
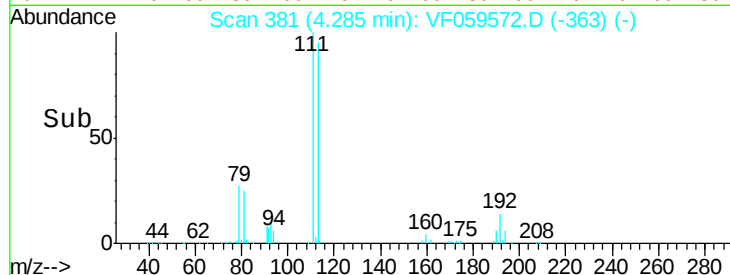
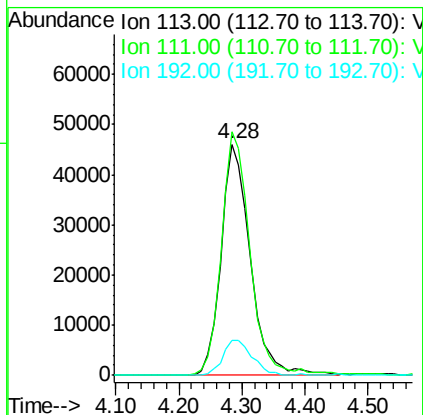
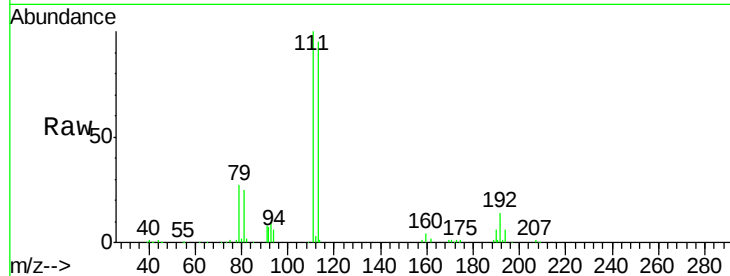
ClientSampleId :

NS-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.4 | 80.3  | 120.5 |
| 192     | 15.3  | 13.1  | 19.7  |

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#50

Toluene-d8

Concen: 39.75 ug/l

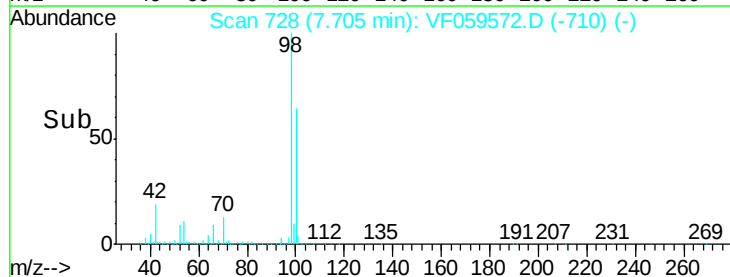
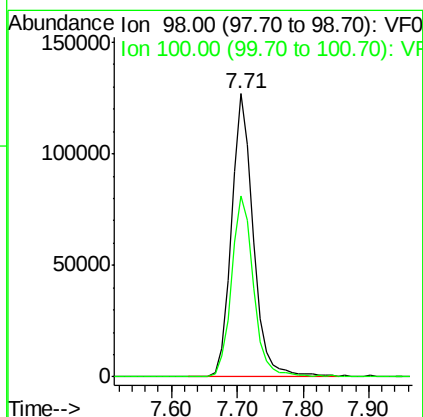
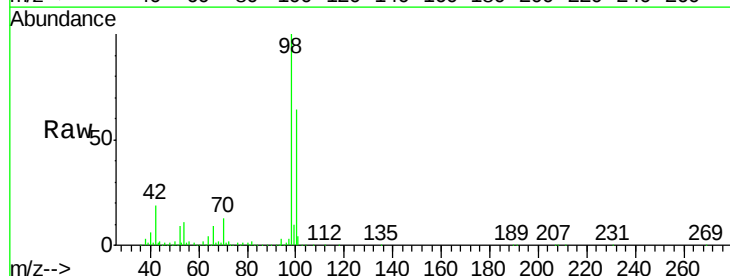
RT: 7.71 min Scan# 728

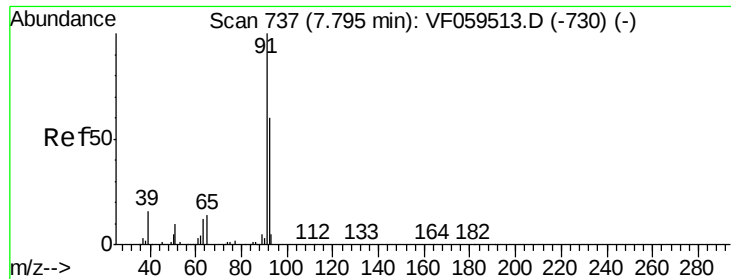
Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.2  | 50.9  | 76.3  |





