

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092524\  
 Data File : VN084153.D  
 Acq On : 25 Sep 2024 12:35  
 Operator : JC\MD  
 Sample : P4116-09RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE122D3-20240916

Quant Time: Sep 26 01:32:25 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  | 165003   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 287547   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 242776   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 98555    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.577  | 65    | 125235   | 50.335   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 100.680% |      |
| 35) Dibromofluoromethane    | 8.165  | 113   | 94294    | 51.223   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 102.440% |      |
| 50) Toluene-d8              | 10.565 | 98    | 345558   | 54.300   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 108.600% |      |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 119236   | 45.413   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | = 90.820%  |      |

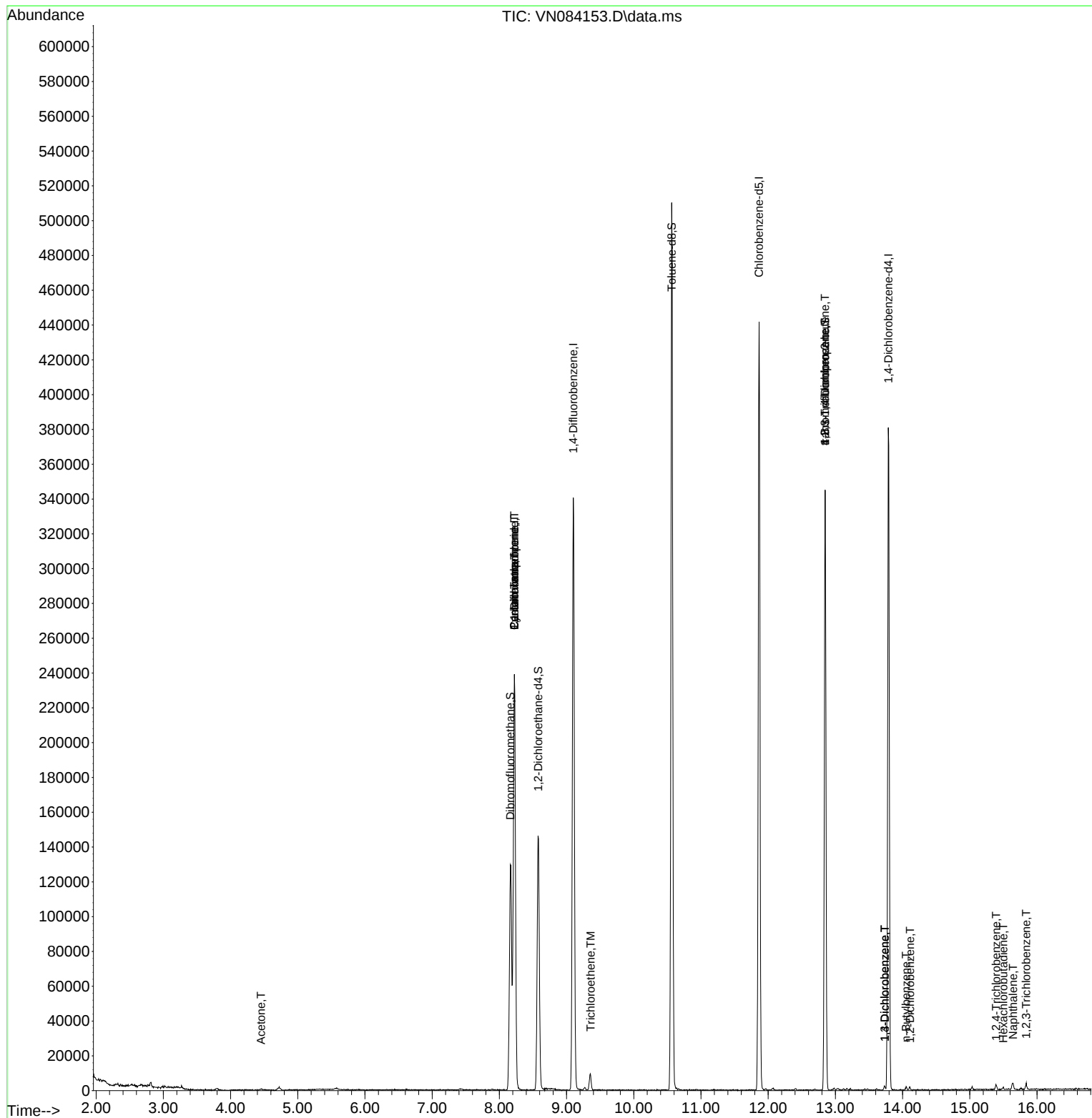
|                               |        |     |        |           |        |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| Target Compounds              |        |     | Qvalue |           |        |    |
| 3) Chloromethane              | 2.365  | 50  | 339    | Below Cal | #      | 41 |
| 16) Acetone                   | 4.453  | 43  | 936    | 0.938     | ug/l # | 45 |
| 31) Cyclohexane               | 8.224  | 56  | 4529   | 1.259     | ug/l # | 41 |
| 36) 1,1-Dichloropropene       | 8.224  | 75  | 14841  | 5.356     | ug/l # | 45 |
| 38) Carbon Tetrachloride      | 8.224  | 117 | 18818  | 5.987     | ug/l # | 15 |
| 44) Trichloroethene           | 9.359  | 130 | 3325   | 1.722     | ug/l   | 73 |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 65367  | 32.870    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 65367  | 86.089    | ug/l # | 9  |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146 | 952    | 0.275     | ug/l   | 91 |
| 88) 1,4-Dichlorobenzene       | 13.735 | 146 | 952    | 0.271     | ug/l   | 91 |
| 89) n-Butylbenzene            | 14.053 | 91  | 1262   | 0.225     | ug/l   | 92 |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146 | 948    | 0.284     | ug/l   | 74 |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180 | 1182   | 0.659     | ug/l   | 92 |
| 94) Hexachlorobutadiene       | 15.500 | 225 | 311    | 0.408     | ug/l # | 23 |
| 95) Naphthalene               | 15.647 | 128 | 4467   | 0.818     | ug/l # | 86 |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180 | 1208   | 0.705     | ug/l   | 92 |

