

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091521\  
 Data File : VN068482.D  
 Acq On : 15 Sep 2021 14:27  
 Operator : JC/MD  
 Sample : M3687-21  
 Misc : 5.95g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 9 Sample Multiplier: 1

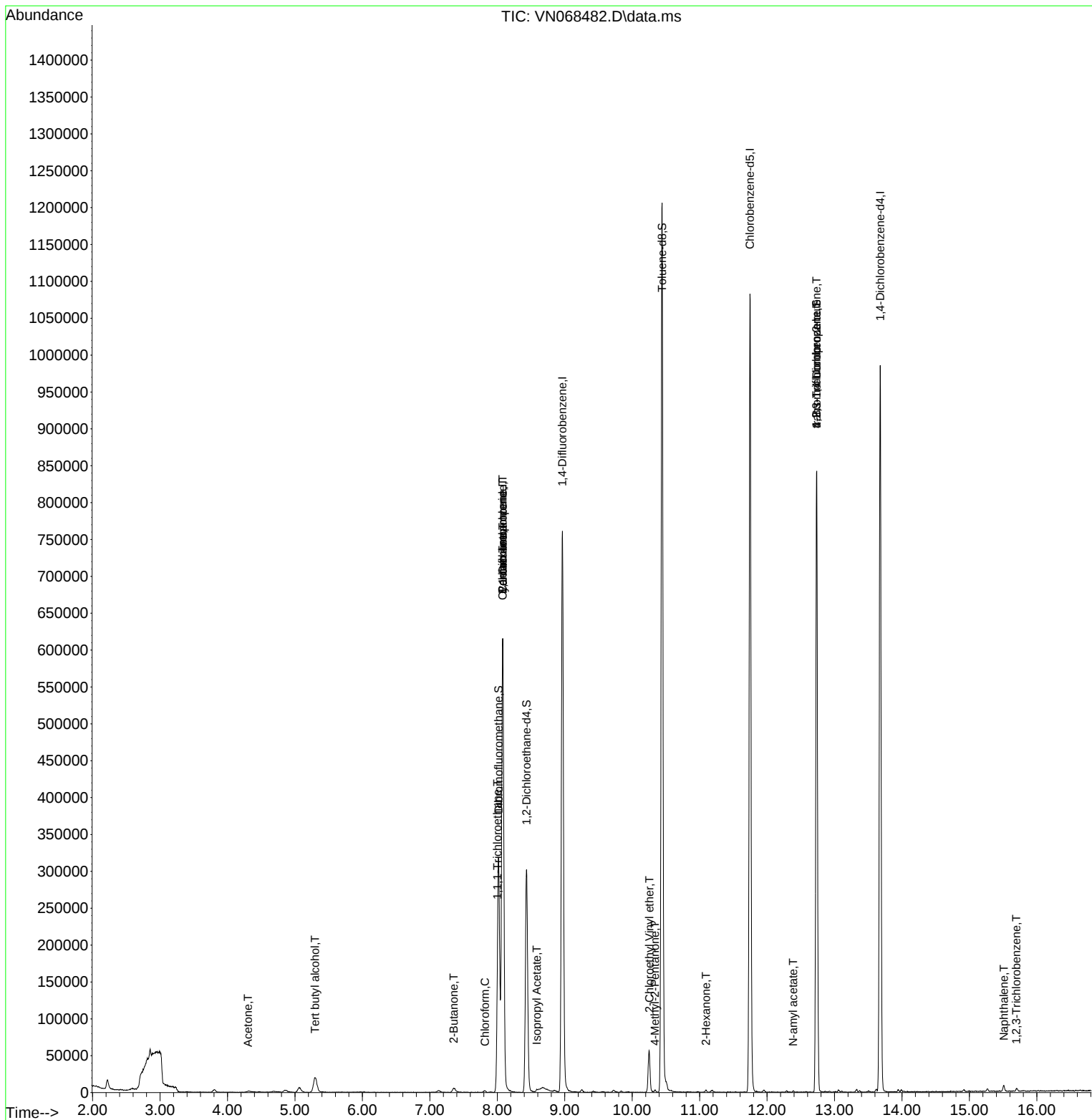
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 A005015

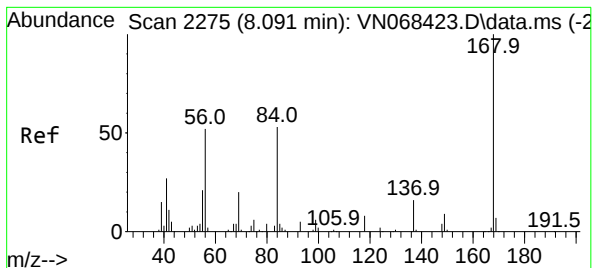
Quant Time: Sep 16 03:14:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 10 04:04:05 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.080          | 168  | 528739              | 50.000    | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.965          | 114  | 766141              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747         | 117  | 691821              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678         | 152  | 293062              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434          | 65   | 259761              | 53.558    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 107.120% |           |        |          |
| 35) Dibromofluoromethane      | 8.019          | 113  | 232107              | 50.231    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 100.460% |           |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 919728              | 54.795    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 109.580% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.734         | 95   | 281052              | 52.328    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 104.660% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 5.296          | 59   | 10177               | 2.330     | ug/l # | 88       |
| 16) Acetone                   | 4.304          | 43   | 957                 | 0.596     | ug/l # | 80       |
| 18) Methyl Acetate            | 4.846          | 43   | 3668                | Below Cal | #      | 67       |
| 20) Methylene Chloride        | 5.063          | 84   | 3541                | Below Cal |        | 86       |
| 25) 2-Butanone                | 7.354          | 43   | 3390                | 1.438     | ug/l   | 90       |
| 30) Chloroform                | 7.818          | 83   | 2462                | 0.269     | ug/l   | 91       |
| 31) Cyclohexane               | 8.078          | 56   | 8735                | 1.188     | ug/l # | 27       |
| 32) 1,1,1-Trichloroethane     | 8.003          | 97   | 9165                | 1.079     | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 8.080          | 75   | 33816               | 5.294     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 8.080          | 117  | 47453               | 6.201     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.585          | 43   | 2444                | 0.285     | ug/l # | 51       |
| 51) 4-Methyl-2-Pentanone      | 10.339         | 43   | 1662                | 0.340     | ug/l # | 84       |
| 58) 2-Chloroethyl Vinyl ether | 10.258         | 63   | 51                  | 9.085     | ug/l # | 40       |
| 59) 2-Hexanone                | 11.095         | 43   | 1908                | 0.582     | ug/l   | 91       |
| 74) N-amyl acetate            | 12.388         | 43   | 1071                | 0.230     | ug/l # | 72       |
| 76) 1,2,3-Trichloropropane    | 12.734         | 75   | 142919              | 30.894    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.734         | 75   | 142919              | 108.078   | ug/l # | 13       |
| 95) Naphthalene               | 15.512         | 128  | 8405                | 4.170     | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene    | 15.694         | 180  | 847                 | 0.201     | ug/l # | 22       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Sep 16 03:14:15 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 10 04:04:05 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.080 min Scan# 2271

Delta R.T. -0.011 min

Lab File: VN068482.D

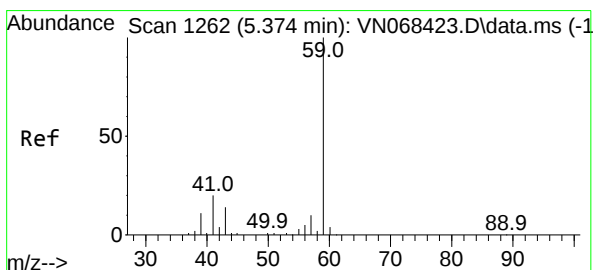
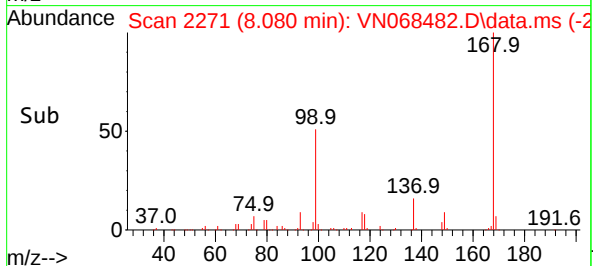
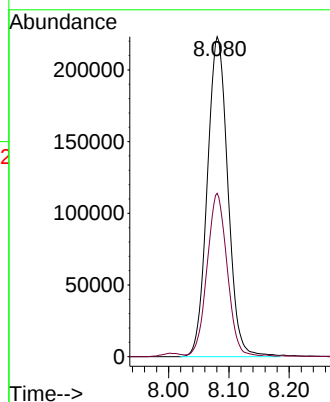
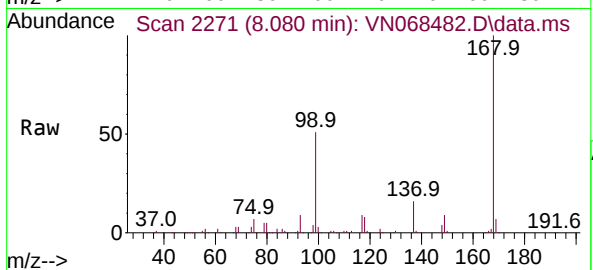
Acq: 15 Sep 2021 14:27

