

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\  
 Data File : VN049929.D  
 Acq On : 19 Jul 2018 20:45  
 Operator : MD\SY  
 Sample : J4041-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OILY-STONES

Manual Integrations  
 APPROVED

MMDadoda  
 7/20/2018 11:08:05 AM

Quant Time: Jul 20 02:31:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071818W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 01:58:39 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response  | Conc    | Units   | Dev(Min)   |
|-----------------------------|-------|------|-----------|---------|---------|------------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 567634    | 50.00   | ug/l    | 0.00       |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 963567    | 50.00   | ug/l    | 0.00       |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 818688    | 50.00   | ug/l    | 0.00       |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 324371    | 50.00   | ug/l    | 0.00       |
| System Monitoring Compounds |       |      |           |         |         |            |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 415942    | 53.31   | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery  | =       | 106.62% |            |
| 35) Dibromofluoromethane    | 7.59  | 113  | 363096    | 44.89   | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery  | =       | 89.78%  |            |
| 50) Toluene-d8              | 10.09 | 98   | 1291440   | 43.82   | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery  | =       | 87.64%  |            |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 367951    | 36.25   | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery  | =       | 72.50%  |            |
| Target Compounds            |       |      |           |         |         |            |
| 16) Acetone                 | 3.82  | 43   | 8516989   | 4216.44 | ug/l    | Qvalue 100 |
| 18) Methyl Acetate          | 4.34  | 43   | 30952     | 4.12    | ug/l    | 99         |
| 20) Methylene Chloride      | 4.50  | 84   | 57181351m | 7443.83 | ug/l    |            |
| 43) Isopropyl Acetate       | 8.18  | 43   | 410271    | 31.92   | ug/l #  | 86         |
| 59) 2-Hexanone              | 10.77 | 43   | 20052     | 4.15    | ug/l #  | 56         |
| 95) Naphthalene             | 15.14 | 128  | 712881    | 46.72   | ug/l    | 100        |

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

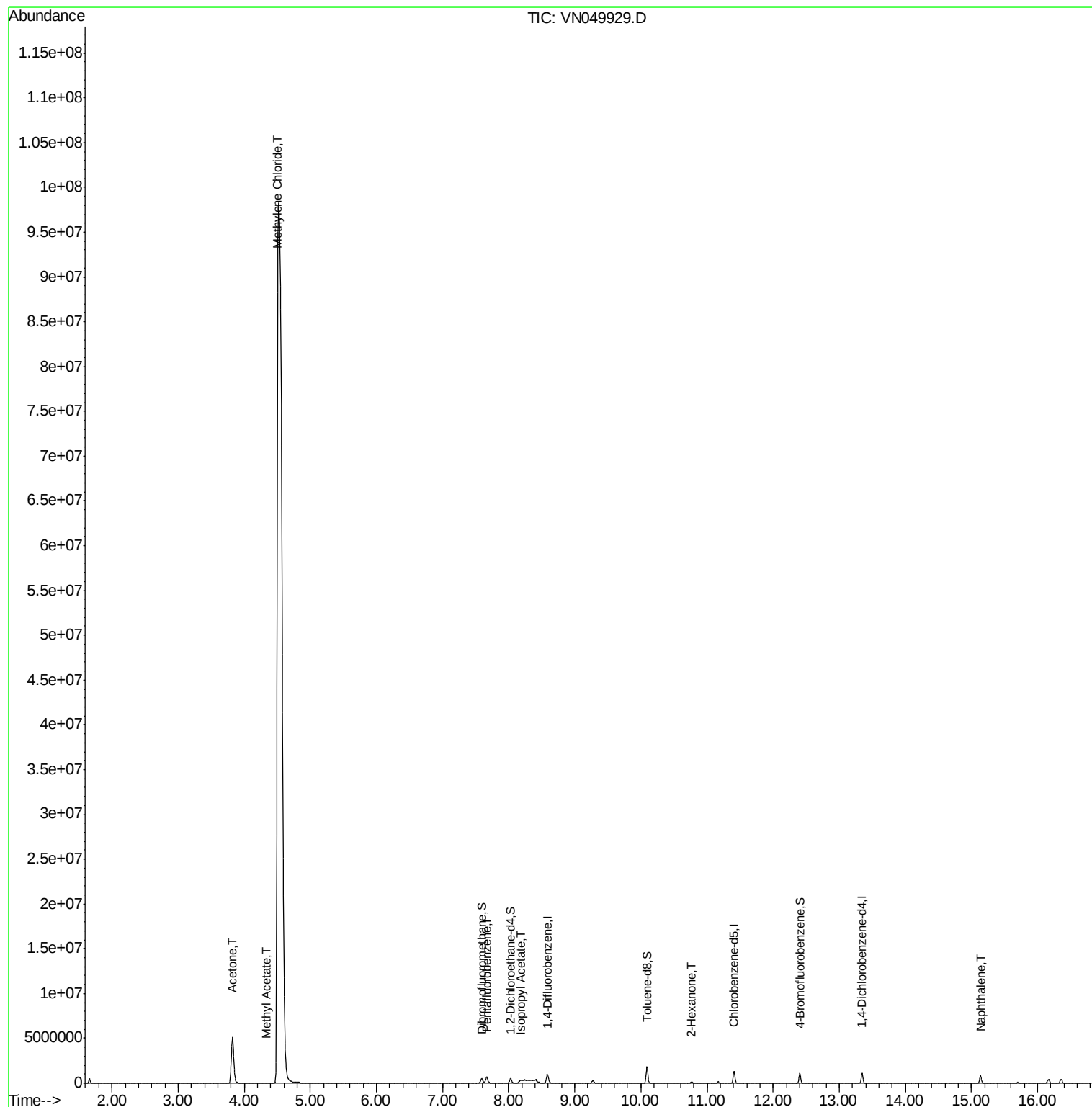
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\  
Data File : VN049929.D  
Acq On : 19 Jul 2018 20:45  
Operator : MD\SY  
Sample : J4041-02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 26 Sample Multiplier: 1