#52

Toluene

Concen: 68.28 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Instrument :

MSVOA\_F

ClientSampleId :

NS-SOIL

Tot Ion: 92 Resp: 327965

Ion Ratio Lower Upper

92 100

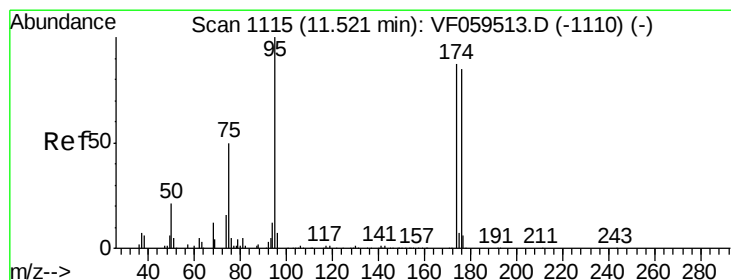
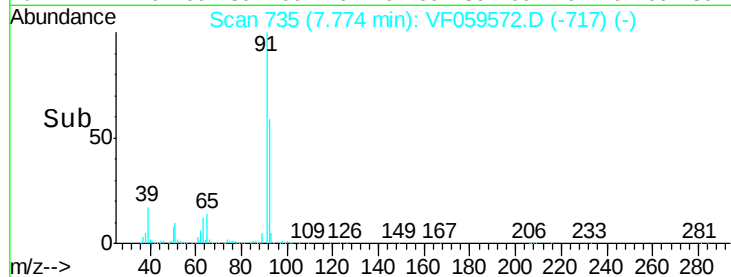
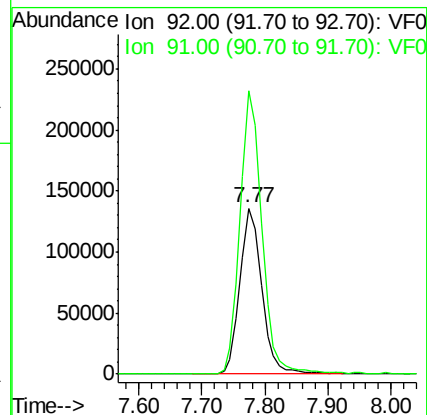
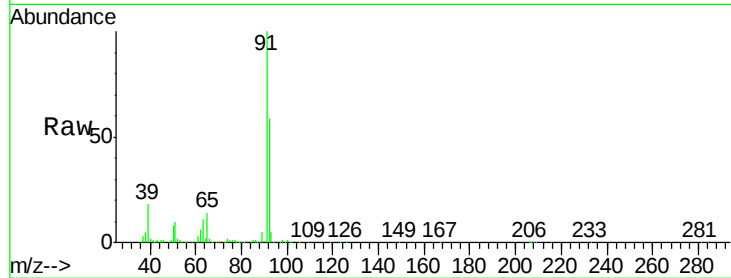
91 170.3 134.2 201.4

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#62

4-Bromofluorobenzene

Concen: 27.98 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

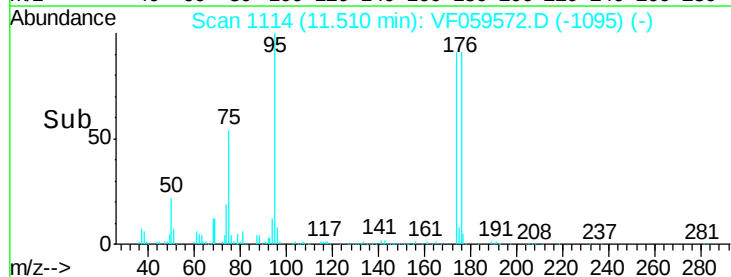
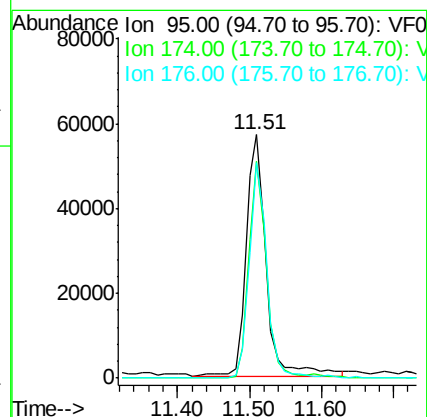
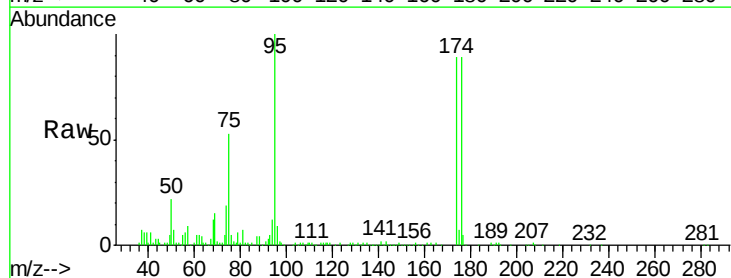
Tgt Ion: 95 Resp: 109213