Tgt Ion:168 Resp: 528739

Ion Ratio Lower Upper

168 100

99 50.8 38.2 57.4



#11

Tert butyl alcohol

Concen: 2.330 ug/l

RT: 5.296 min Scan# 1233

Delta R.T. -0.078 min

Lab File: VN068482.D

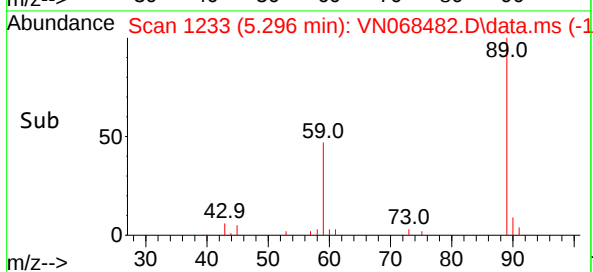
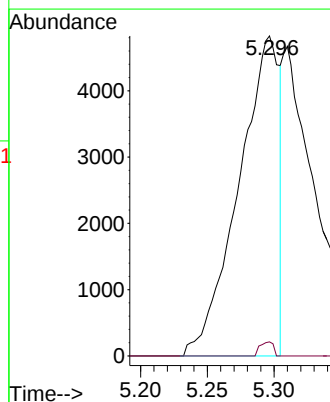
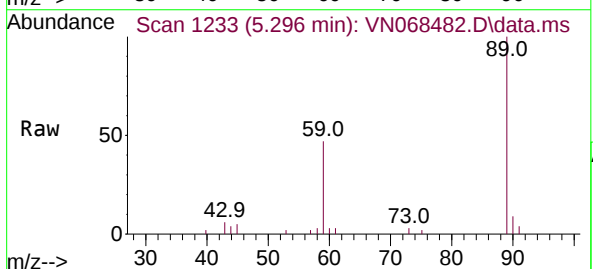
Acq: 15 Sep 2021 14:27

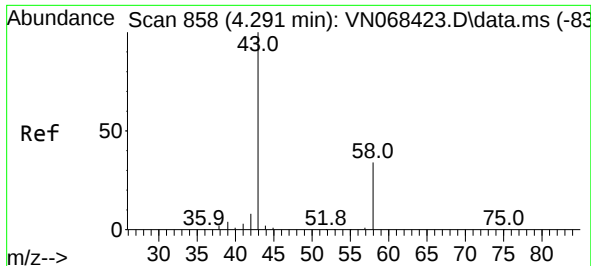
Tgt Ion: 59 Resp: 10177

Ion Ratio Lower Upper

59 100

57 1.5 4.3 6.5#

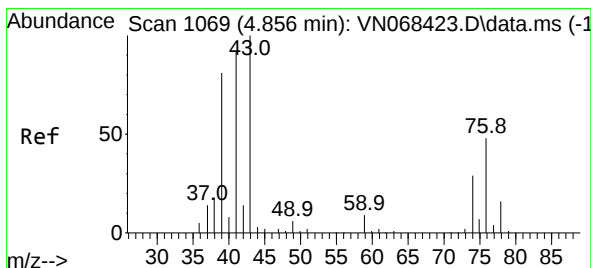
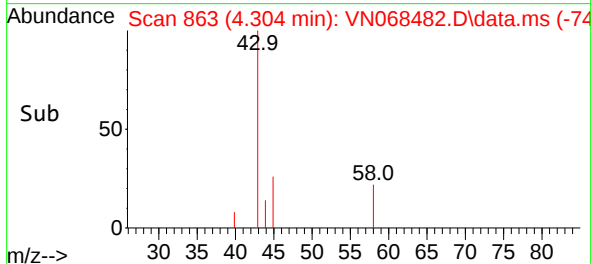
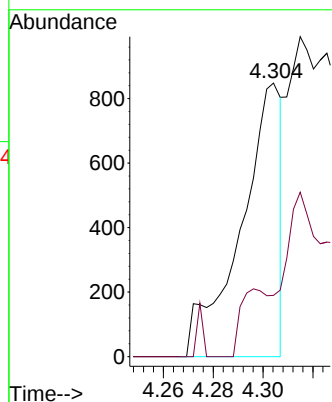
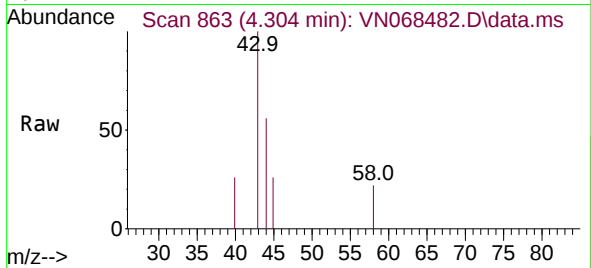




#16  
Acetone  
Concen: 0.596 ug/l  
RT: 4.304 min Scan# 863  
Delta R.T. 0.014 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

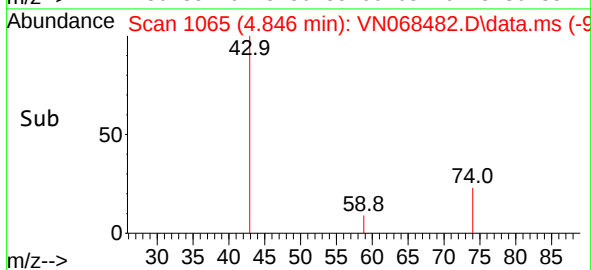
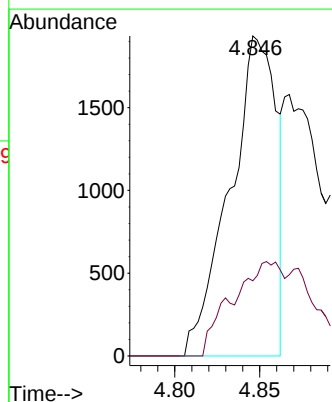
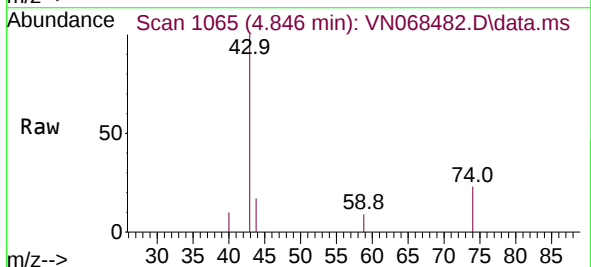
Instrument :  
MSVOA\_N  
ClientSampled :  
A005015

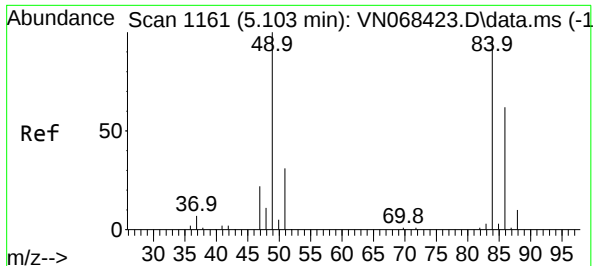
Tgt Ion: 43 Resp: 957  
Ion Ratio Lower Upper  
43 100  
58 22.4 27.0 40.6#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.846 min Scan# 1065  
Delta R.T. -0.010 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion: 43 Resp: 3668  
Ion Ratio Lower Upper  
43 100  
74 11.8 23.5 35.3#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.063 min Scan# 1146