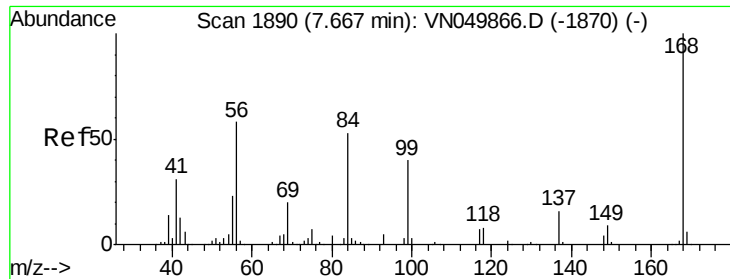
Instrument :  
MSVOA\_N  
ClientSampleId :  
OILY-STONES

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7/20/2018 11:08:05 AM

Quant Time: Jul 20 02:31:25 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071818W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 01:58:39 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

Instrument :

MSVOA\_N

ClientSampled :

OILY-STONES

Tot Ion:168 Resp: 567634

Ion Ratio Lower Upper

168 100

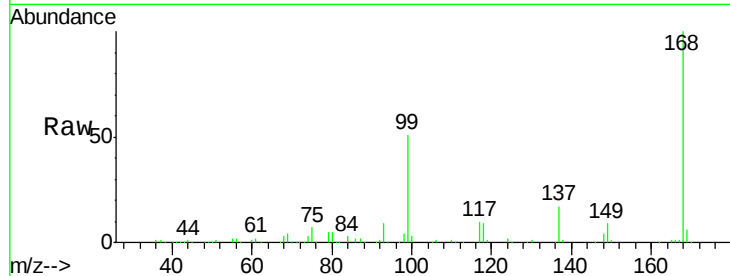
99 51.4 40.6 61.0

Manual Integrations

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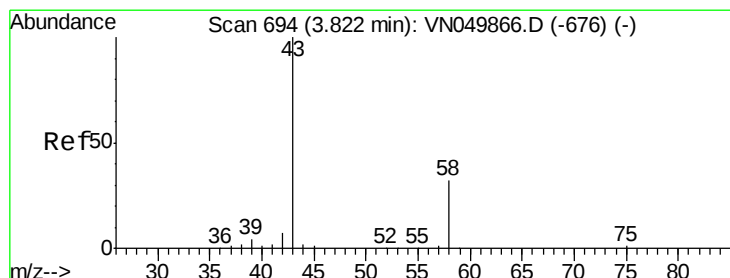
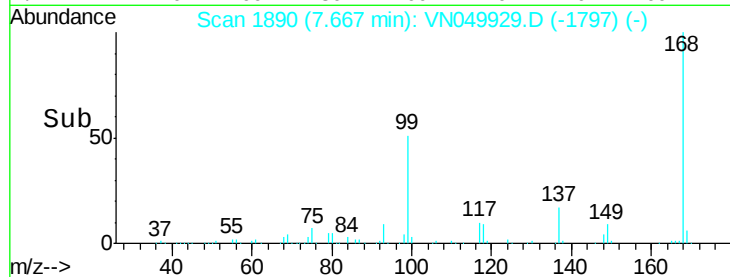
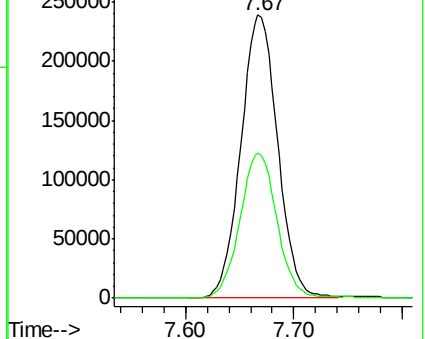
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 4216.44 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049929.D

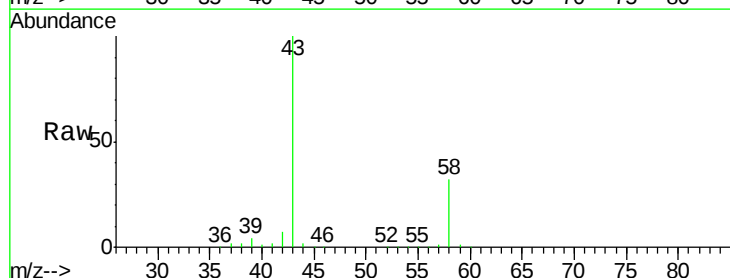
Acq: 19 Jul 2018 20:45

Tgt Ion: 43 Resp: 8516989

Ion Ratio Lower Upper

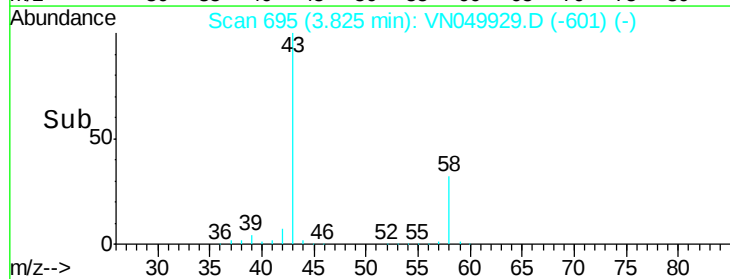
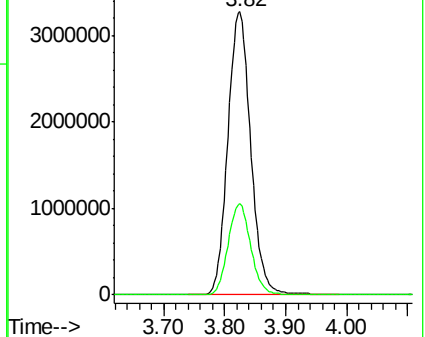
43 100