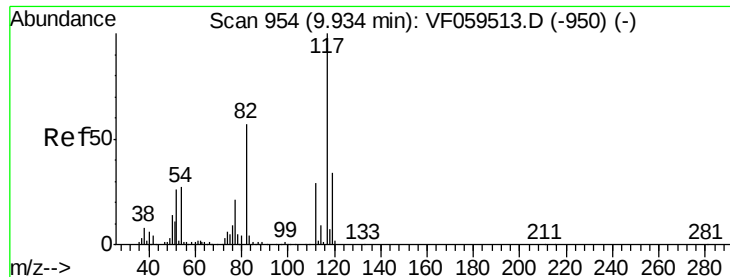
Ion Ratio Lower Upper

95 100

174 89.2 0.0 174.4

176 88.7 0.0 169.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Instrument :

MSVOA\_F

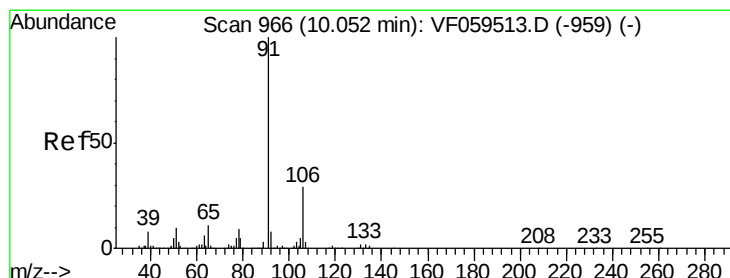
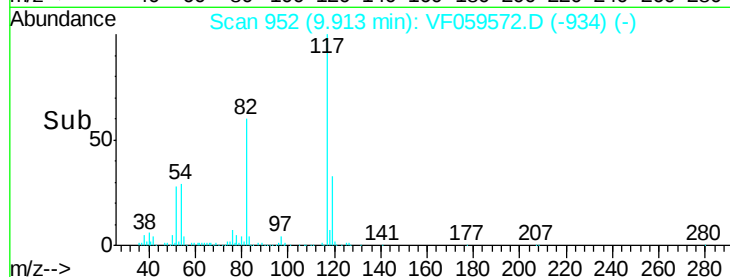
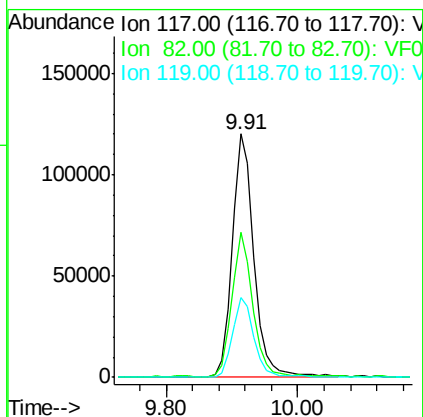
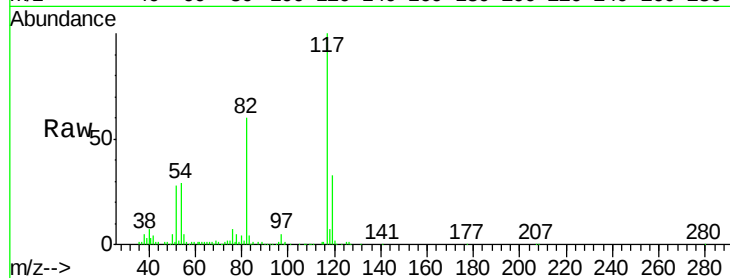
ClientSampleId :

NS-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 117   | Resp: | 278943 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 59.8  | 46.1  | 69.1   |
| 119       | 32.5  | 27.2  | 40.8   |