Delta R.T. -0.040 min

Lab File: VN068482.D

Acq: 15 Sep 2021 14:27

Instrument :  
MSVOA\_N  
ClientSampled :  
A005015

Tgt Ion: 84 Resp: 3541

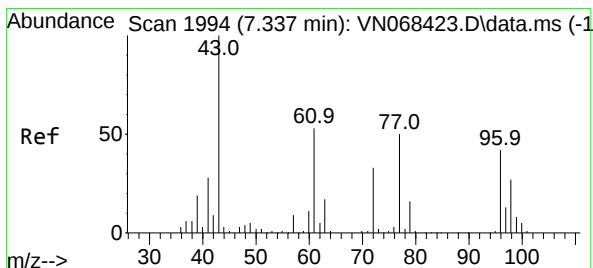
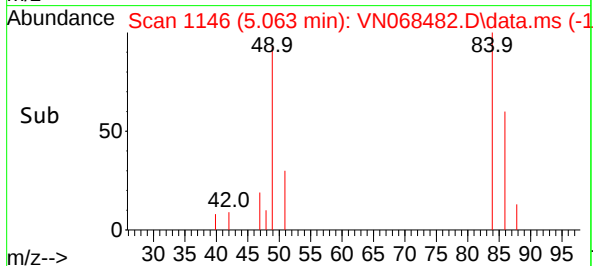
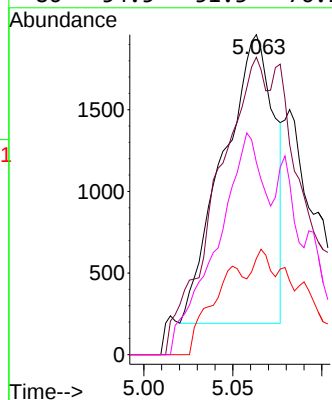
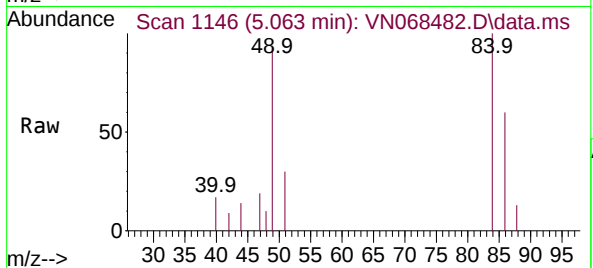
Ion Ratio Lower Upper

84 100

49 85.7 83.0 124.6

51 33.3 25.4 38.0

86 54.5 51.3 76.9



#25

2-Butanone

Concen: 1.438 ug/l

RT: 7.354 min Scan# 2000

Delta R.T. 0.016 min

Lab File: VN068482.D

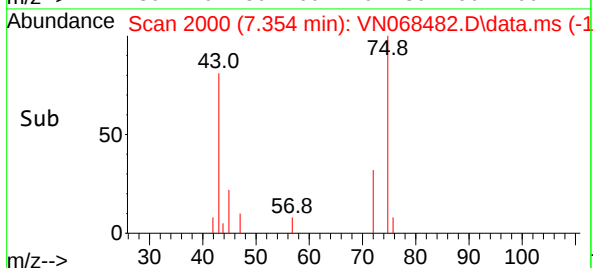
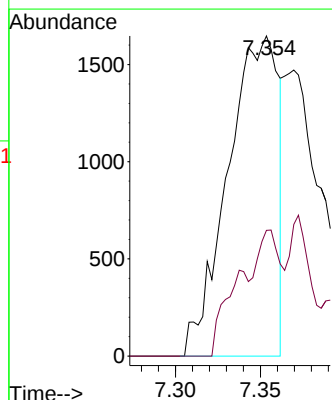
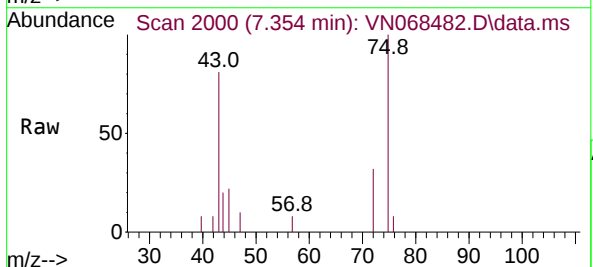
Acq: 15 Sep 2021 14:27

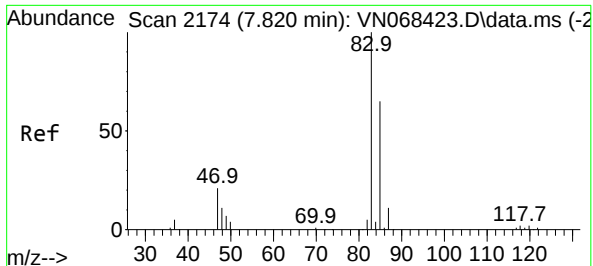
Tgt Ion: 43 Resp: 3390

Ion Ratio Lower Upper

43 100

72 39.3 26.7 40.1





#30

Chloroform

Concen: 0.269 ug/l

RT: 7.818 min Scan# 2173

Delta R.T. -0.003 min

Lab File: VN068482.D

Acq: 15 Sep 2021 14:27

Tgt Ion: 83 Resp: 2462

Ion Ratio Lower Upper

83 100

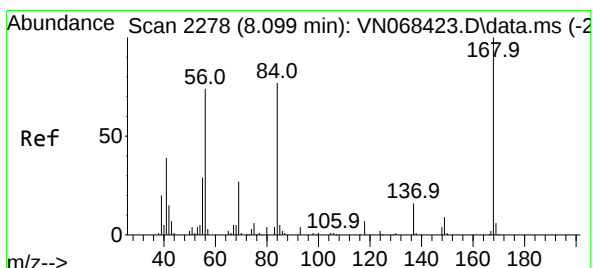
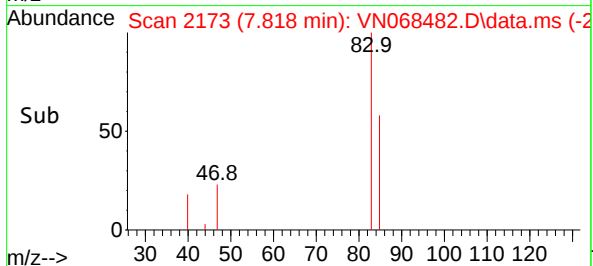
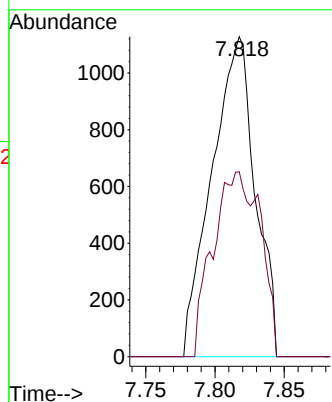
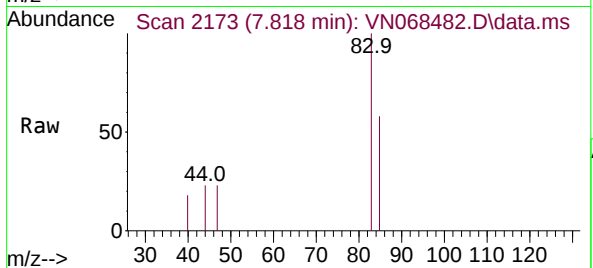
85 57.8 52.2 78.4

Instrument :

MSVOA\_N

ClientSampleId :

A005015



#31

Cyclohexane

Concen: 1.188 ug/l

RT: 8.078 min Scan# 2270

Delta R.T. -0.021 min

Lab File: VN068482.D

Acq: 15 Sep 2021 14:27

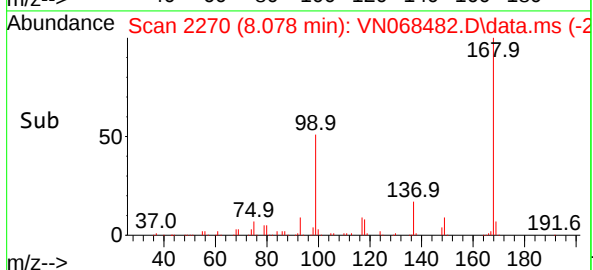
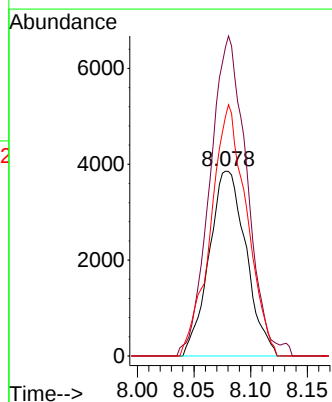
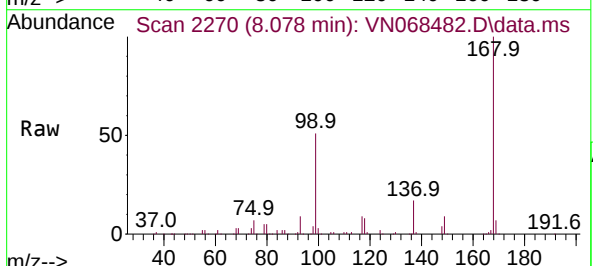
Tgt Ion: 56 Resp: 8735

