

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN092115\  
 Data File : VN027338.D  
 Acq On : 21 Sep 2015 18:41  
 Operator : MD\FY  
 Sample : G3692-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PT-VOA-WP

Manual Integrations  
 APPROVED

MMDadoda  
 9/22/2015 2:28:23 PM

Quant Time: Sep 22 15:06:53 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N092115W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 21 13:12:32 2015  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.75  | 168  | 542165   | 50.00 | ug/l  | 0.00     |
| 35) 1,4-Difluorobenzene    | 8.68  | 114  | 1013466  | 50.00 | ug/l  | 0.00     |
| 64) Chlorobenzene-d5       | 11.52 | 117  | 870795   | 50.00 | ug/l  | 0.00     |
| 73) 1,4-Dichlorobenzene-d4 | 13.47 | 152  | 337180   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 34) 1,2-Dichloroethane-d4 | 8.12   | 65  | 379102   | 35.72 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 71.44% |      |
| 36) Dibromofluoromethane  | 7.68   | 113 | 236353   | 35.74 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 71.48% |      |
| 51) Toluene-d8            | 10.19  | 98  | 915194   | 35.80 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 71.60% |      |
| 63) 4-Bromofluorobenzene  | 12.52  | 95  | 324830   | 34.97 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 69.94% |      |

## Target Compounds

|                               |       |     |         |        |      | Qvalue |
|-------------------------------|-------|-----|---------|--------|------|--------|
| 6) Bromomethane               | 2.54  | 94  | 201619  | 68.84  | ug/l | 100    |
| 7) Chloroethane               | 2.69  | 64  | 284885  | 62.30  | ug/l | 100    |
| 8) Trichlorofluoromethane     | 3.02  | 101 | 1030905 | 98.71  | ug/l | 98     |
| 13) 1,1-Dichloroethene        | 3.77  | 96  | 661440  | 106.84 | ug/l | 95     |
| 17) Acetone                   | 3.83  | 43  | 271552  | 94.05  | ug/l | 96     |
| 21) Methylene Chloride        | 4.60  | 84  | 531792  | 69.17  | ug/l | 97     |
| 22) trans-1,2-Dichloroethene  | 5.12  | 96  | 756515  | 111.14 | ug/l | 95     |
| 26) 2-Butanone                | 6.91  | 43  | 752305  | 198.96 | ug/l | 97     |
| 31) Chloroform                | 7.46  | 83  | 478562  | 33.30  | ug/l | 99     |
| 33) 1,1,1-Trichloroethane     | 7.67  | 97  | 198220  | 15.56  | ug/l | 98     |
| 39) Carbon Tetrachloride      | 7.88  | 117 | 569996  | 55.45  | ug/l | 100    |
| 41) Benzene                   | 8.14  | 78  | 850815  | 26.84  | ug/l | 99     |
| 43) 1,2-Dichloroethane        | 8.22  | 62  | 1555049 | 120.32 | ug/l | 95     |
| 45) Trichloroethene           | 8.93  | 130 | 536573  | 84.49  | ug/l | 93     |
| 46) 1,2-Dichloropropane       | 9.22  | 63  | 732202  | 82.52  | ug/l | 98     |
| 47) Dibromomethane            | 9.31  | 93  | 178933  | 33.60  | ug/l | 92     |
| 48) Bromodichloromethane      | 9.50  | 83  | 496281  | 43.94  | ug/l | 99     |
| 52) 4-Methyl-2-Pentanone      | 10.07 | 43  | 211696  | 25.53  | ug/l | 99     |
| 54) t-1,3-Dichloropropene     | 10.47 | 75  | 360563  | 29.91  | ug/l | 99     |
| 55) cis-1,3-Dichloropropene   | 9.93  | 75  | 577455  | 43.60  | ug/l | 94     |
| 56) 1,1,2-Trichloroethane     | 10.66 | 97  | 254981  | 36.46  | ug/l | 98     |
| 60) 2-Hexanone                | 10.84 | 43  | 642851  | 114.08 | ug/l | 99     |
| 62) 1,2-Dibromoethane         | 11.11 | 107 | 257842  | 38.77  | ug/l | 99     |
| 65) Tetrachloroethene         | 10.74 | 164 | 364153  | 70.26  | ug/l | 95     |
| 66) Chlorobenzene             | 11.54 | 112 | 550460  | 29.48  | ug/l | 97     |
| 67) 1,1,1,2-Tetrachloroethane | 11.62 | 131 | 121069  | 19.32  | ug/l | 98     |
| 68) Ethyl Benzene             | 11.62 | 91  | 1438658 | 40.85  | ug/l | 99     |
| 69) m/p-Xylenes               | 11.73 | 106 | 1645877 | 134.81 | ug/l | 91     |
| 71) Styrene                   | 12.08 | 104 | 1327465 | 67.59  | ug/l | 94     |
| 72) Bromoform                 | 12.24 | 173 | 137826  | 32.79  | ug/l | 99     |
| 76) 1,1,2,2-Tetrachloroethane | 12.61 | 83  | 1096066 | 115.27 | ug/l | 99     |
| 77) 1,2,3-Trichloropropane    | 12.66 | 75  | 203695  | 24.06  | ug/l | # 1    |
| 85) 1,2,4-Trimethylbenzene    | 13.16 | 105 | 2048281 | 75.43  | ug/l | 95     |
| 89) 1,4-Dichlorobenzene       | 13.49 | 146 | 273772  | 23.72  | ug/l | 93     |

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Data File : VN027338.D  
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Operator : MD\FY  
Sample : G3692-01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

Manual Integrations  
APPROVED

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9/22/2015 2:28:23 PM

Quant Time: Sep 22 15:06:53 2015  
Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N092115W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 21 13:12:32 2015  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 92) 1,2-Dichlorobenzene        | 13.78 | 146  | 344277   | 30.22  | ug/l  | 96       |
| 93) 1,2-Dibromo-3-Chloropropan | 14.40 | 75   | 158711   | 85.17  | ug/l  | 88       |
| 94) 1,2,4-Trichlorobenzene     | 15.06 | 180  | 660996   | 112.25 | ug/l  | 98       |
| 95) Hexachlorobutadiene        | 15.16 | 225  | 475076   | 147.25 | ug/l  | 98       |
| 96) Naphthalene                | 15.29 | 128  | 1302579  | 70.51  | ug/l  | 100      |

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

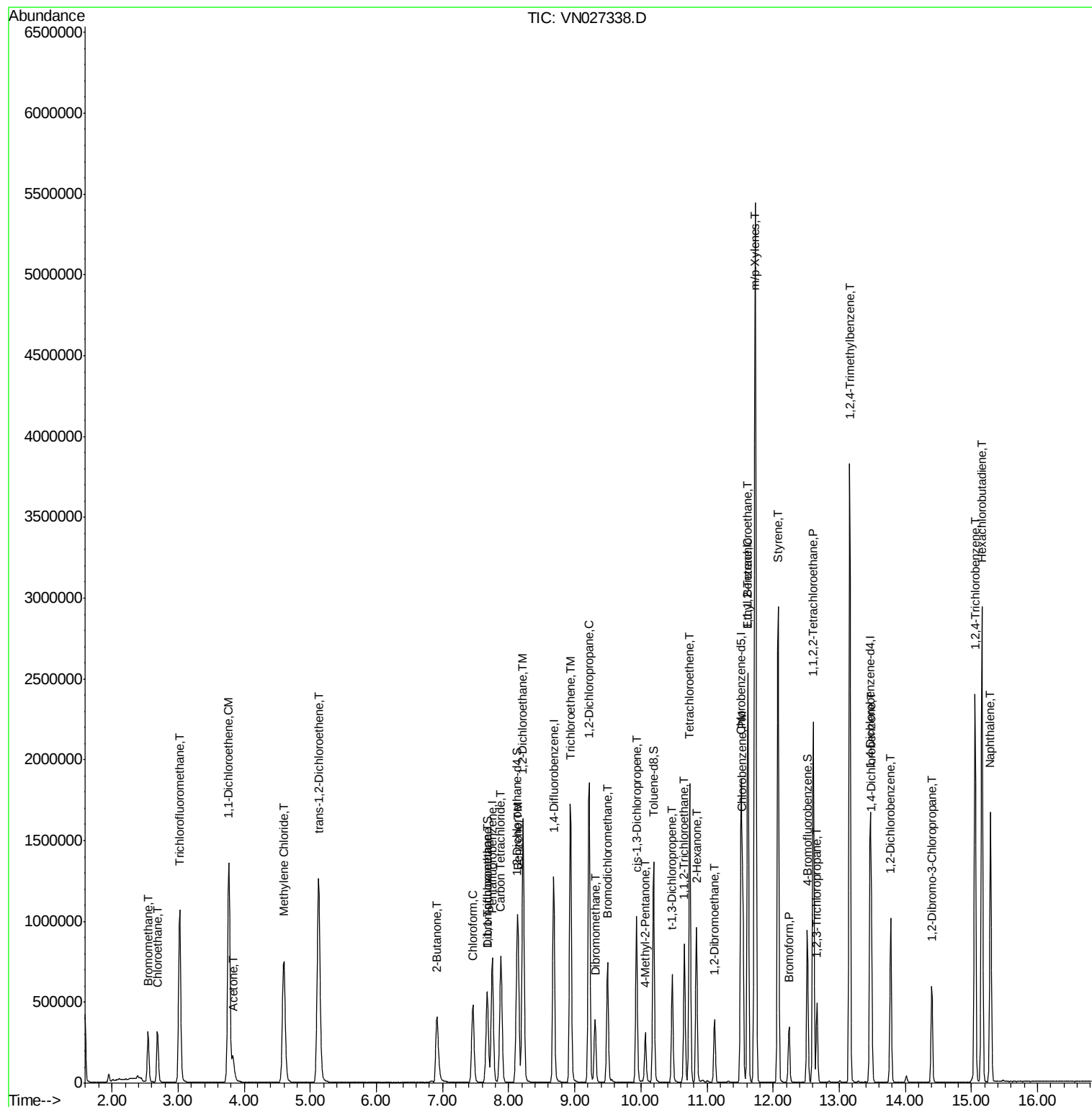
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Data File : VN027338.D  
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ALS Vial : 15 Sample Multiplier: 1

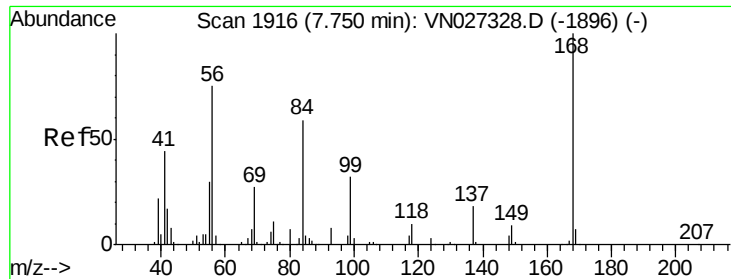
Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

Manual Integrations  
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9/22/2015 2:28:23 PM

Quant Time: Sep 22 15:06:53 2015  
Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N092115W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 21 13:12:32 2015  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

ClientSampleId :

PT-VOA-WP

Tot Ion:168 Resp: 542165

Ion Ratio Lower Upper

168 100

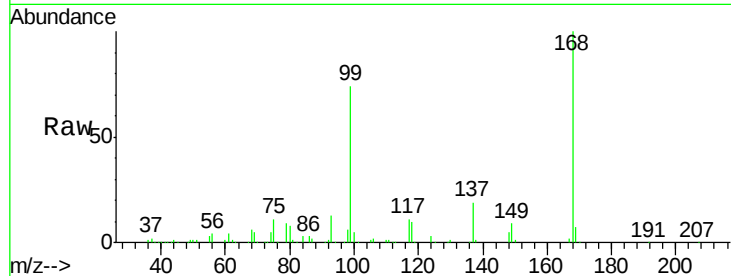
99 73.9 50.4 75.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.75

250000

200000

150000

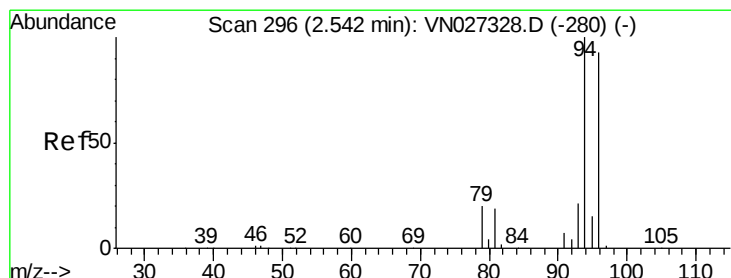
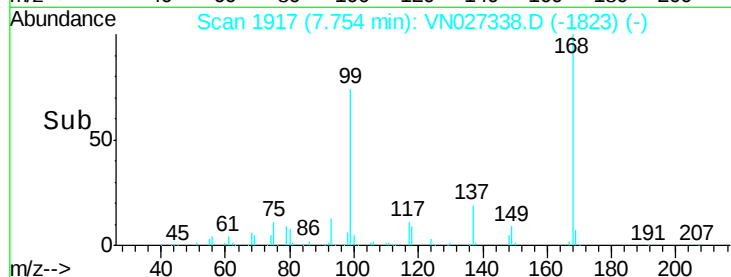
100000

50000

0

7.70 7.80 7.90

Time-->



#6

Bromomethane

Concen: 68.84 ug/l

RT: 2.54 min Scan# 297

Delta R.T. 0.00 min

Lab File: VN027338.D

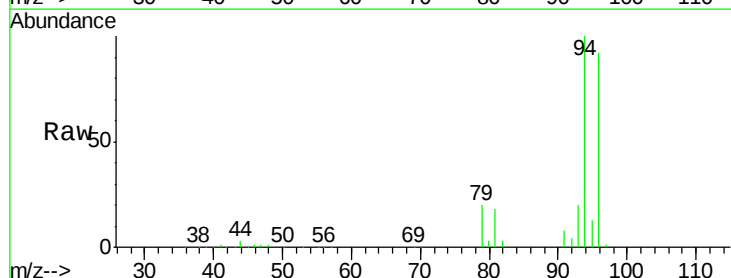
Acq: 21 Sep 2015 18:41

Tgt Ion: 94 Resp: 201619

Ion Ratio Lower Upper

94 100

96 91.6 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

120000

100000

80000

60000

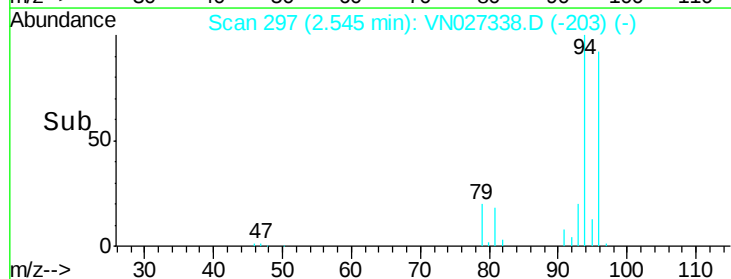
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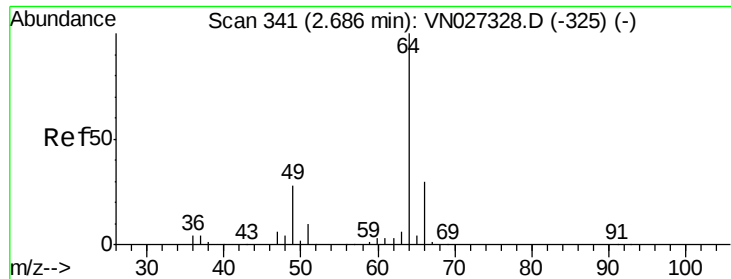
20000

0

2.45 2.50 2.55 2.60

Time-->





#7

Chloroethane

Concen: 62.30 ug/l

RT: 2.69 min Scan# 342

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

ClientSampleId :

PT-VOA-WP

Tot Ion: 64 Resp: 284885

Ion Ratio Lower Upper

64 100

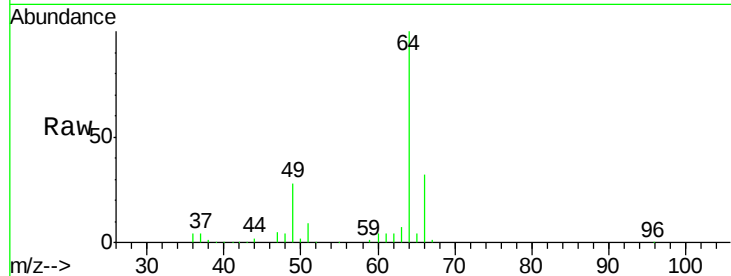
66 32.1 25.5 38.3

Manual Integrations

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Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.69

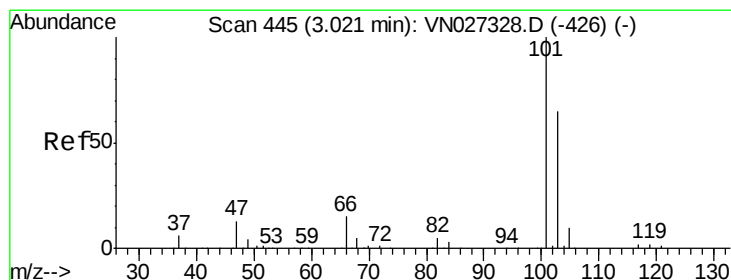
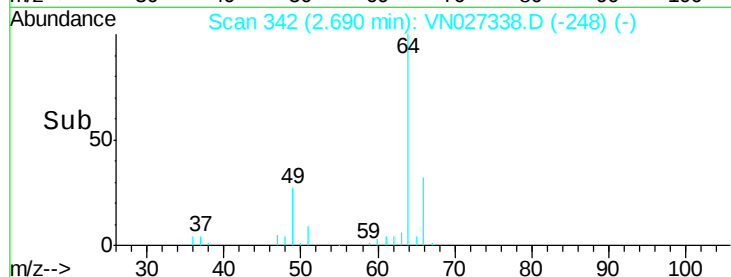
150000