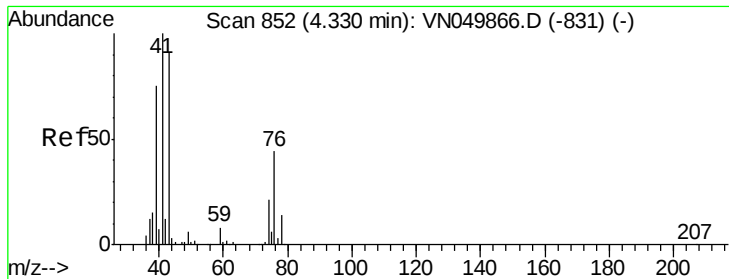
58 32.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methvl Acetate

Concen: 4.12 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

Instrument :

MSVOA\_N

ClientSampleId :

OILY-STONES

Tot Ion: 43 Resp: 30952

Ion Ratio Lower Upper

43 100

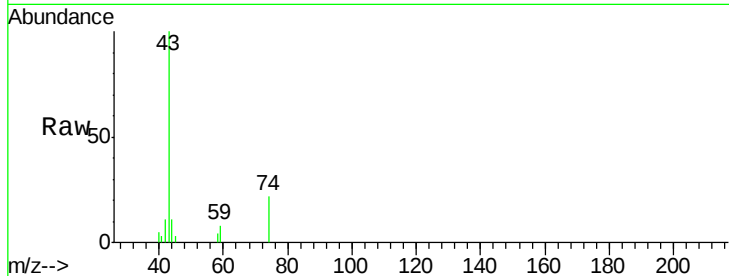
74 24.3 19.8 29.8

Manual Integrations

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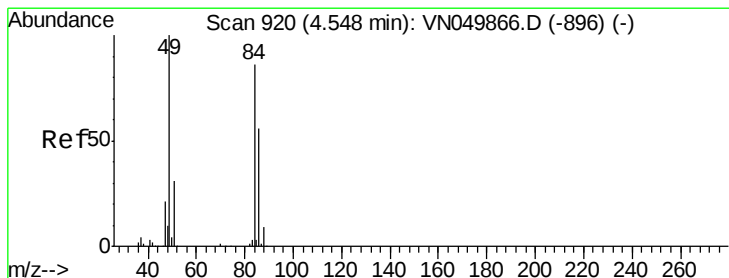
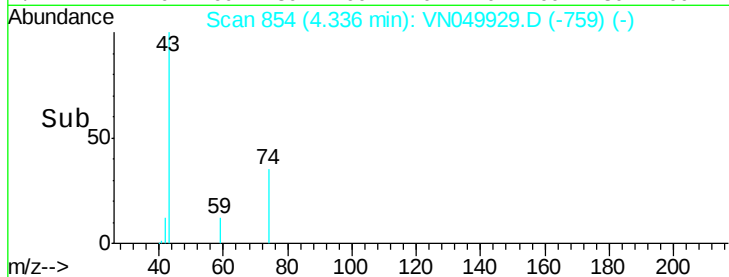
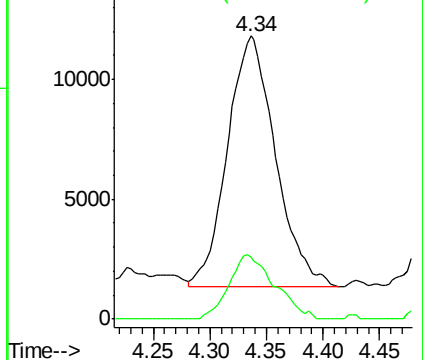
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Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC



#20

Methylene Chloride

Concen: 7443.83 ug/l m

RT: 4.50 min Scan# 904

Delta R.T. -0.05 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

Tgt Ion: 84 Resp: 57181351

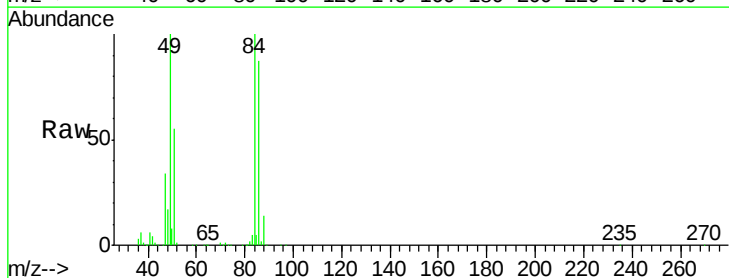
Ion Ratio Lower Upper

84 100

49 100.0 95.4 143.2

51 55.4 28.4 42.6#

86 87.1 52.6 79.0#

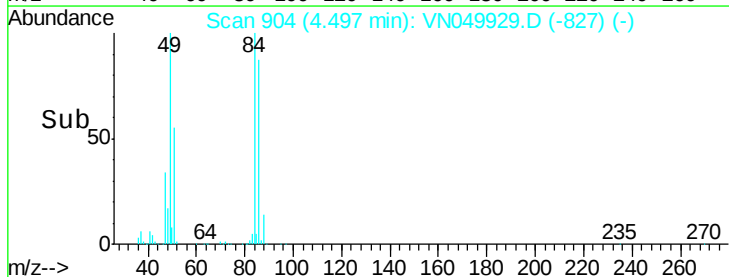
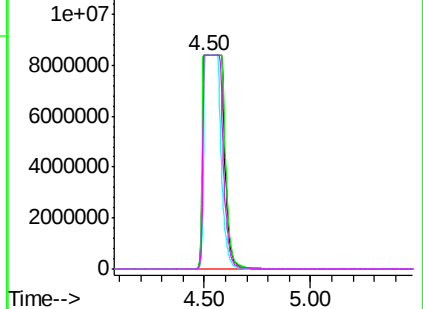