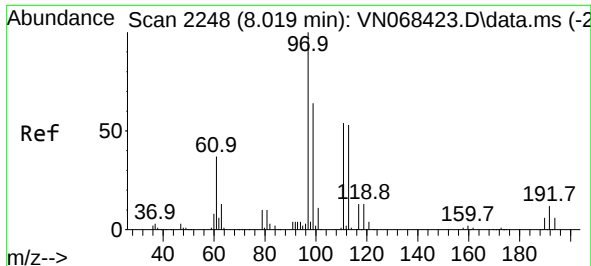
Ion Ratio Lower Upper

56 100

69 162.7 29.4 44.0#

84 129.6 83.6 125.4#

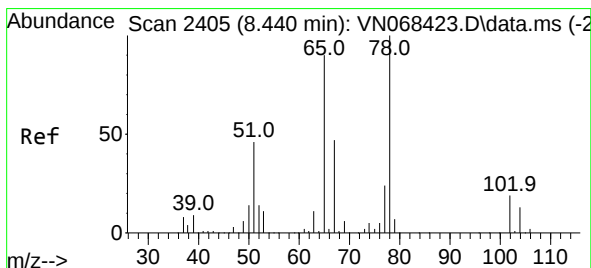
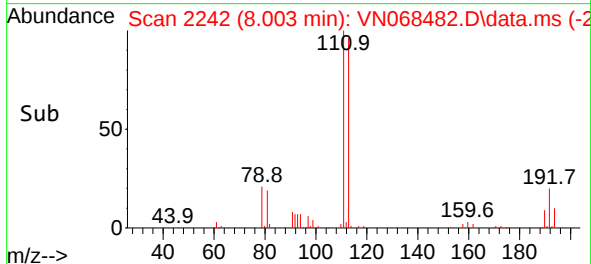
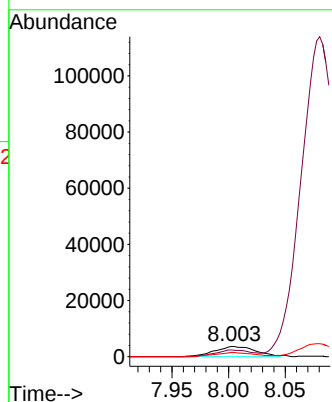
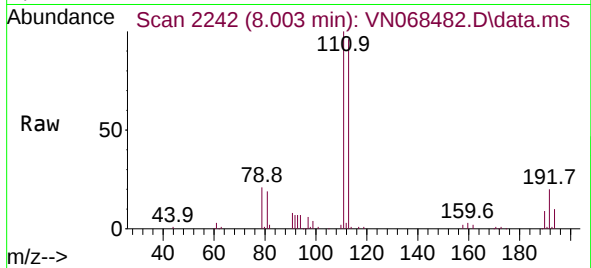




#32  
 1,1,1-Trichloroethane  
 Concen: 1.079 ug/l  
 RT: 8.003 min Scan# 2242  
 Delta R.T. -0.016 min  
 Lab File: VN068482.D  
 Acq: 15 Sep 2021 14:27

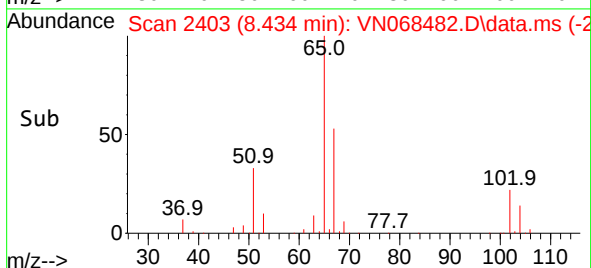
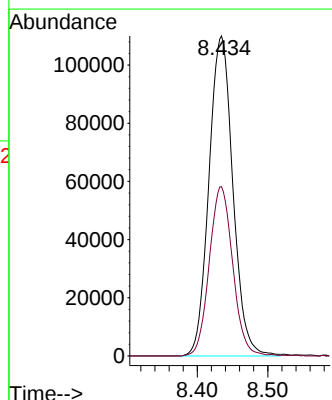
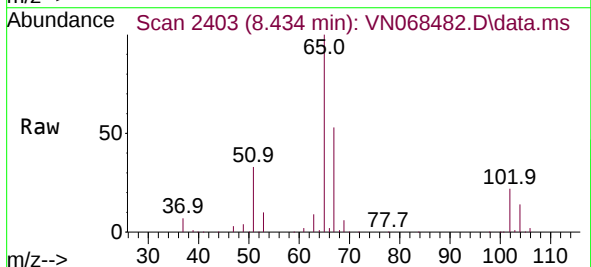
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 A005015

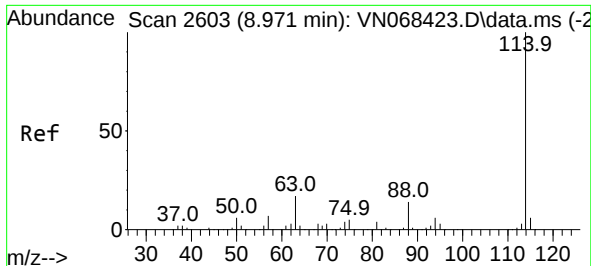
Tgt Ion: 97 Resp: 9165  
 Ion Ratio Lower Upper  
 97 100  
 99 0.0 51.4 77.0#  
 61 37.1 30.3 45.5



#33  
 1,2-Dichloroethane-d4  
 Concen: 53.558 ug/l  
 RT: 8.434 min Scan# 2403  
 Delta R.T. -0.005 min  
 Lab File: VN068482.D  
 Acq: 15 Sep 2021 14:27

Tgt Ion: 65 Resp: 259761  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 104.0

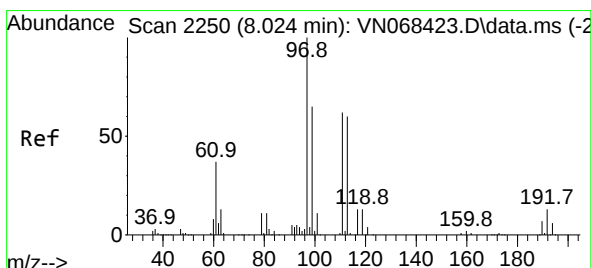
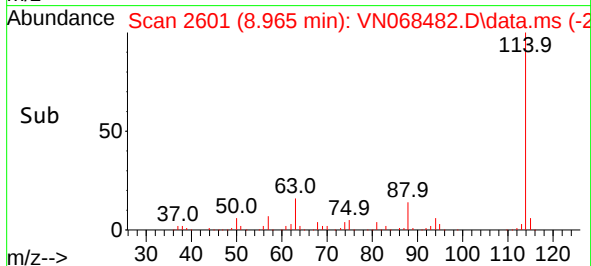
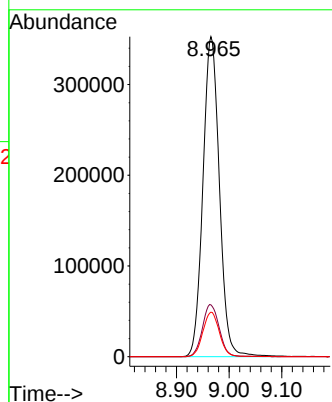
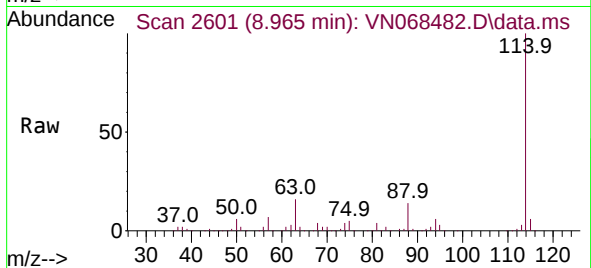




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.965 min Scan# 2601  
Delta R.T. -0.006 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

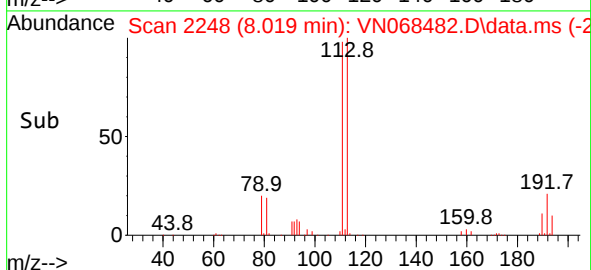
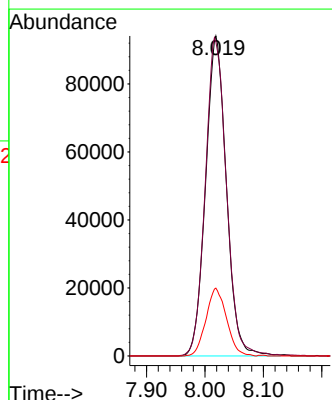
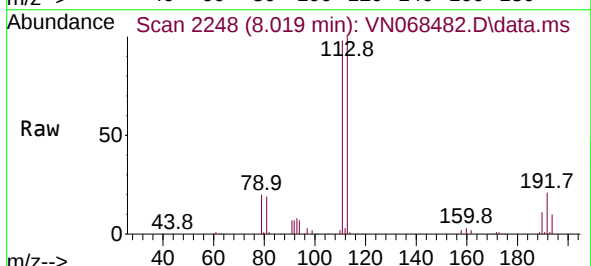
Instrument :  
MSVOA\_N  
ClientSampleId :  
A005015