100000

50000

0

Time-->



#8

Trichlorofluoromethane

Concen: 98.71 ug/l

RT: 3.02 min Scan# 446

Delta R.T. 0.00 min

Lab File: VN027338.D

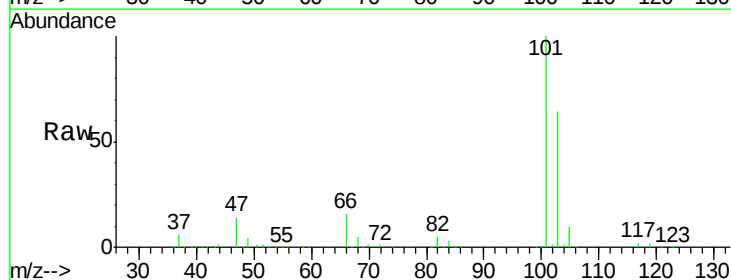
Acq: 21 Sep 2015 18:41

Tgt Ion:101 Resp: 1030905

Ion Ratio Lower Upper

101 100

103 63.9 52.6 79.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.02

500000

400000

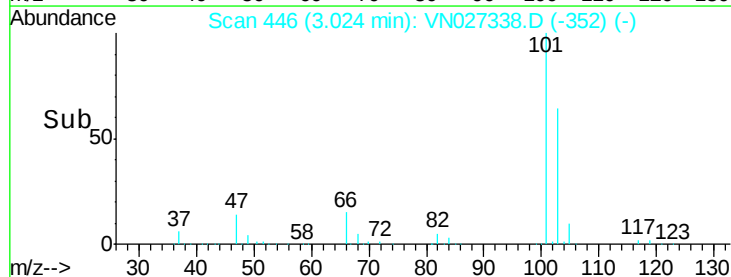
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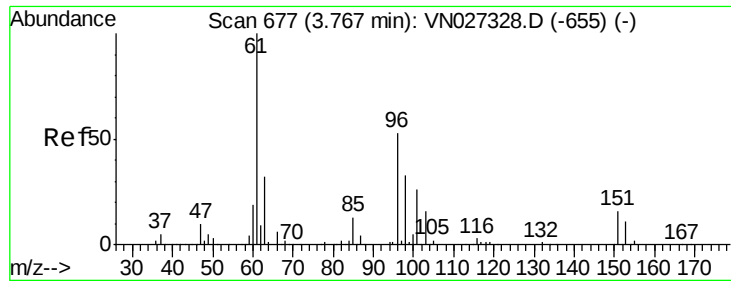
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100000

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Time-->





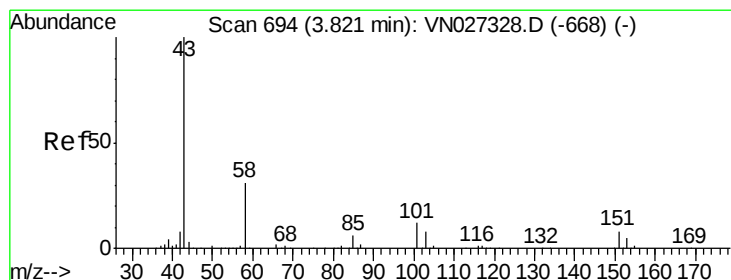
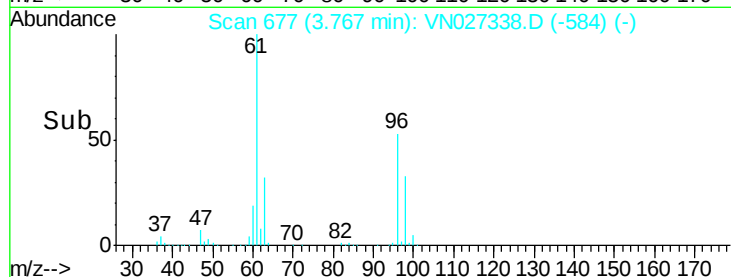
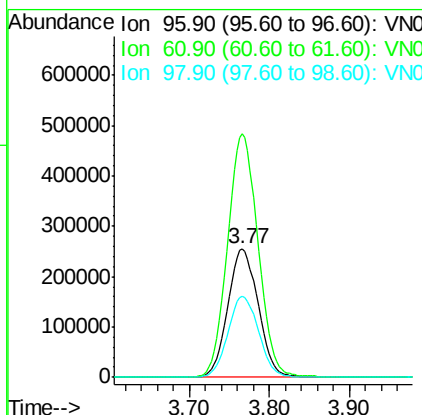
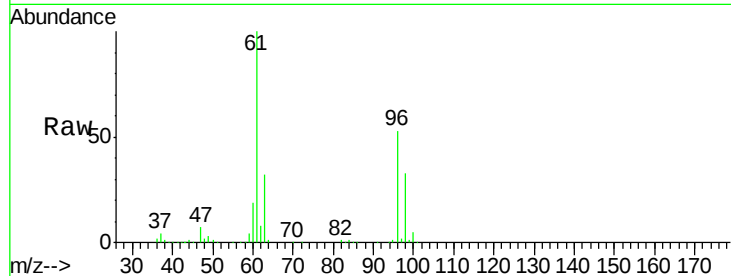
#13  
 1,1-Dichloroethene  
 Concen: 106.84 ug/l  
 RT: 3.77 min Scan# 677  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PT-VOA-WP

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |       |
| 61      | 189.0 |       | 143.8 | 215.8 |       |
| 98      | 63.0  |       | 50.3  | 75.5  |       |

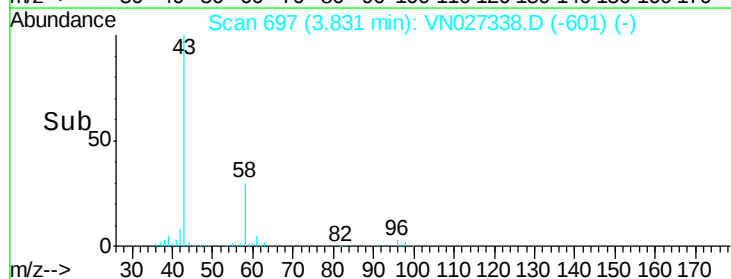
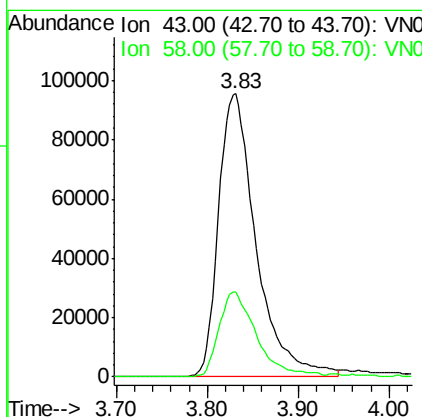
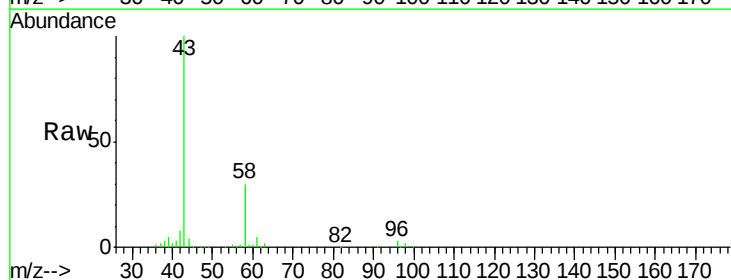
Manual Integrations  
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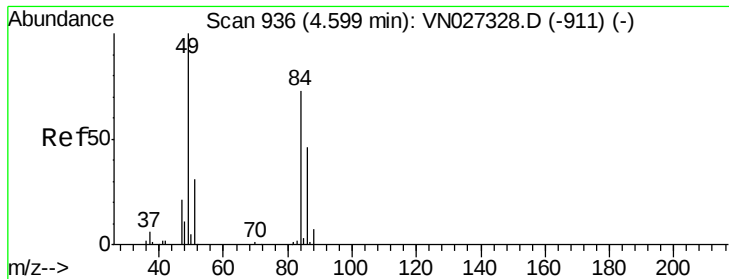
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#17  
 Acetone  
 Concen: 94.05 ug/l  
 RT: 3.83 min Scan# 697  
 Delta R.T. 0.01 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 43      | 100  |       |      |       |       |
| 58      | 29.6 |       | 25.4 | 38.0  |       |





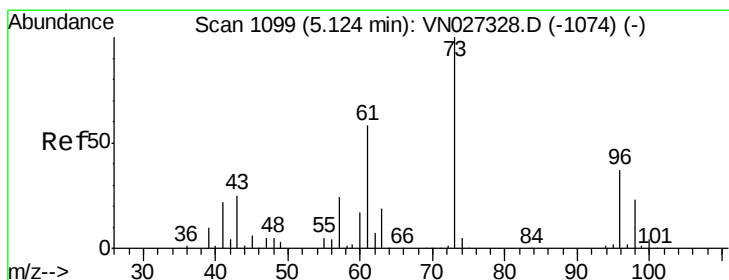
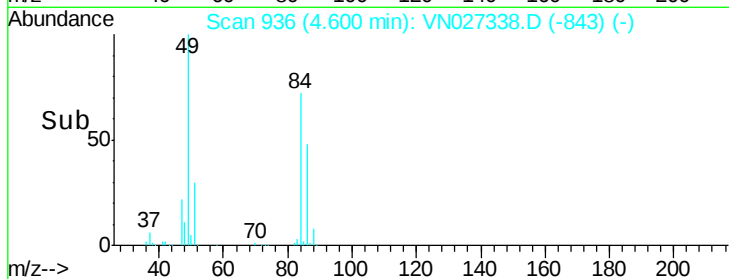
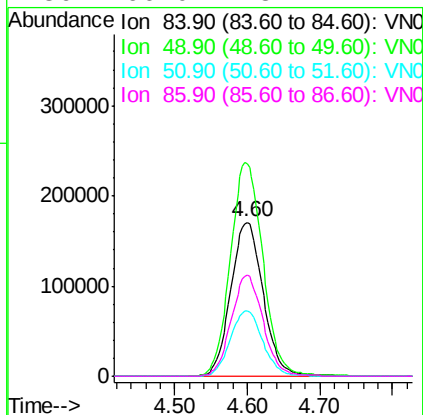
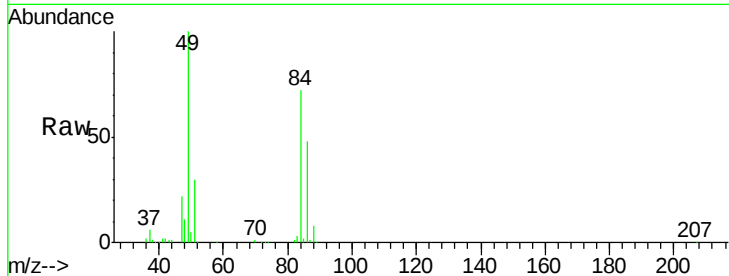
#21  
Methvlene Chloride  
Concen: 69.17 ug/l  
RT: 4.60 min Scan# 936  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampled :  
PT-VOA-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 138.6 | 112.3 | 168.5 |
| 51      | 42.3  | 33.8  | 50.8  |
| 86      | 66.0  | 48.2  | 72.4  |

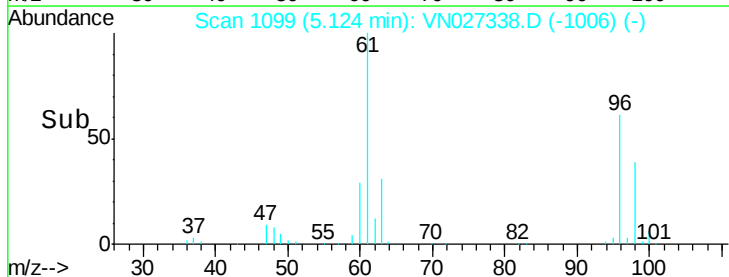
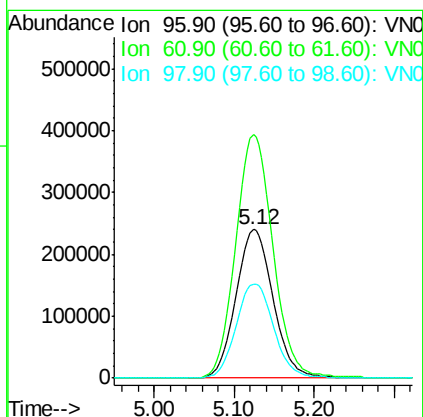
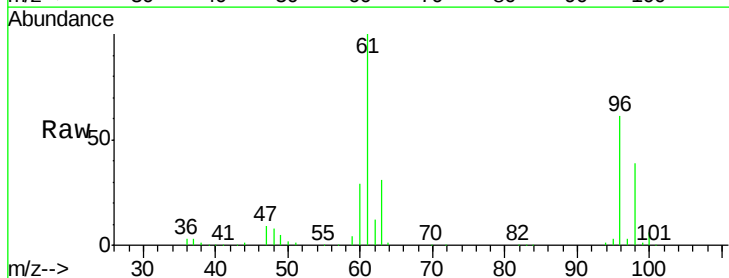
Manual Integrations  
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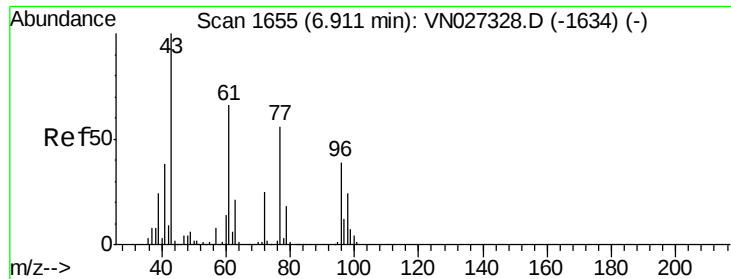
MMDadoda  
9/22/2015 2:28:23 PM



#22  
trans-1,2-Dichloroethene  
Concen: 111.14 ug/l  
RT: 5.12 min Scan# 1099  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 164.1 | 126.6 | 189.8 |
| 98      | 63.3  | 47.4  | 71.2  |





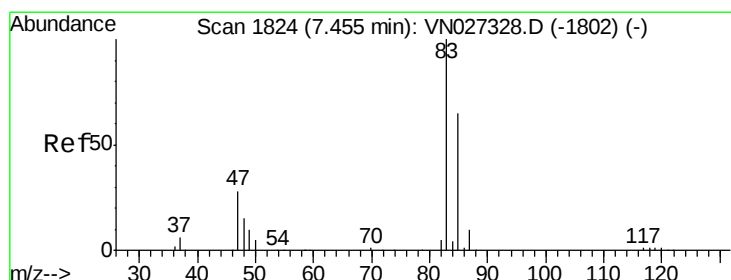
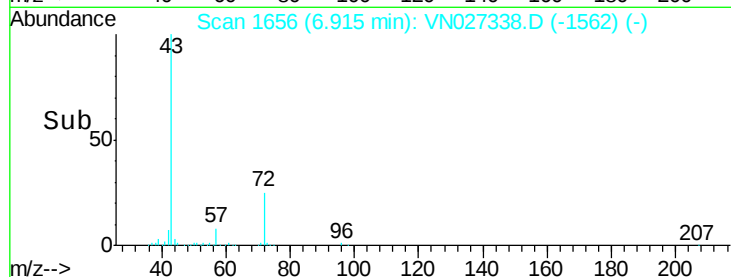
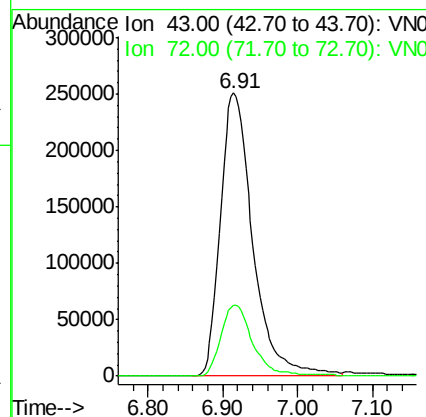
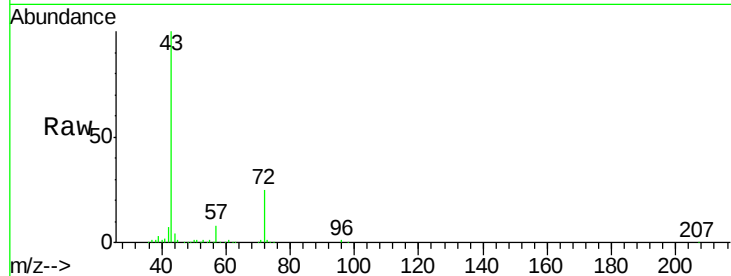
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2-Butanone  
Concen: 198.96 ug/l  
RT: 6.91 min Scan# 1656  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampled :  
PT-VOA-WP

