

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092018\  
 Data File : VN051346.D  
 Acq On : 20 Sep 2018 18:06  
 Operator : MD\SY  
 Sample : J5018-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WASTE-TANK-9-19-18

Manual Integrations  
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 9/24/2018 2:48:20 PM

Quant Time: Sep 21 07:04:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092018W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 03:27:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 850565   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1210468  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1051763  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 453747   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 455493   | 49.41 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.82% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 446266   | 45.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.24% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1719109  | 45.71 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.42% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 485973   | 39.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.44% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                | 3.82  | 43   | 21845    | 11.535 | ug/l   | 95     |
| 17) Carbon Disulfide       | 4.05  | 76   | 46872    | 1.955  | ug/l   | 98     |
| 20) Methylene Chloride     | 4.55  | 84   | 10276    | 1.084  | ug/l # | 82     |
| 25) 2-Butanone             | 6.85  | 43   | 15772    | 5.988  | ug/l   | 91     |
| 27) cis-1,2-Dichloroethene | 6.83  | 96   | 75761    | 8.136  | ug/l   | 88     |
| 29) Tetrahydrofuran        | 7.23  | 42   | 2857m    | 1.712  | ug/l   |        |
| 30) Chloroform             | 7.37  | 83   | 60729    | 3.827  | ug/l   | 94     |
| 40) Benzene                | 8.04  | 78   | 62195    | 1.667  | ug/l   | 99     |
| 44) Trichloroethene        | 8.84  | 130  | 93905    | 8.768  | ug/l   | 99     |
| 52) Toluene                | 10.16 | 92   | 7915     | 0.345  | ug/l   | 94     |
| 64) Tetrachloroethene      | 10.63 | 164  | 304701   | 33.222 | ug/l   | 98     |
| 89) n-Butylbenzene         | 13.62 | 91   | 6361     | 0.293  | ug/l   | 93     |
| 95) Naphthalene            | 15.13 | 128  | 11740    | 0.974  | ug/l   | 98     |

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

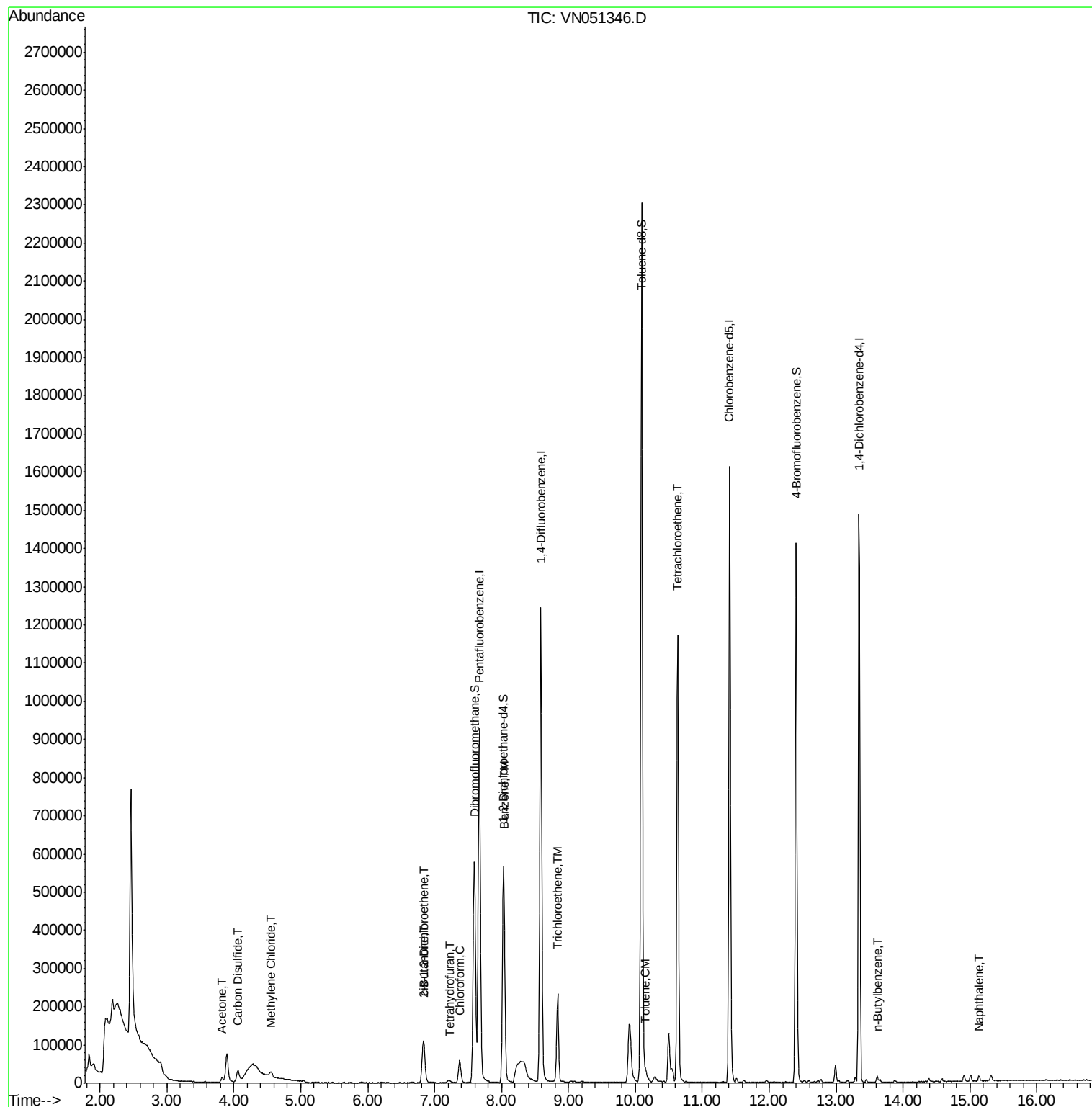
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092018\  
Data File : VN051346.D  
Acq On : 20 Sep 2018 18:06  
Operator : MD\SY  
Sample : J5018-01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

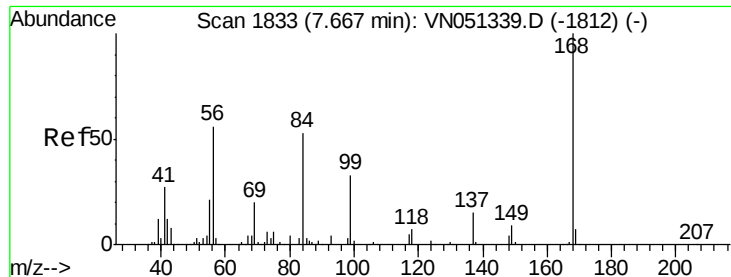
Instrument :  
MSVOA\_N  
ClientSampleId :  
WASTE-TANK-9-19-18

Manual Integrations  
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Quant Time: Sep 21 07:04:38 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N092018W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 03:27:45 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Instrument :

MSVOA\_N

ClientSampleId :

WASTE-TANK-9-19-18

Tot Ion:168 Resp: 850565

Ion Ratio Lower Upper

168 100

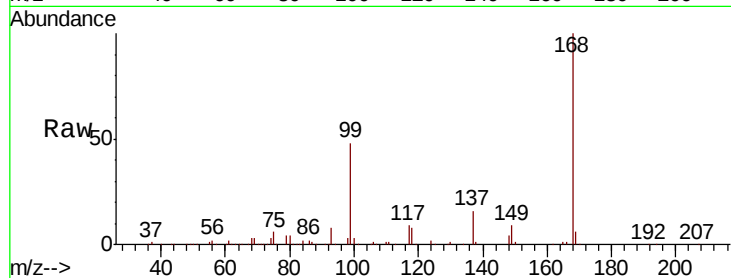
99 47.5 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

