

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092724\  
 Data File : VN084197.D  
 Acq On : 27 Sep 2024 11:06  
 Operator : JC\MD  
 Sample : VN0927MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 28 00:58:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

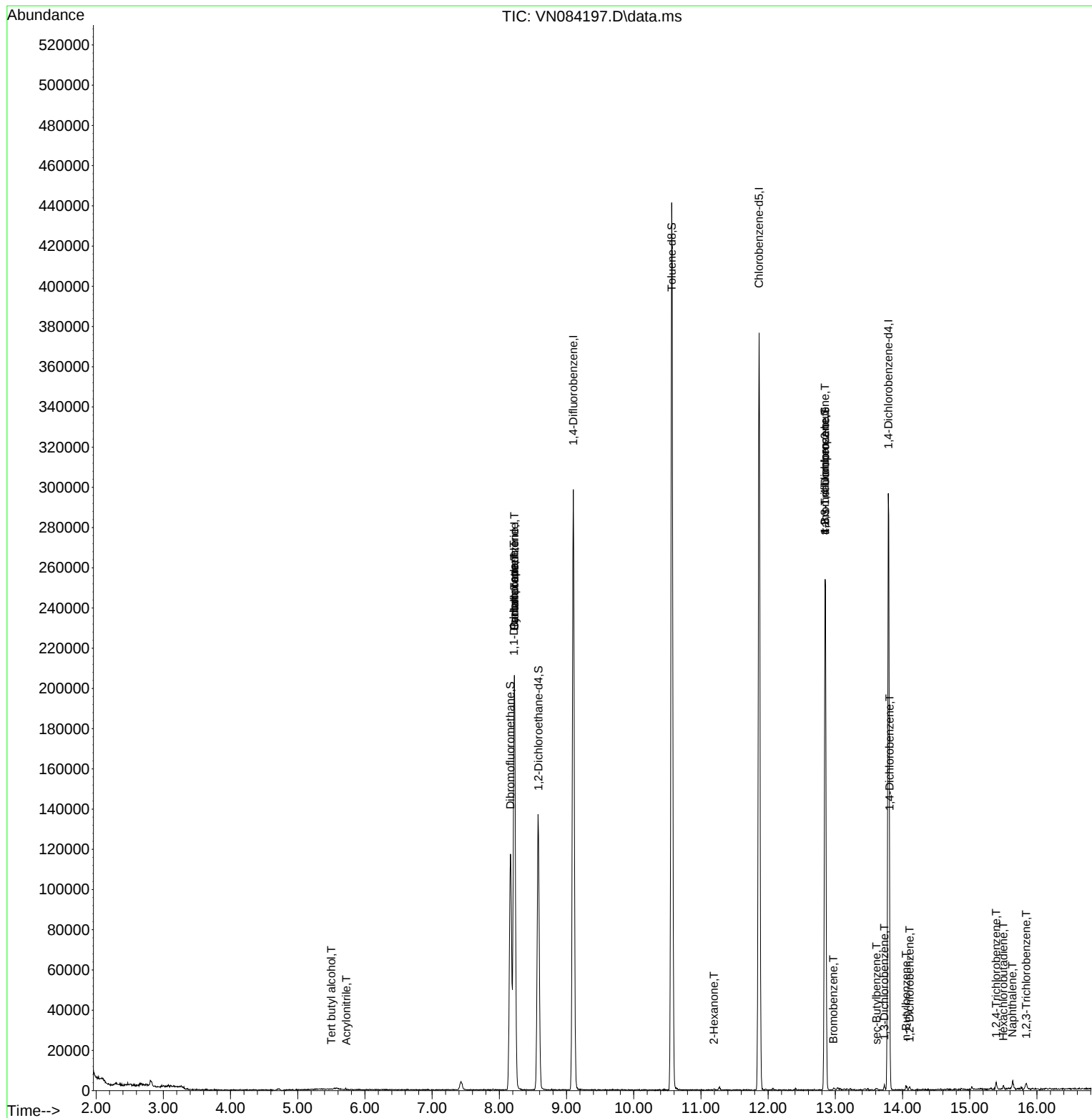
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 144398     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 246129     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 206601     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 75980      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 108497     | 49.831    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 99.660%   |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 85200      | 54.072    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 108.140%  |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 300197     | 55.110    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 110.220%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 90937      | 40.463    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 80.920%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.365          | 50   | 213        | Below Cal | #      | 41       |
| 11) Tert butyl alcohol        | 5.500          | 59   | 60         | 0.206     | ug/l # | 71       |
| 15) Acrylonitrile             | 5.724          | 53   | 392        | 0.494     | ug/l # | 28       |
| 31) Cyclohexane               | 8.224          | 56   | 3180       | 1.011     | ug/l # | 3        |
| 36) 1,1-Dichloropropene       | 8.218          | 75   | 13232      | 5.579     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 16072      | 5.973     | ug/l # | 16       |
| 59) 2-Hexanone                | 11.194         | 43   | 411        | 0.262     | ug/l   | 78       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 47153      | 30.756    | ug/l # | 1        |
| 77) Bromobenzene              | 12.971         | 156  | 294        | 0.208     | ug/l # | 65       |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 47153      | 80.553    | ug/l # | 9        |
| 85) sec-Butylbenzene          | 13.612         | 105  | 1263       | 0.220     | ug/l # | 57       |
| 87) 1,3-Dichlorobenzene       | 13.729         | 146  | 765        | 0.286     | ug/l # | 74       |
| 88) 1,4-Dichlorobenzene       | 13.806         | 146  | 1017       | 0.376     | ug/l # | 24       |
| 89) n-Butylbenzene            | 14.053         | 91   | 1499       | 0.346     | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene       | 14.106         | 146  | 791        | 0.307     | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.394         | 180  | 1208       | 0.873     | ug/l   | 89       |
| 94) Hexachlorobutadiene       | 15.500         | 225  | 645        | 1.098     | ug/l # | 64       |
| 95) Naphthalene               | 15.635         | 128  | 4496       | 1.069     | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene    | 15.841         | 180  | 1518       | 1.149     | ug/l   | 82       |
| -----                         |                |      |            |           |        |          |

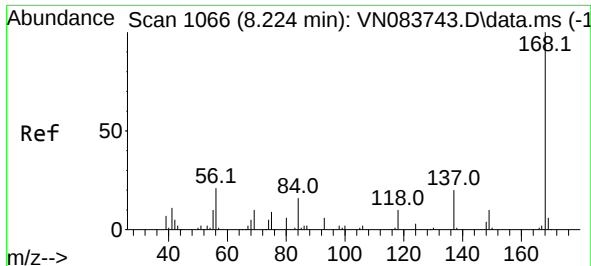
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092724\  
Data File : VN084197.D  
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Operator : JC\MD  
Sample : VN0927MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

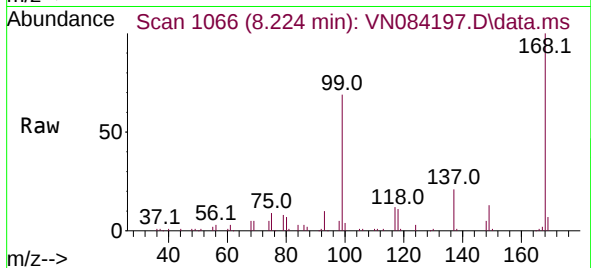
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



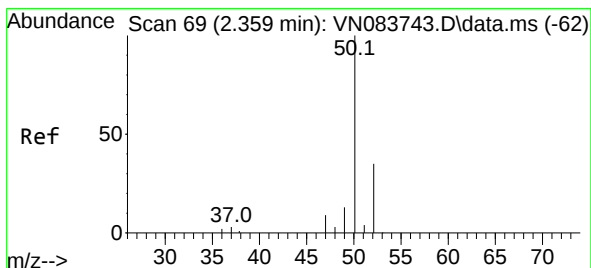
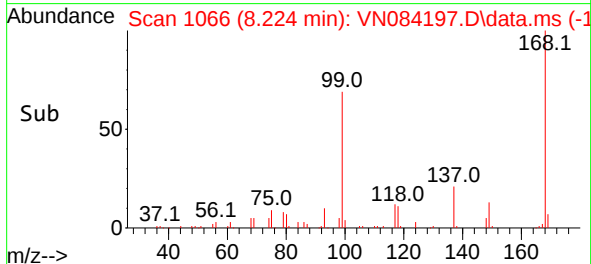
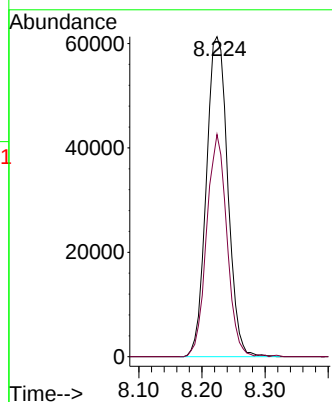