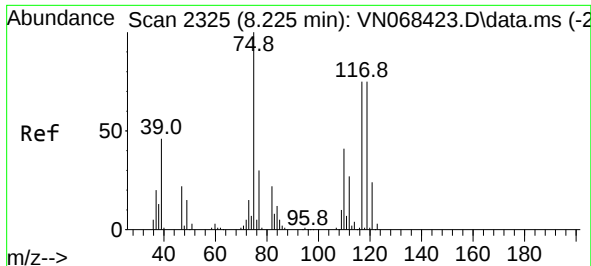
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Ion Ratio Lower Upper  
114 100  
63 16.2 0.0 33.2  
88 13.9 0.0 28.4



#35  
Dibromofluoromethane  
Concen: 50.231 ug/l  
RT: 8.019 min Scan# 2248  
Delta R.T. -0.005 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion:113 Resp: 232107  
Ion Ratio Lower Upper  
113 100  
111 101.3 81.1 121.7  
192 21.0 17.7 26.5

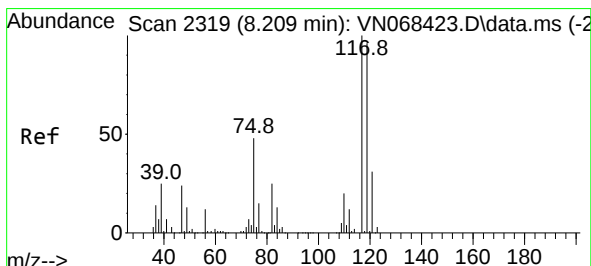
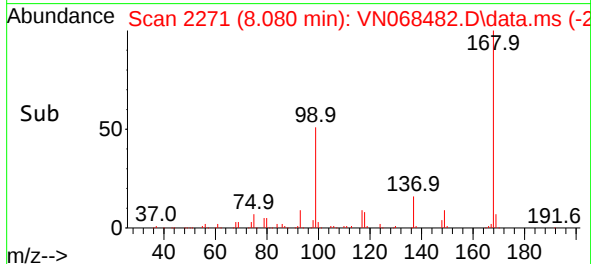
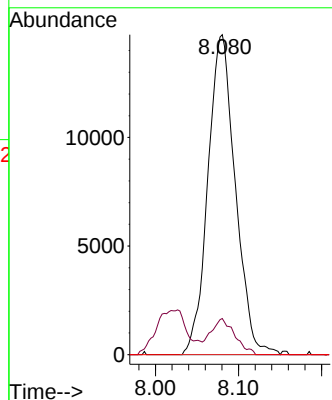
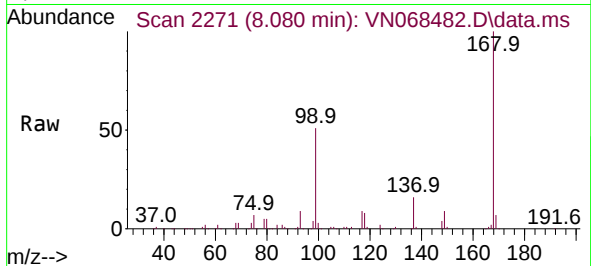




#36  
1,1-Dichloropropene  
Concen: 5.294 ug/l  
RT: 8.080 min Scan# 2271  
Delta R.T. -0.145 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

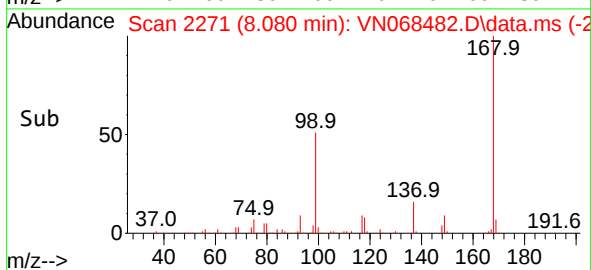
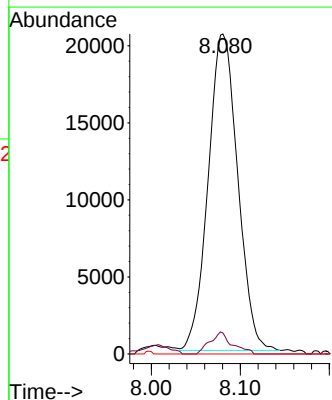
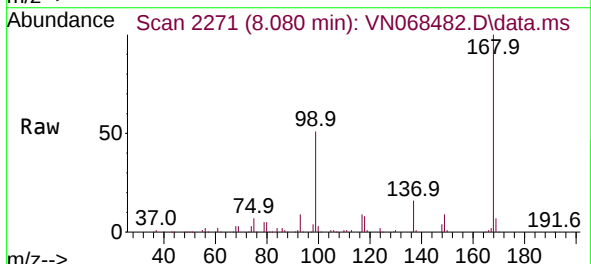
Instrument :  
MSVOA\_N  
ClientSampled :  
A005015

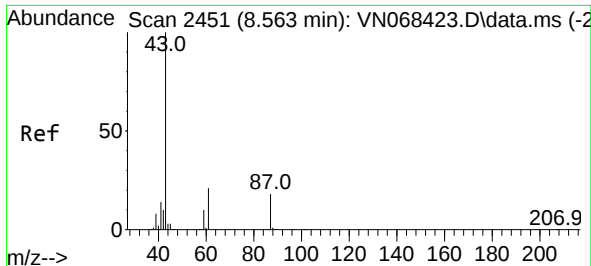
Tgt Ion: 75 Resp: 33816  
Ion Ratio Lower Upper  
75 100  
110 10.0 20.8 62.5#  
77 0.0 25.0 37.6#



#38  
Carbon Tetrachloride  
Concen: 6.201 ug/l  
RT: 8.080 min Scan# 2271  
Delta R.T. -0.129 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion: 117 Resp: 47453  
Ion Ratio Lower Upper  
117 100  
119 6.6 76.6 114.8#  
121 0.0 24.5 36.7#

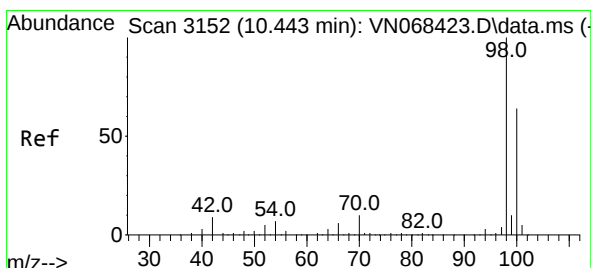
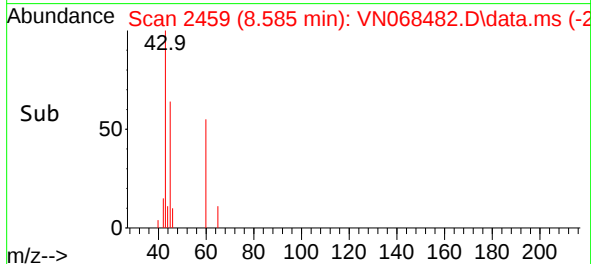
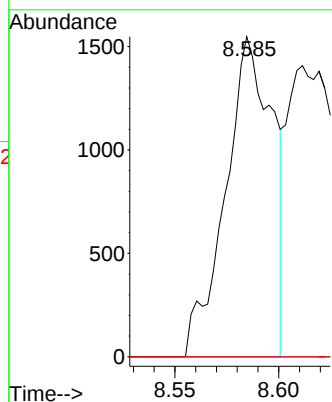
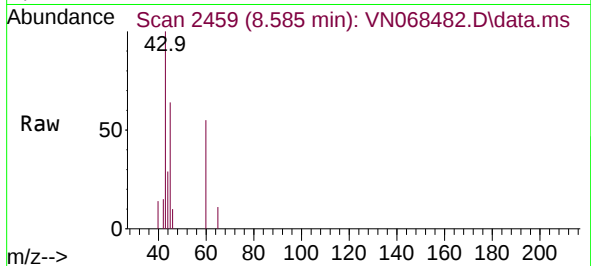




#43  
Isopropyl Acetate  
Concen: 0.285 ug/l  
RT: 8.585 min Scan# 2459  
Delta R.T. 0.022 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