400000

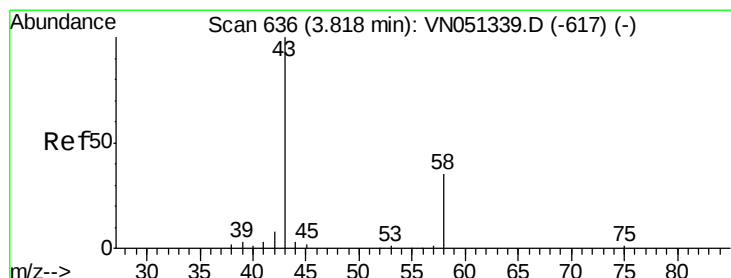
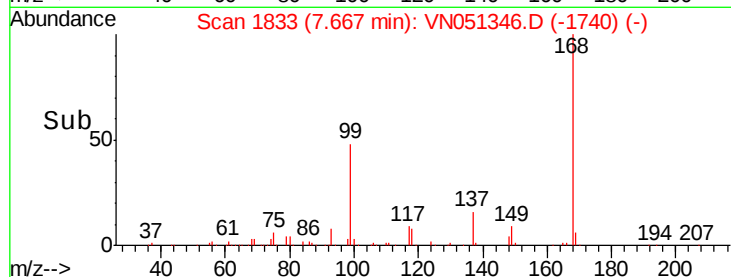
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 11.535 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051346.D

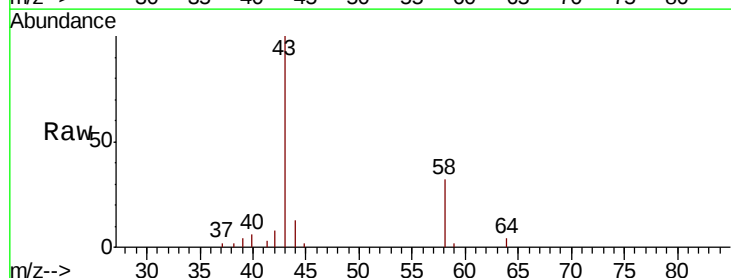
Acq: 20 Sep 2018 18:06

Tgt Ion: 43 Resp: 21845

Ion Ratio Lower Upper

43 100

58 32.2 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN051346.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN051346.D (-543) (-)

3.82

8000

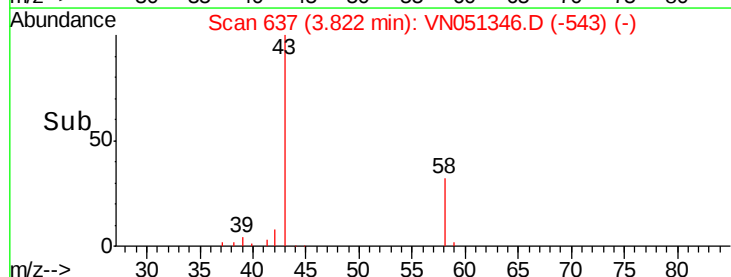
6000

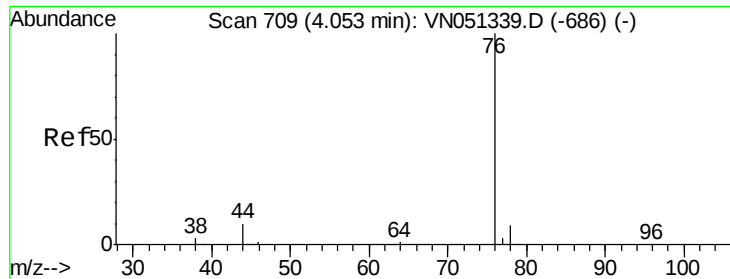
4000

2000

0

Time-->





#17

Carbon Disulfide

Concen: 1.955 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Instrument :

MSVOA\_N

ClientSampleId :

WASTE-TANK-9-19-18

Tot Ion: 76 Resp: 46872

Ion Ratio Lower Upper

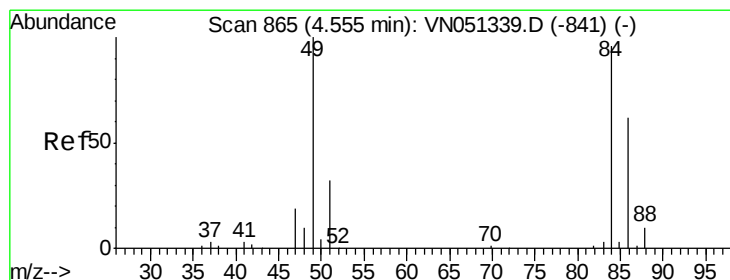
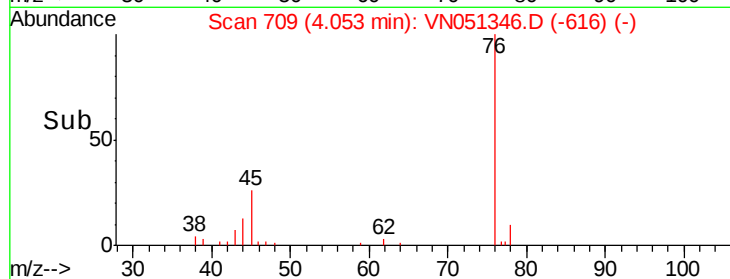
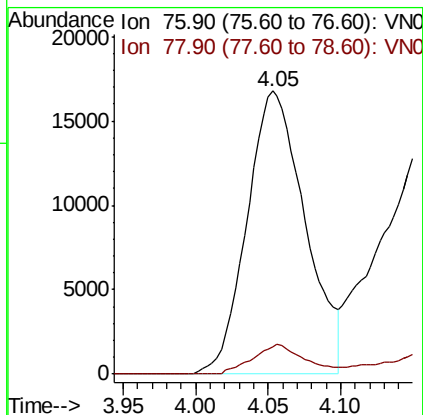
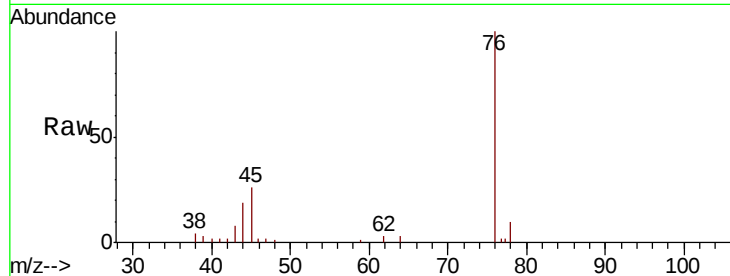
76 100

78 9.6 7.0 10.6

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#20

Methylene Chloride

Concen: 1.084 ug/l

RT: 4.55 min Scan# 863

Delta R.T. -0.01 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Tgt Ion: 84 Resp: 10276

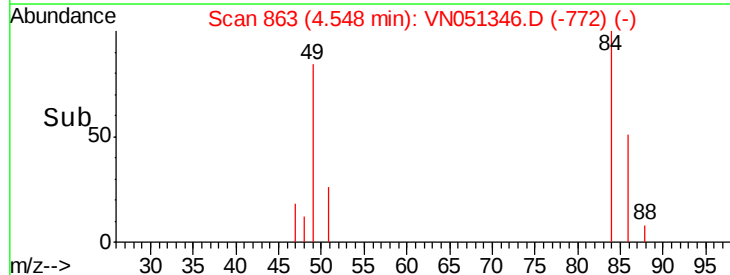
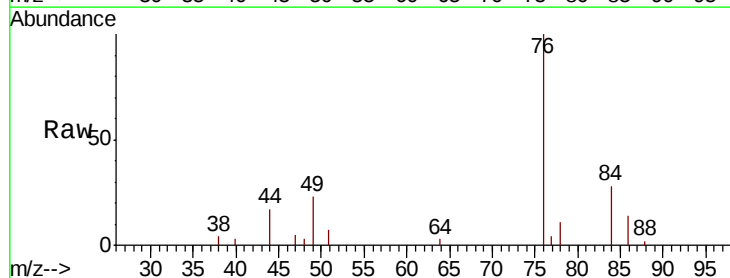
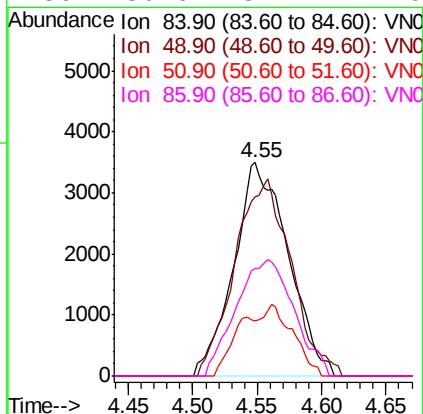
Ion Ratio Lower Upper