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Instrument :  
MSVOA\_N  
ClientSampleId :

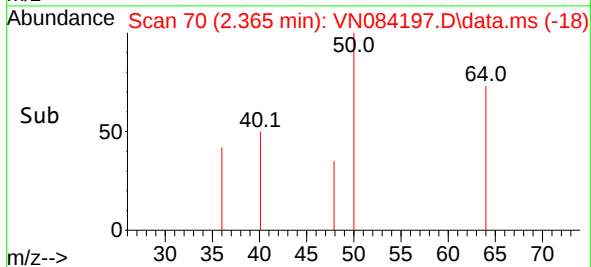
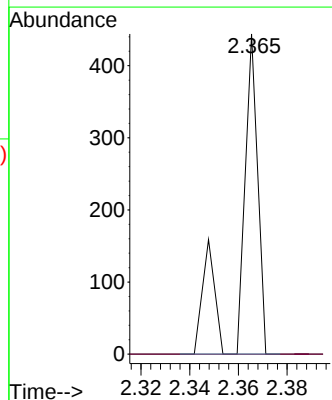
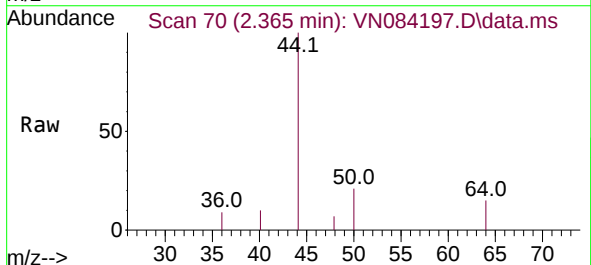


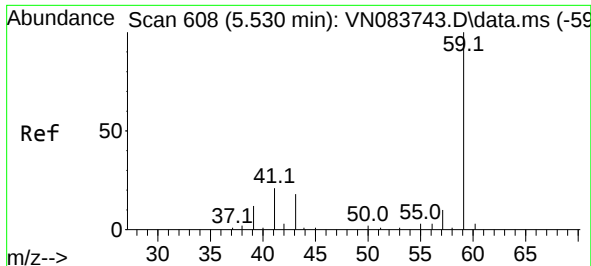
Tgt Ion:168 Resp: 144398  
Ion Ratio Lower Upper  
168 100  
99 69.5 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

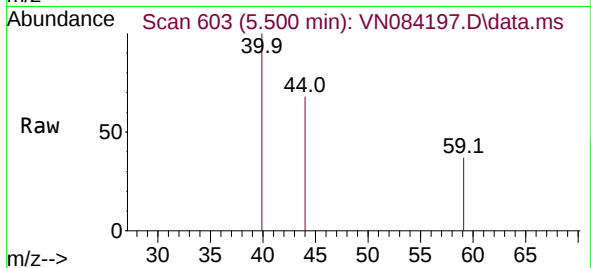
Tgt Ion: 50 Resp: 213  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#



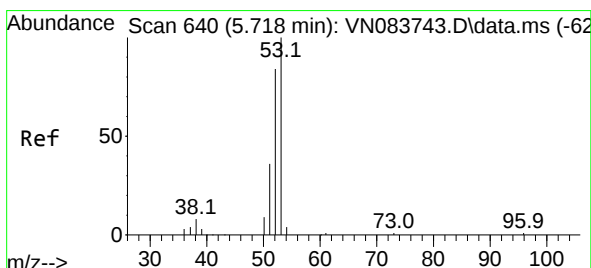
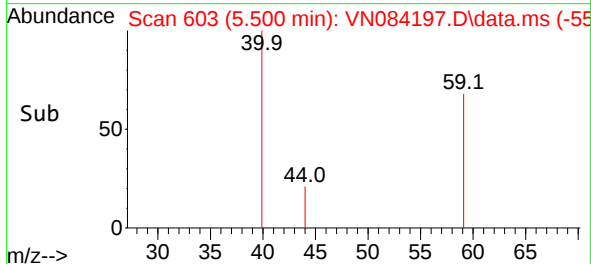
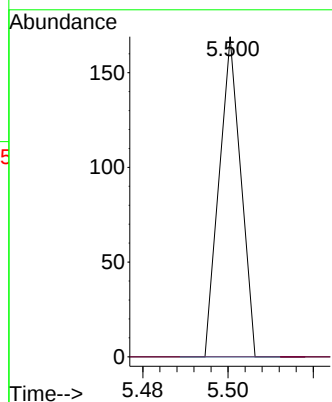


#11  
Tert butyl alcohol  
Concen: 0.206 ug/l  
RT: 5.500 min Scan# 60  
Delta R.T. -0.029 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Instrument :  
MSVOA\_N  
ClientSampleId :

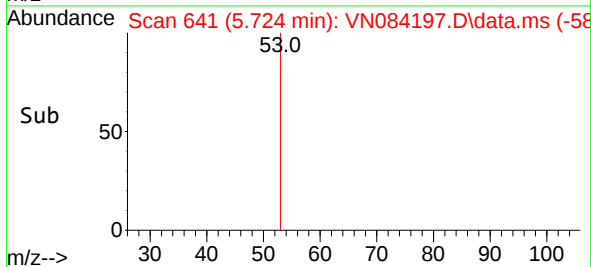
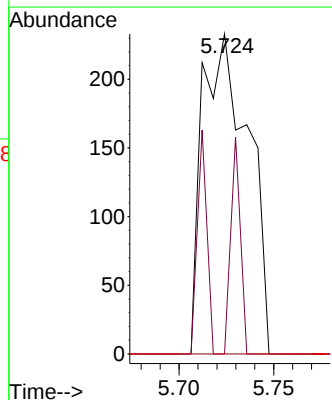
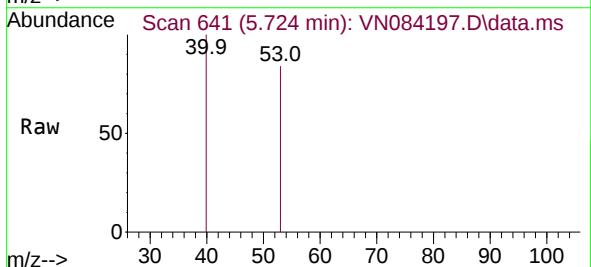


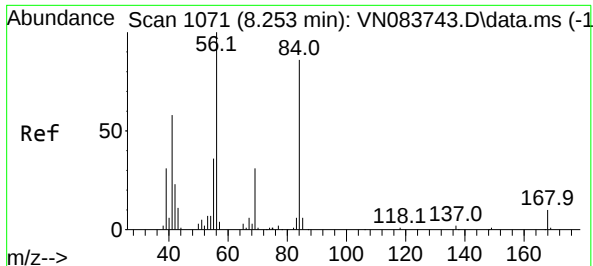
Tgt Ion: 59 Resp: 60  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



#15  
Acrylonitrile  
Concen: 0.494 ug/l  
RT: 5.724 min Scan# 641  
Delta R.T. 0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

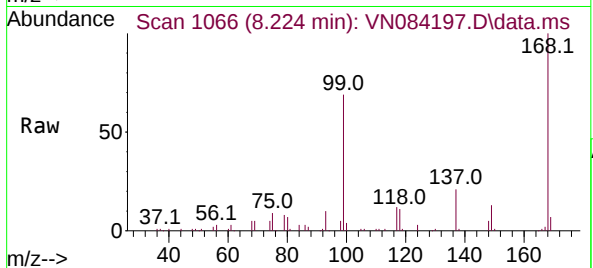
Tgt Ion: 53 Resp: 392  
Ion Ratio Lower Upper  
53 100  
52 14.3 66.1 99.1#  
51 0.0 29.6 44.4#