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#67

Ethyl Benzene

Concen: 1.46 ug/l

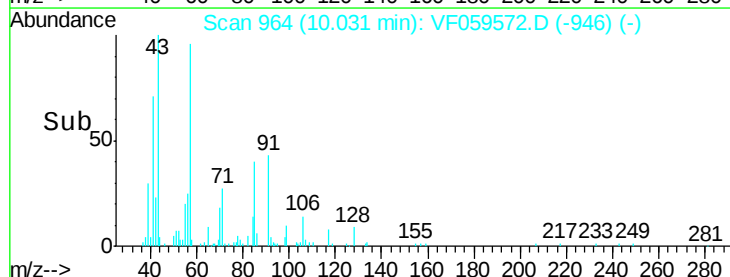
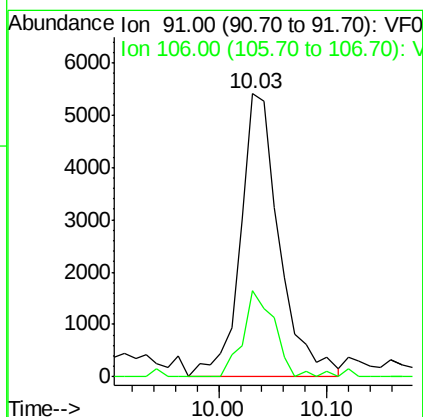
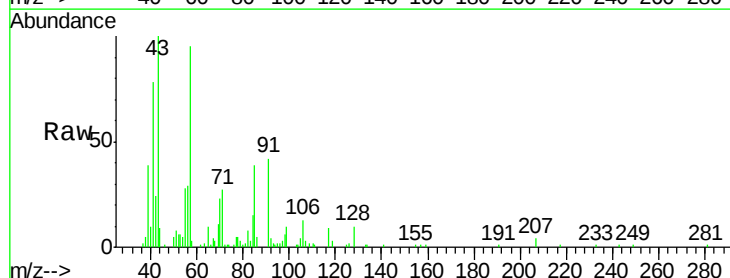
RT: 10.03 min Scan# 964

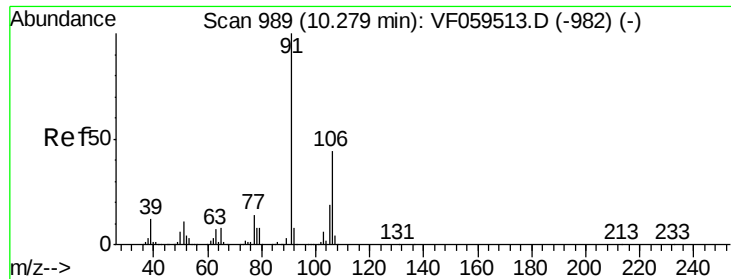
Delta R.T. -0.02 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 13550 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 30.7  | 23.4  | 35.2  |





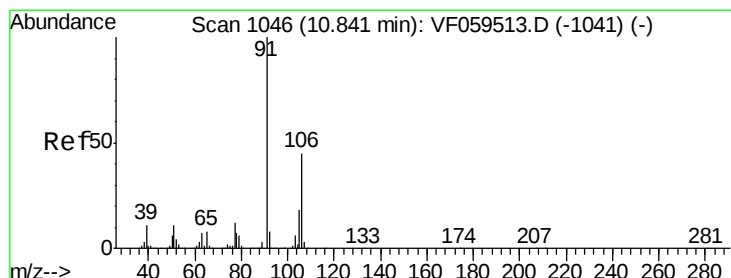
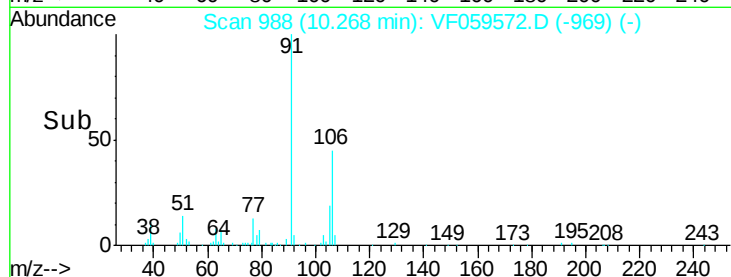
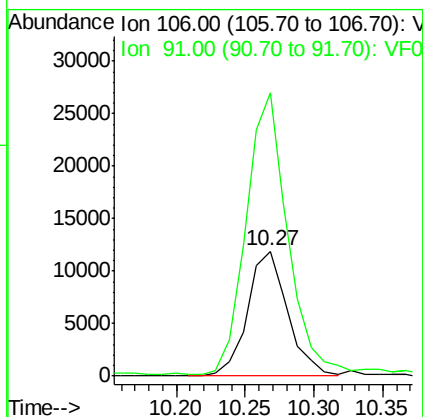
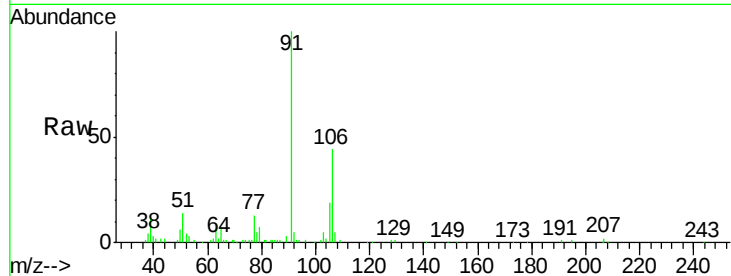
#68  
m/p-Xylenes  
Concen: 7.38 ug/l  
RT: 10.27 min Scan# 988  
Delta R.T. -0.01 min  
Lab File: VF059572.D  
Acq: 19 Jul 2018 23:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
NS-SOIL