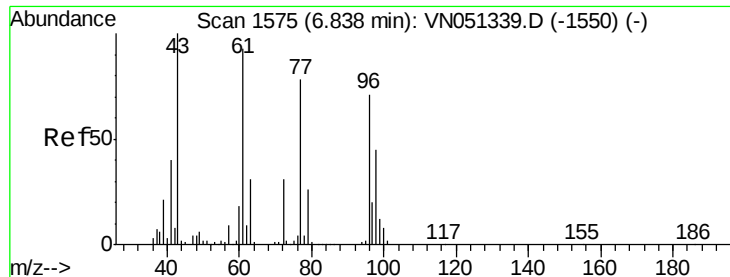
84 100

49 83.8 83.2 124.8

51 25.7 26.4 39.6#

86 50.6 51.4 77.0#





#25

2-Butanone

Concen: 5.988 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Instrument :

MSVOA\_N

ClientSampleId :

WASTE-TANK-9-19-18

Tot Ion: 43 Resp: 15772

Ion Ratio Lower Upper

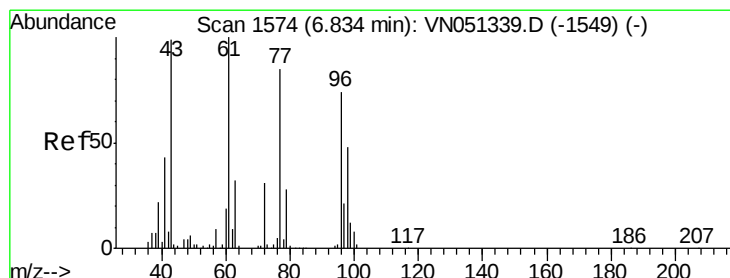
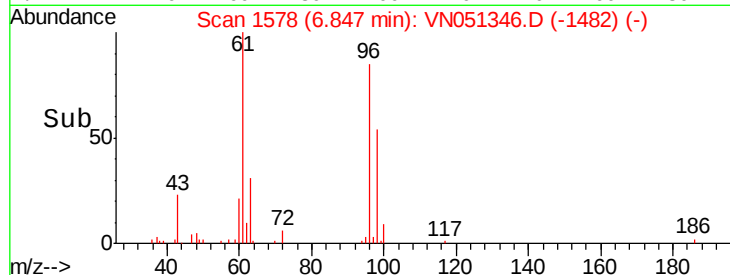
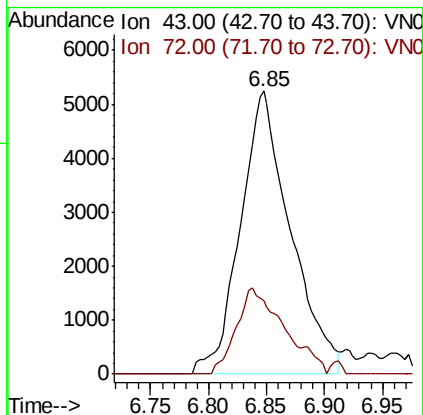
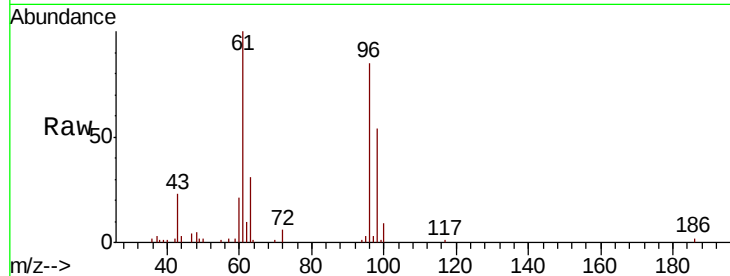
43 100

72 25.9 24.7 37.1

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#27

cis-1,2-Dichloroethene

Concen: 8.136 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

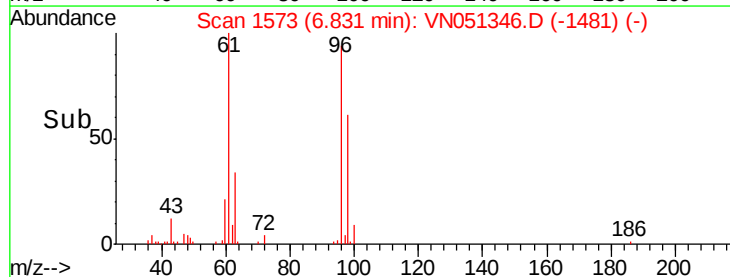
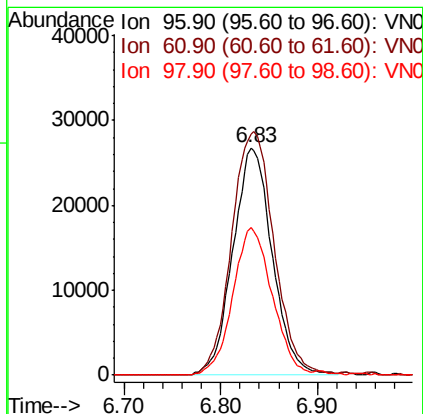
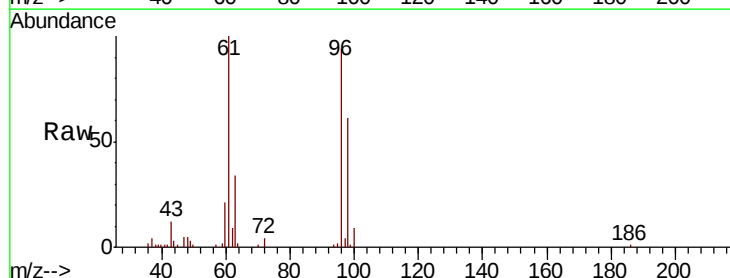
Tgt Ion: 96 Resp: 75761