Tot Ion: 43 Resp: 752305  
Ion Ratio Lower Upper  
43 100  
72 24.9 18.8 28.2

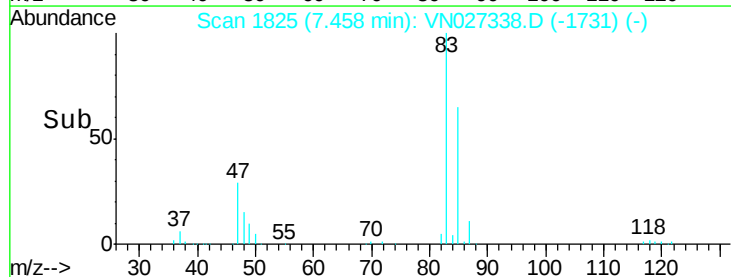
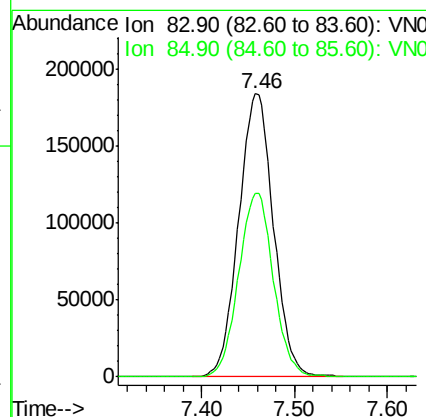
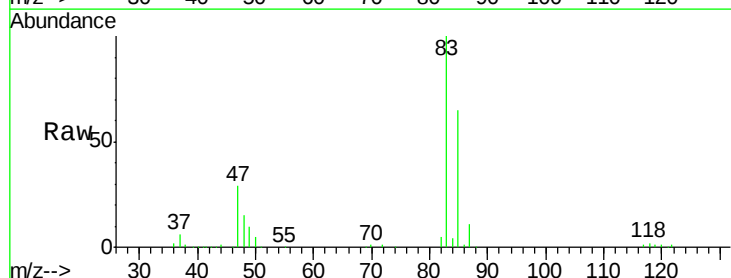
Manual Integrations  
APPROVED

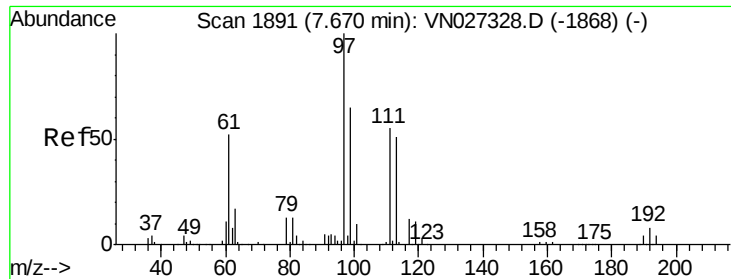
MMDadoda  
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#31  
Chloroform  
Concen: 33.30 ug/l  
RT: 7.46 min Scan# 1825  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Tgt Ion: 83 Resp: 478562  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.1 76.7





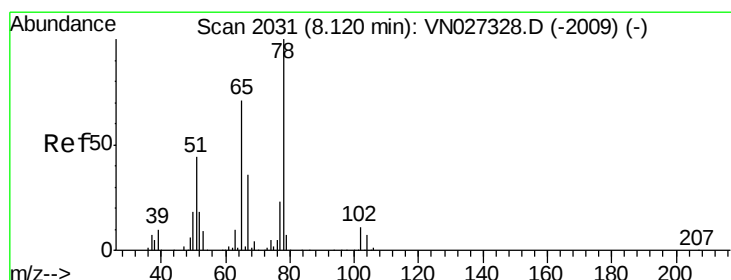
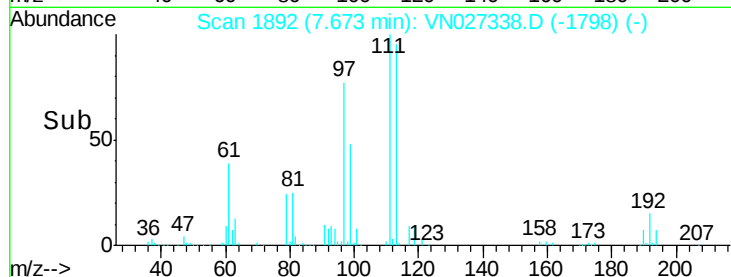
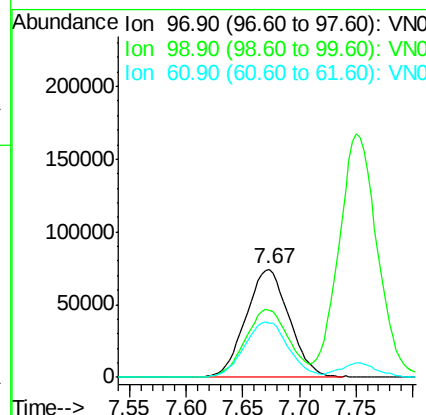
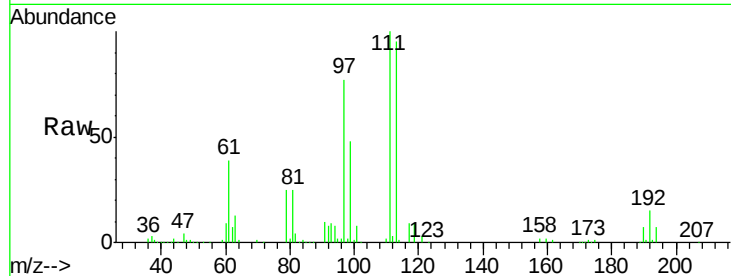
#33  
 1,1,1-Trichloroethane  
 Concen: 15.56 ug/l  
 RT: 7.67 min Scan# 1892  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PT-VOA-WP

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 198220 |       |       |
| 99      | 63.2 | 50.1  | 75.1   |       |       |
| 61      | 52.6 | 44.0  | 66.0   |       |       |

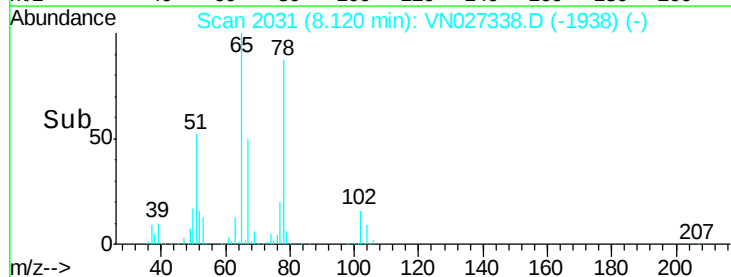
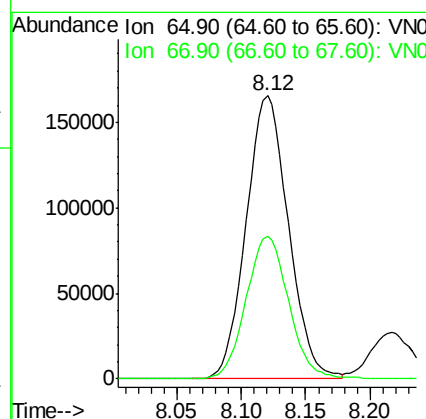
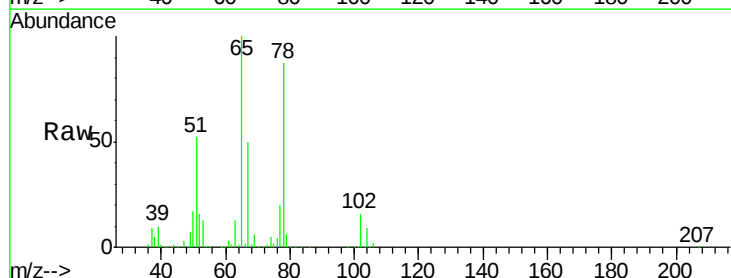
Manual Integrations  
 APPROVED

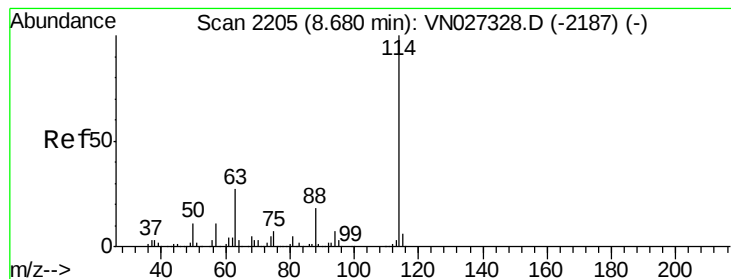
MMDadoda  
 9/22/2015 2:28:23 PM



#34  
 1,2-Dichloroethane-d4  
 Concen: 35.72 ug/l  
 RT: 8.12 min Scan# 2031  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 65      | 100  |       | 379102 |       |       |
| 67      | 50.3 | 0.0   | 110.6  |       |       |





#35

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.68 min Scan# 2205

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

ClientSampleId :

PT-VOA-WP

Tot Ion:114 Resp: 1013466

Ion Ratio Lower Upper

114 100

63 26.7 0.0 48.8

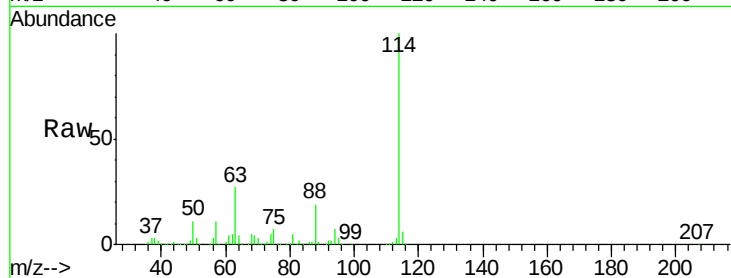
88 18.7 0.0 32.2

Manual Integrations

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MMDadoda

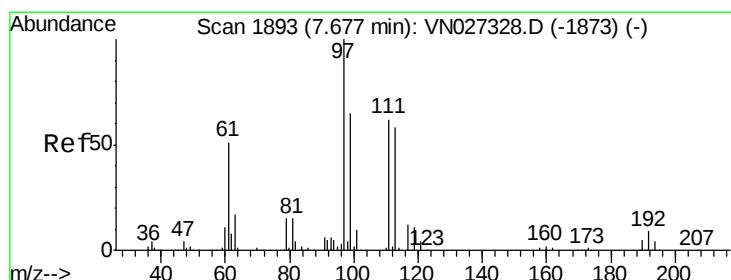
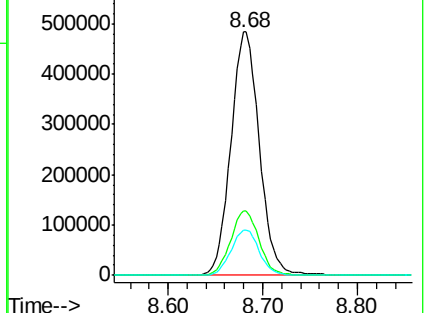
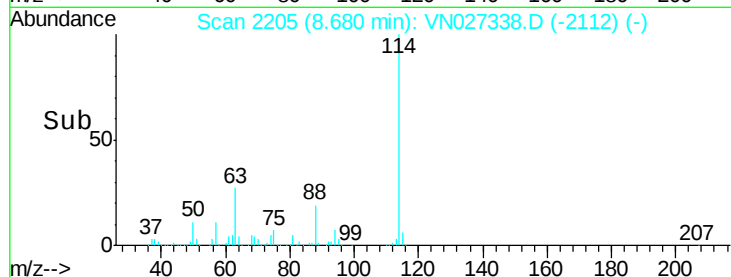
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#36

Dibromofluoromethane

Concen: 35.74 ug/l

RT: 7.68 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

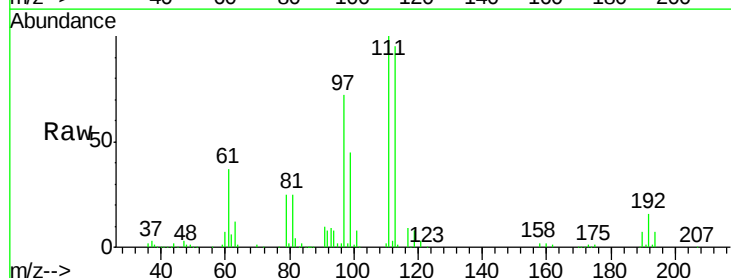
Tgt Ion:113 Resp: 236353

Ion Ratio Lower Upper

113 100

111 106.1 83.0 124.4

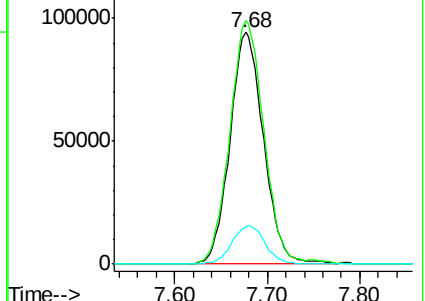
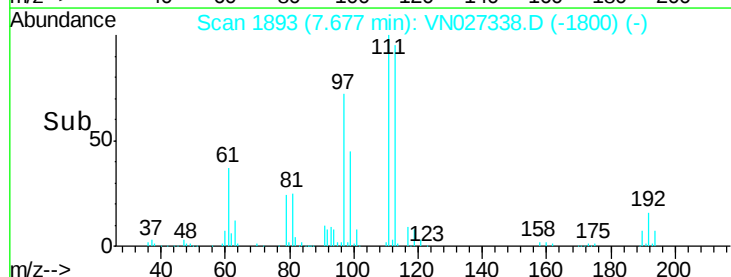
192 16.5 14.1 21.1

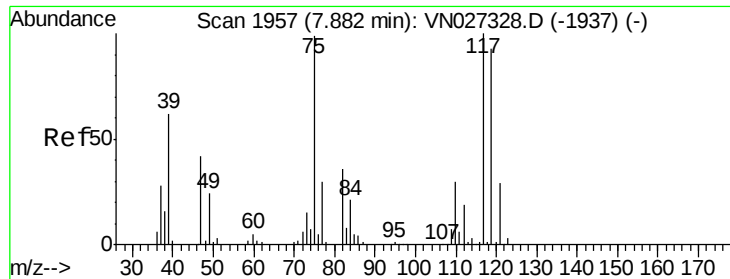


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





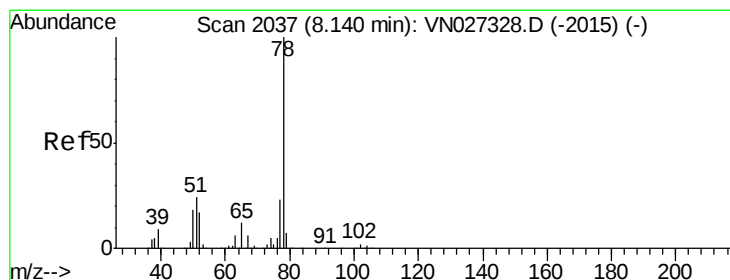
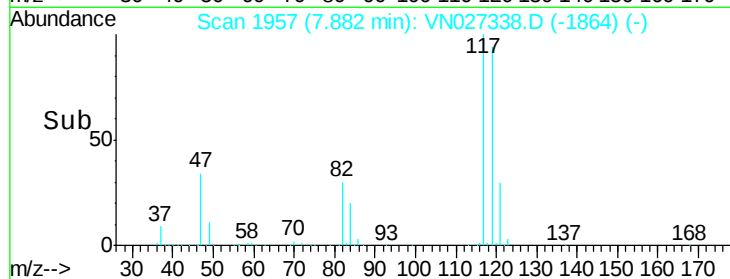
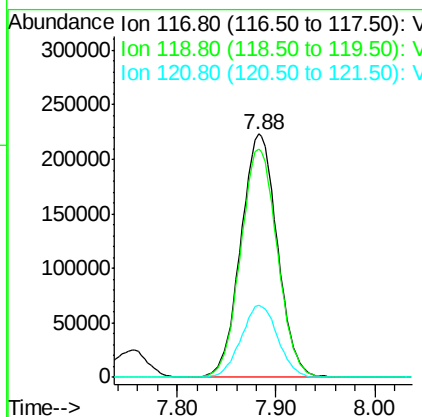
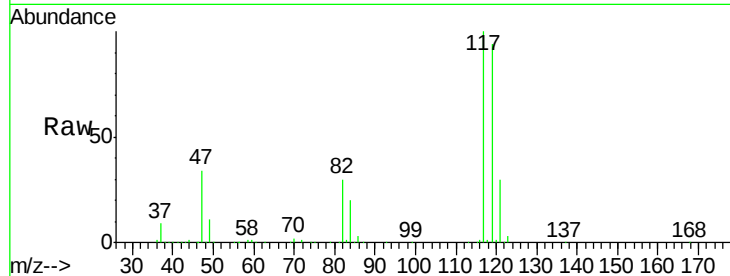
#39  
Carbon Tetrachloride  
Concen: 55.45 ug/l  
RT: 7.88 min Scan# 1957  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 94.0  | 75.3  | 112.9 |
| 121     | 29.8  | 23.8  | 35.8  |