Tot Ion:106 Resp: 24260  
Ion Ratio Lower Upper  
106 100  
91 226.3 181.0 271.4

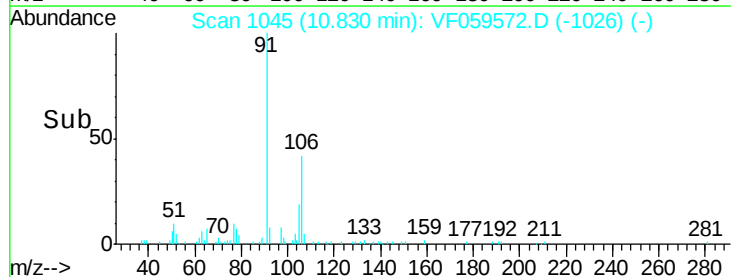
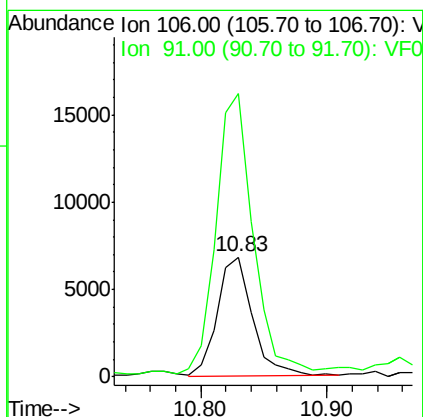
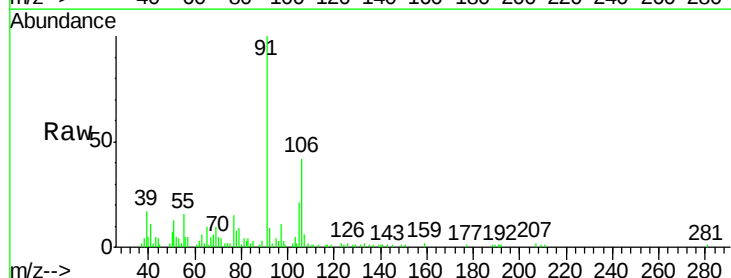
Manual Integrations  
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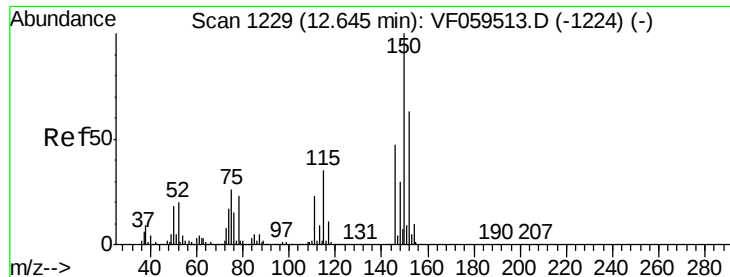
apatel  
7/20/2018 11:52:59 AM



#69  
o-Xylene  
Concen: 3.74 ug/l  
RT: 10.83 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: VF059572.D  
Acq: 19 Jul 2018 23:13

Tgt Ion:106 Resp: 13102  
Ion Ratio Lower Upper  
106 100  
91 235.7 112.3 336.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Instrument :

MSVOA\_F

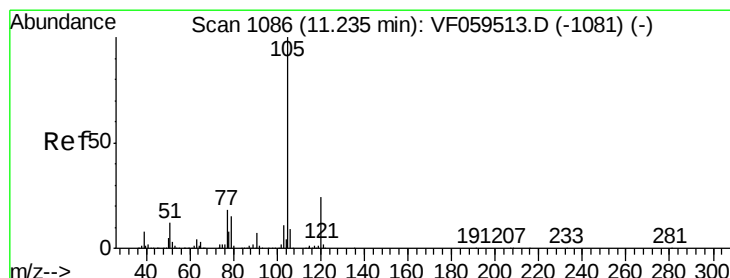
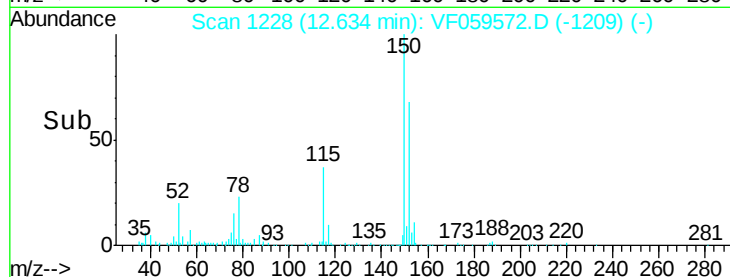
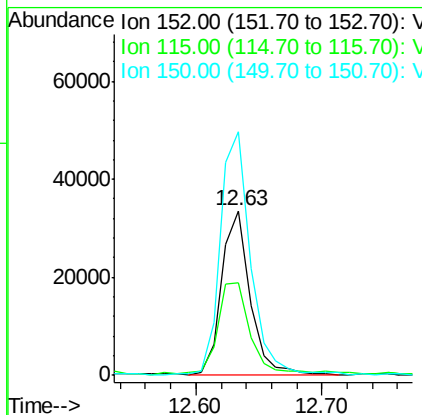
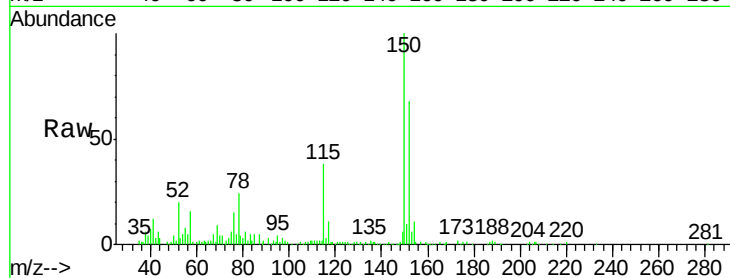
ClientSampleId :