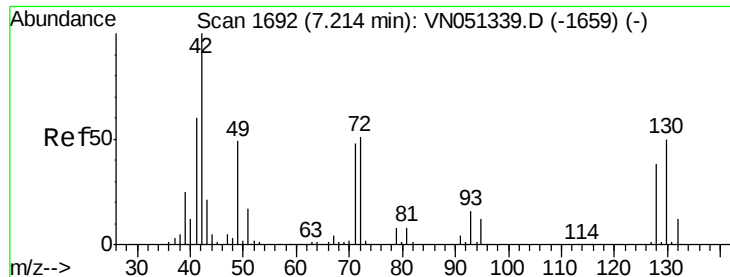
Ion Ratio Lower Upper

96 100

61 115.4 0.0 271.2

98 64.9 0.0 131.2





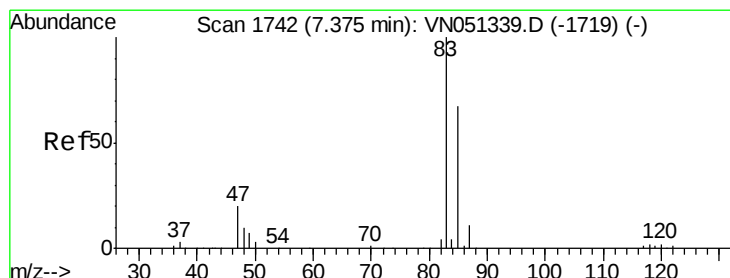
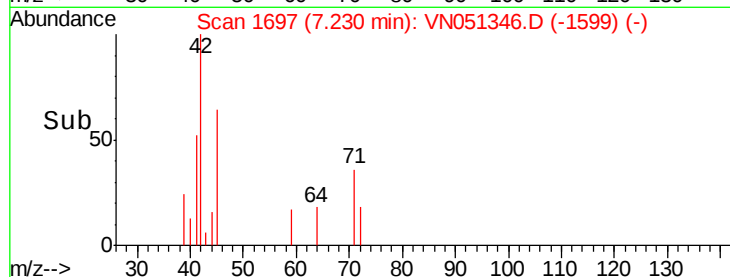
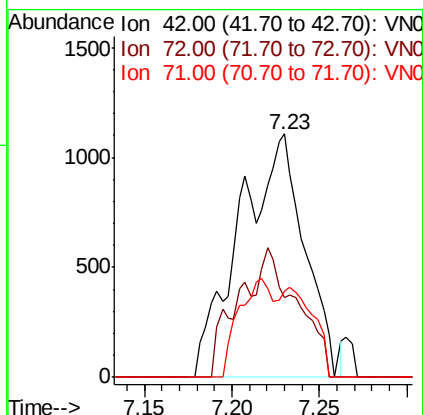
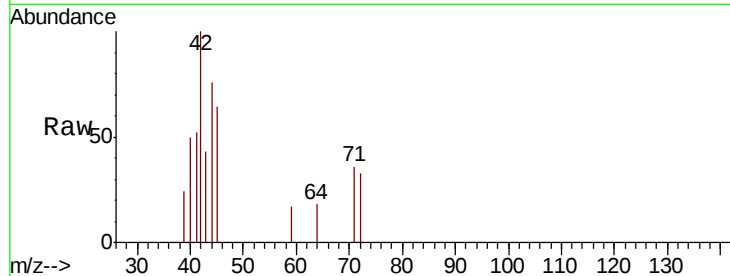
#29  
Tetrahydrofuran  
Concen: 1.712 ug/l m  
RT: 7.23 min Scan# 1697  
Delta R.T. 0.02 min  
Lab File: VN051346.D  
Acq: 20 Sep 2018 18:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
WASTE-TANK-9-19-18

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 32.0  | 39.0  | 58.4# |
| 71      | 20.7  | 36.5  | 54.7# |

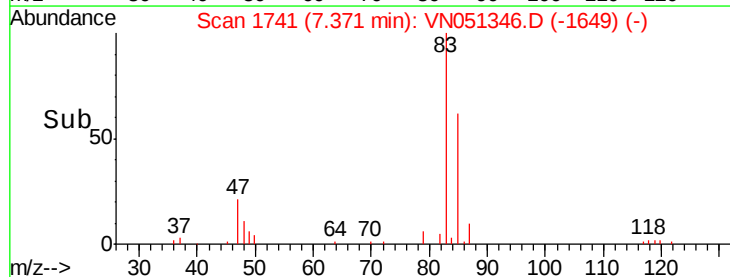
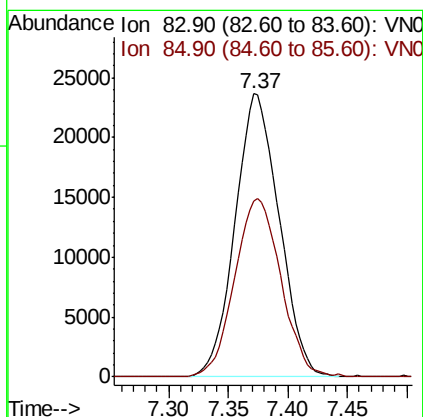
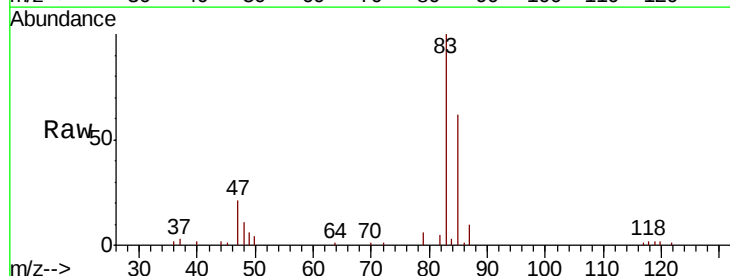
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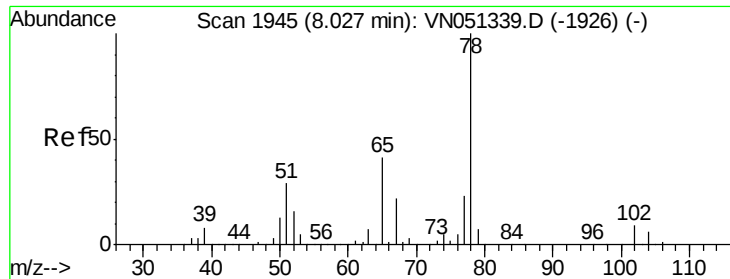
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#30  
Chloroform  
Concen: 3.827 ug/l  
RT: 7.37 min Scan# 1741  
Delta R.T. -0.00 min  
Lab File: VN051346.D  
Acq: 20 Sep 2018 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 61.9  | 53.2  | 79.8  |





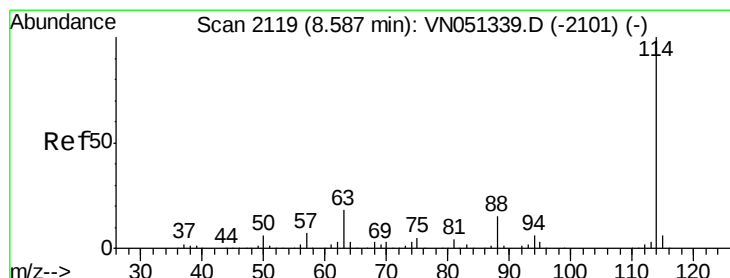
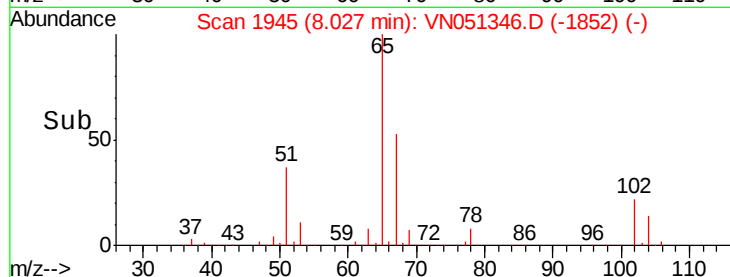
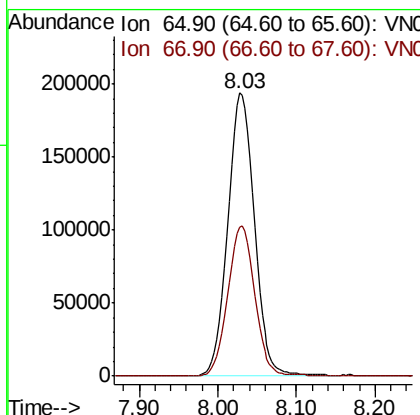
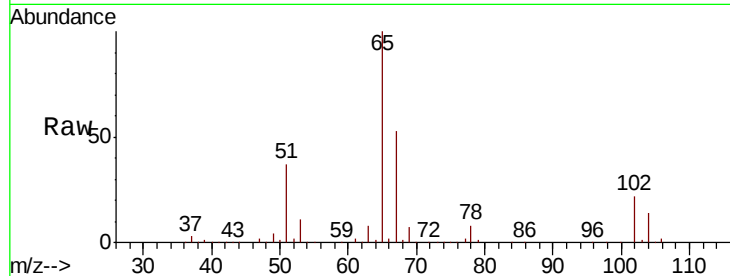
#33  
 1,2-Dichloroethane-d4  
 Concen: 49.409 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN051346.D  
 Acq: 20 Sep 2018 18:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WASTE-TANK-9-19-18