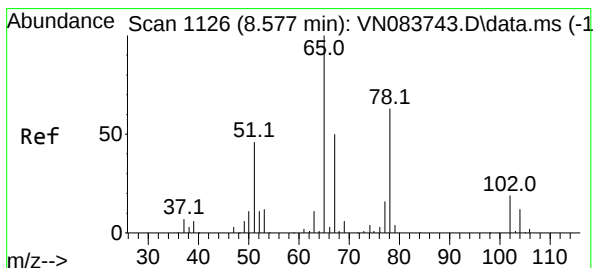
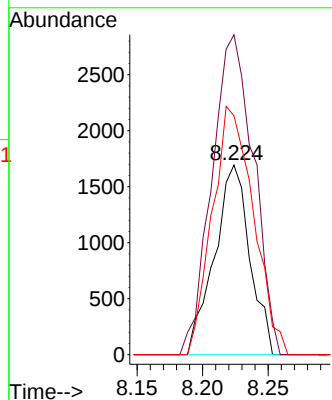
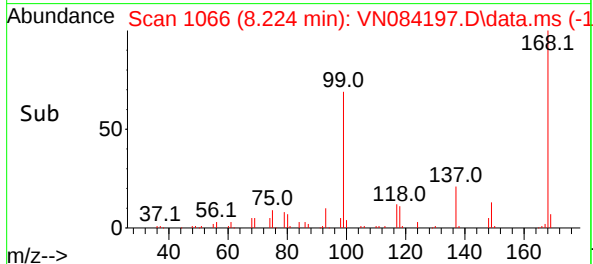


#31  
Cyclohexane  
Concen: 1.011 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Instrument :  
MSVOA\_N  
ClientSampleId :

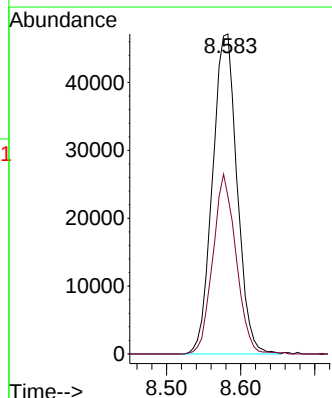
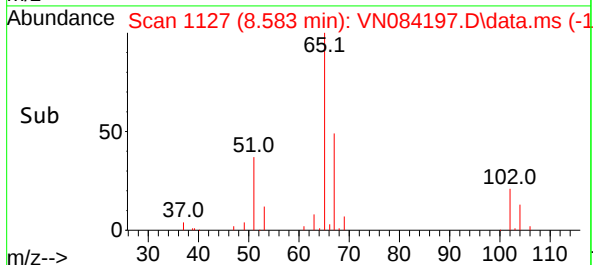
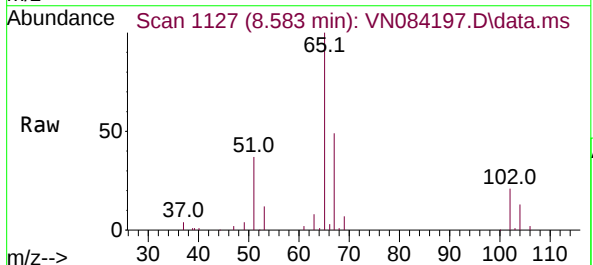


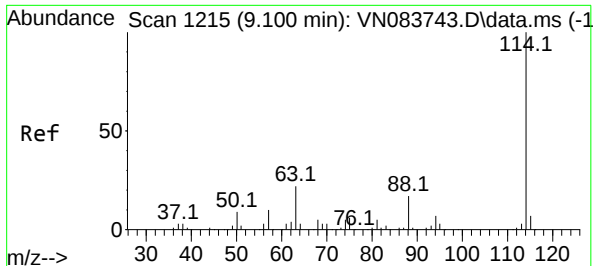
Tgt Ion: 56 Resp: 3180  
Ion Ratio Lower Upper  
56 100  
69 168.8 26.9 40.3#  
84 126.0 69.2 103.8#



#33  
1,2-Dichloroethane-d4  
Concen: 49.831 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Tgt Ion: 65 Resp: 108497  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 100.8

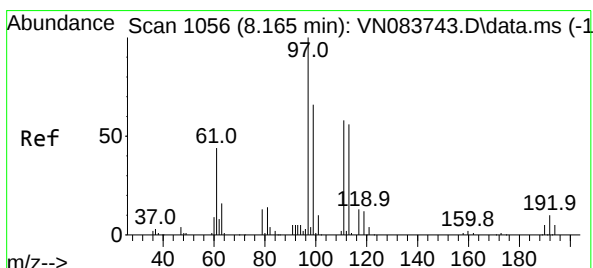
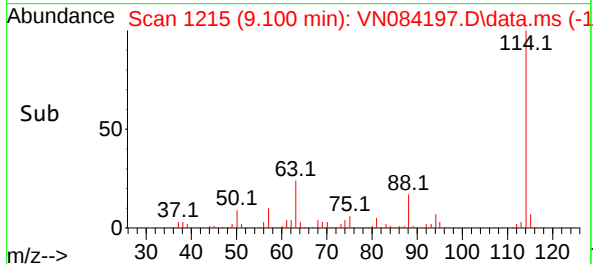
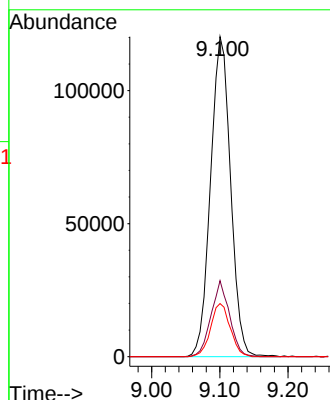
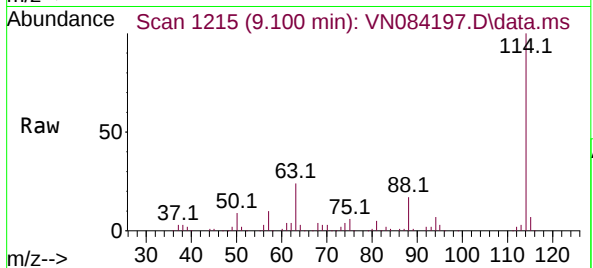




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

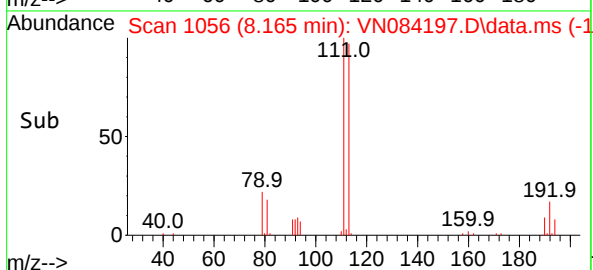
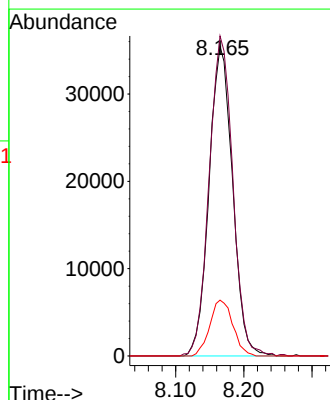
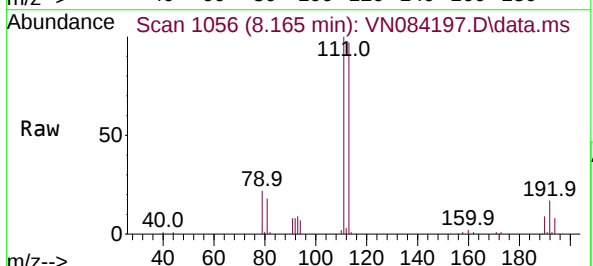
Instrument :  
MSVOA\_N  
ClientSampleId :

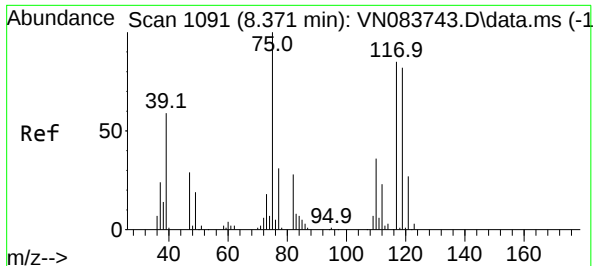
Tgt Ion:114 Resp: 246129  
Ion Ratio Lower Upper  
114 100  
63 23.7 0.0 43.4  
88 16.6 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 54.072 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Tgt Ion:113 Resp: 85200  
Ion Ratio Lower Upper  
113 100  
111 103.9 82.6 124.0  
192 17.7 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.579 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

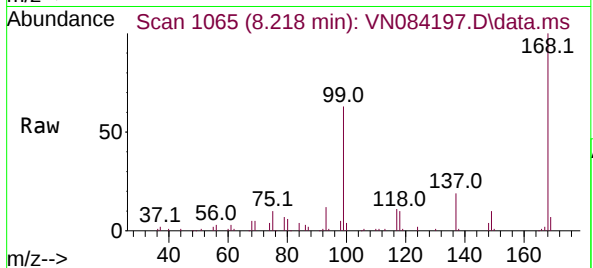
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Acq: 27 Sep 2024 11:06