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

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Data File : VN084153.D  
Acq On : 25 Sep 2024 12:35  
Operator : JC\MD  
Sample : P4116-09RE  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE122D3-20240916

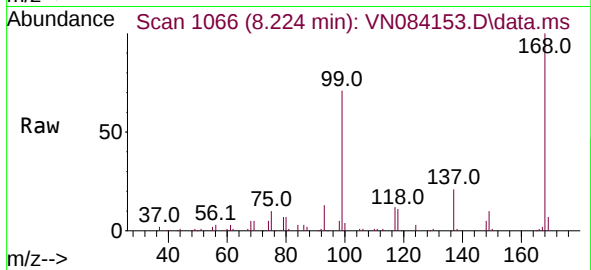
Quant Time: Sep 26 01:32:25 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



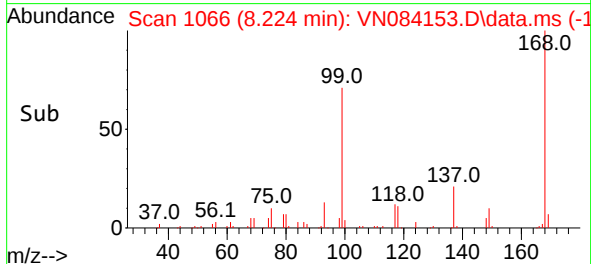
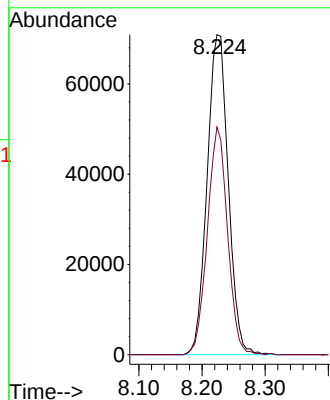


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE122D3-20240916

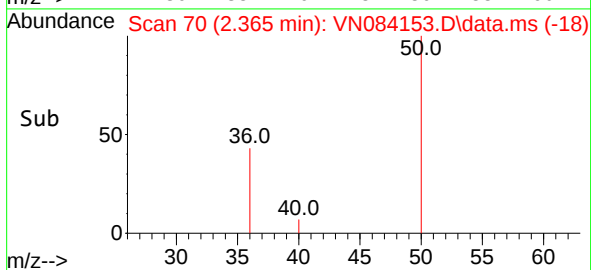
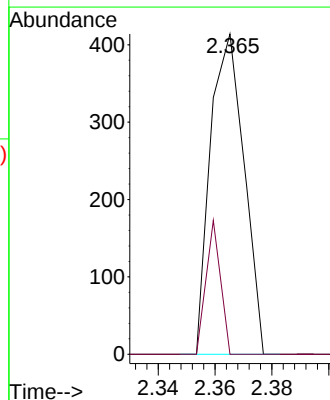
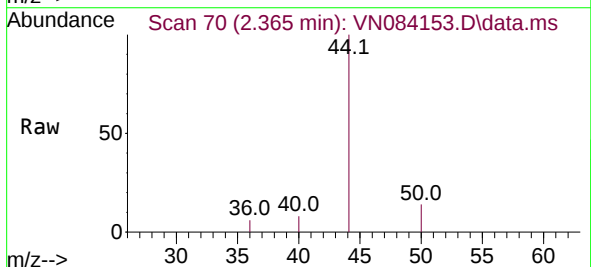