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 455493 |       |       |
| 67      | 53.9  | 0.0    | 108.8 |       |

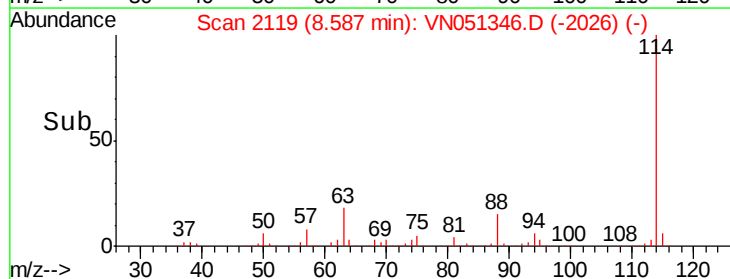
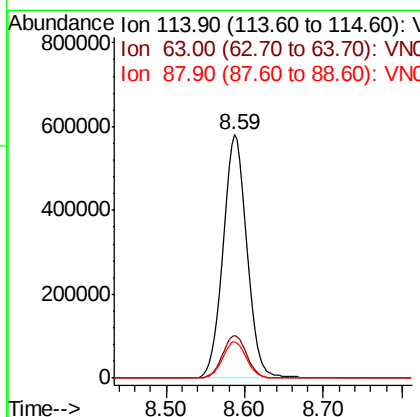
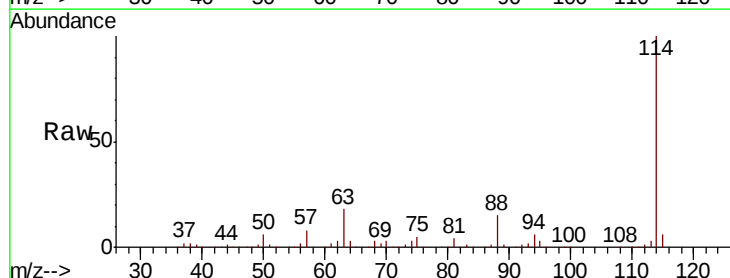
Manual Integrations  
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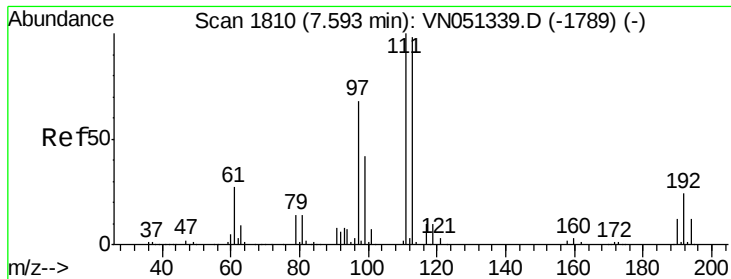
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN051346.D  
 Acq: 20 Sep 2018 18:06

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 114     | 100   | 1210468 |       |       |
| 63      | 17.7  | 0.0     | 36.6  |       |
| 88      | 15.0  | 0.0     | 29.8  |       |





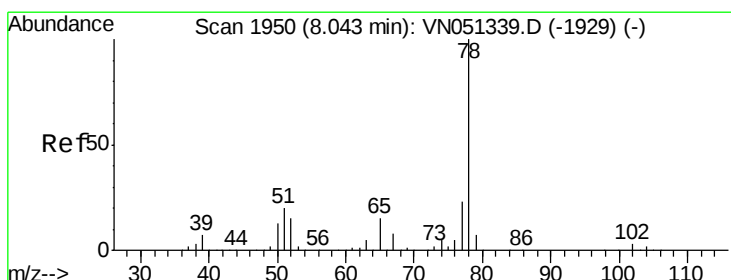
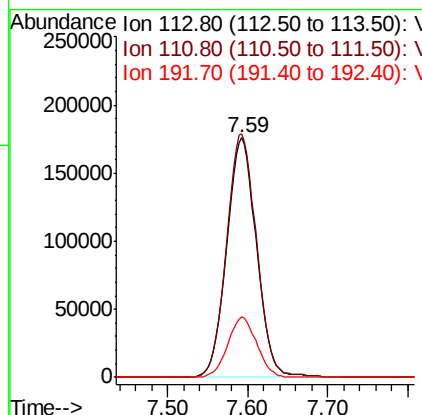
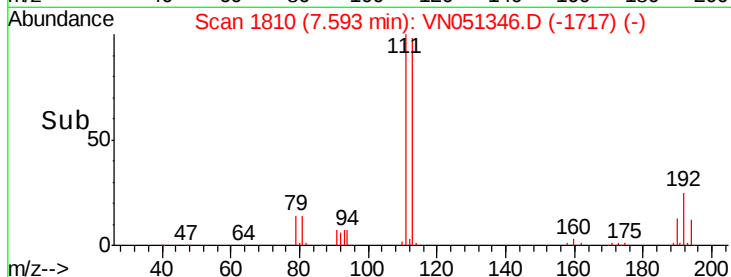
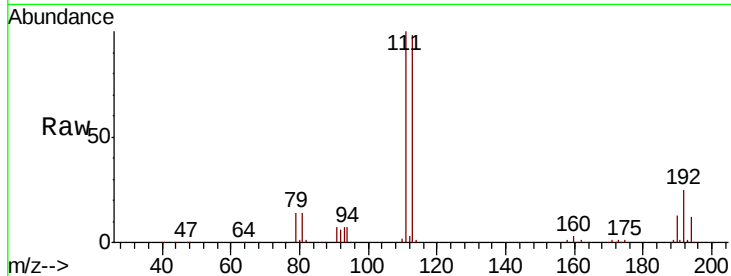
#35  
 Dibromofluoromethane  
 Concen: 45.620 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN051346.D  
 Acq: 20 Sep 2018 18:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WASTE-TANK-9-19-18

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 113     | 100   |      |       |       |
| 111     | 102.3 | 81.9 | 122.9 |       |
| 192     | 24.6  | 19.8 | 29.6  |       |