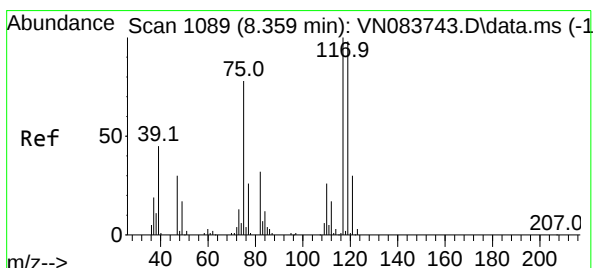
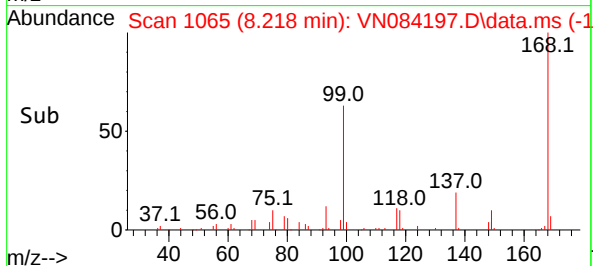
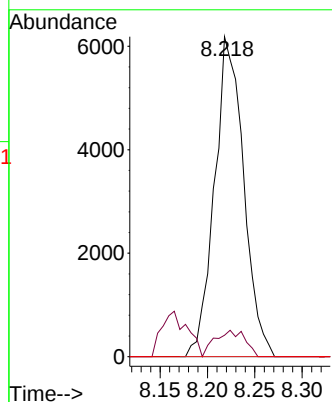
Instrument :

MSVOA\_N

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 13232    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.5 16.7 50.1# |
| 77          | 0.0 25.2 37.8# |



#38

Carbon Tetrachloride

Concen: 5.973 ug/l

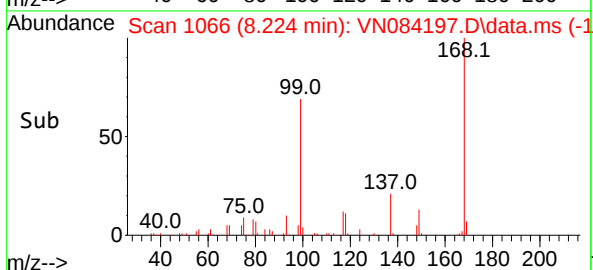
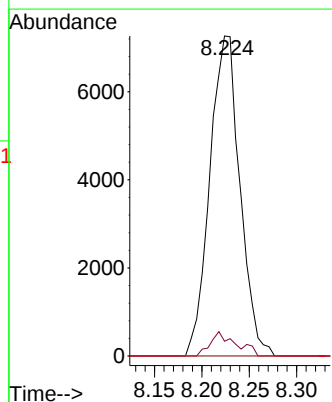
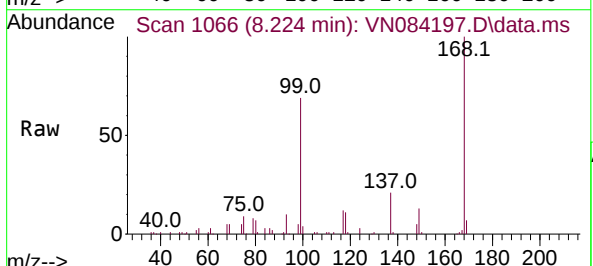
RT: 8.224 min Scan# 1066

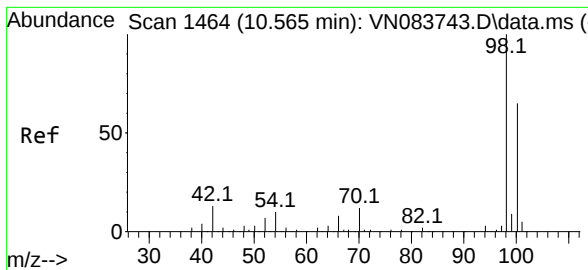
Delta R.T. -0.135 min

Lab File: VN084197.D

Acq: 27 Sep 2024 11:06

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 16072     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 4.6 76.1 114.1# |
| 121          | 0.0 24.1 36.1#  |

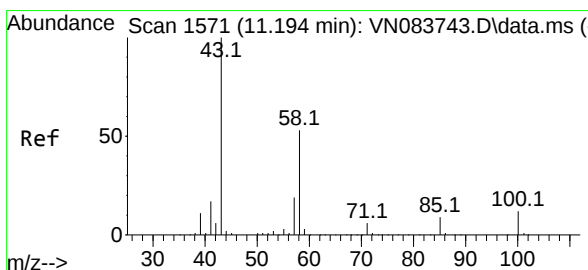
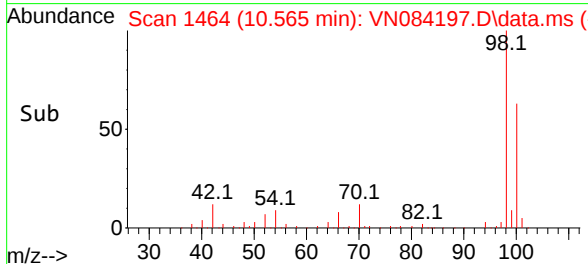
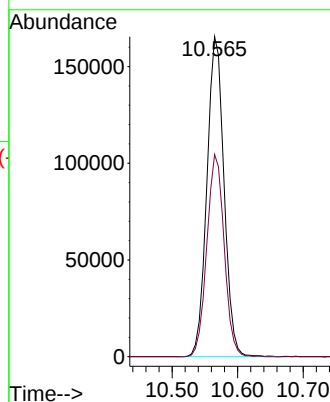
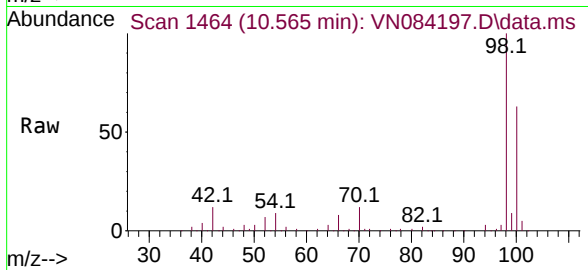




#50  
Toluene-d8  
Concen: 55.110 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

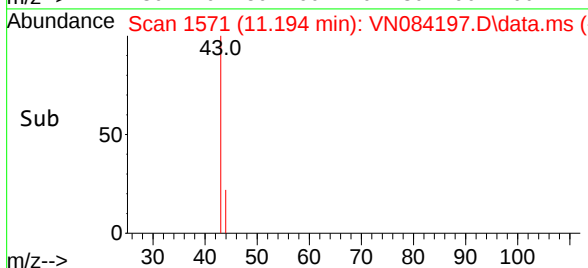
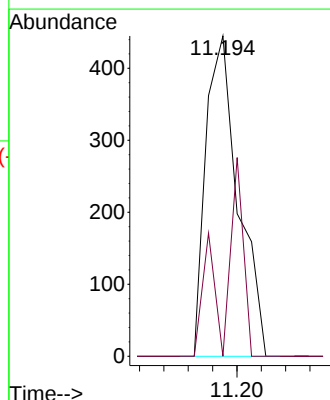
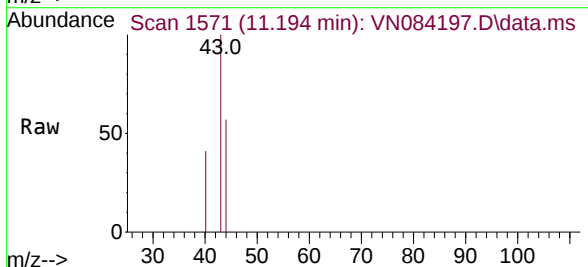
Instrument :  
MSVOA\_N  
ClientSampleId :

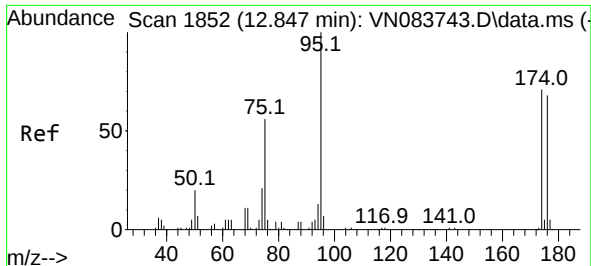
Tgt Ion: 98 Resp: 300197  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.0 78.0