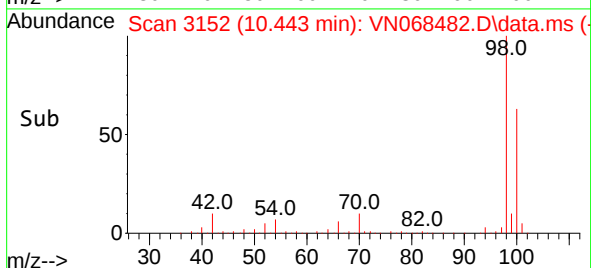
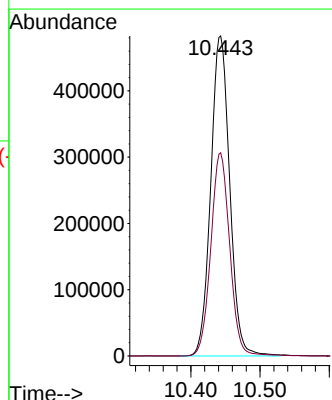
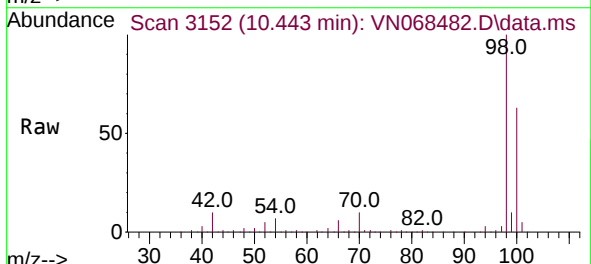
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MSVOA\_N  
ClientSampled :  
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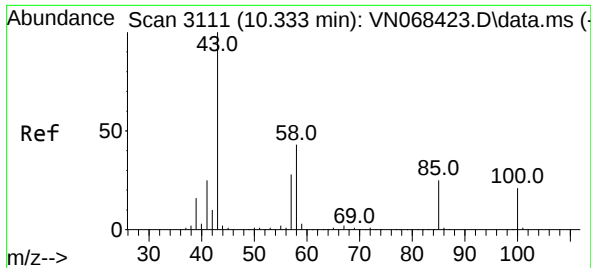
Tgt Ion: 43 Resp: 2444  
Ion Ratio Lower Upper  
43 100  
61 0.0 23.3 34.9#  
87 0.0 13.8 20.6#



#50  
Toluene-d8  
Concen: 54.795 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion: 98 Resp: 919728  
Ion Ratio Lower Upper  
98 100  
100 63.3 51.0 76.6

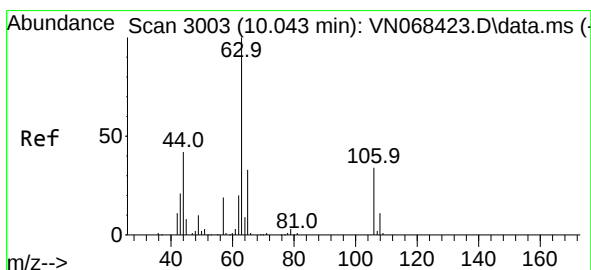
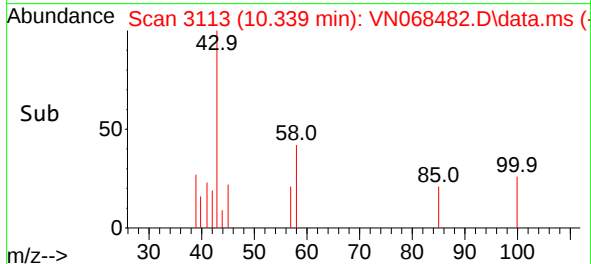
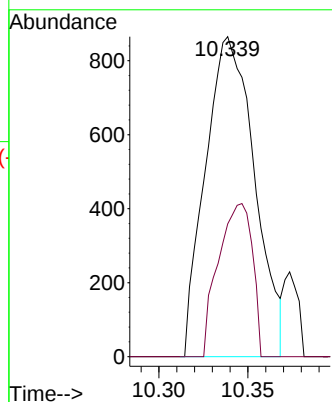
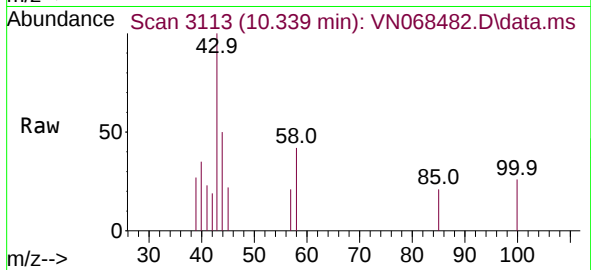




#51  
4-Methyl-2-Pentanone  
Concen: 0.340 ug/l  
RT: 10.339 min Scan# 3113  
Delta R.T. 0.006 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

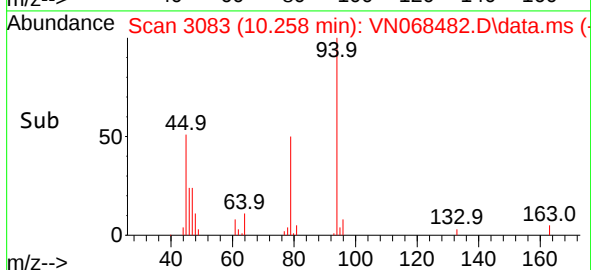
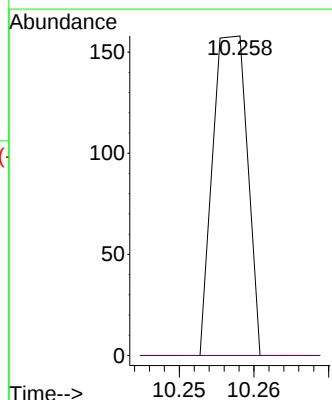
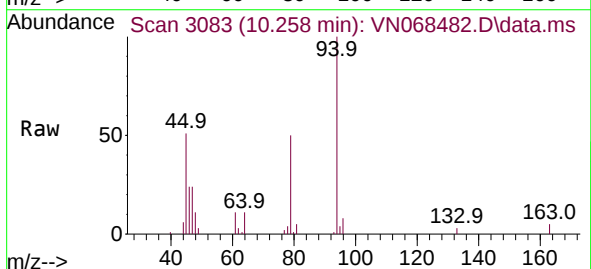
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ClientSampled :  
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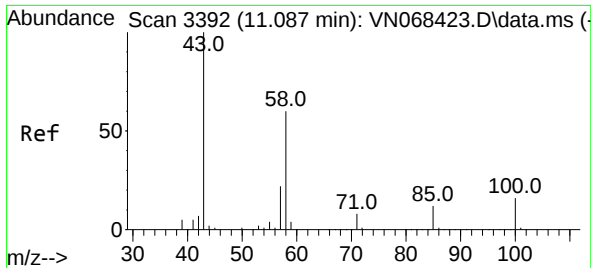
Tgt Ion: 43 Resp: 1662  
Ion Ratio Lower Upper  
43 100  
58 32.9 34.3 51.5#



#58  
2-Chloroethyl Vinyl ether  
Concen: 9.085 ug/l  
RT: 10.258 min Scan# 3083  
Delta R.T. 0.215 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion: 63 Resp: 51  
Ion Ratio Lower Upper  
63 100  
106 0.0 27.9 41.9#

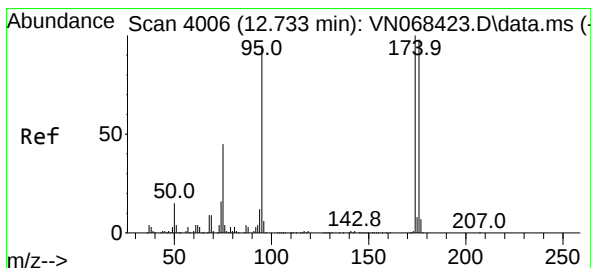
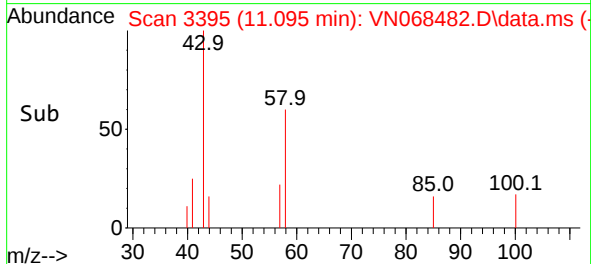
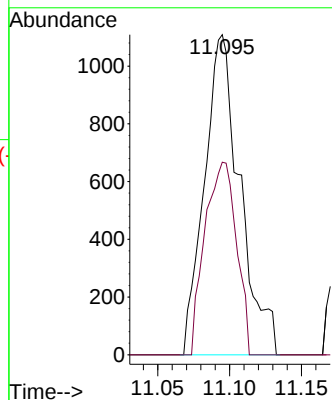
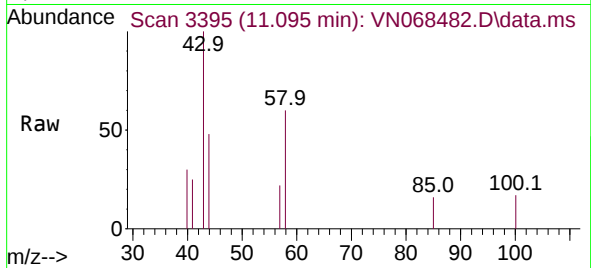