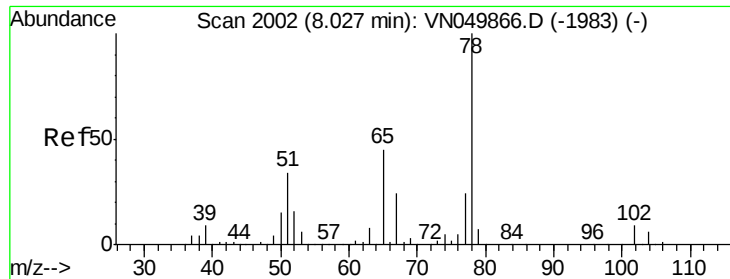
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC





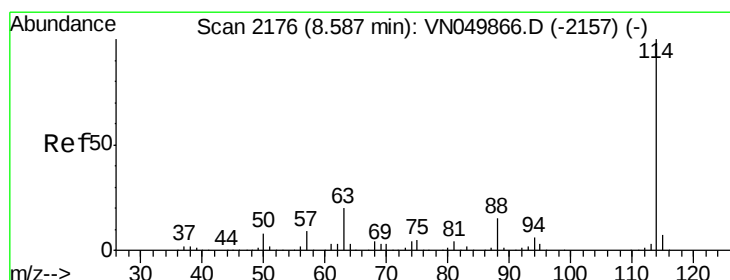
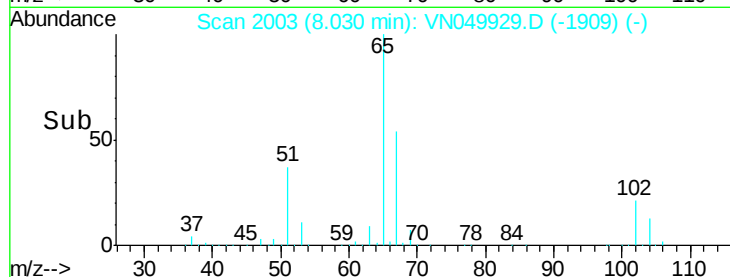
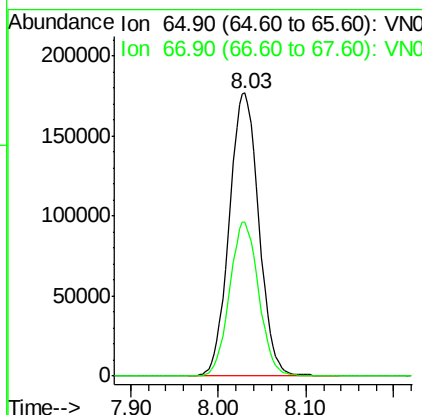
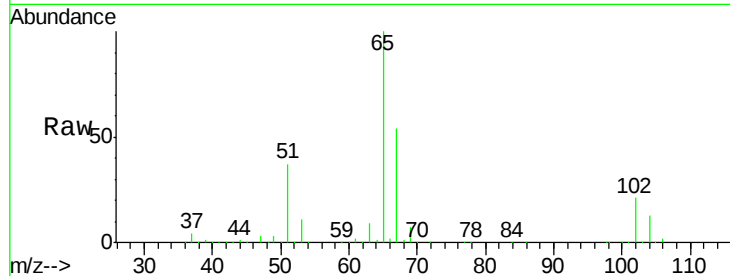
#33  
 1,2-Dichloroethane-d4  
 Concen: 53.31 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN049929.D  
 Acq: 19 Jul 2018 20:45

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OILY-STONES

Tot Ion: 65 Resp: 415942  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 107.2