#59  
2-Hexanone  
Concen: 0.262 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Tgt Ion: 43 Resp: 411  
Ion Ratio Lower Upper  
43 100  
58 38.4 27.2 81.5

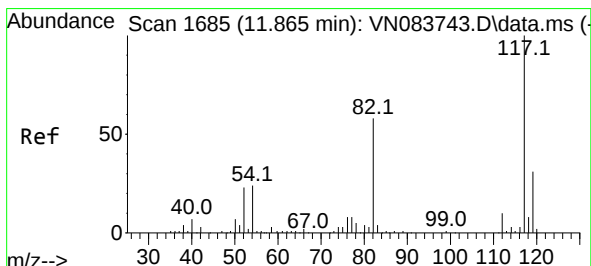
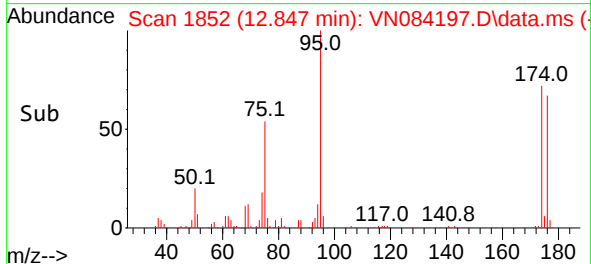
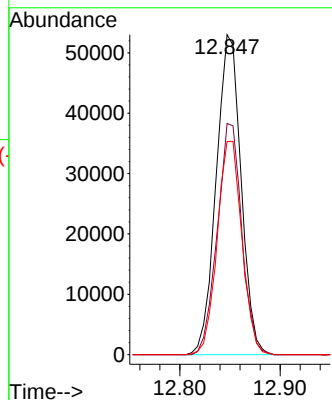
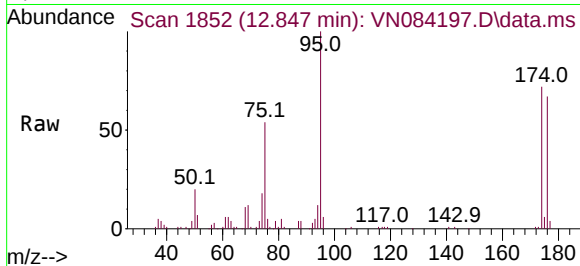




#62  
4-Bromofluorobenzene  
Concen: 40.463 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

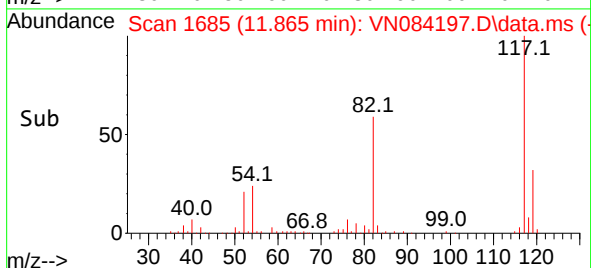
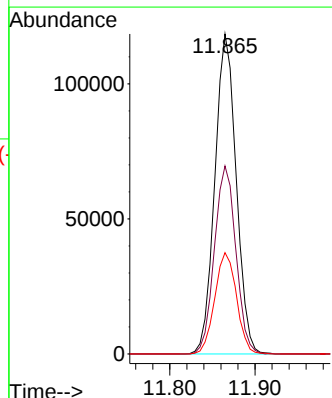
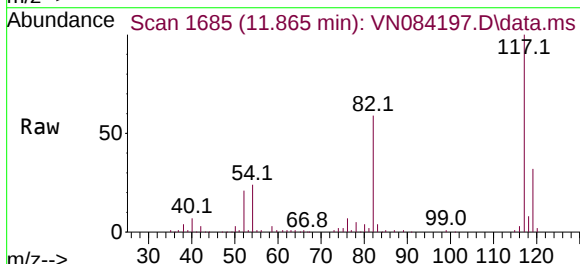
Instrument :  
MSVOA\_N  
ClientSampleId :

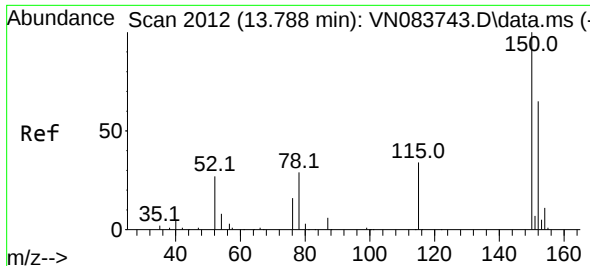
Tgt Ion: 95 Resp: 90937  
Ion Ratio Lower Upper  
95 100  
174 70.9 0.0 139.8  
176 66.4 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

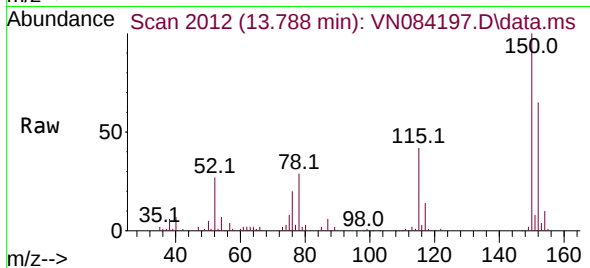
Tgt Ion: 117 Resp: 206601  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.4 71.0  
119 31.7 26.3 39.5



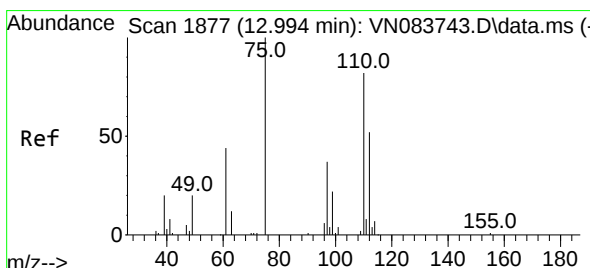
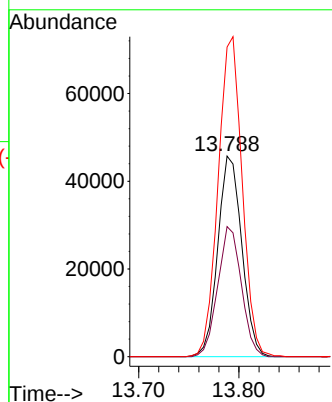
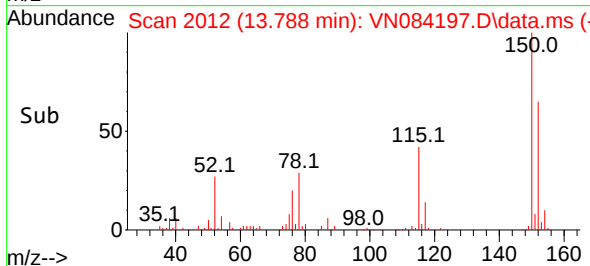


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 2012  
 Delta R.T. 0.000 min  
 Lab File: VN084197.D  
 Acq: 27 Sep 2024 11:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :

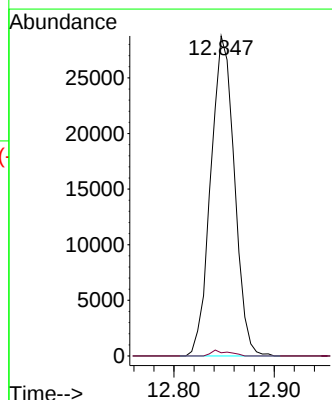
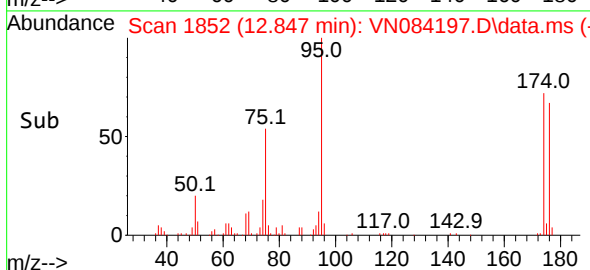
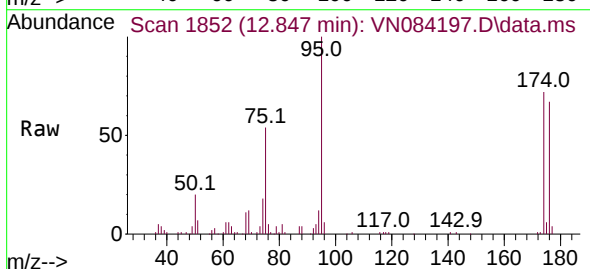