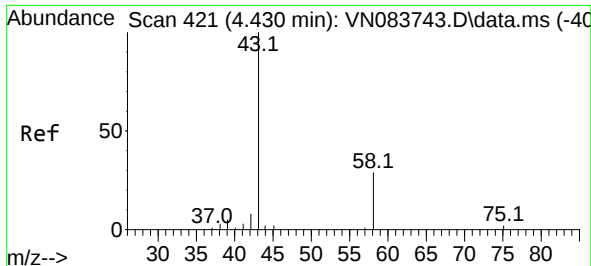
Tgt Ion:168 Resp: 165003  
Ion Ratio Lower Upper  
168 100  
99 71.1 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Tgt Ion: 50 Resp: 339  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#





#16

Acetone

Concen: 0.938 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.024 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Instrument :

MSVOA\_N

ClientSampleId :

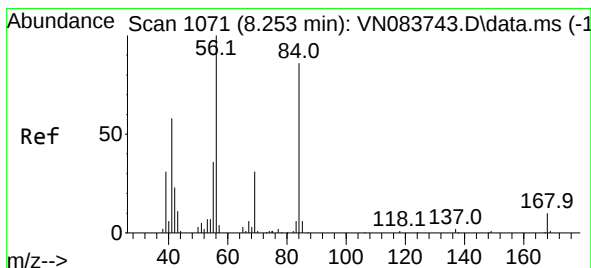
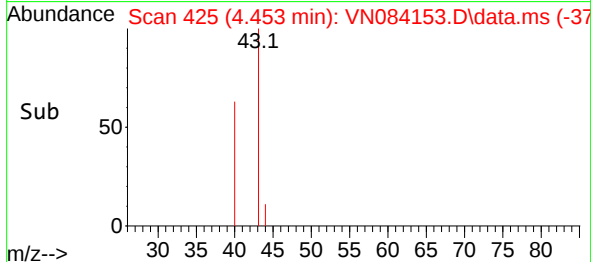
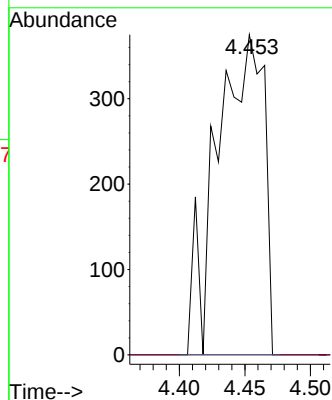
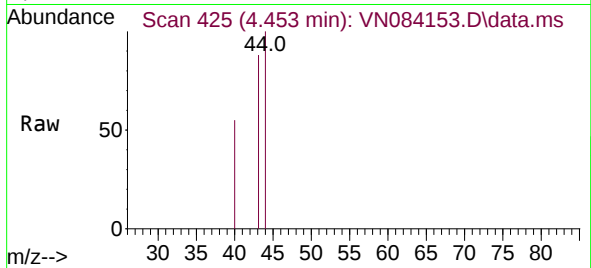
RE122D3-20240916

Tgt Ion: 43 Resp: 936

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#31

Cyclohexane

Concen: 1.259 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

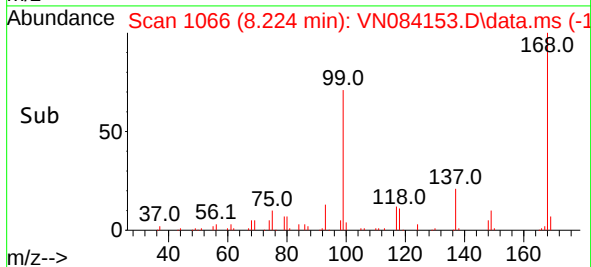
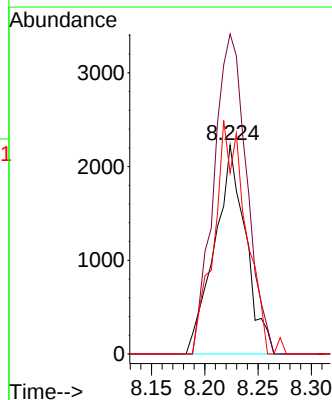
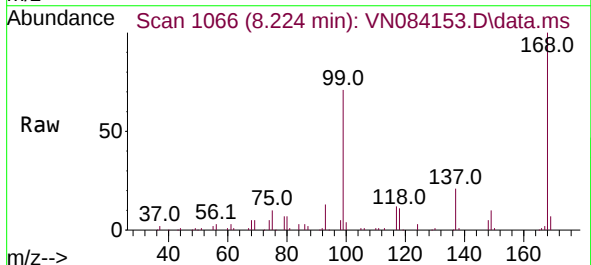
Tgt Ion: 56 Resp: 4529