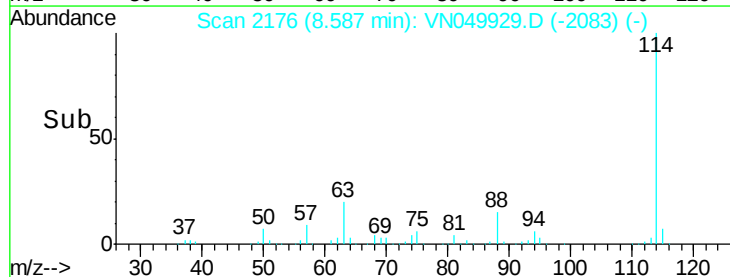
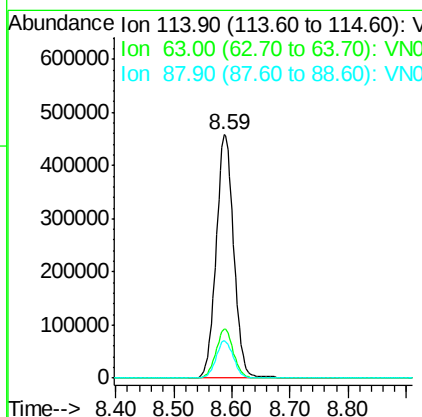
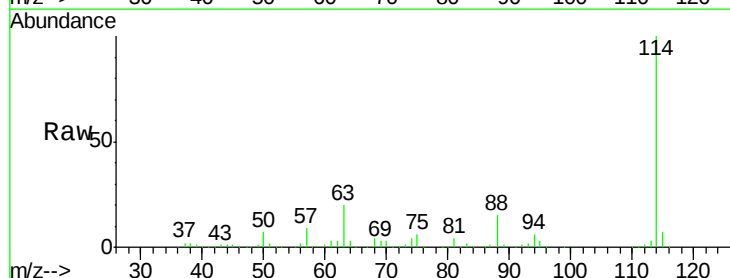
Manual Integrations  
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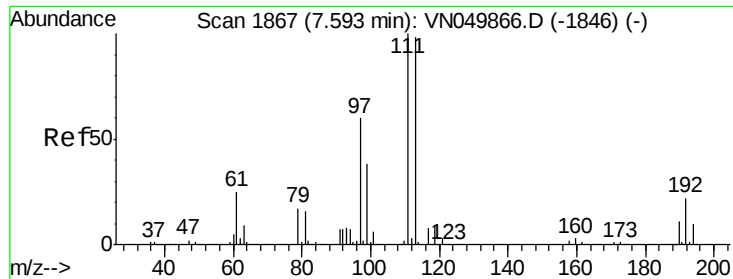
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#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VN049929.D  
 Acq: 19 Jul 2018 20:45

Tgt Ion: 114 Resp: 963567  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 39.8  
 88 15.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 44.89 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

Instrument :

MSVOA\_N

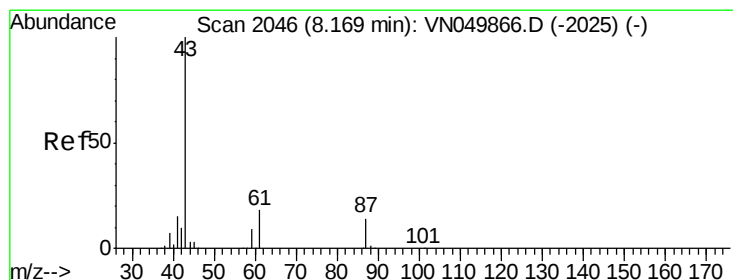
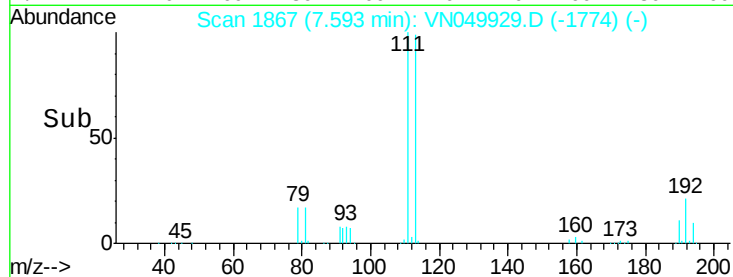
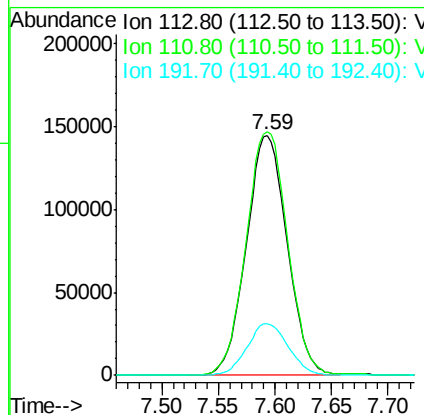
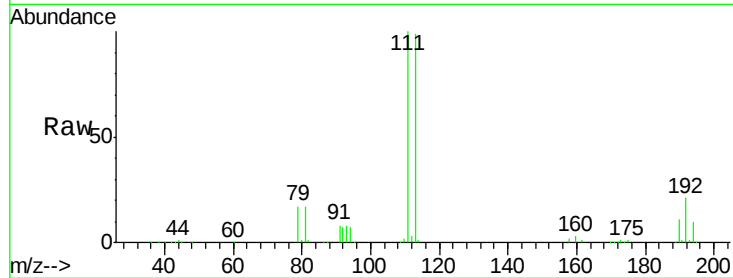
ClientSampled :

OILY-STONES

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 363096 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 103.3 | 81.8  | 122.8  |
| 192       | 21.9  | 17.8  | 26.6   |

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#43

Isopropyl Acetate

Concen: 31.92 ug/l

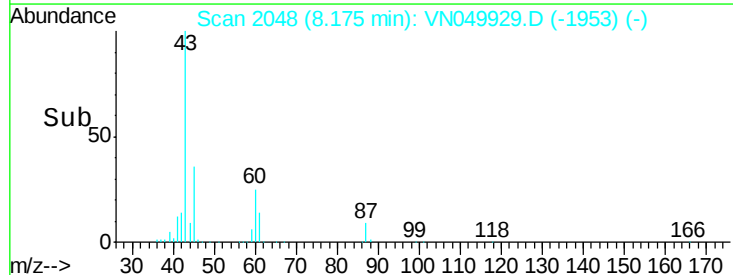
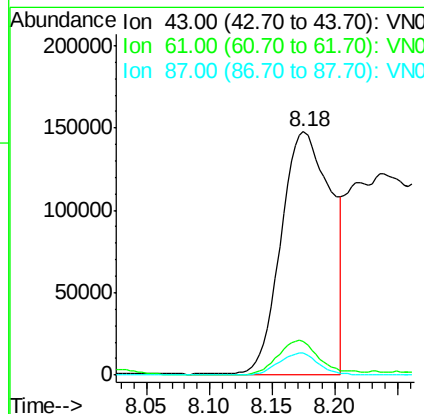
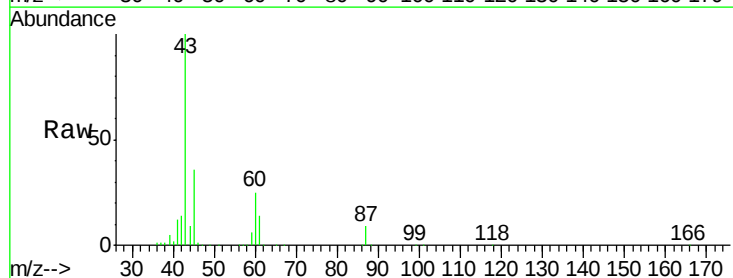
RT: 8.18 min Scan# 2048