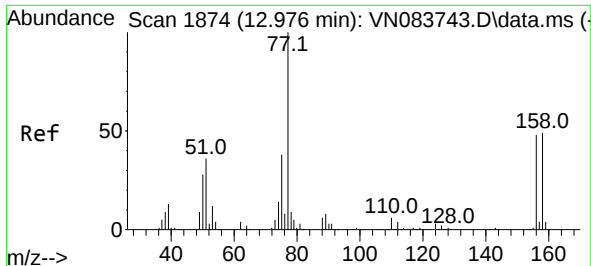
Tgt Ion:152 Resp: 75980  
 Ion Ratio Lower Upper  
 152 100  
 115 63.7 32.2 96.6  
 150 159.7 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 30.756 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN084197.D  
 Acq: 27 Sep 2024 11:06

Tgt Ion: 75 Resp: 47153  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 95.2 285.6#

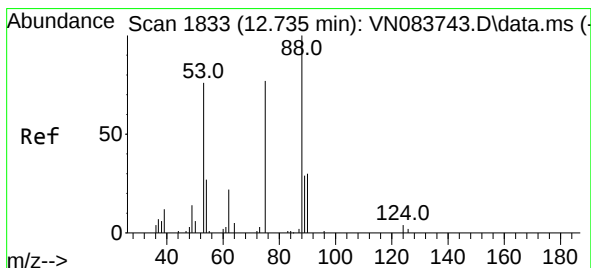
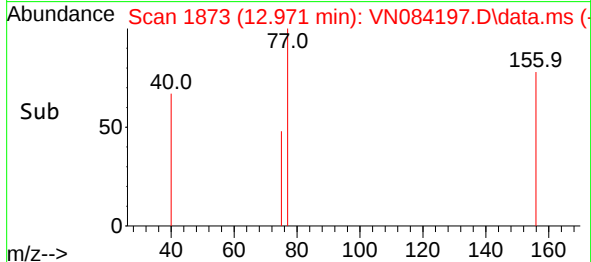
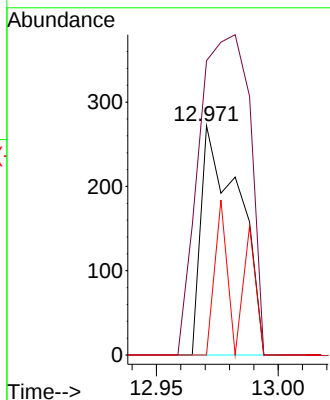
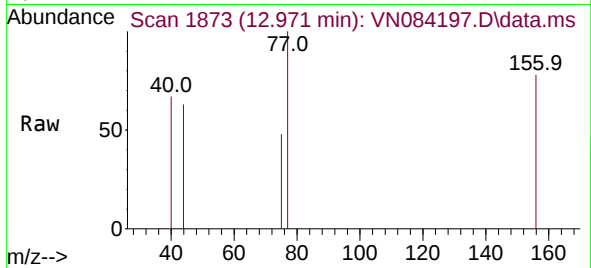




#77  
Bromobenzene  
Concen: 0.208 ug/l  
RT: 12.971 min Scan# 1873  
Delta R.T. -0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

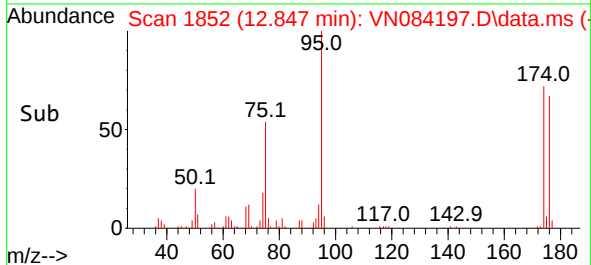
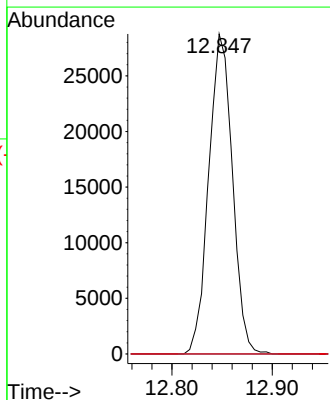
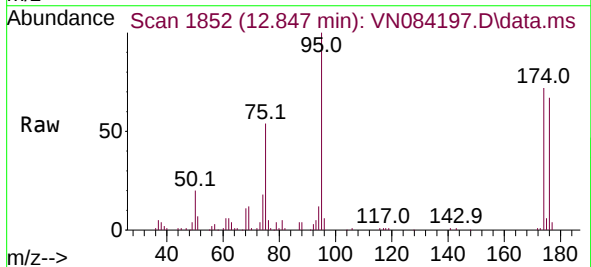
Instrument :  
MSVOA\_N  
ClientSampleId :

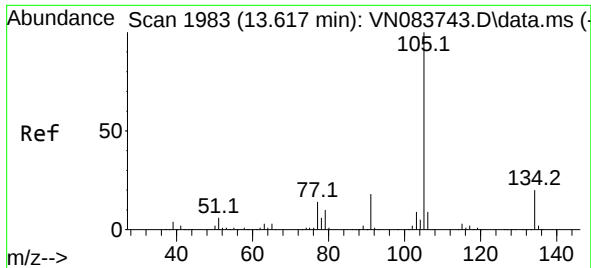
Tgt Ion:156 Resp: 294  
Ion Ratio Lower Upper  
156 100  
77 187.4 114.3 343.1  
158 40.5 48.9 146.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 80.553 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

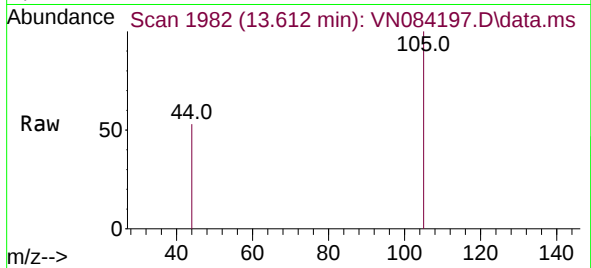
Tgt Ion: 75 Resp: 47153  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.2 121.8#  
89 0.0 35.7 53.5#



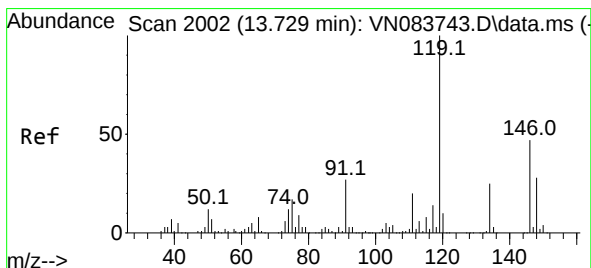
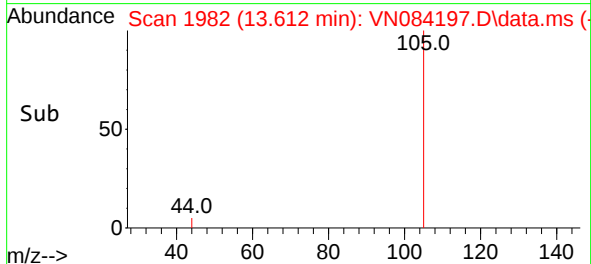
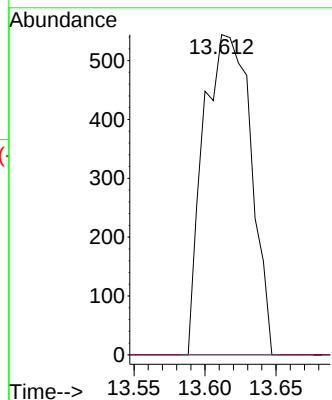


#85  
sec-Butylbenzene  
Concen: 0.220 ug/l  
RT: 13.612 min Scan# 1983  
Delta R.T. -0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Instrument :  
MSVOA\_N  
ClientSampleId :