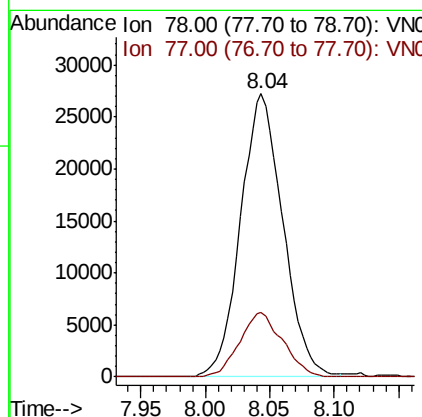
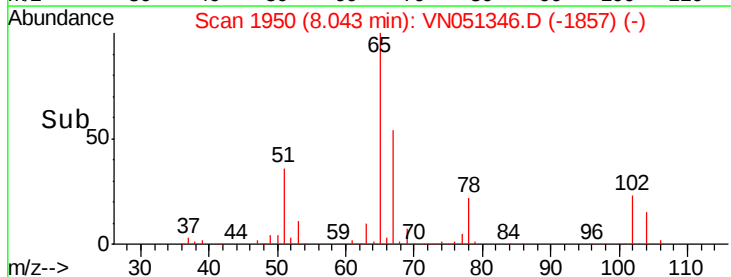
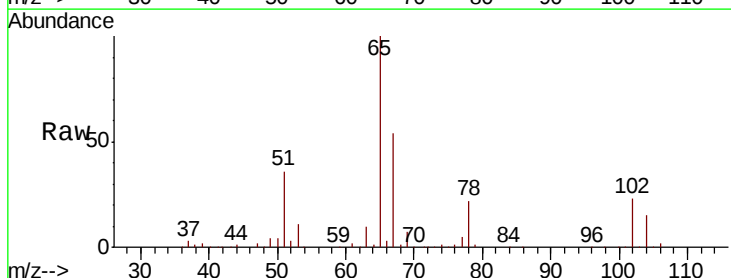
Manual Integrations  
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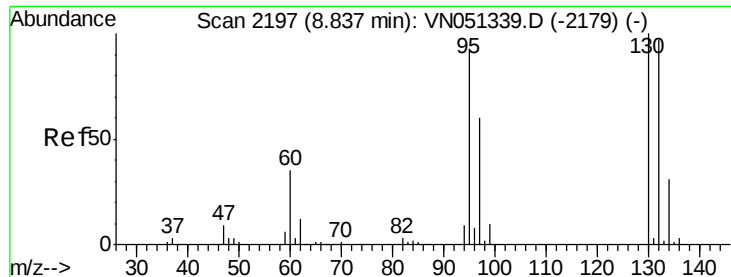
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 9/24/2018 2:48:20 PM



#40  
 Benzene  
 Concen: 1.667 ug/l  
 RT: 8.04 min Scan# 1950  
 Delta R.T. 0.00 min  
 Lab File: VN051346.D  
 Acq: 20 Sep 2018 18:06

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   |      |       |       |
| 77      | 22.7  | 18.5 | 27.7  |       |





#44

Trichloroethene

Concen: 8.768 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Instrument :

MSVOA\_N

ClientSampleId :

WASTE-TANK-9-19-18

Tot Ion:130 Resp: 93905

Ion Ratio Lower Upper

130 100

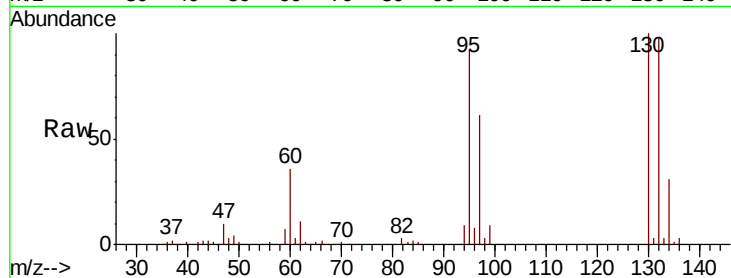
95 91.6 0.0 185.6

Manual Integrations

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Abundance Ion 129.80 (129.50 to 130.50): VN051339.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN051339.D (-2179) (-)

8.84

50000

40000

30000

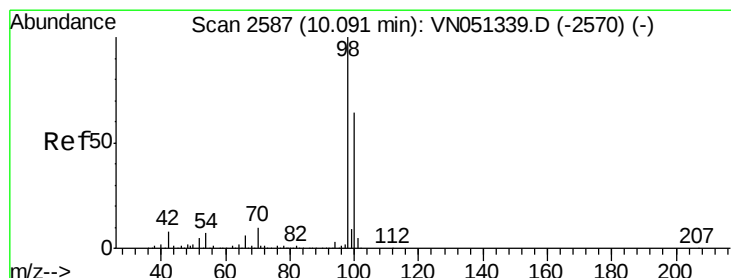
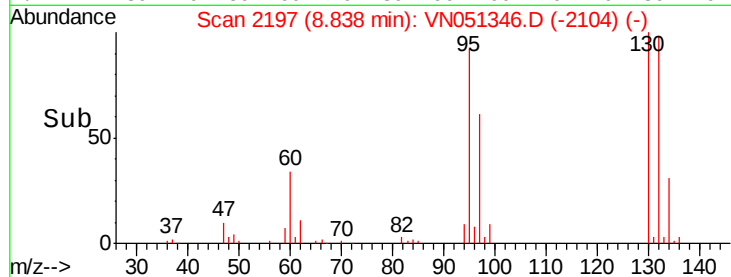
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#50

Toluene-d8

Concen: 45.714 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051346.D

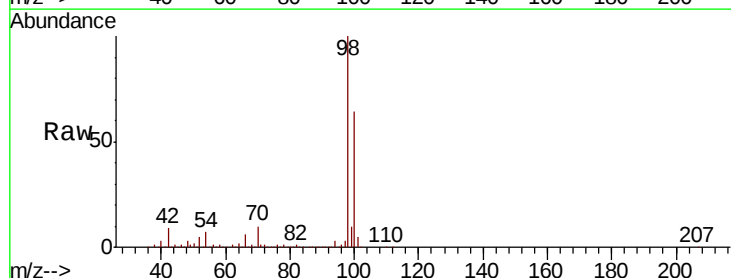
Acq: 20 Sep 2018 18:06

Tgt Ion: 98 Resp: 1719109

Ion Ratio Lower Upper

98 100

100 63.6 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051339.D (-2570) (-)

10.09

1000000

800000

600000

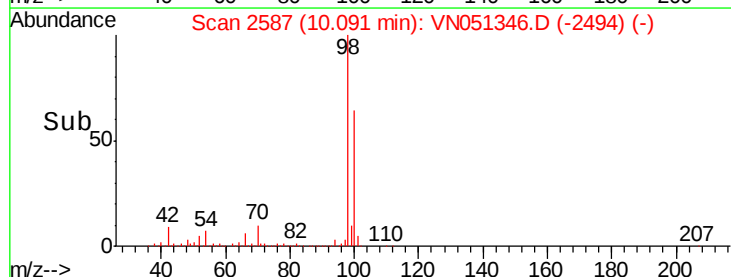
400000

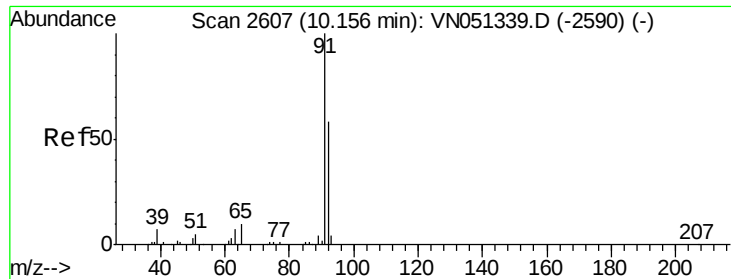
200000

0

10.00 10.10 10.20 10.30

Time-->





#52

Toluene

Concen: 0.345 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Instrument :

MSVOA\_N

ClientSampleId :

WASTE-TANK-9-19-18

Tot Ion: 92 Resp: 7915

Ion Ratio Lower Upper

92 100

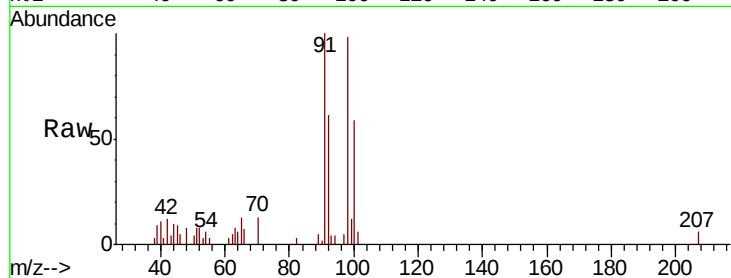
91 166.2 139.7 209.5

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Abundance Ion 92.00 (91.70 to 92.70): VN051339.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN051339.D (-2590) (-)