#59  
2-Hexanone  
Concen: 0.582 ug/l  
RT: 11.095 min Scan# 3395  
Delta R.T. 0.008 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

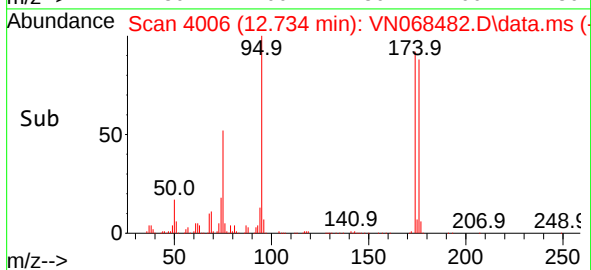
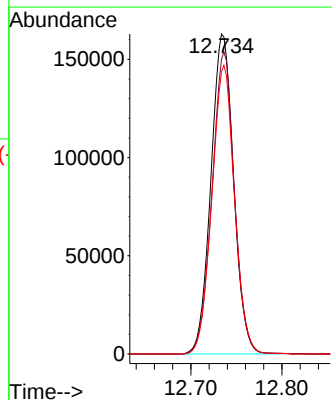
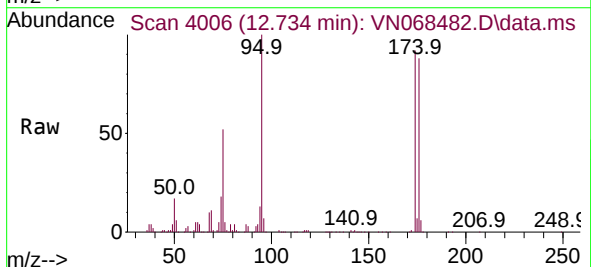
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ClientSampled :  
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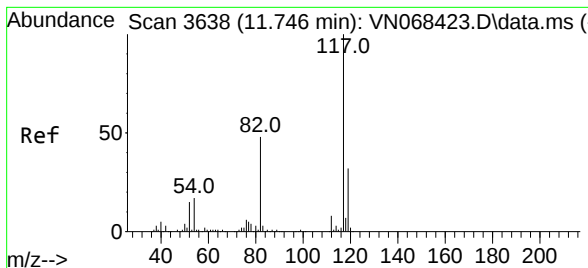
Tgt Ion: 43 Resp: 1908  
Ion Ratio Lower Upper  
43 100  
58 53.2 30.0 90.1



#62  
4-Bromofluorobenzene  
Concen: 52.328 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion: 95 Resp: 281052  
Ion Ratio Lower Upper  
95 100  
174 93.7 0.0 214.0  
176 89.9 0.0 205.4

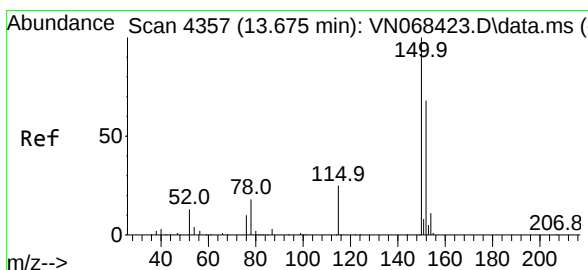
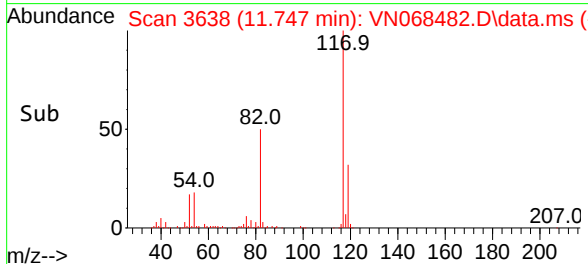
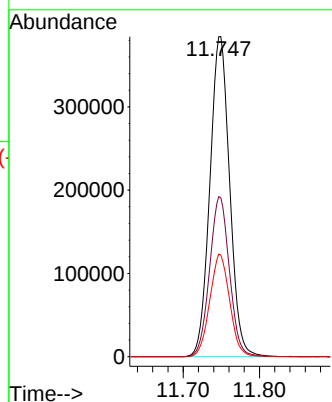
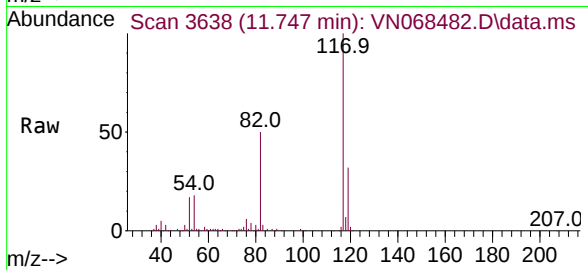




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

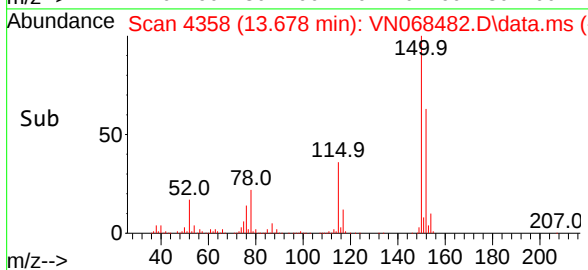
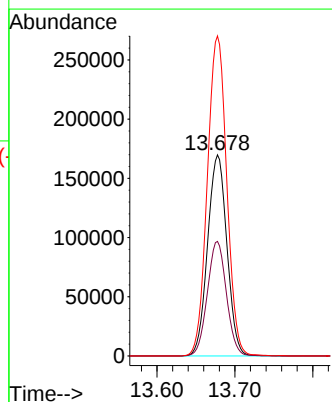
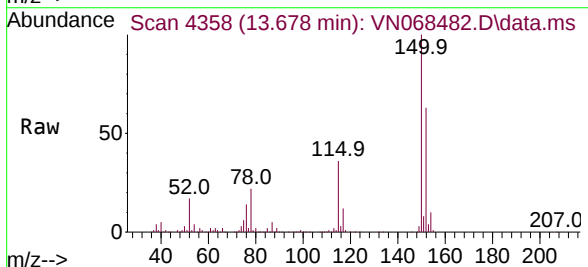
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ClientSampleId :  
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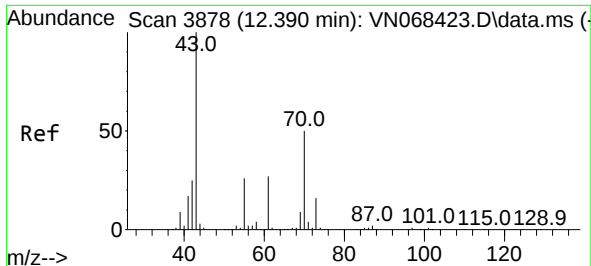
Tgt Ion:117 Resp: 691821  
Ion Ratio Lower Upper  
117 100  
82 50.0 38.7 58.1  
119 32.0 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

Tgt Ion:152 Resp: 293062  
Ion Ratio Lower Upper  
152 100  
115 56.3 25.6 76.6  
150 159.9 0.0 346.8

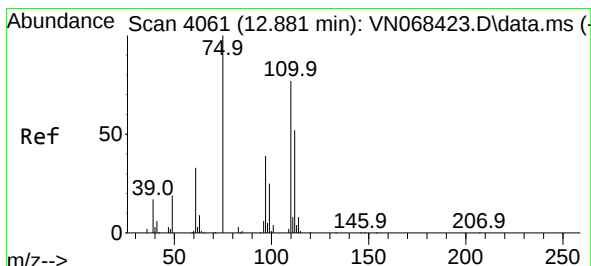
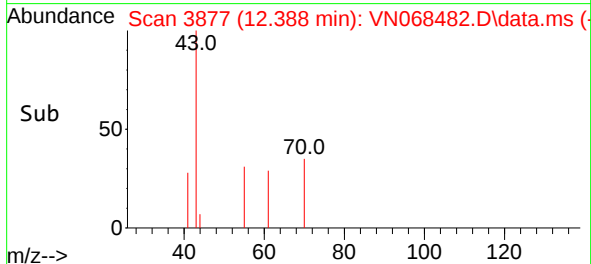
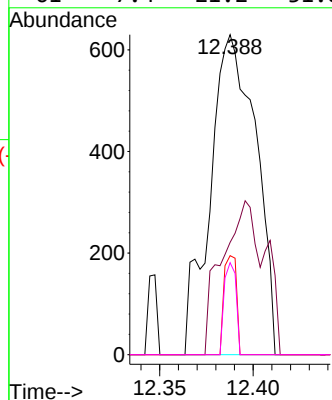
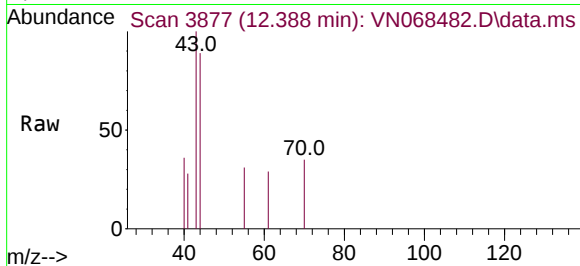