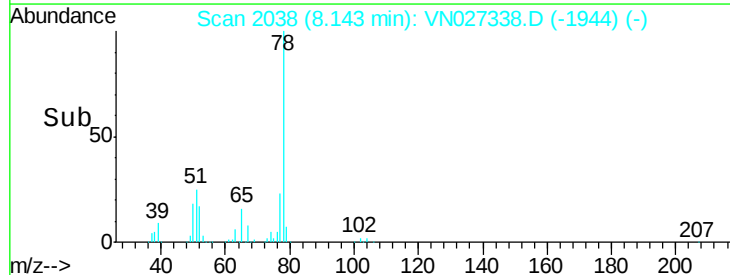
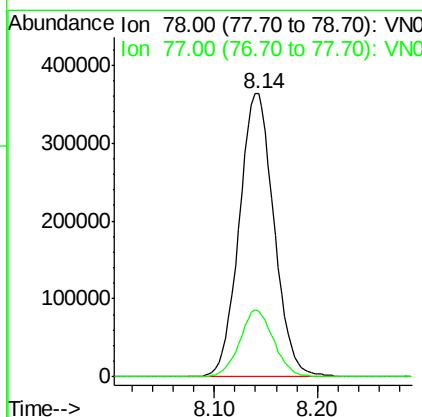
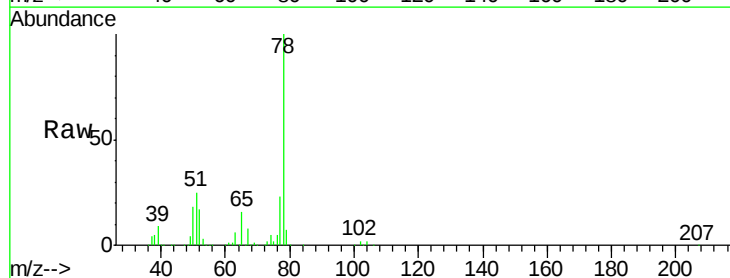
Manual Integrations  
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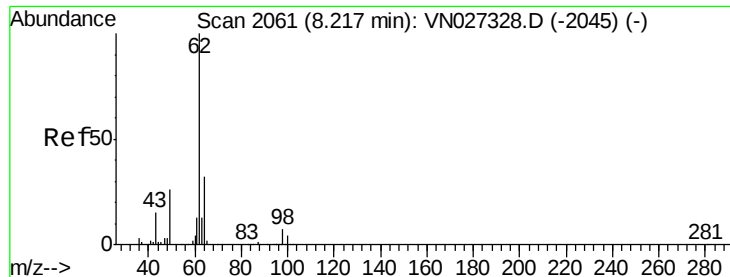
MMDadoda  
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#41  
Benzene  
Concen: 26.84 ug/l  
RT: 8.14 min Scan# 2038  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.1  | 19.0  | 28.4  |





#43

1,2-Dichloroethane

Concen: 120.32 ug/l

RT: 8.22 min Scan# 2061

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

ClientSampleId :

PT-VOA-WP

Tot Ion: 62 Resp: 1555049

Ion Ratio Lower Upper

62 100

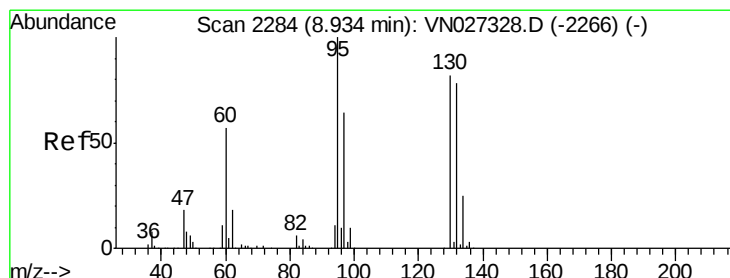
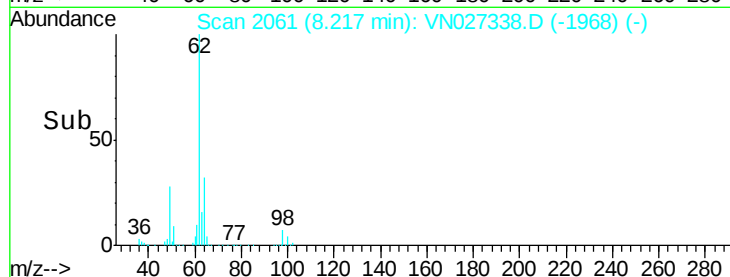
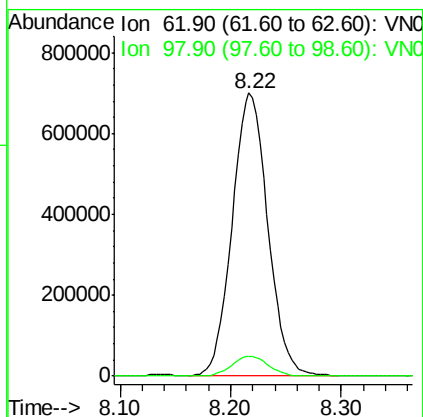
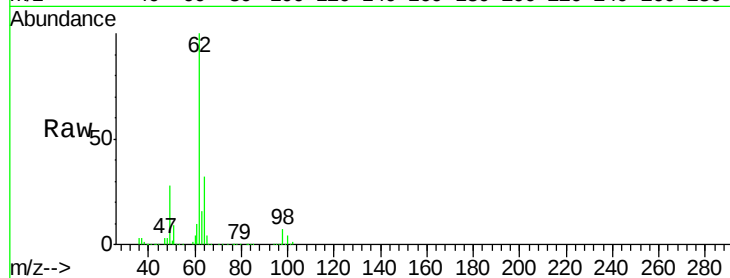
98 7.3 0.0 18.0

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#45

Trichloroethene

Concen: 84.49 ug/l

RT: 8.93 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN027338.D

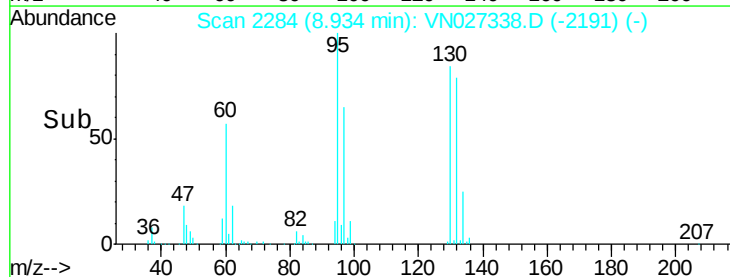
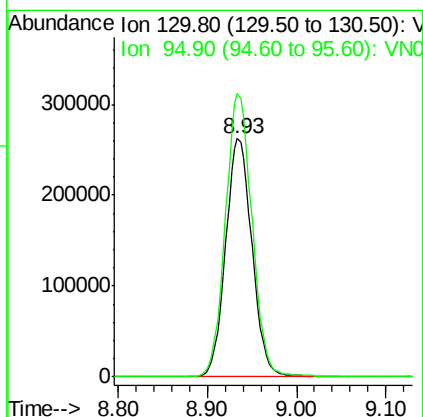
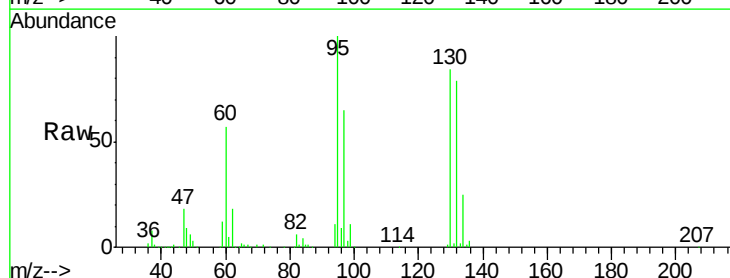
Acq: 21 Sep 2015 18:41

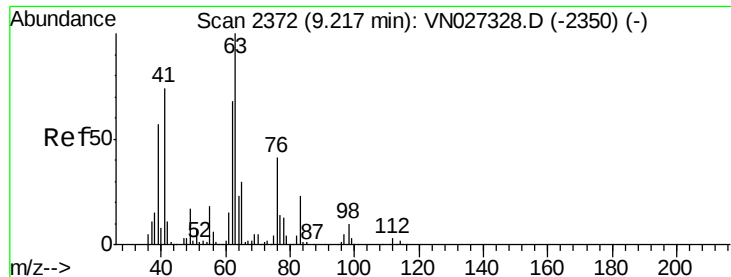
Tgt Ion: 130 Resp: 536573

Ion Ratio Lower Upper

130 100

95 118.9 0.0 222.2





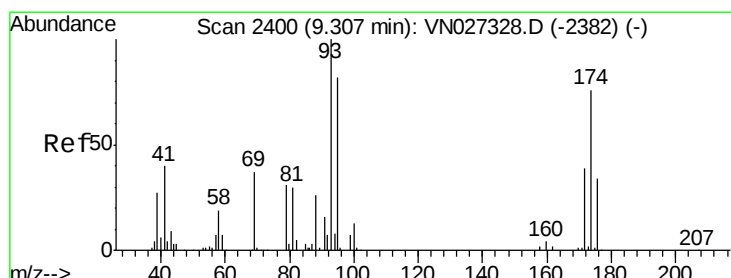
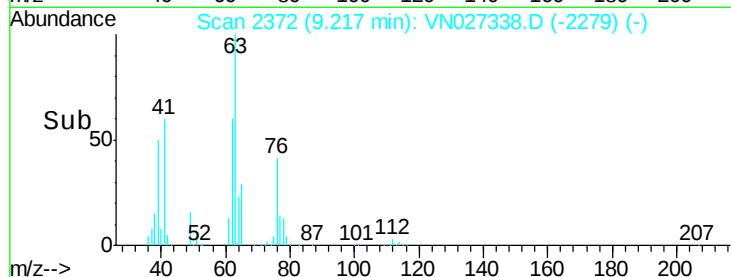
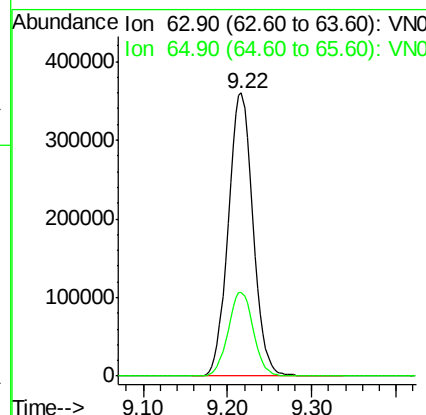
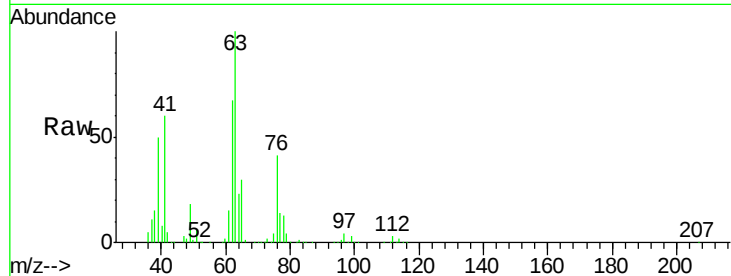
#46  
 1,2-Dichloropropane  
 Concen: 82.52 ug/l  
 RT: 9.22 min Scan# 2372  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PT-VOA-WP

Tot Ion: 63 Resp: 732202  
 Ion Ratio Lower Upper  
 63 100  
 65 29.7 24.4 36.6

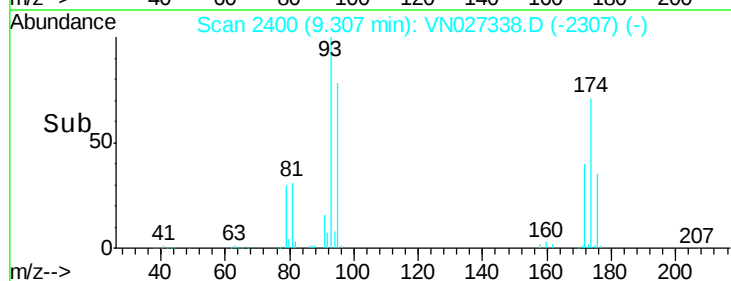
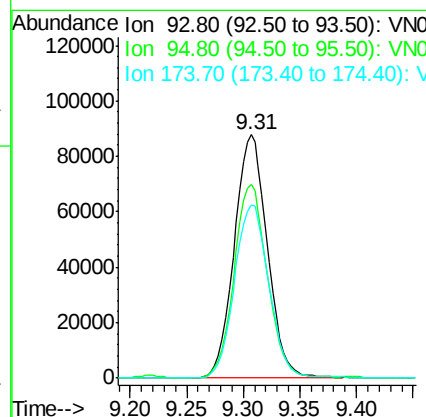
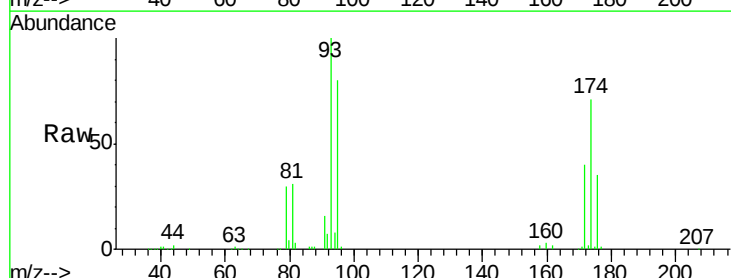
Manual Integrations  
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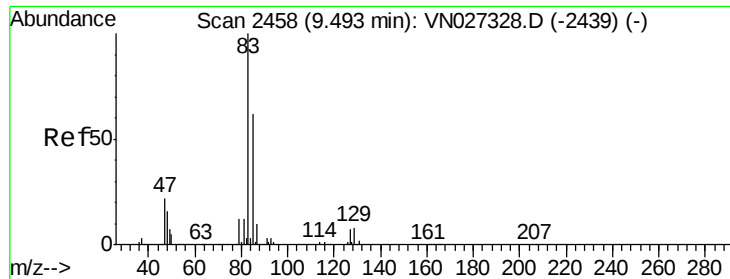
MMDadoda  
 9/22/2015 2:28:23 PM



#47  
 Dibromomethane  
 Concen: 33.60 ug/l  
 RT: 9.31 min Scan# 2400  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

Tgt Ion: 93 Resp: 178933  
 Ion Ratio Lower Upper  
 93 100  
 95 80.1 66.3 99.5  
 174 73.8 67.8 101.6





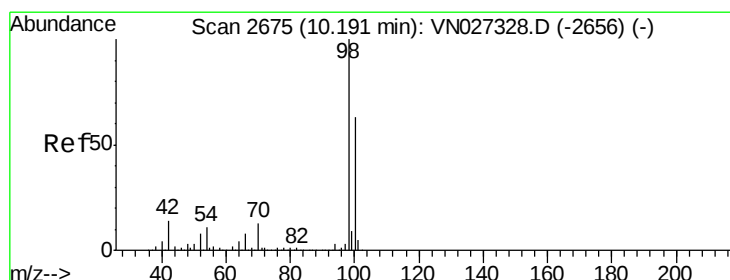
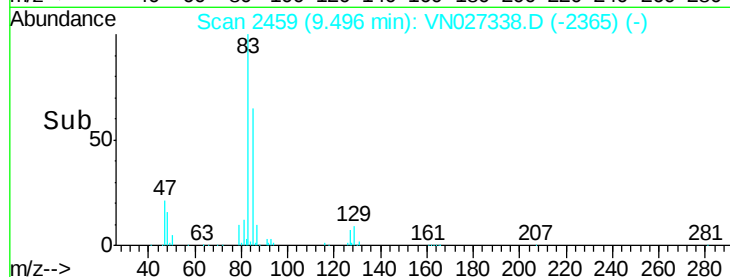
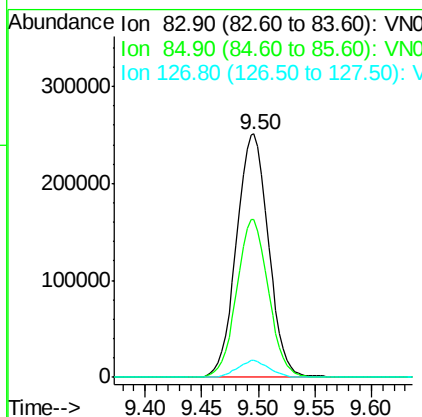
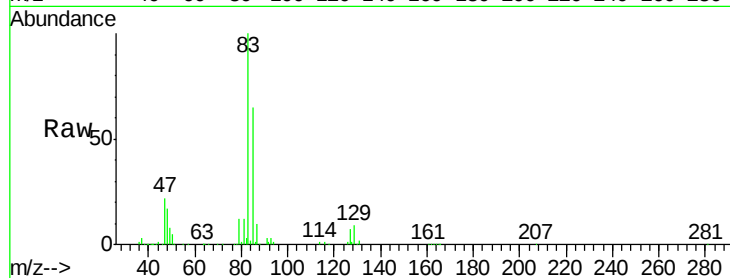
#48  
 Bromodichloromethane  
 Concen: 43.94 ug/l  
 RT: 9.50 min Scan# 2459  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PT-VOA-WP

| Tot Ion   | 83   | Resp  | 496281 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 64.6 | 50.7  | 76.1   |
| 127       | 6.9  | 5.5   | 8.3    |