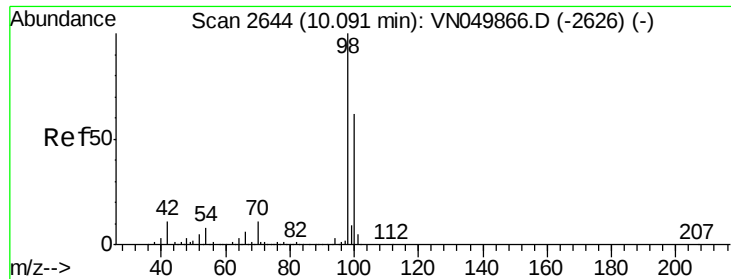
Delta R.T. 0.01 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 410271 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 12.0  | 14.9  | 22.3#  |
| 87        | 7.2   | 10.0  | 15.0#  |





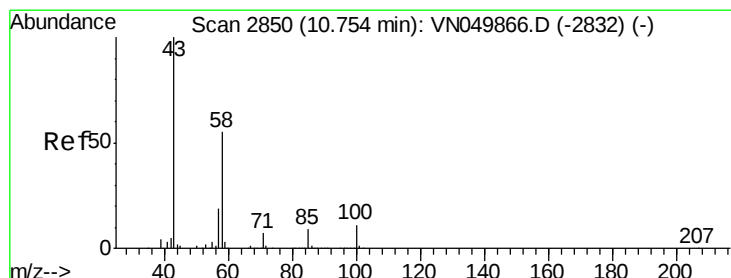
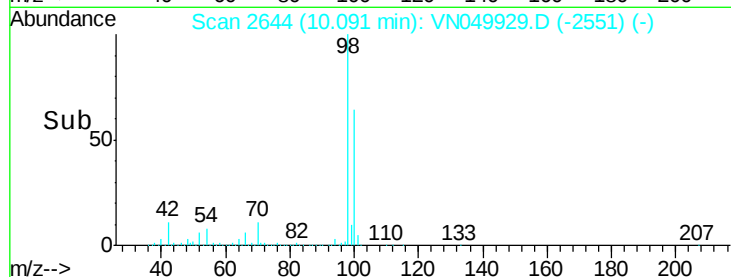
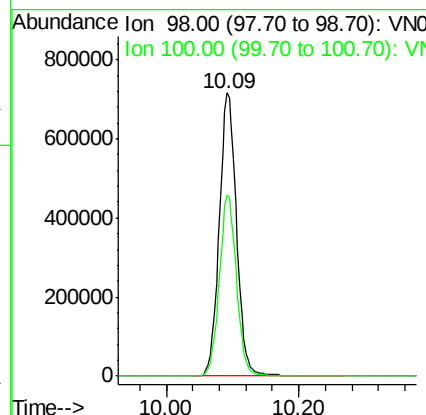
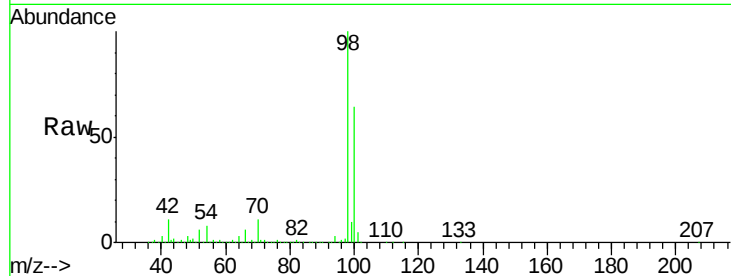
#50  
Toluene-d8  
Concen: 43.82 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VN049929.D  
Acq: 19 Jul 2018 20:45

Instrument :  
MSVOA\_N  
ClientSampled :  
OILY-STONES

Tot Ion: 98 Resp: 1291440  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.7 77.5