NS-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.0  | 27.8  | 83.3  |
| 150     | 147.7 | 0.0   | 318.4 |

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#73

Isopropylbenzene

Concen: 1.38 ug/l

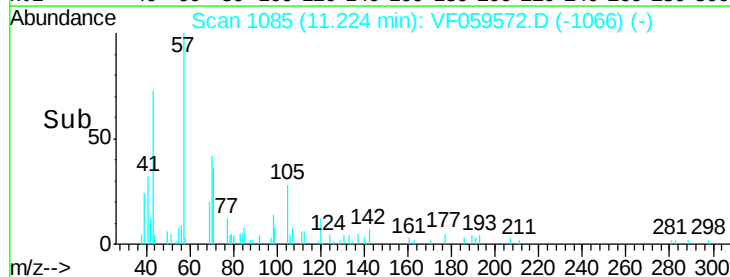
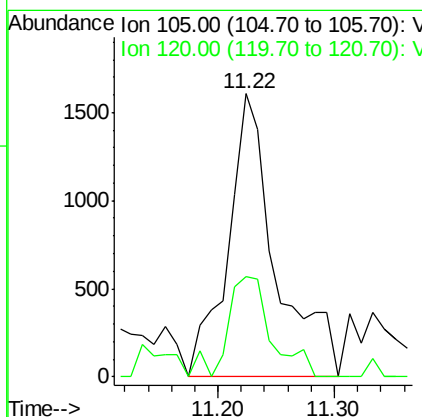
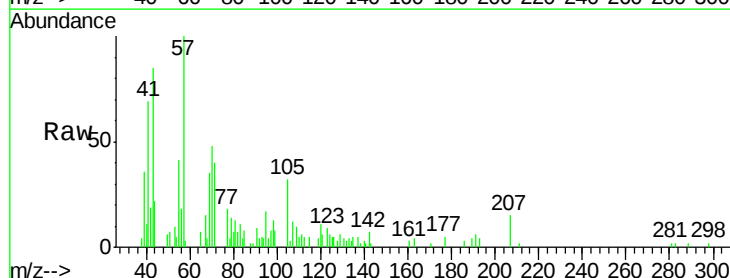
RT: 11.22 min Scan# 1085

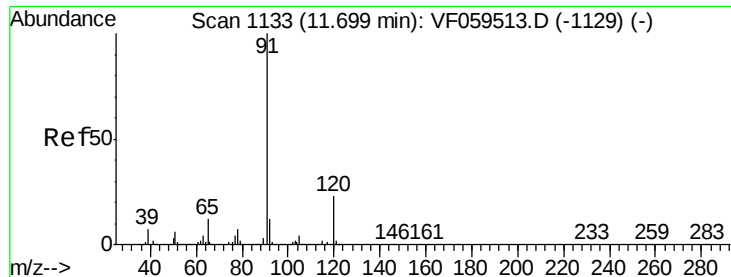
Delta R.T. -0.01 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 35.4  | 12.0  | 36.0  |





#78

n-propylbenzene

Concen: 2.33 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Instrument :

MSVOA\_F

ClientSampled :