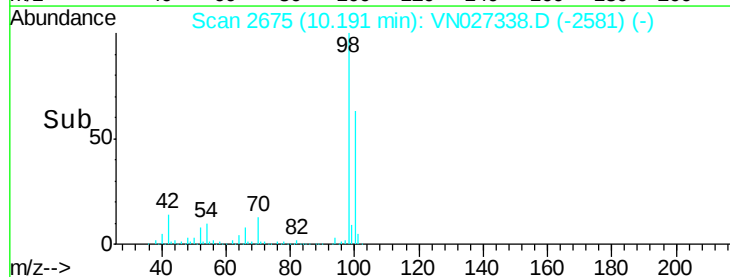
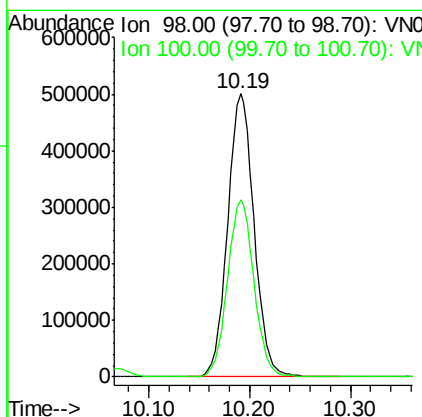
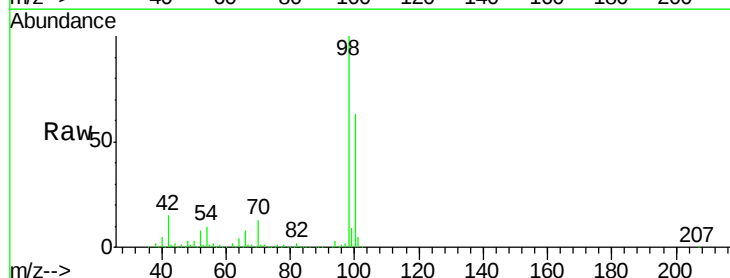
Manual Integrations  
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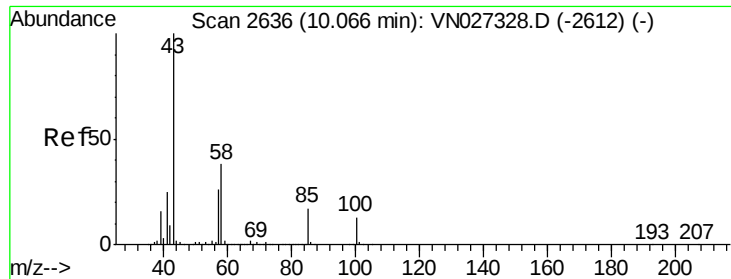
MMDadoda  
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#51  
 Toluene-d8  
 Concen: 35.80 ug/l  
 RT: 10.19 min Scan# 2675  
 Delta R.T. 0.00 min  
 Lab File: VN027338.D  
 Acq: 21 Sep 2015 18:41

| Tgt Ion   | 98   | Resp  | 915194 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 98        | 100  |       |        |
| 100       | 62.5 | 50.5  | 75.7   |





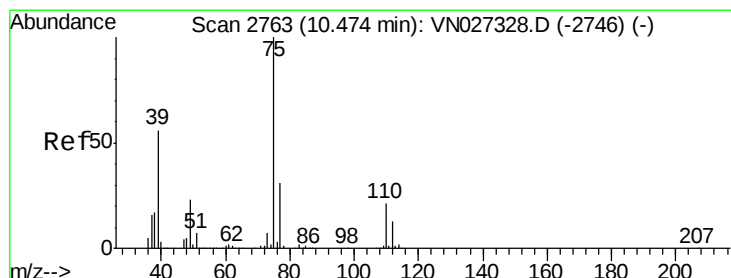
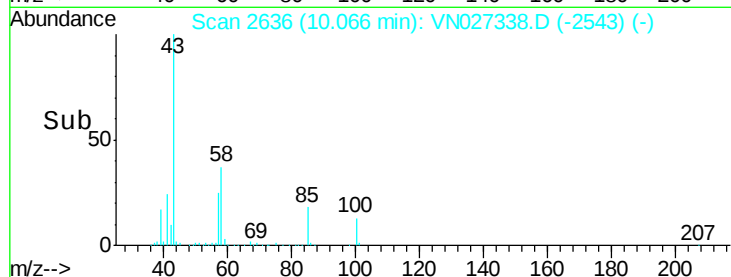
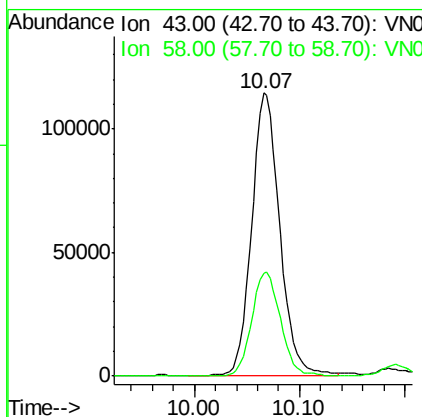
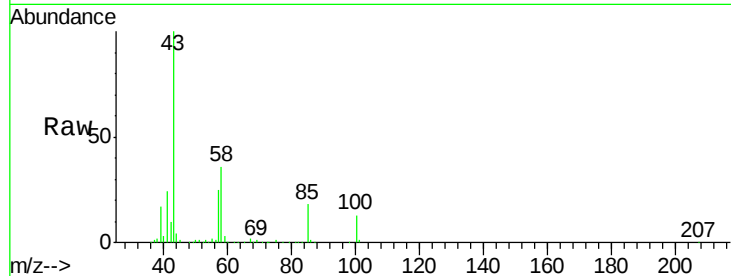
#52  
4-Methyl-2-Pentanone  
Concen: 25.53 ug/l  
RT: 10.07 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampled :  
PT-VOA-WP

Tot Ion: 43 Resp: 211696  
Ion Ratio Lower Upper  
43 100  
58 37.7 29.8 44.8

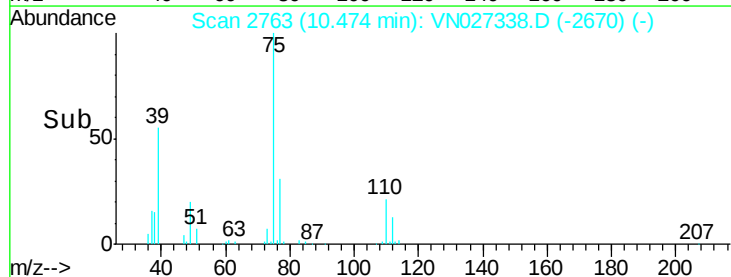
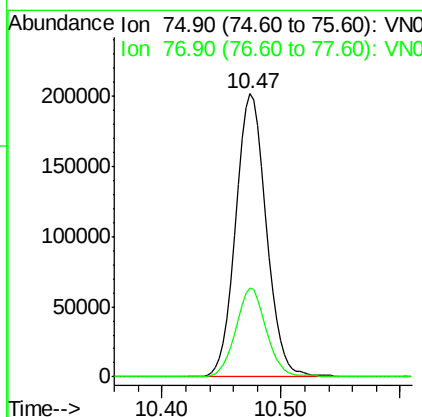
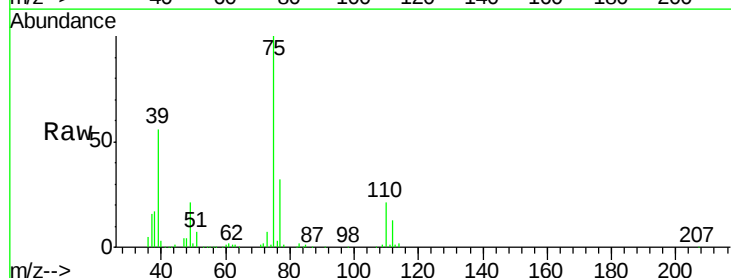
Manual Integrations  
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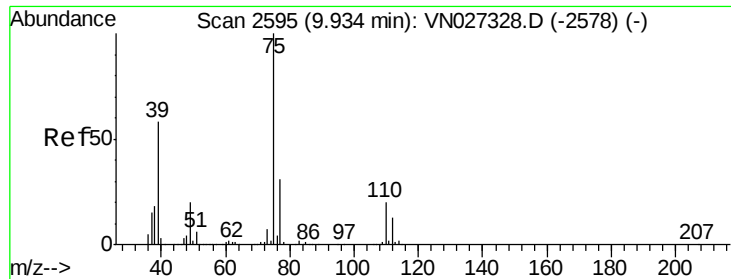
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#54  
t-1,3-Dichloropropene  
Concen: 29.91 ug/l  
RT: 10.47 min Scan# 2763  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Tgt Ion: 75 Resp: 360563  
Ion Ratio Lower Upper  
75 100  
77 31.4 25.4 38.2





#55

cis-1,3-Dichloropropene

Concen: 43.60 ug/l

RT: 9.93 min Scan# 2595

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

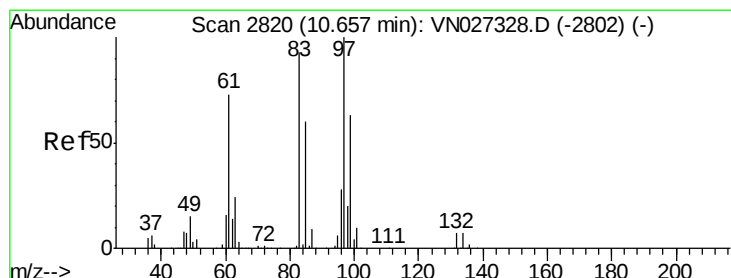
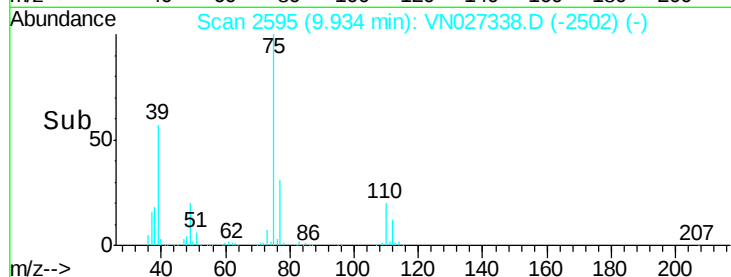
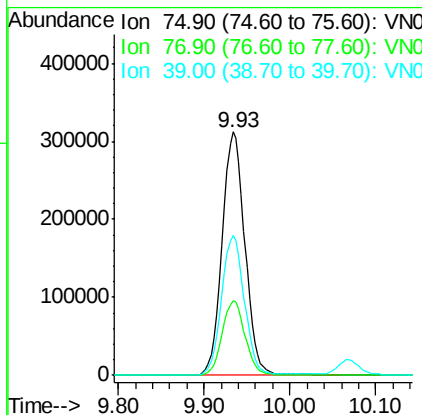
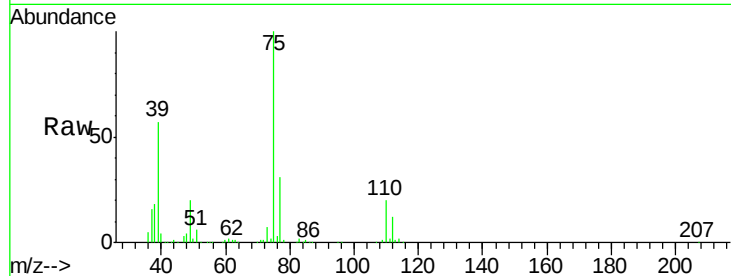
ClientSampleId :

PT-VOA-WP

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 75    | Resp: | 577455 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 30.7  | 25.6  | 38.4   |
| 39       | 57.3  | 41.6  | 62.4   |

Manual Integrations  
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#56

1,1,2-Trichloroethane

Concen: 36.46 ug/l

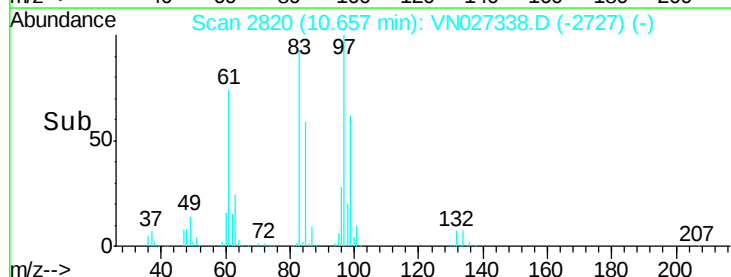
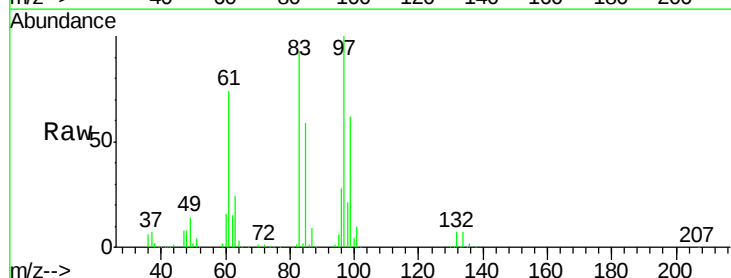
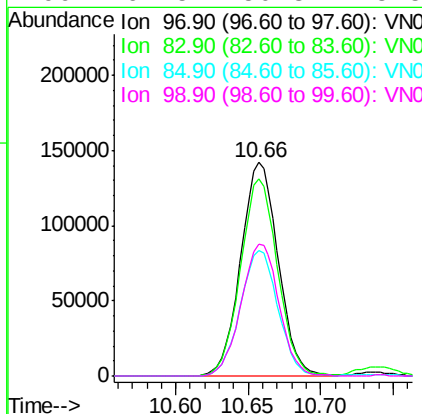
RT: 10.66 min Scan# 2820

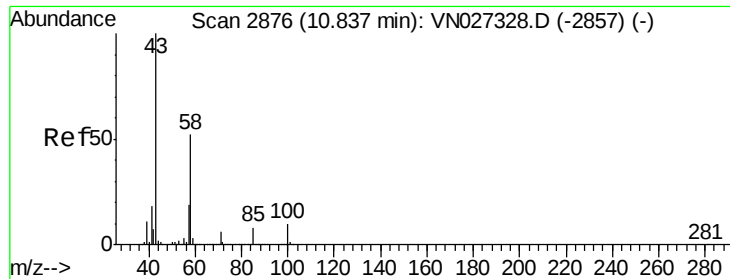
Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 254981 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 92.5  | 75.0  | 112.4  |
| 85       | 58.5  | 48.0  | 72.0   |
| 99       | 61.5  | 50.3  | 75.5   |





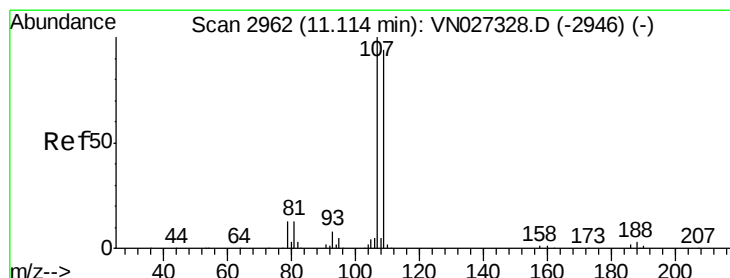
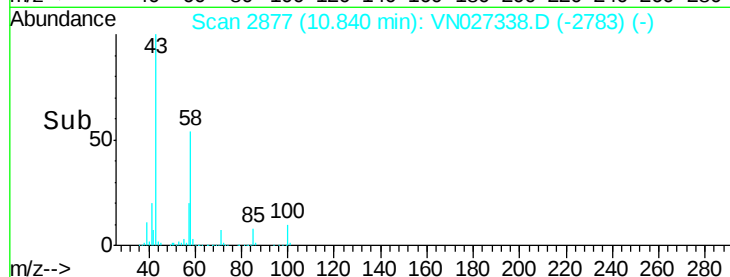
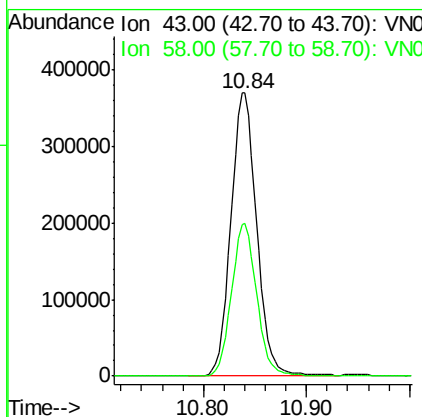
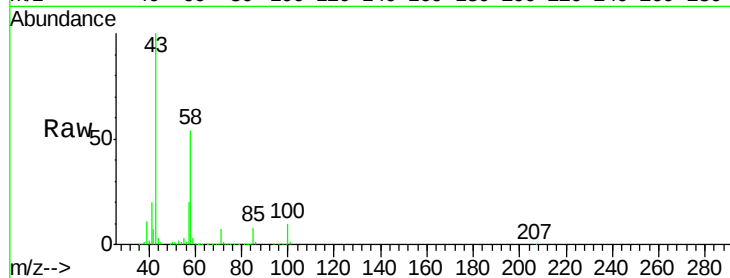
#60  
2-Hexanone  
Concen: 114.08 ug/l  
RT: 10.84 min Scan# 2877  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampled :  
PT-VOA-WP