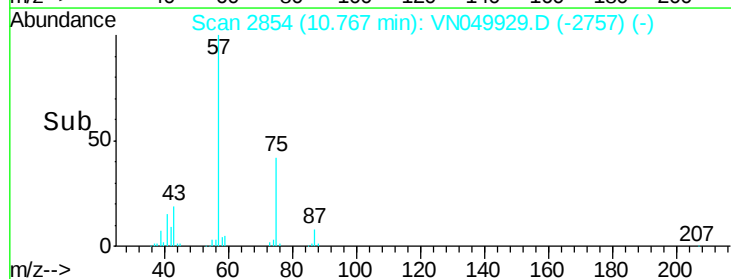
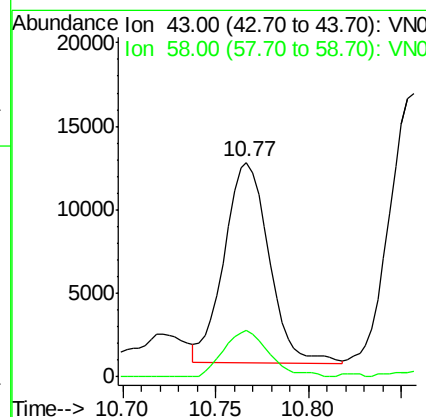
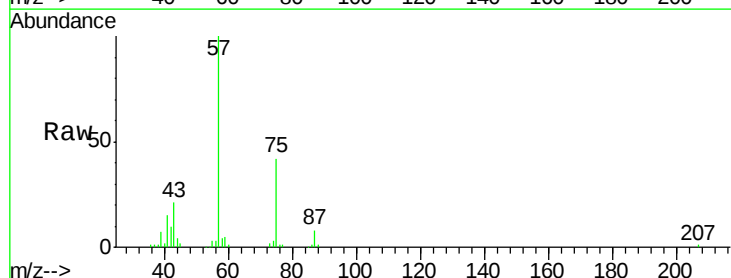
Manual Integrations  
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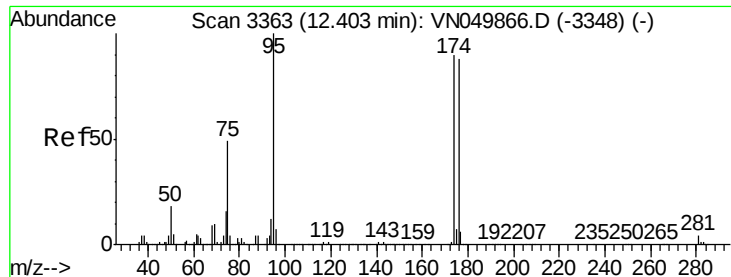
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#59  
2-Hexanone  
Concen: 4.15 ug/l  
RT: 10.77 min Scan# 2854  
Delta R.T. 0.01 min  
Lab File: VN049929.D  
Acq: 19 Jul 2018 20:45

Tgt Ion: 43 Resp: 20052  
Ion Ratio Lower Upper  
43 100  
58 23.4 27.8 83.4#





#62

4-Bromofluorobenzene

Concen: 36.25 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

Instrument :

MSVOA\_N

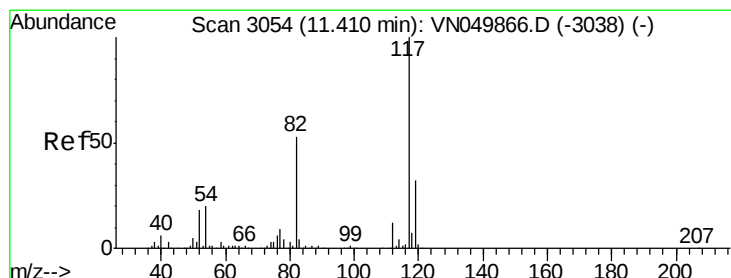
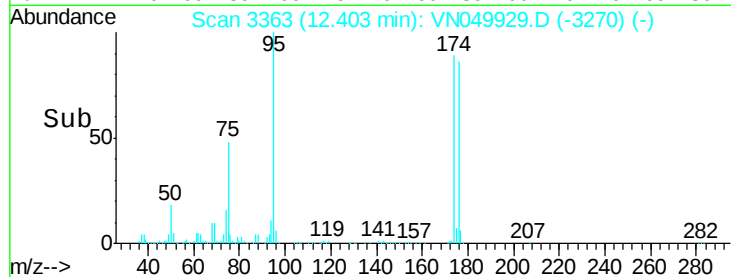
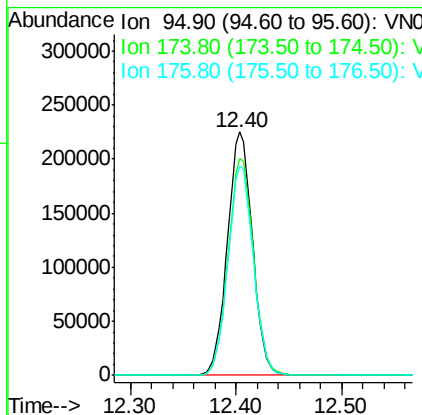
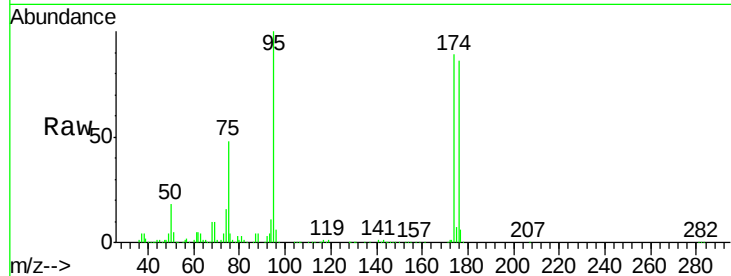
ClientSampleId :

OILY-STONES

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 367951 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 90.9  | 0.0   | 179.6  |
| 176       | 86.9  | 0.0   | 174.0  |

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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