8000

6000

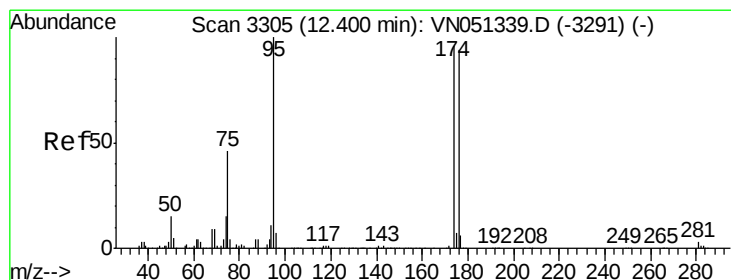
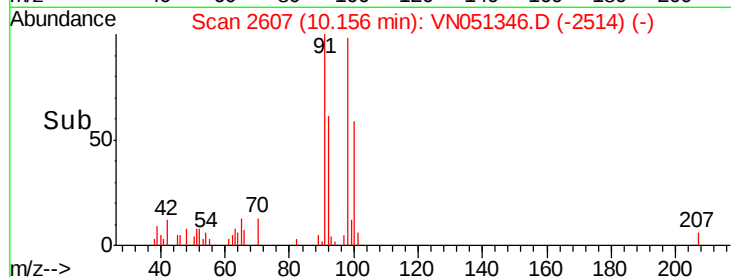
4000

2000

0

10.10 10.15 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 39.722 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

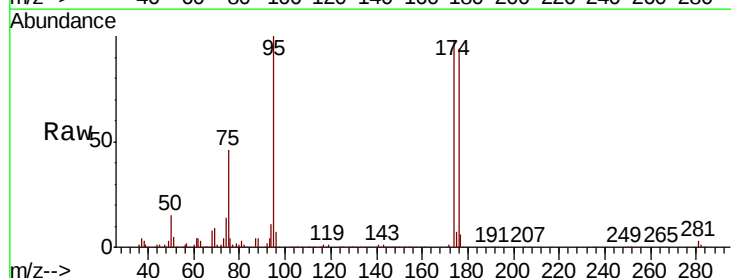
Tgt Ion: 95 Resp: 485973

Ion Ratio Lower Upper

95 100

174 97.3 0.0 194.6

176 93.6 0.0 189.6



Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)

300000

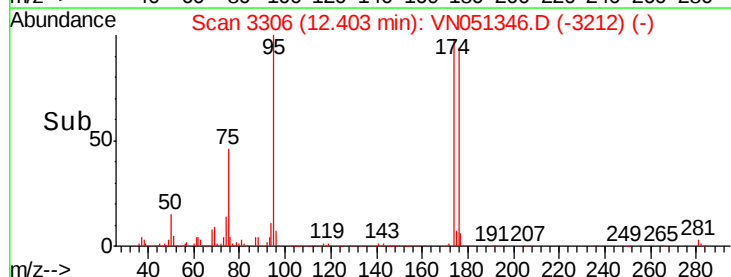
200000

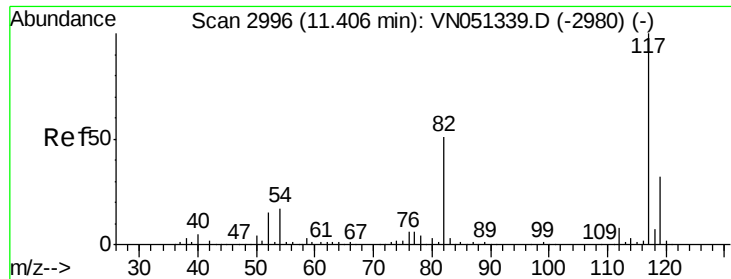
100000

0

12.30 12.40 12.50

Time-->





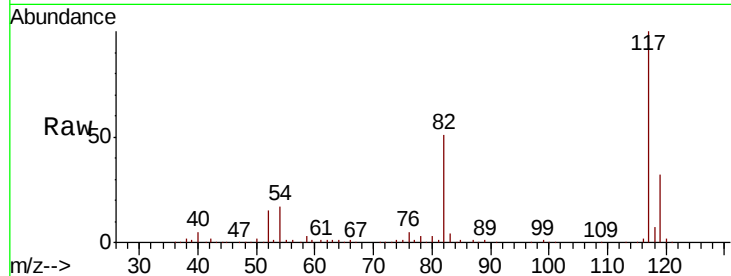
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN051346.D  
Acq: 20 Sep 2018 18:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
WASTE-TANK-9-19-18

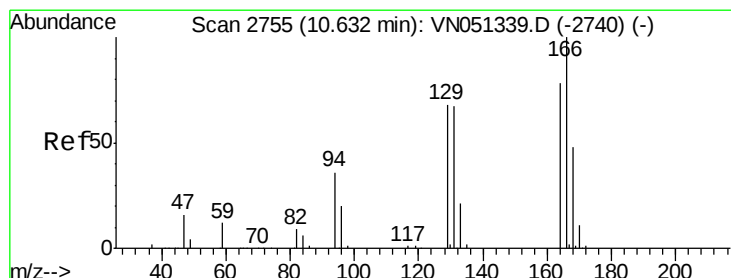
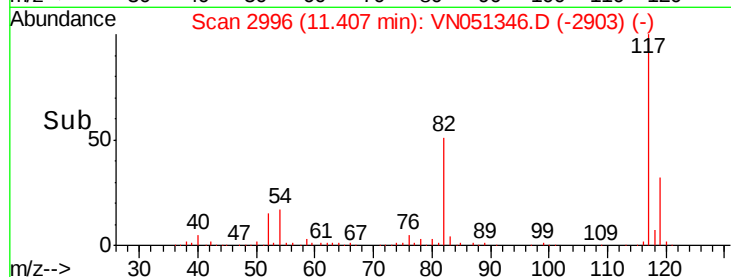
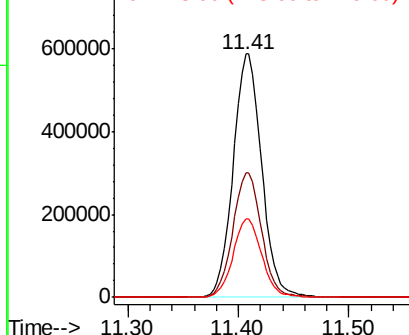
Tot Ion:117 Resp: 1051763  
Ion Ratio Lower Upper  
117 100  
82 51.1 40.7 61.1  
119 32.4 25.3 37.9

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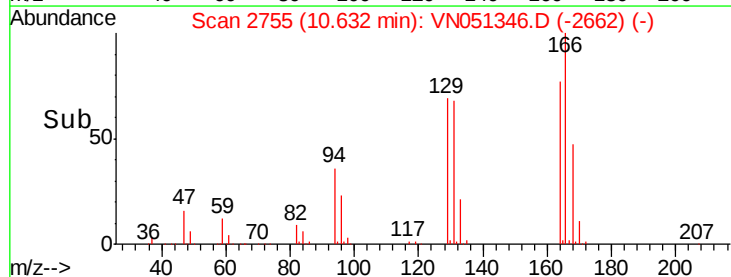
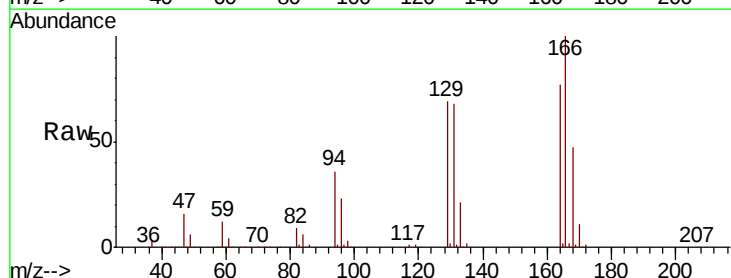
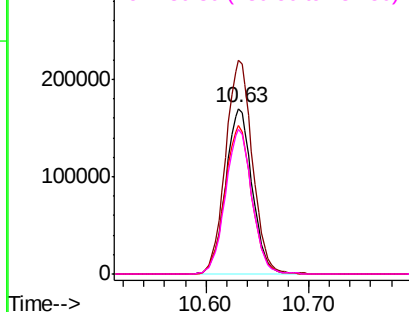
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