#74  
N-amy1 acetate  
Concen: 0.230 ug/l  
RT: 12.388 min Scan# 3877  
Delta R.T. -0.003 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

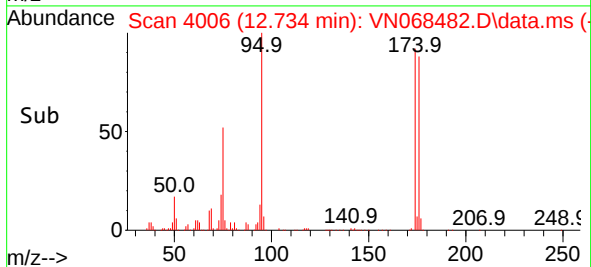
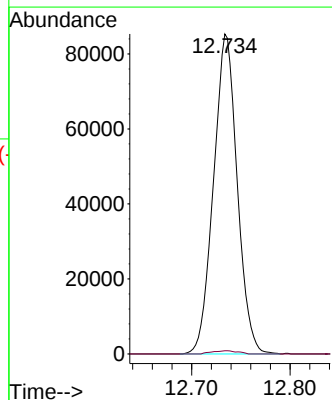
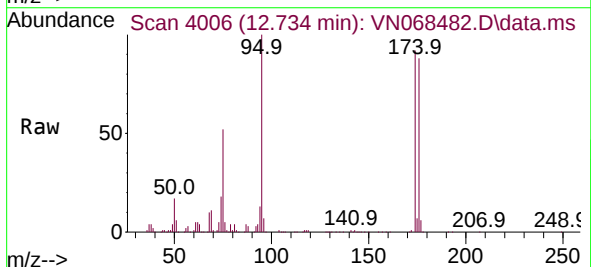
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ClientSampleId :  
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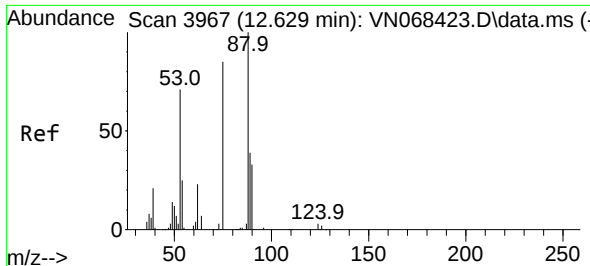
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|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1071  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 36.4  | 40.0  | 60.0# |
| 55       | 8.4   | 21.1  | 31.7# |
| 61       | 7.4   | 21.2  | 31.8# |



#76  
1,2,3-Trichloropropane  
Concen: 30.894 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 142919 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 1.1   | 100.9 | 302.7# |

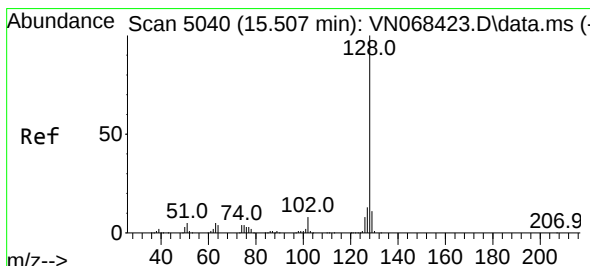
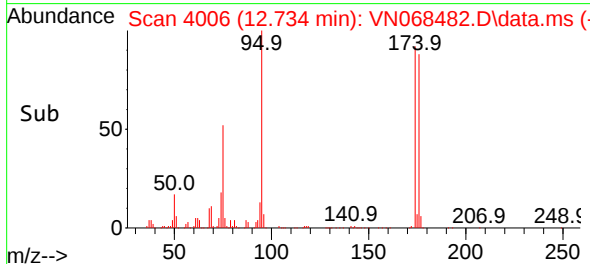
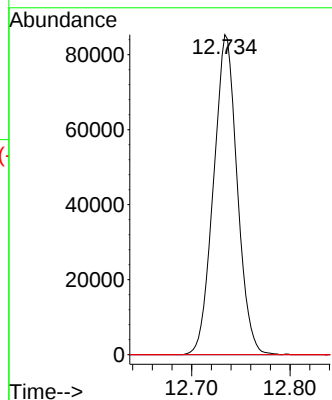
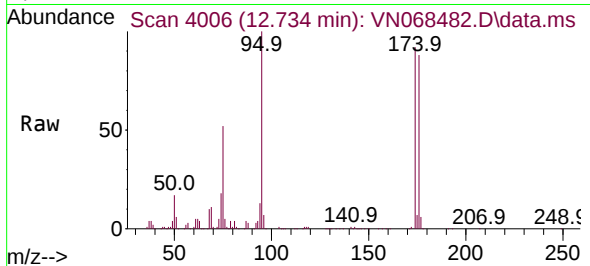




#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.078 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

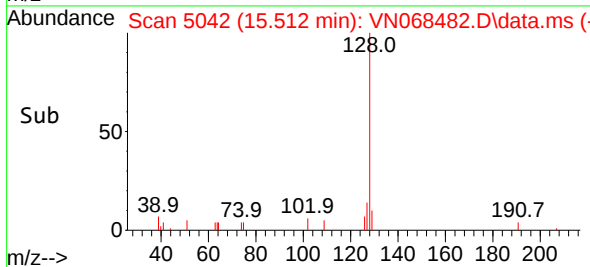
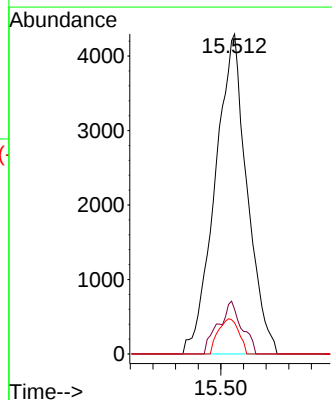
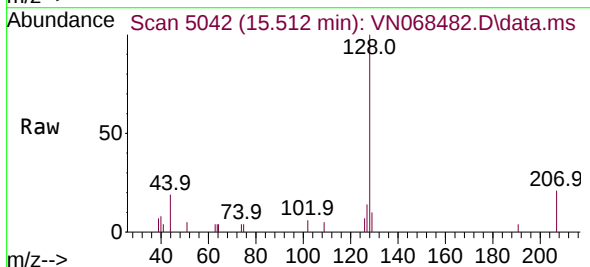
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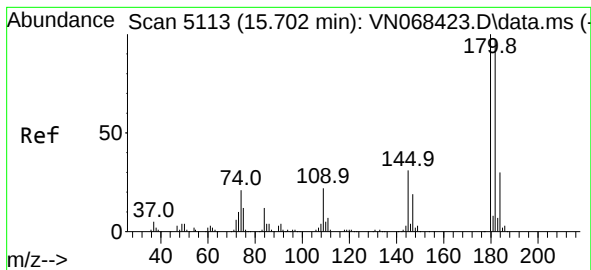
Tgt Ion: 75 Resp: 142919  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.6 105.8#  
89 0.0 39.5 59.3#



#95  
Naphthalene  
Concen: 4.170 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.005 min  
Lab File: VN068482.D  
Acq: 15 Sep 2021 14:27

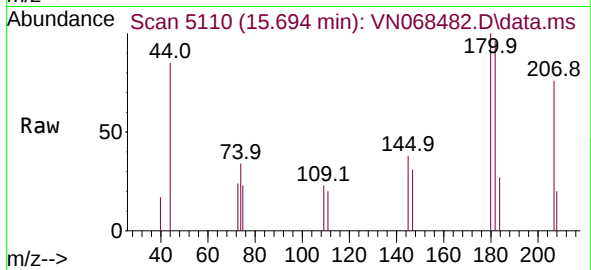
Tgt Ion:128 Resp: 8405  
Ion Ratio Lower Upper  
128 100  
127 12.0 10.6 15.8  
129 7.0 8.6 13.0#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.201 ug/l  
 RT: 15.694 min Scan# 5110  
 Delta R.T. -0.008 min  
 Lab File: VN068482.D  
 Acq: 15 Sep 2021 14:27

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 A005015



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 847    |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 193.7 | 47.9  | 143.6# |
| 145      | 26.1  | 15.2  | 45.5   |