Tot Ion: 43 Resp: 642851  
Ion Ratio Lower Upper  
43 100  
58 52.8 26.2 78.5

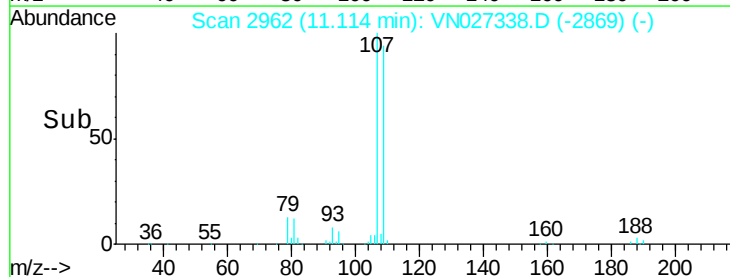
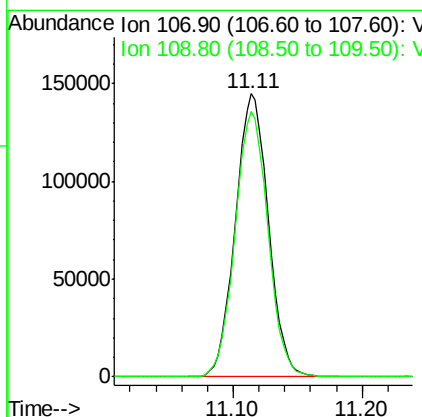
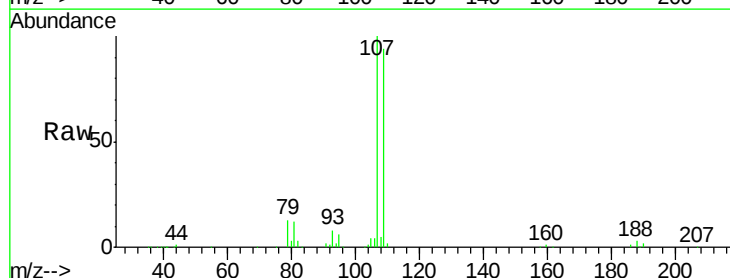
Manual Integrations  
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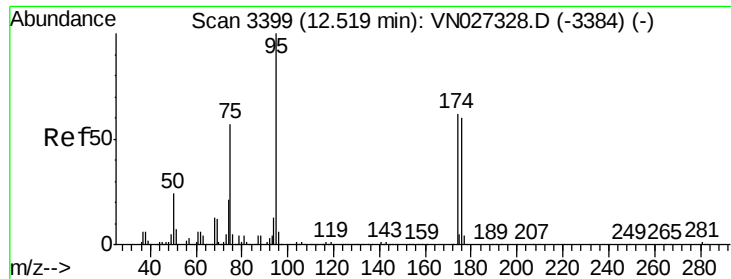
MMDadoda  
9/22/2015 2:28:23 PM



#62  
1,2-Dibromoethane  
Concen: 38.77 ug/l  
RT: 11.11 min Scan# 2962  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Tgt Ion: 107 Resp: 257842  
Ion Ratio Lower Upper  
107 100  
109 93.6 75.6 113.4





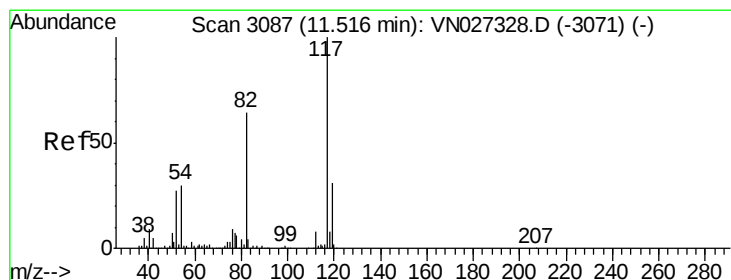
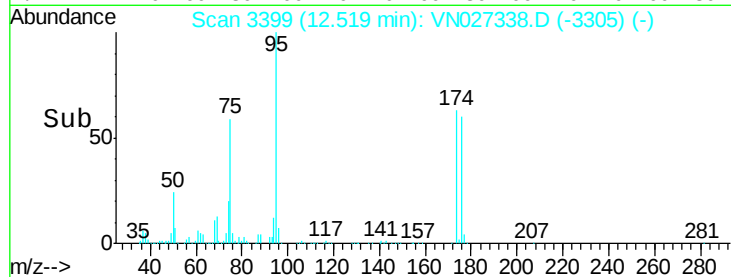
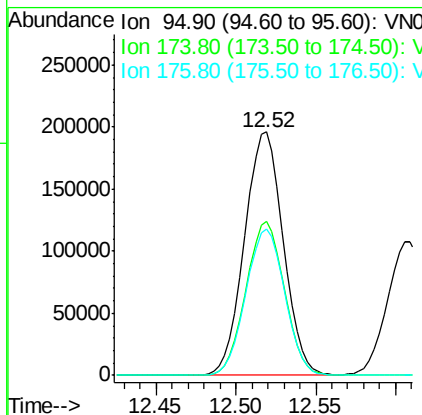
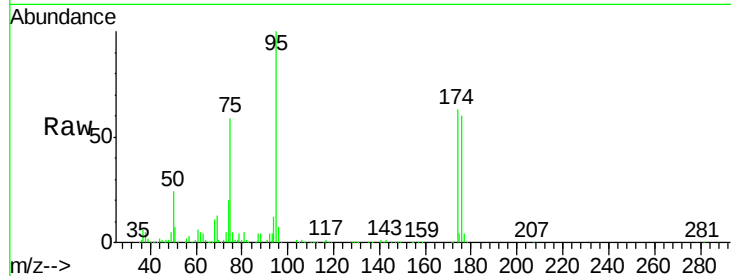
#63  
4-Bromofluorobenzene  
Concen: 34.97 ug/l  
RT: 12.52 min Scan# 3399  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 324830 |       |       |
| 174     | 62.7  | 0.0    | 137.0 |       |
| 176     | 60.2  | 0.0    | 130.8 |       |

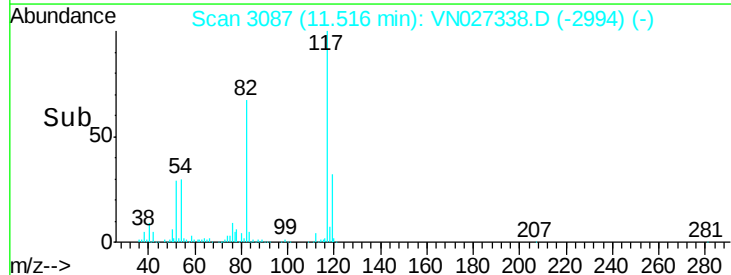
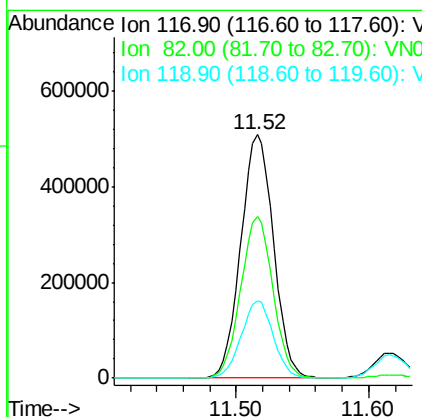
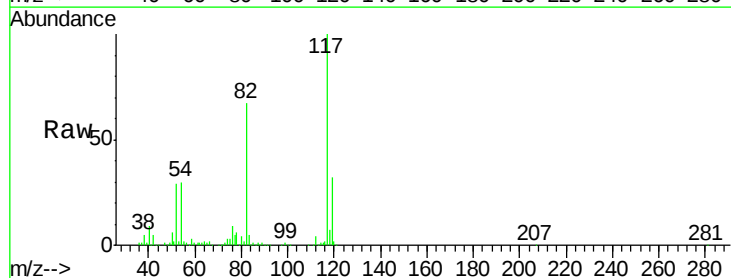
Manual Integrations  
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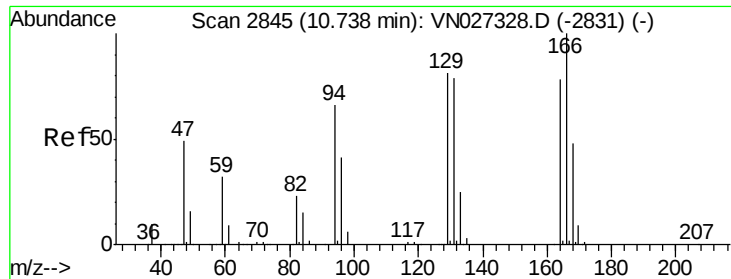
MMDadoda  
9/22/2015 2:28:23 PM



#64  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.52 min Scan# 3087  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 870795 |       |       |
| 82      | 66.6  | 49.6   | 74.4  |       |
| 119     | 31.9  | 24.6   | 36.8  |       |





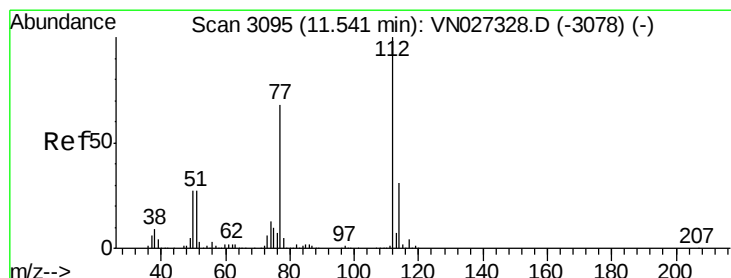
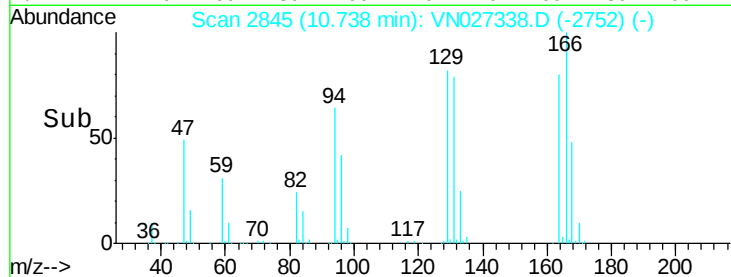
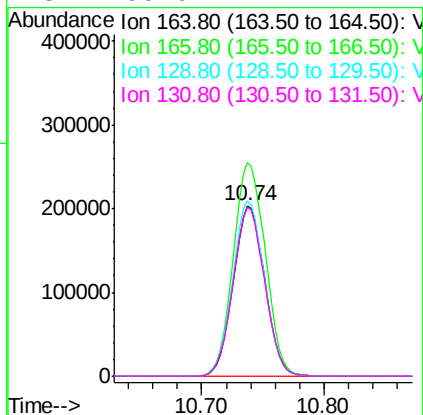
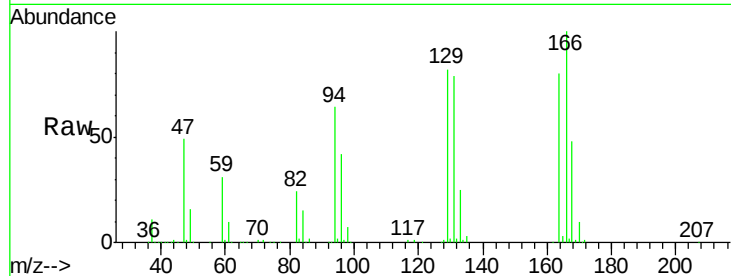
#65  
Tetrachloroethene  
Concen: 70.26 ug/l  
RT: 10.74 min Scan# 2845  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   |       |       |       |
| 166     | 125.3 | 103.4 | 155.0 |       |
| 129     | 103.0 | 77.5  | 116.3 |       |
| 131     | 99.0  | 74.2  | 111.4 |       |

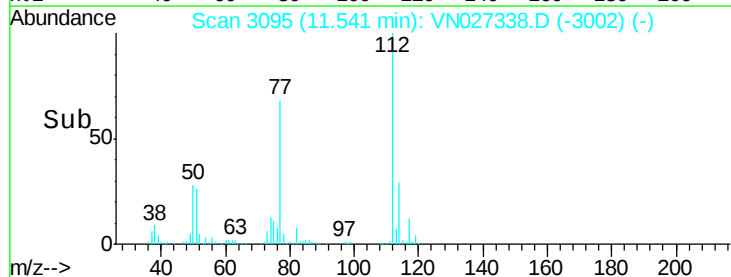
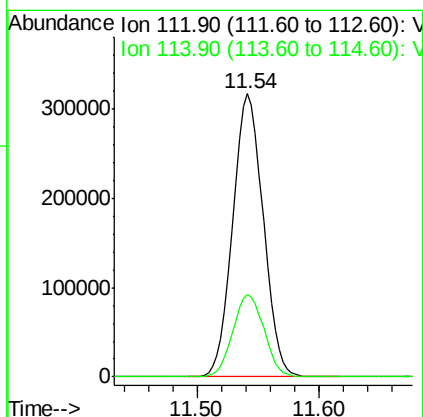
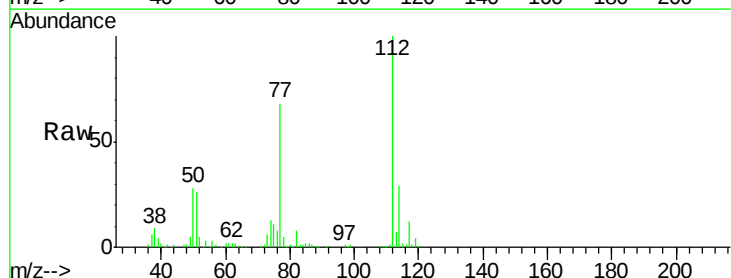
Manual Integrations  
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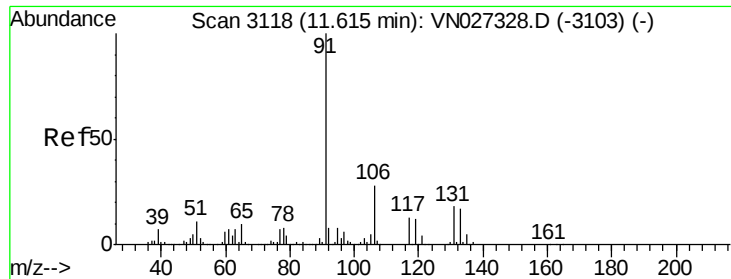
MMDadoda  
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#66  
Chlorobenzene  
Concen: 29.48 ug/l  
RT: 11.54 min Scan# 3095  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 112     | 100   |      |       |       |
| 114     | 29.2  | 24.9 | 37.3  |       |





#67

1,1,1,2-Tetrachloroethane

Concen: 19.32 ug/l

RT: 11.62 min Scan# 3118

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

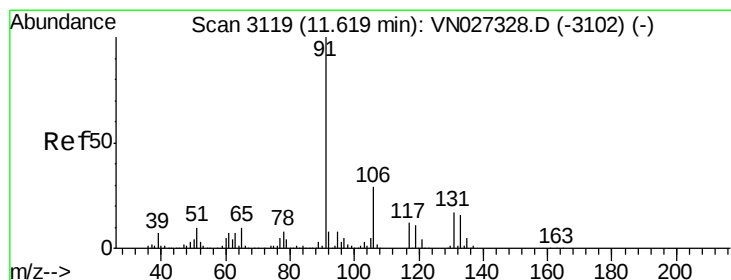
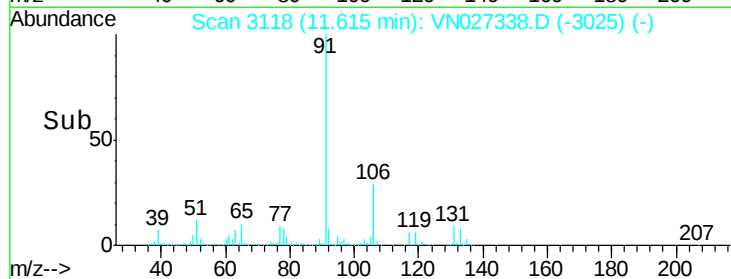
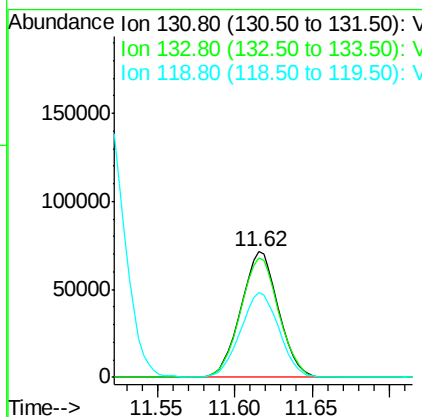
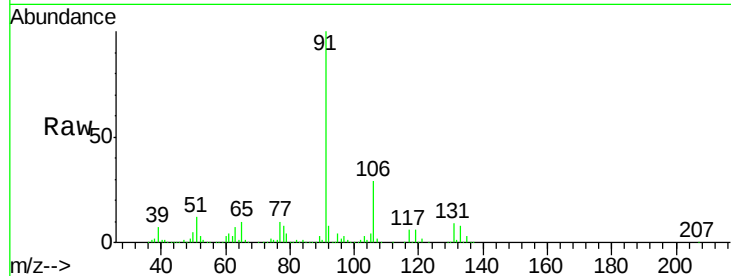
ClientSampleId :

PT-VOA-WP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 131     | 100   | 121069 |       |       |
| 133     | 96.7  | 47.0   | 141.2 |       |
| 119     | 69.1  | 35.1   | 105.5 |       |

Manual Integrations  
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#68

Ethyl Benzene

Concen: 40.85 ug/l

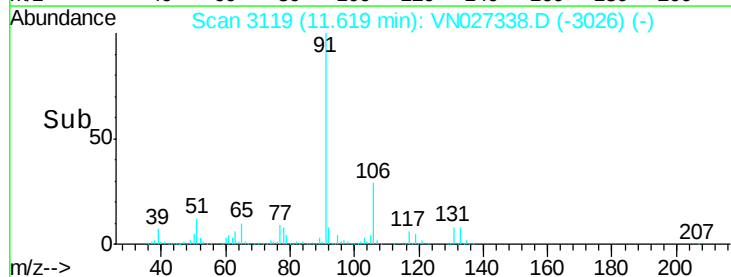
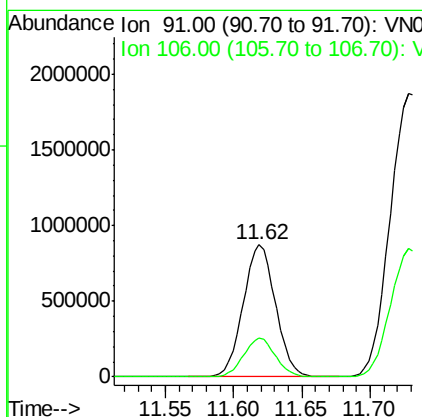
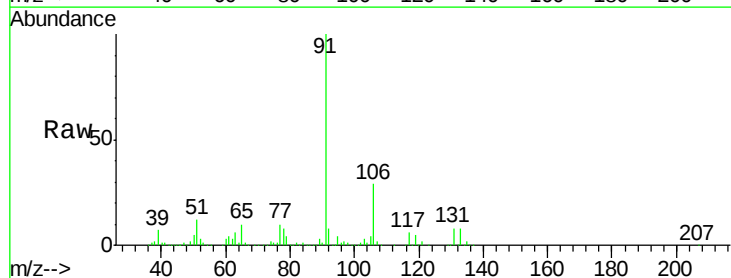
RT: 11.62 min Scan# 3119