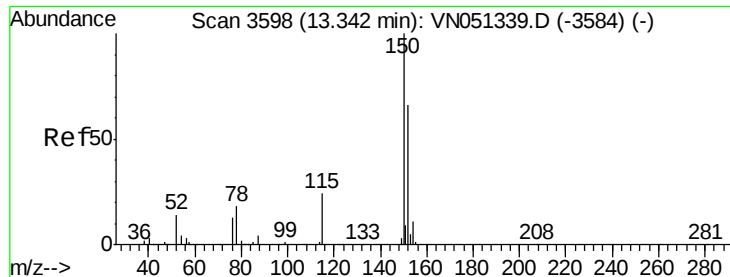


#64  
Tetrachloroethene  
Concen: 33.222 ug/l  
RT: 10.63 min Scan# 2755  
Delta R.T. 0.00 min  
Lab File: VN051346.D  
Acq: 20 Sep 2018 18:06

Tgt Ion:164 Resp: 304701  
Ion Ratio Lower Upper  
164 100  
166 129.1 102.1 153.1  
129 89.4 69.4 104.2  
131 87.5 68.8 103.2

Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051346.D

Acq: 20 Sep 2018 18:06

Instrument :

MSVOA\_N

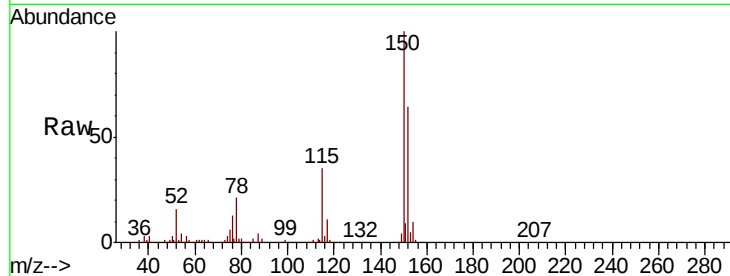
ClientSampleId :

WASTE-TANK-9-19-18

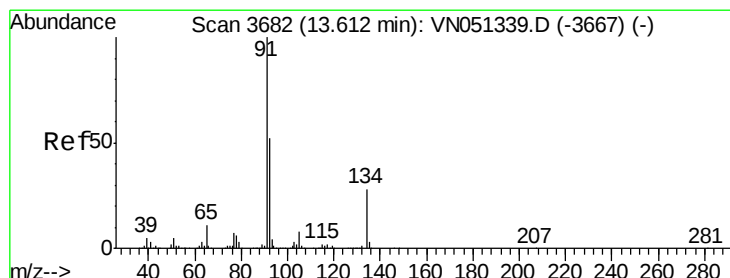
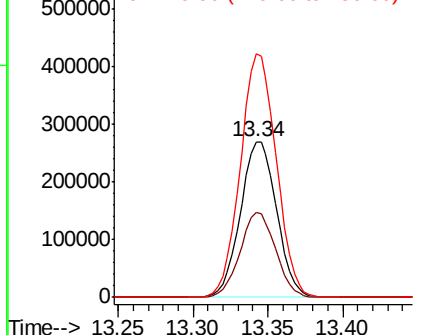
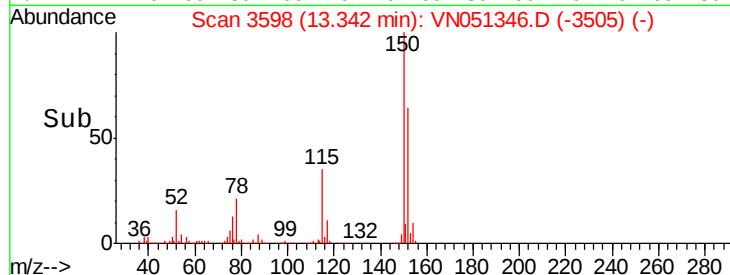
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 453747 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 53.4  | 26.9  | 80.7   |
| 150       | 155.5 | 0.0   | 345.0  |

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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



#89

n-Butylbenzene

Concen: 0.293 ug/l

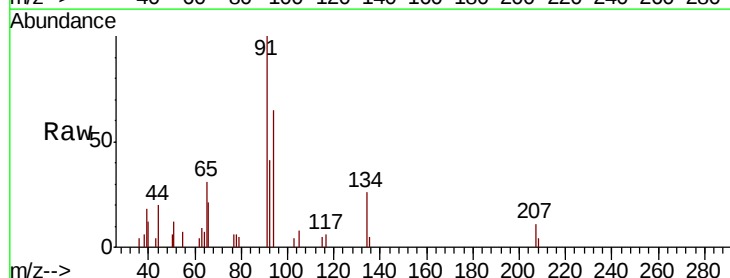
RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

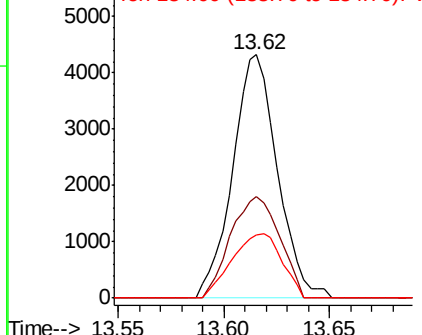
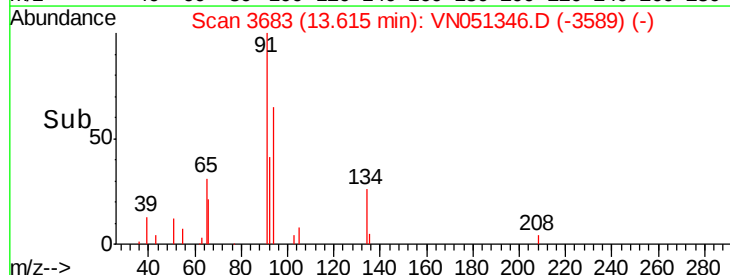
Lab File: VN051346.D

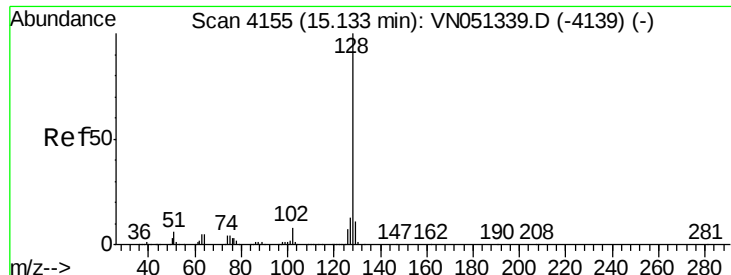
Acq: 20 Sep 2018 18:06

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 91    | Resp: | 6361 |
| Ion Ratio | Lower | Upper |      |
| 91        | 100   |       |      |
| 92        | 45.7  | 26.0  | 78.0 |
| 134       | 29.4  | 14.1  | 42.4 |



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 92.00 (91.70 to 92.70): V  
Ion 134.00 (133.70 to 134.70): V





#95  
Naphthalene  
Concen: 0.974 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. -0.00 min  
Lab File: VN051346.D  
Acq: 20 Sep 2018 18:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
WASTE-TANK-9-19-18

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 14.1  | 10.3  | 15.5  |
| 129     | 11.2  | 8.6   | 13.0  |

Manual Integrations  
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