NS-SOIL

Tot Ion: 91 Resp: 8831

Ion Ratio Lower Upper

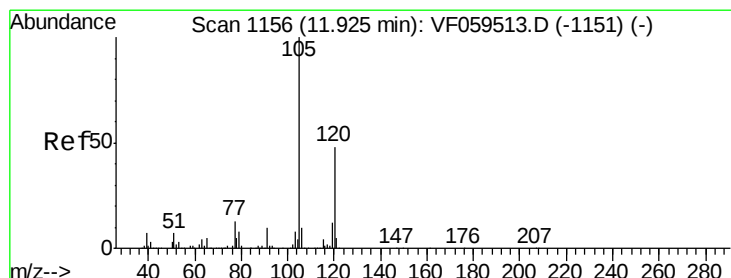
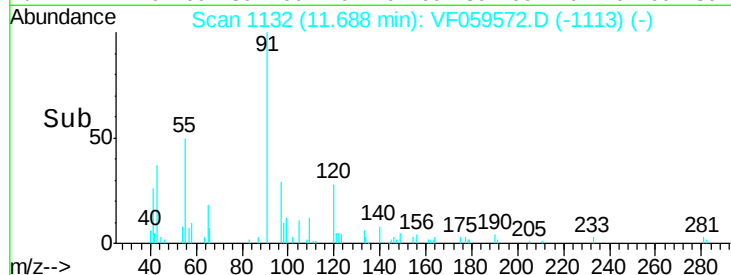
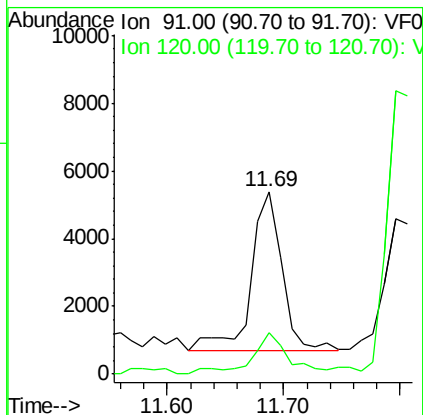
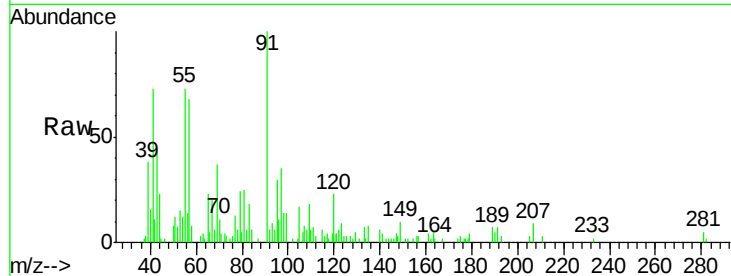
91 100

120 22.8 11.3 33.9

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#80

1,3,5-Trimethylbenzene

Concen: 9.58 ug/l

RT: 11.91 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VF059572.D

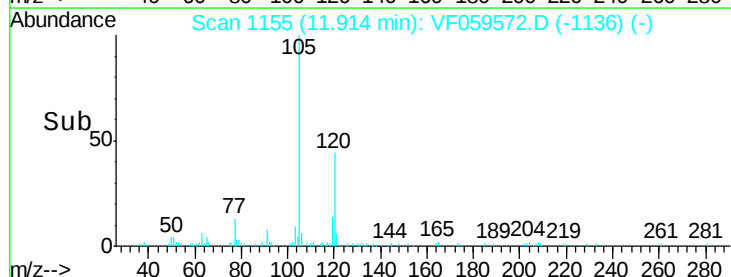
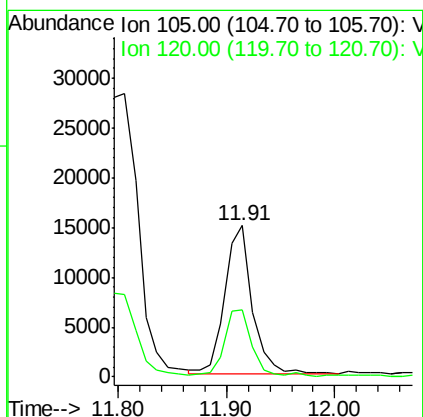
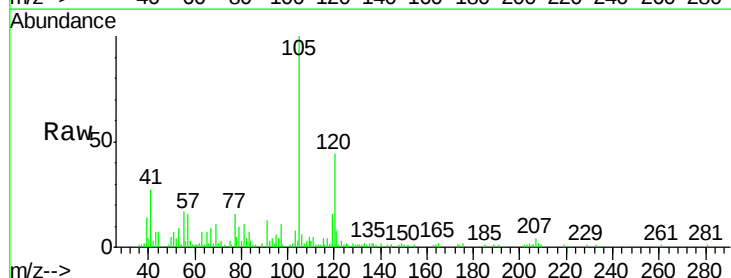
Acq: 19 Jul 2018 23:13

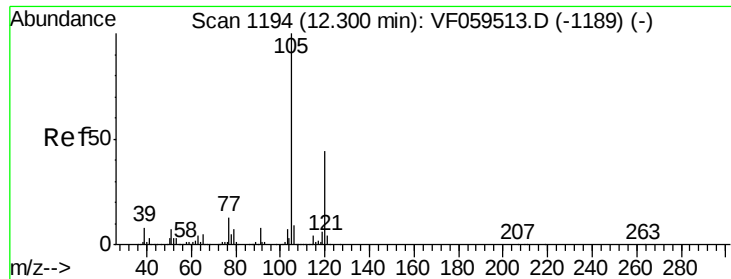
Tgt Ion: 105 Resp: 26518

Ion Ratio Lower Upper

105 100

120 44.0 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 25.11 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.01 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

Instrument :

MSVOA\_F

ClientSampleId :