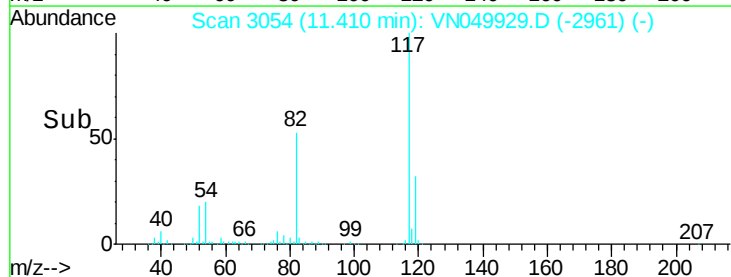
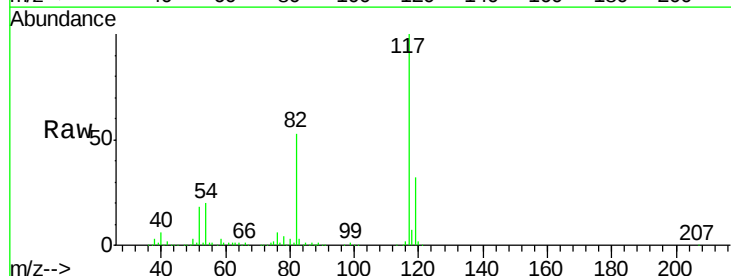
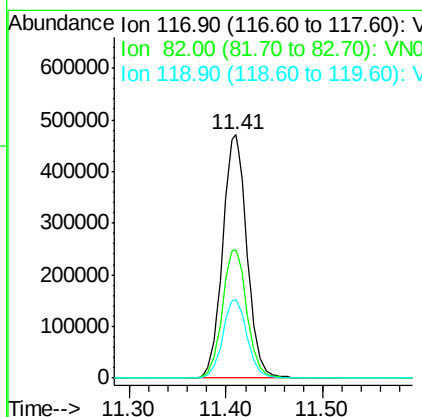
RT: 11.41 min Scan# 3054

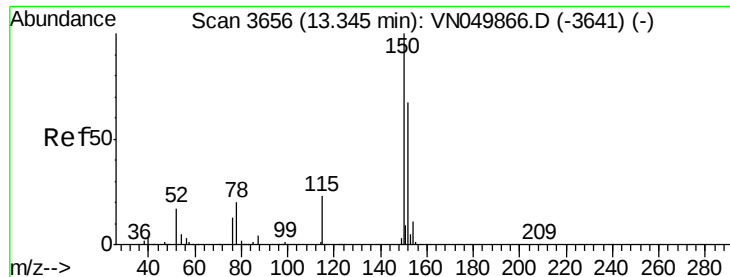
Delta R.T. 0.00 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 818688 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 52.9  | 41.9  | 62.9   |
| 119       | 32.3  | 25.4  | 38.2   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

Instrument :

MSVOA\_N

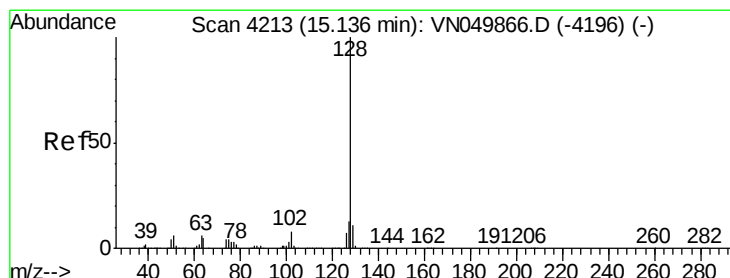
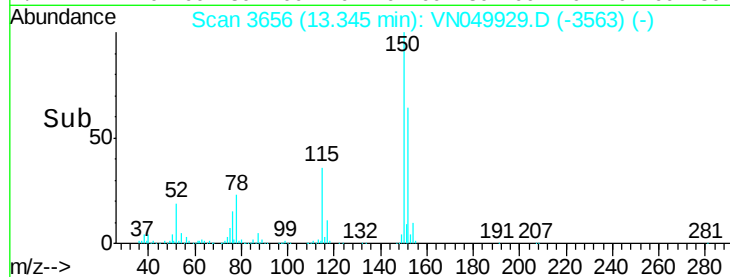
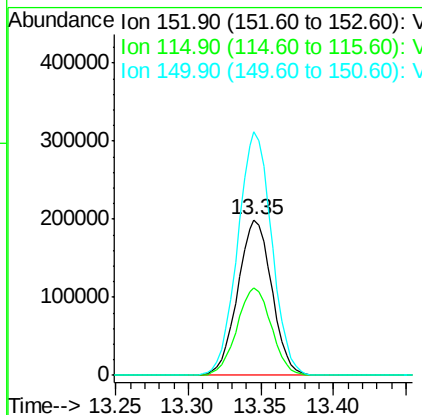
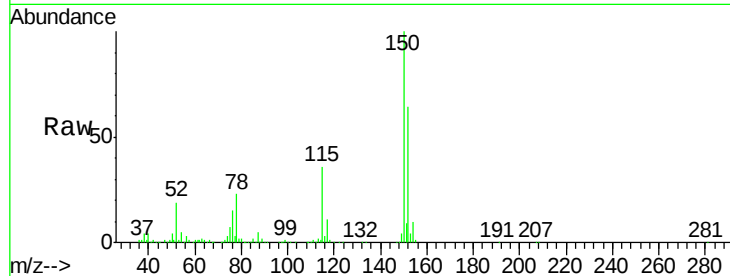
ClientSampleId :

OILY-STONES

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 324371 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 56.6  | 28.1  | 84.2   |
| 150       | 156.8 | 0.0   | 347.6  |

Manual Integrations  
APPROVED

MMDadoda  
7/20/2018 11:08:05 AM



#95

Naphthalene

Concen: 46.72 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049929.D

Acq: 19 Jul 2018 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 712881 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.1  | 10.4  | 15.6   |
| 129       | 10.9  | 8.6   | 13.0   |