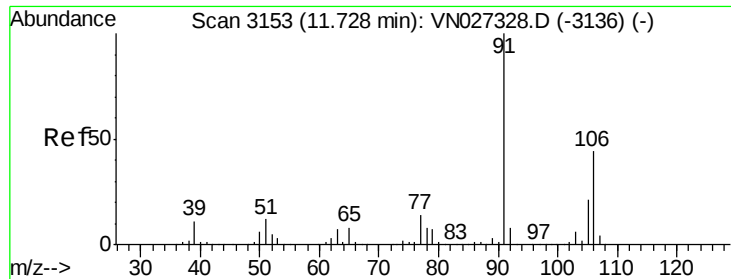
Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 91      | 100   | 1438658 |       |       |
| 106     | 29.4  | 23.1    | 34.7  |       |





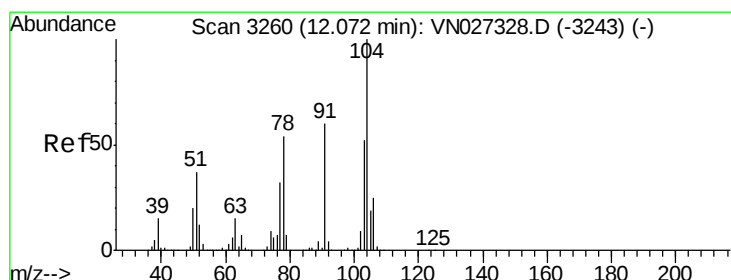
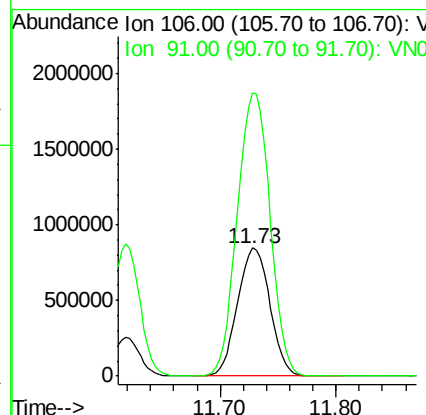
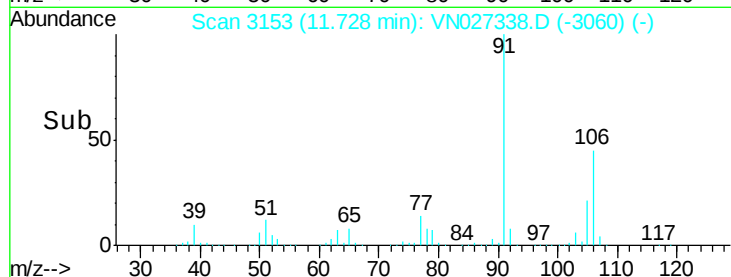
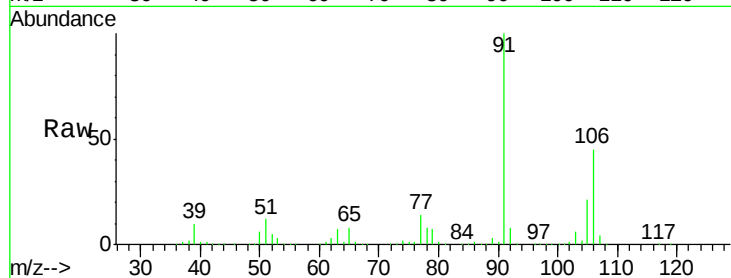
#69  
m/p-Xylenes  
Concen: 134.81 ug/l  
RT: 11.73 min Scan# 3153  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

Tot Ion:106 Resp: 1645877  
Ion Ratio Lower Upper  
106 100  
91 223.5 167.1 250.7

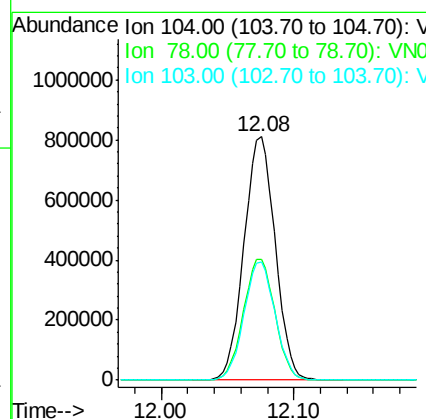
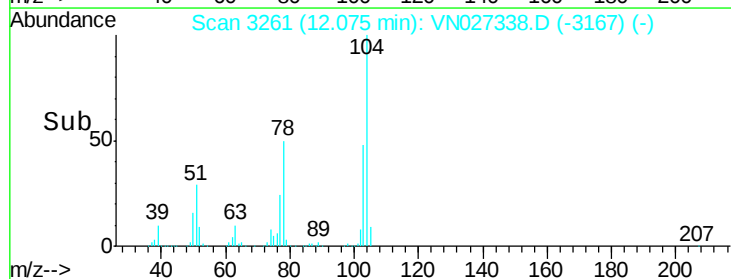
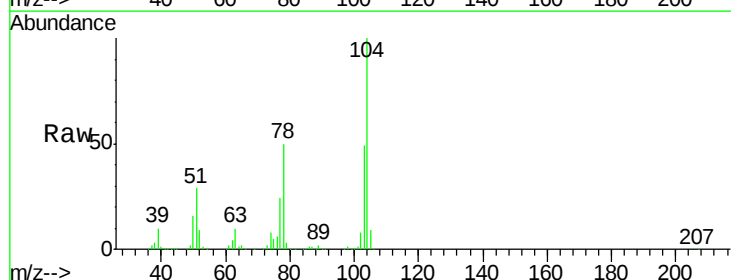
Manual Integrations  
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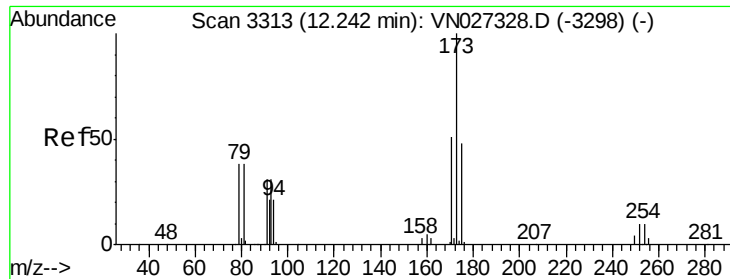
MMDadoda  
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#71  
Styrene  
Concen: 67.59 ug/l  
RT: 12.08 min Scan# 3261  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Tgt Ion:104 Resp: 1327465  
Ion Ratio Lower Upper  
104 100  
78 50.1 41.6 62.4  
103 48.4 44.2 66.2





#72

Bromoform

Concen: 32.79 ug/l

RT: 12.24 min Scan# 3313

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

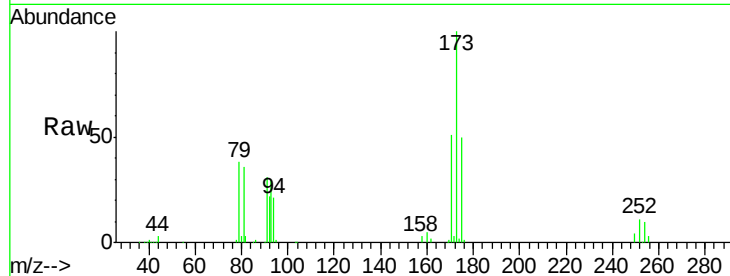
ClientSampled :

PT-VOA-WP

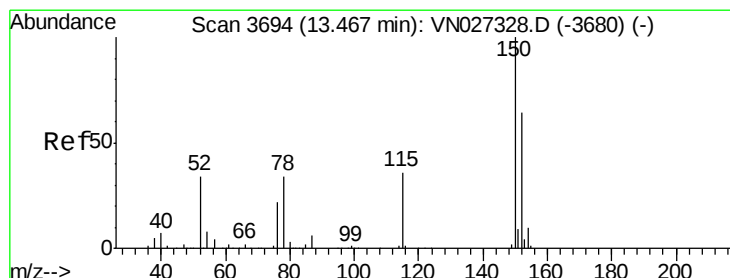
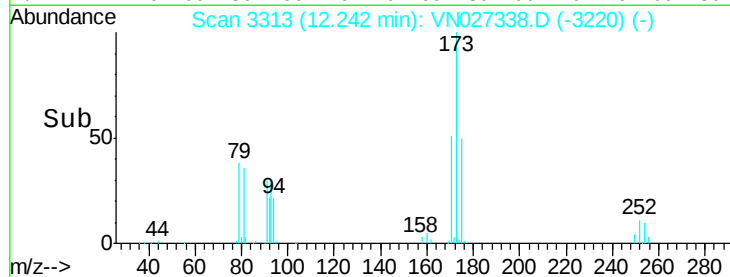
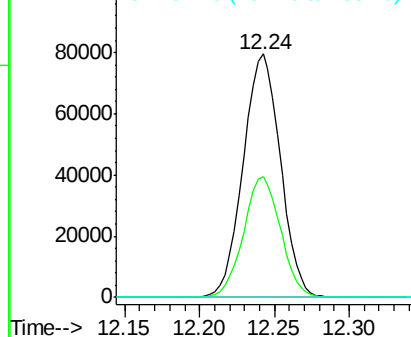
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 173   | Resp: | 137826 |
| Ion Ratio | Lower | Upper |        |
| 173       | 100   |       |        |
| 175       | 49.3  | 24.4  | 73.4   |
| 254       | 0.1   | 0.1   | 0.1    |

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Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

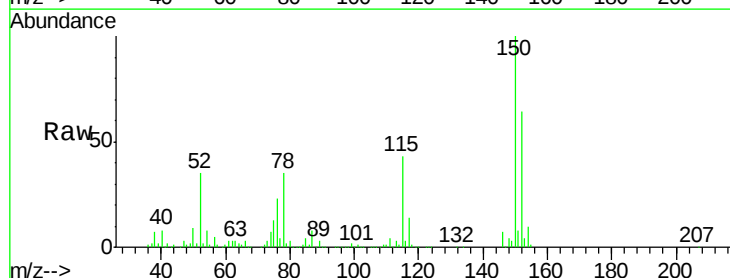
RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

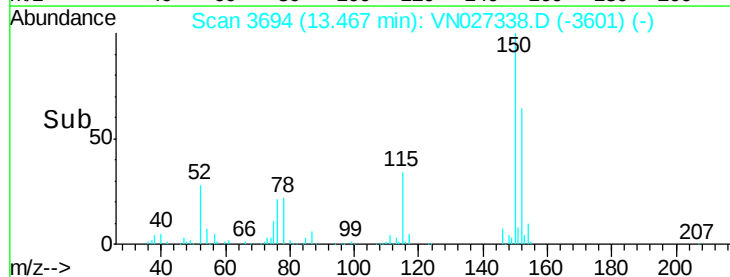
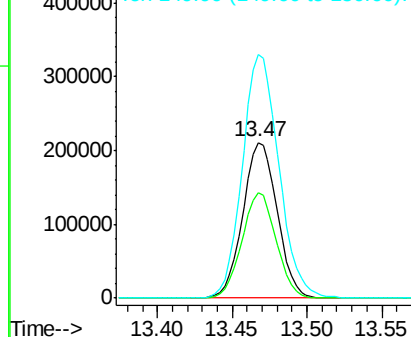
Lab File: VN027338.D

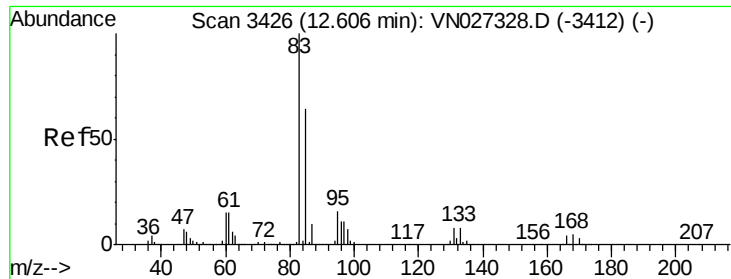
Acq: 21 Sep 2015 18:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 337180 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 67.6  | 30.8  | 92.3   |
| 150       | 166.1 | 0.0   | 345.0  |



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





#76

1,1,2,2-Tetrachloroethane

Concen: 115.27 ug/l

RT: 12.61 min Scan# 3426

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

ClientSampled :

PT-VOA-WP

Tot Ion: 83 Resp: 1096066

Ion Ratio Lower Upper

83 100

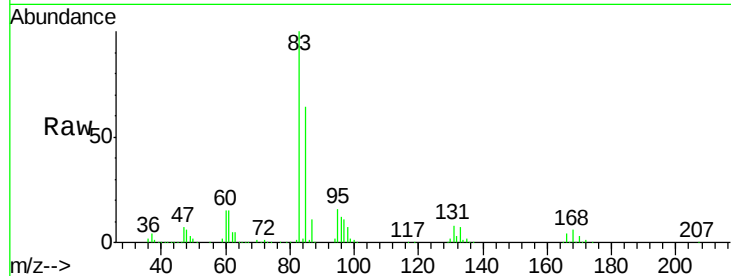
131 8.0 4.1 12.3

85 64.8 31.9 95.7

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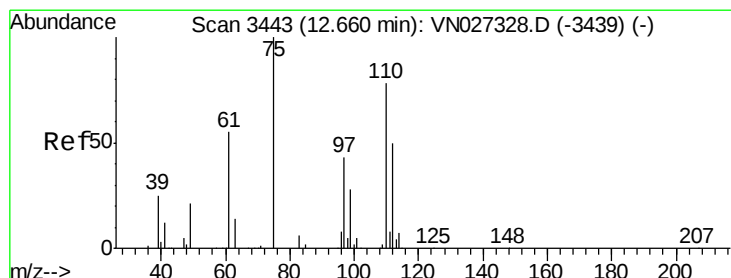
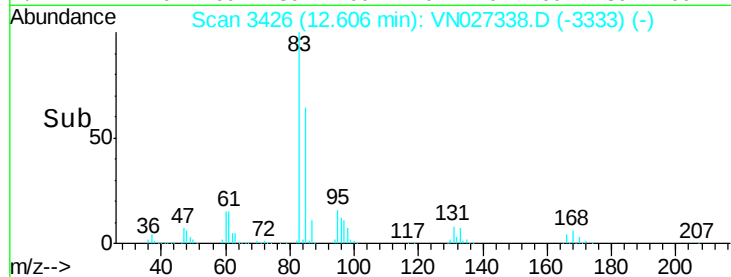
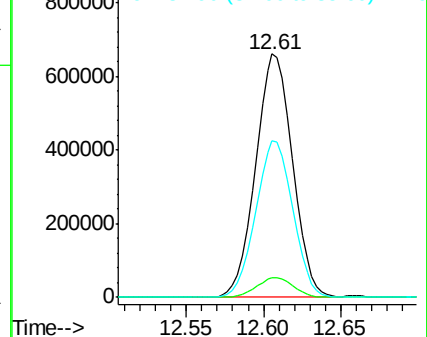
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Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#77

1,2,3-Trichloropropane

Concen: 24.06 ug/l

RT: 12.66 min Scan# 3444

Delta R.T. 0.00 min

Lab File: VN027338.D

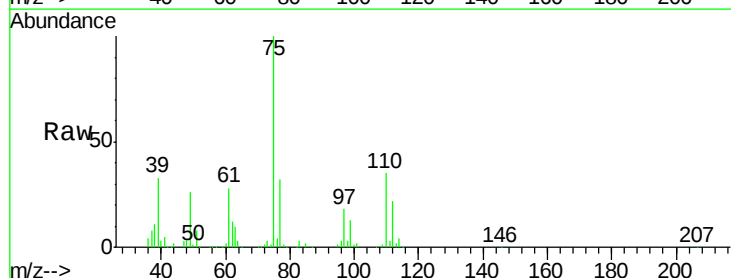
Acq: 21 Sep 2015 18:41

Tgt Ion: 75 Resp: 203695

Ion Ratio Lower Upper

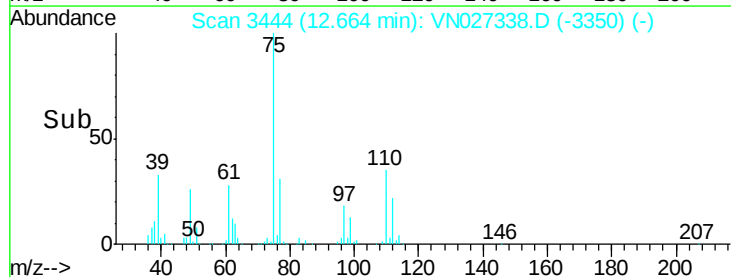
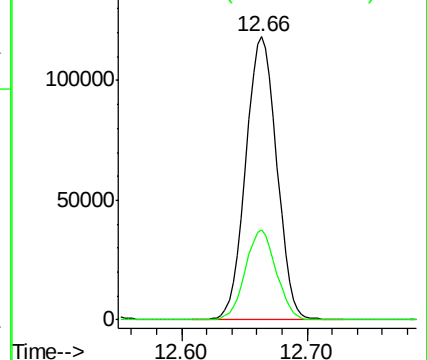
75 100