NS-SOIL

Tot Ion:105 Resp: 71515

Ion Ratio Lower Upper

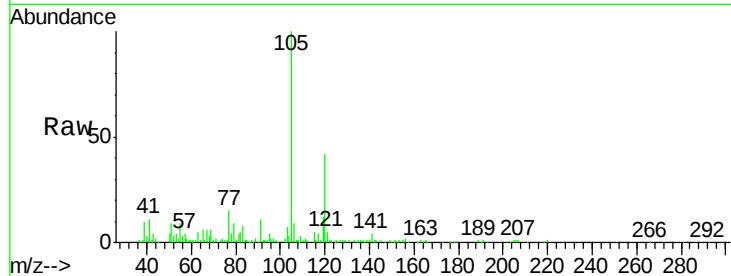
105 100

120 42.0 22.5 67.5

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.29

50000

40000

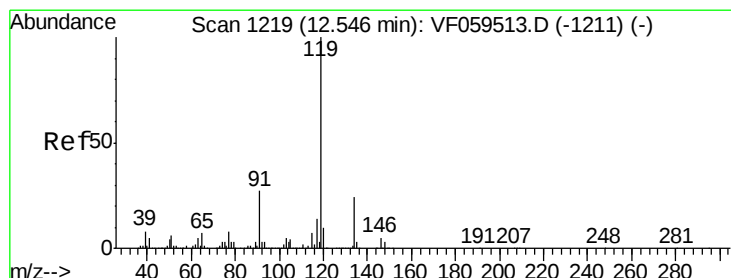
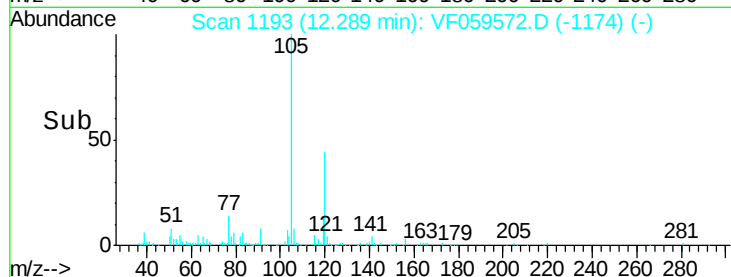
30000

20000

10000

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.64 ug/l m

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059572.D

Acq: 19 Jul 2018 23:13

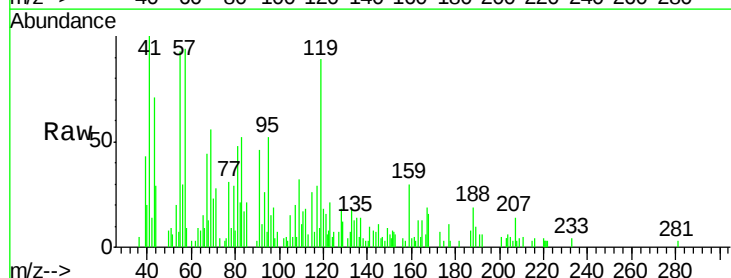
Tgt Ion:119 Resp: 4810

Ion Ratio Lower Upper

119 100

134 14.6 12.0 36.0

91 50.9 13.5 40.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

4000

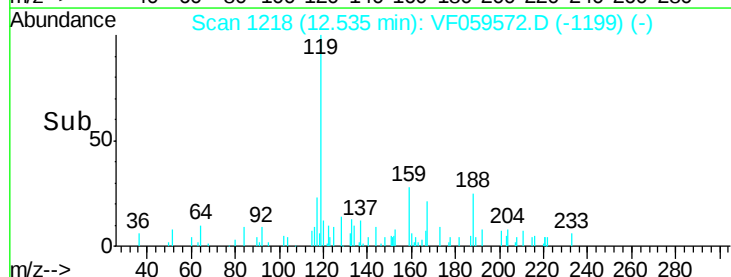
3000

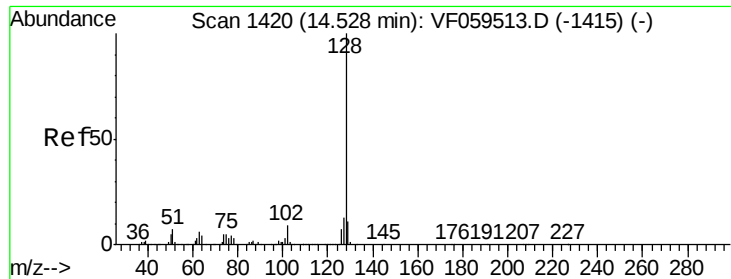
2000

1000

0

Time-->





#95  
Naphthalene  
Concen: 31.40 ug/l  
RT: 14.52 min Scan# 1419  
Delta R.T. -0.01 min  
Lab File: VF059572.D  
Acq: 19 Jul 2018 23:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
NS-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.7  | 10.2  | 15.2  |
| 129     | 11.2  | 9.0   | 13.4  |

Manual Integrations  
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