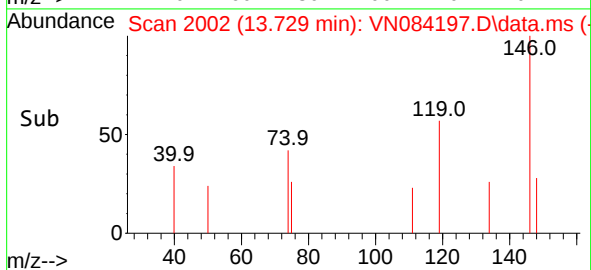
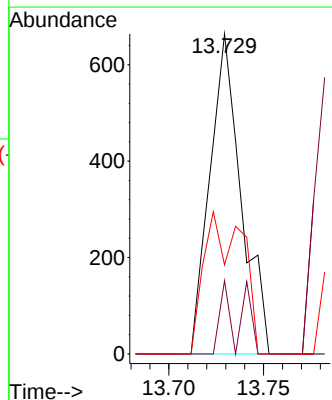
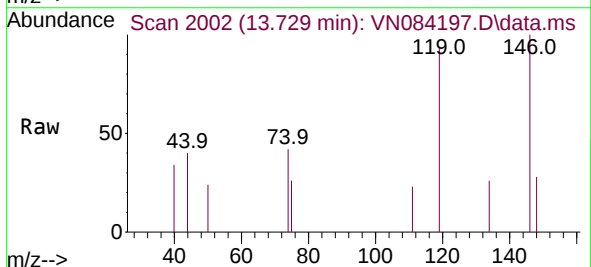


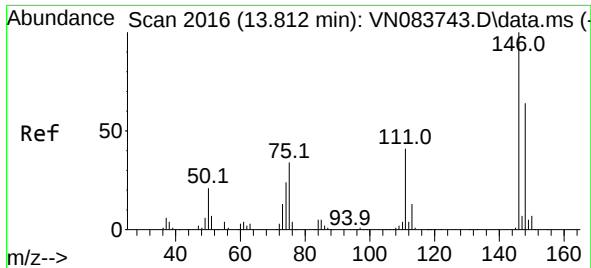
Tgt Ion:105 Resp: 1263  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.7 29.1#



#87  
1,3-Dichlorobenzene  
Concen: 0.286 ug/l  
RT: 13.729 min Scan# 2002  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

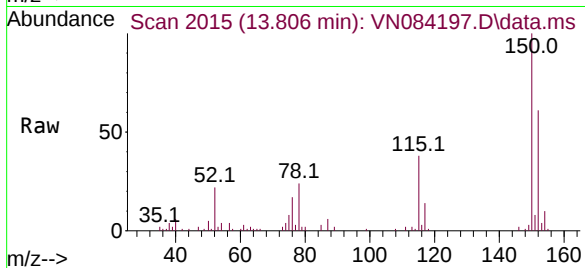
Tgt Ion:146 Resp: 765  
Ion Ratio Lower Upper  
146 100  
111 14.0 21.7 65.1#  
148 53.9 31.7 95.1



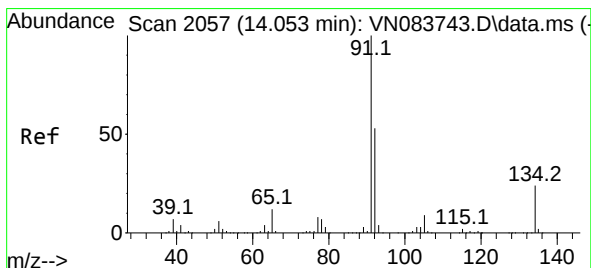
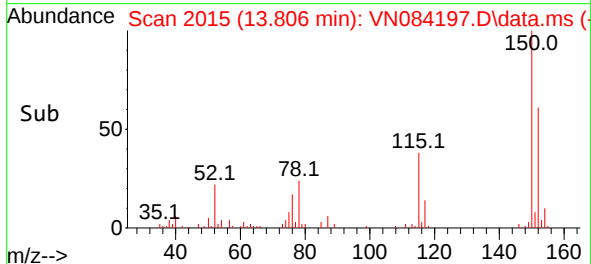
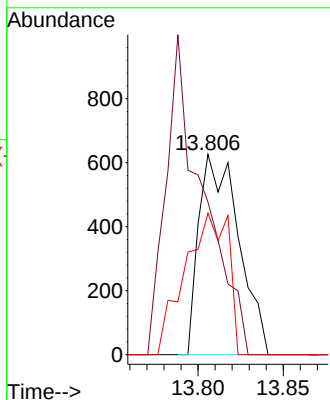


#88  
1,4-Dichlorobenzene  
Concen: 0.376 ug/l  
RT: 13.806 min Scan# 2016  
Delta R.T. -0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Instrument :  
MSVOA\_N  
ClientSampleId :

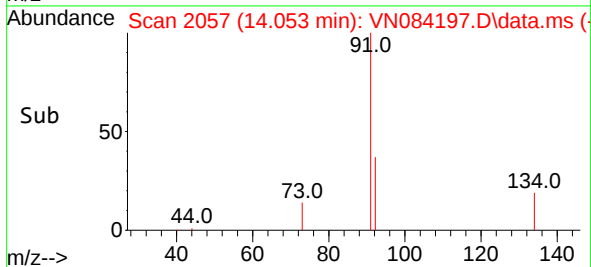
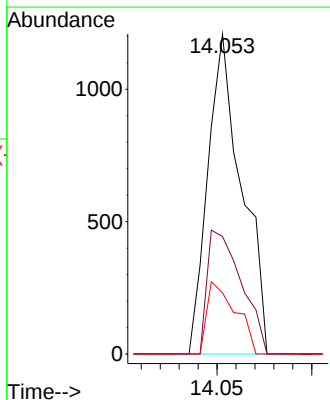
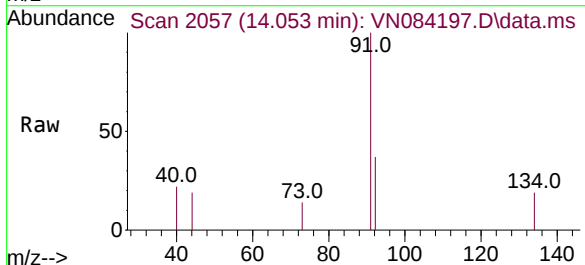


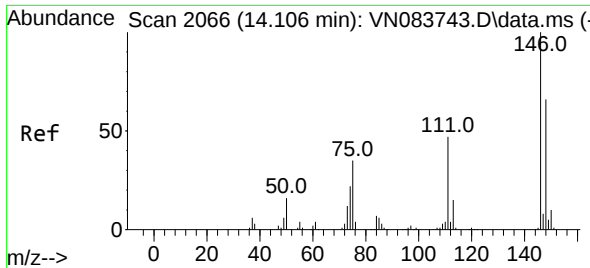
Tgt Ion:146 Resp: 1017  
Ion Ratio Lower Upper  
146 100  
111 148.8 21.3 64.0#  
148 77.0 32.0 96.2



#89  
n-Butylbenzene  
Concen: 0.346 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Tgt Ion: 91 Resp: 1499  
Ion Ratio Lower Upper  
91 100  
92 39.2 26.7 80.1  
134 19.1 12.2 36.4

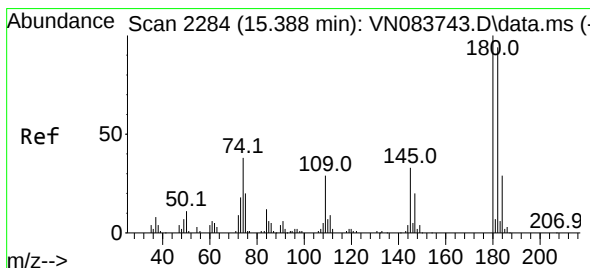
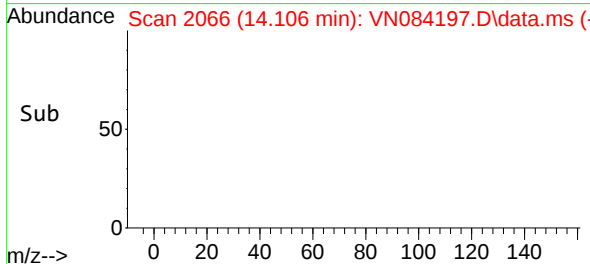
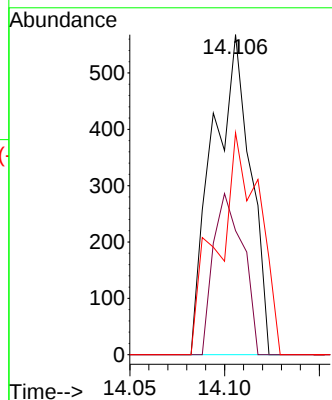
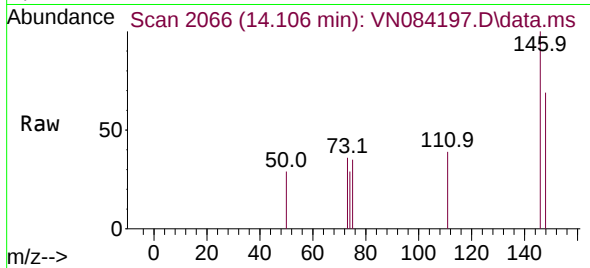