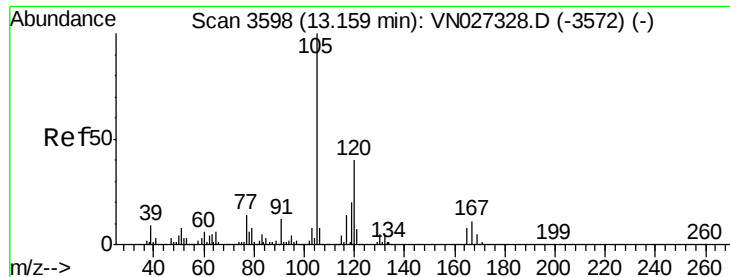
77 31.8 103.1 309.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#85

1,2,4-Trimethylbenzene

Concen: 75.43 ug/l

RT: 13.16 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

ClientSampled :

PT-VOA-WP

Tot Ion:105 Resp: 2048281

Ion Ratio Lower Upper

105 100

120 40.5

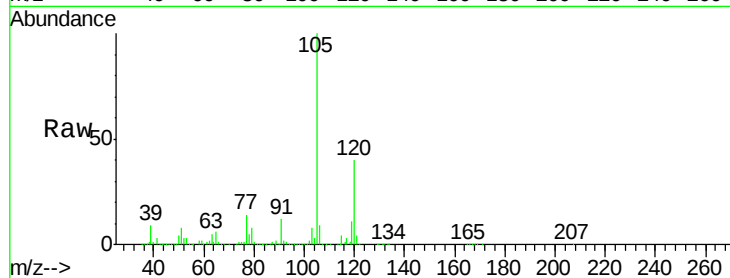
21.9

65.5

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.16

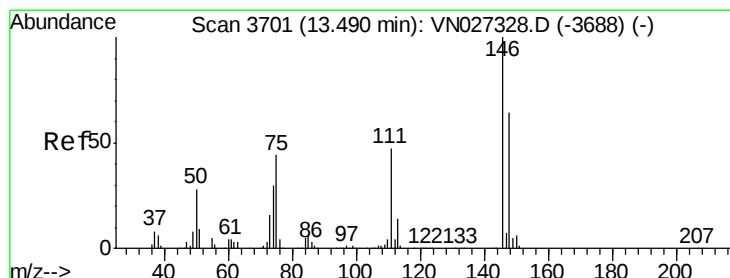
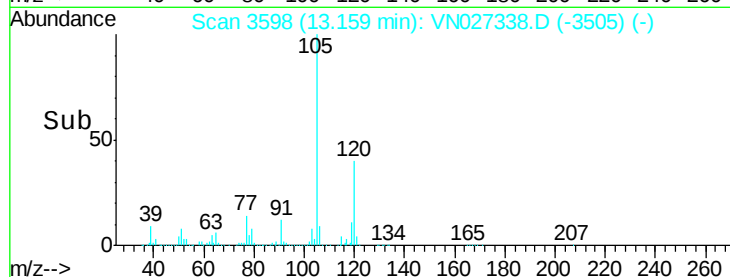
1500000

1000000

500000

0

Time-->



#89

1,4-Dichlorobenzene

Concen: 23.72 ug/l

RT: 13.49 min Scan# 3701

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Tgt Ion:146 Resp: 273772

Ion Ratio Lower Upper

146 100

111 49.0

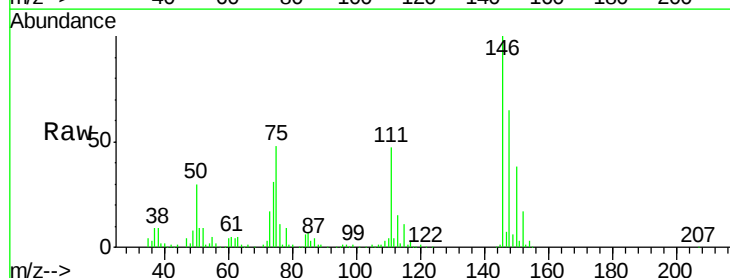
19.9

59.6

148 64.4

31.7

95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.49

200000

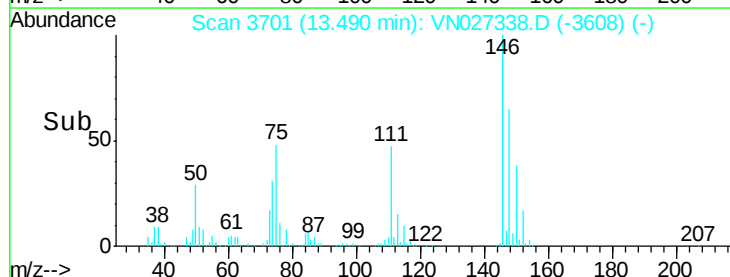
150000

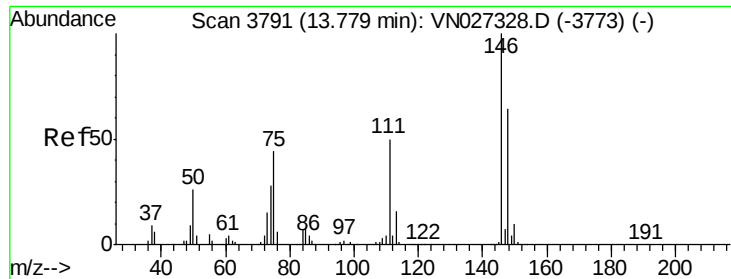
100000

50000

0

Time-->





#92

1,2-Dichlorobenzene

Concen: 30.22 ug/l

RT: 13.78 min Scan# 3791

Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

Instrument :

MSVOA\_N

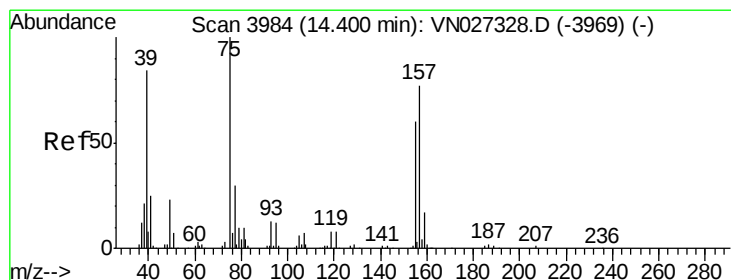
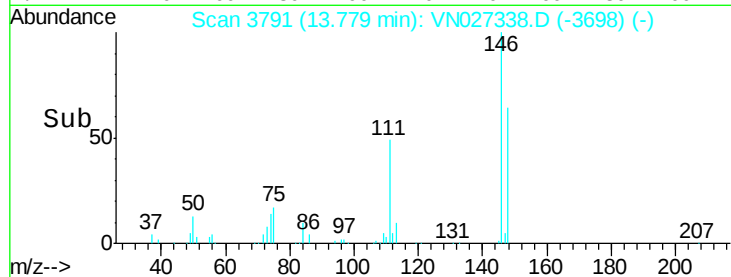
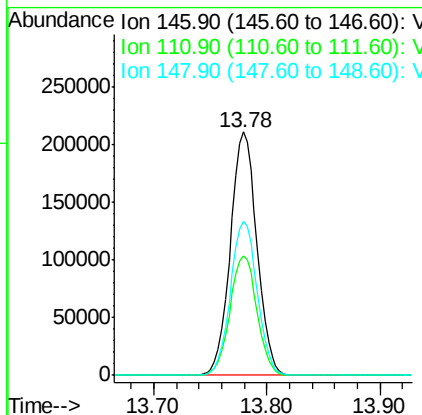
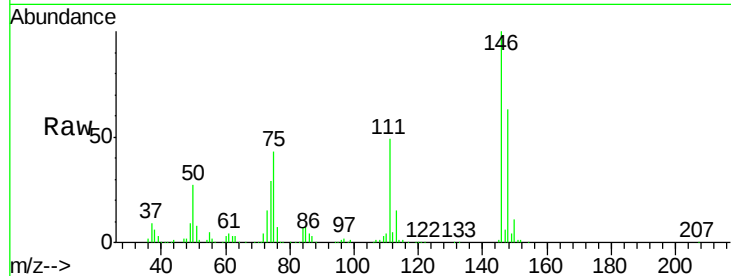
ClientSampleId :

PT-VOA-WP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 344277 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 50.0  | 22.1  | 66.3   |
| 148       | 63.8  | 32.0  | 96.0   |

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#93

1,2-Dibromo-3-Chloropropane

Concen: 85.17 ug/l

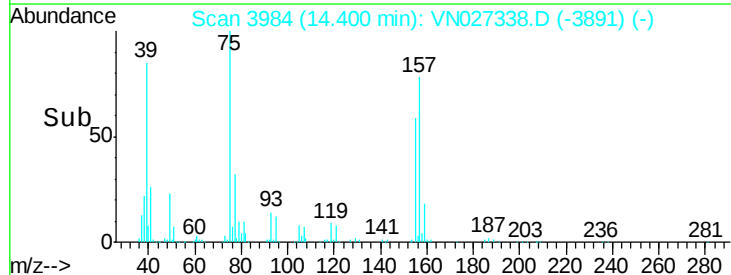
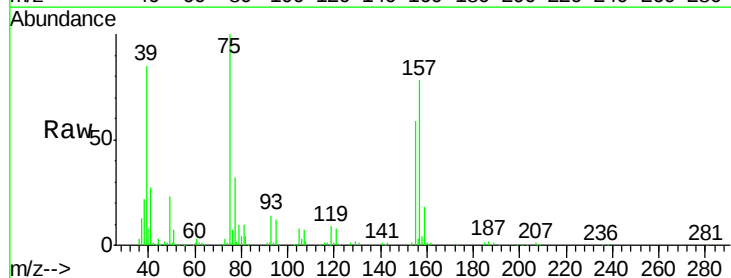
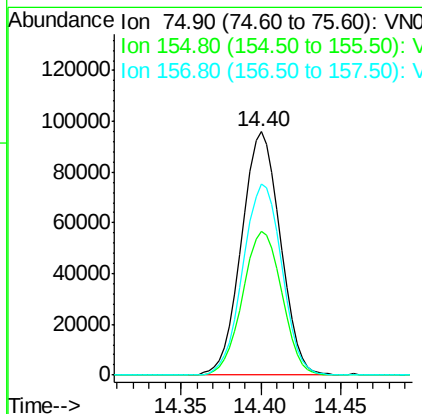
RT: 14.40 min Scan# 3984

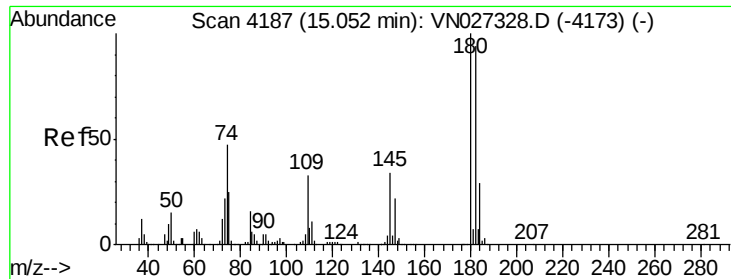
Delta R.T. 0.00 min

Lab File: VN027338.D

Acq: 21 Sep 2015 18:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 158711 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 155       | 59.7  | 35.6  | 106.9  |
| 157       | 79.1  | 44.6  | 133.8  |





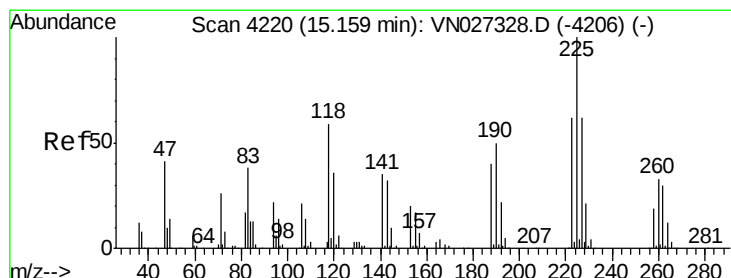
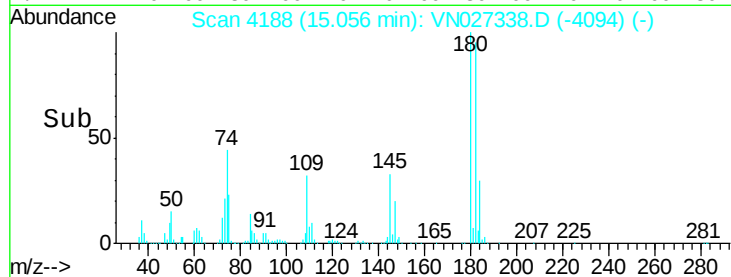
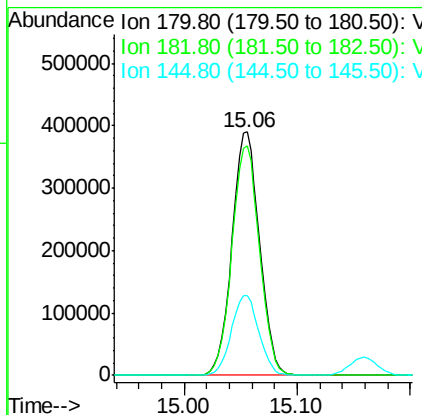
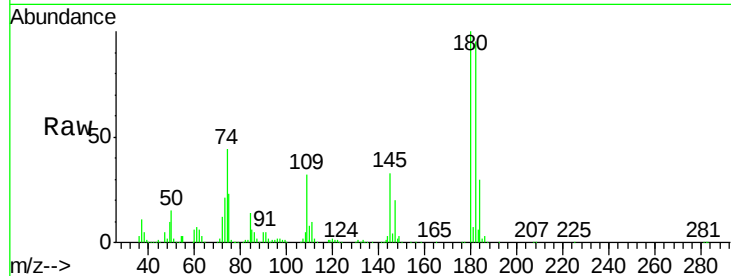
#94  
1,2,4-Trichlorobenzene  
Concen: 112.25 ug/l  
RT: 15.06 min Scan# 4187  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampled :  
PT-VOA-WP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 660996 |       |       |
| 182     | 94.5  | 47.5   | 142.5 |       |
| 145     | 32.8  | 15.1   | 45.3  |       |

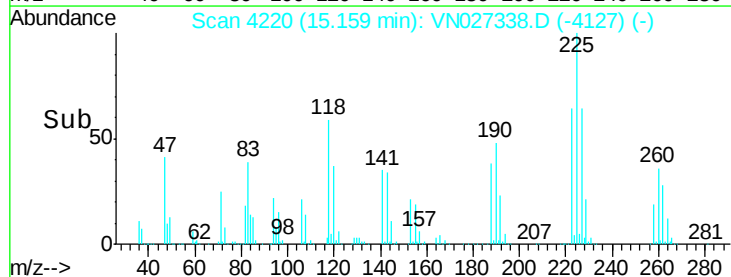
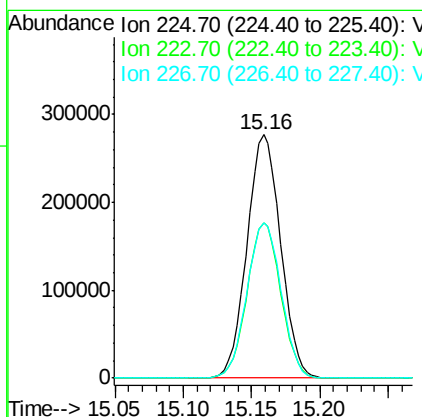
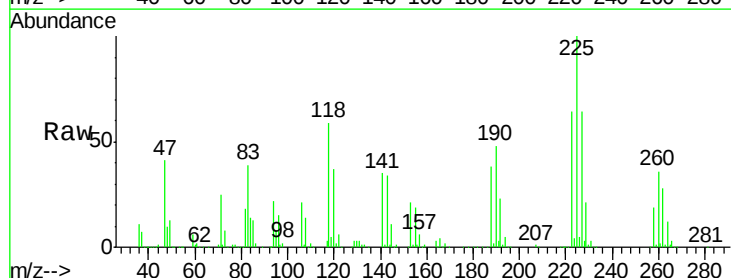
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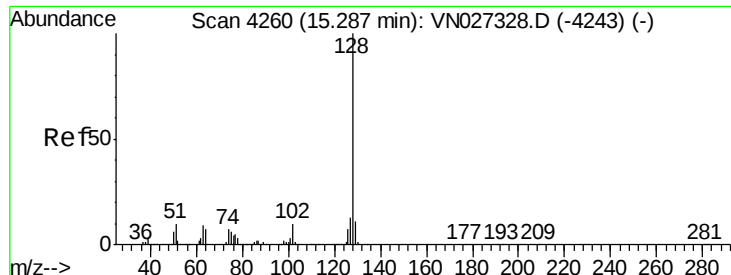
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#95  
Hexachlorobutadiene  
Concen: 147.25 ug/l  
RT: 15.16 min Scan# 4220  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 475076 |       |       |
| 223     | 63.7  | 30.8   | 92.3  |       |
| 227     | 64.5  | 31.7   | 95.1  |       |





#96  
Naphthalene  
Concen: 70.51 ug/l  
RT: 15.29 min Scan# 4260  
Delta R.T. 0.00 min  
Lab File: VN027338.D  
Acq: 21 Sep 2015 18:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.4  | 15.6  |
| 129     | 10.7  | 8.6   | 12.8  |

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