#91  
1,2-Dichlorobenzene  
Concen: 0.307 ug/l  
RT: 14.106 min Scan# 2066  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

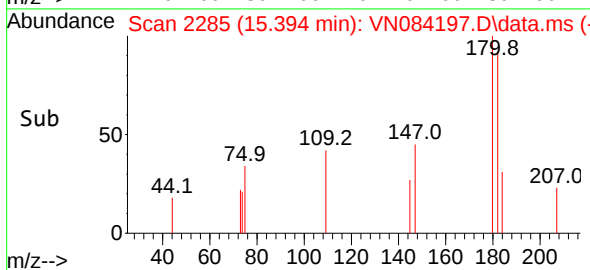
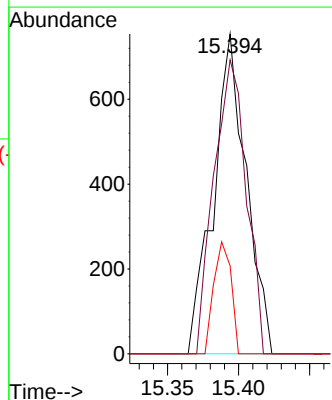
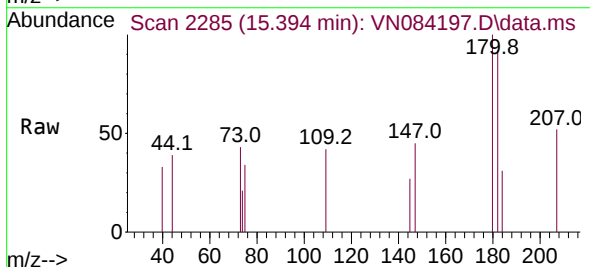
Instrument :  
MSVOA\_N  
ClientSampleId :

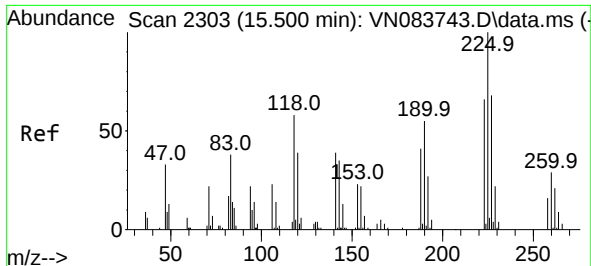
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 791         |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 39.6  | 22.8 68.3   |
| 148         | 76.5  | 32.1 96.5   |



#93  
1,2,4-Trichlorobenzene  
Concen: 0.873 ug/l  
RT: 15.394 min Scan# 2285  
Delta R.T. 0.006 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

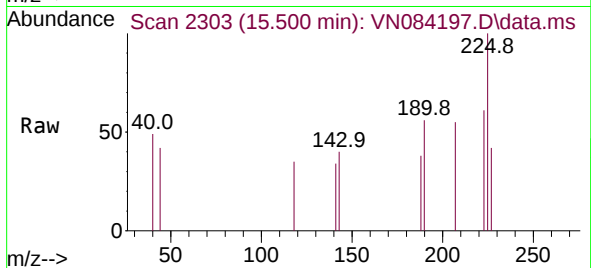
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 1208        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 90.7  | 48.1 144.3  |
| 145         | 18.5  | 16.9 50.7   |



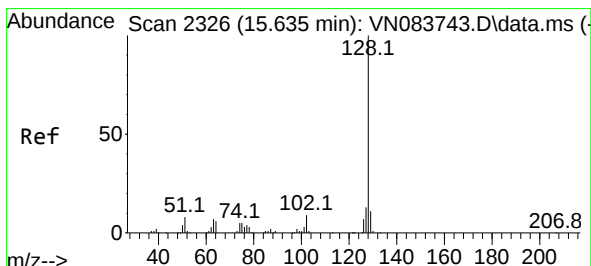
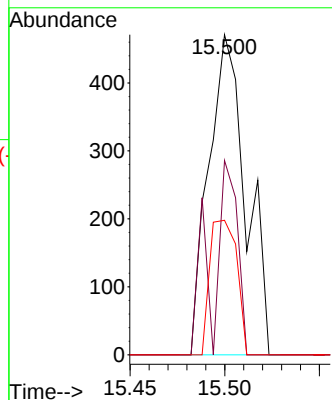
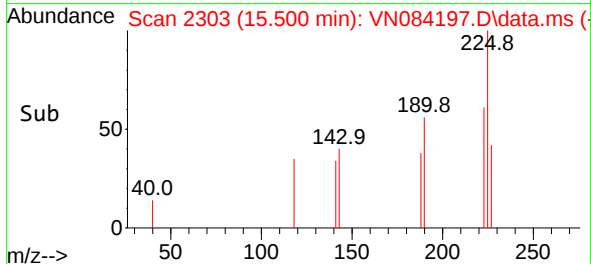


#94  
Hexachlorobutadiene  
Concen: 1.098 ug/l  
RT: 15.500 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

Instrument :  
MSVOA\_N  
ClientSampleId :

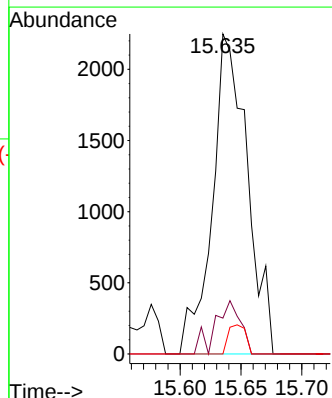
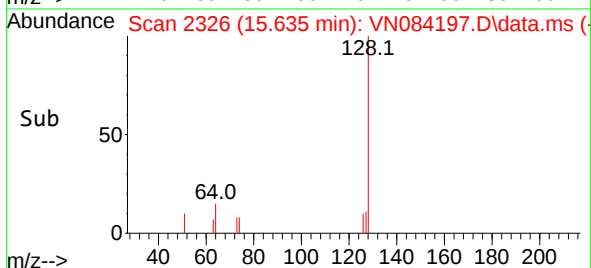
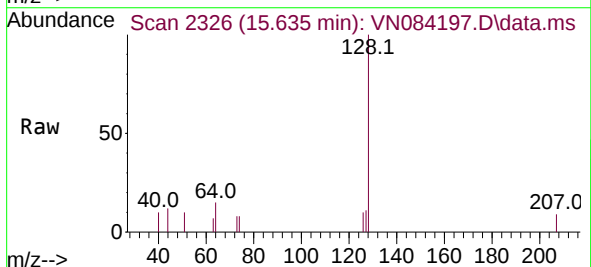


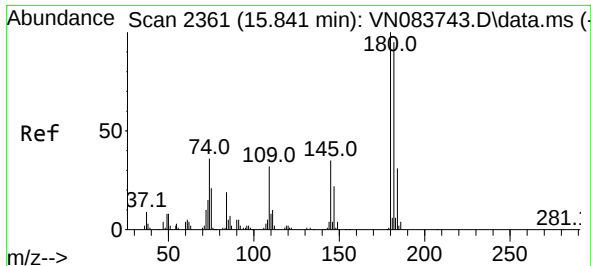
Tgt Ion:225 Resp: 645  
Ion Ratio Lower Upper  
225 100  
223 40.9 31.9 95.5  
227 30.4 32.0 96.2#



#95  
Naphthalene  
Concen: 1.069 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. 0.000 min  
Lab File: VN084197.D  
Acq: 27 Sep 2024 11:06

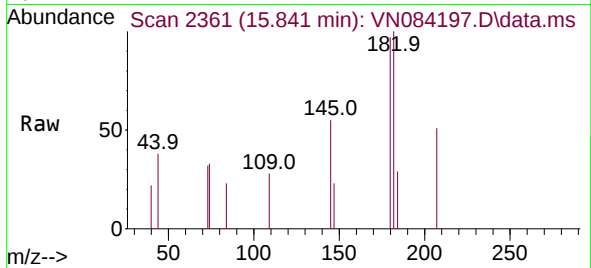
Tgt Ion:128 Resp: 4496  
Ion Ratio Lower Upper  
128 100  
127 12.1 10.2 15.2  
129 4.5 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.149 ug/l  
 RT: 15.841 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN084197.D  
 Acq: 27 Sep 2024 11:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1518  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 75.4  | 47.1  | 141.4 |
| 145      | 28.7  | 17.8  | 53.5  |