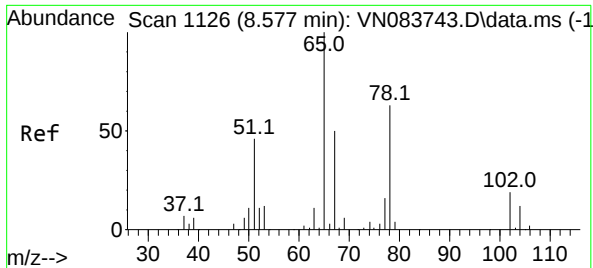
Ion Ratio Lower Upper

56 100

69 153.3 26.9 40.3#

84 86.7 69.2 103.8





#33

1,2-Dichloroethane-d4

Concen: 50.335 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Instrument :

MSVOA\_N

ClientSampleId :

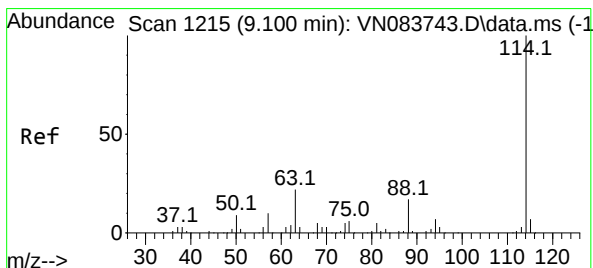
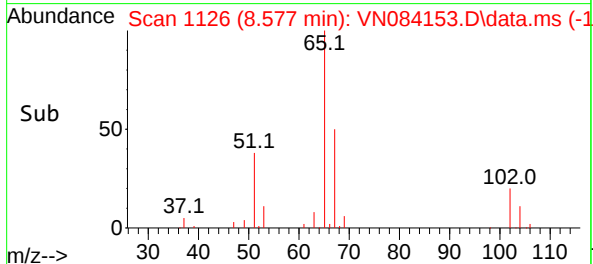
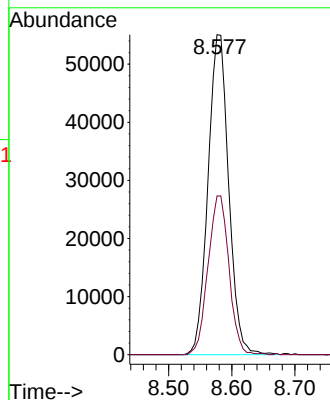
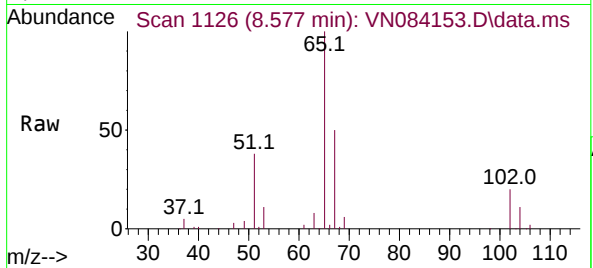
RE122D3-20240916

Tgt Ion: 65 Resp: 125235

Ion Ratio Lower Upper

65 100

67 50.3 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

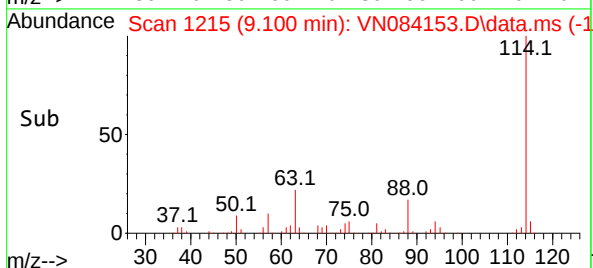
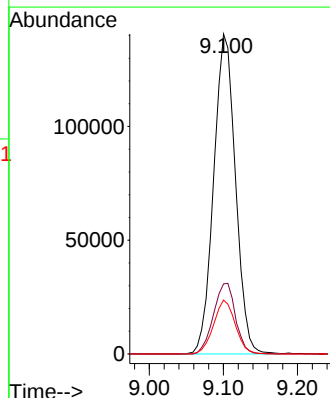
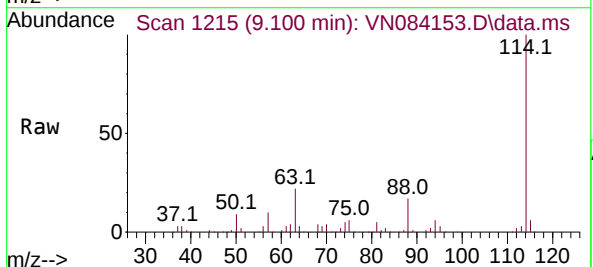
Tgt Ion: 114 Resp: 287547

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.4

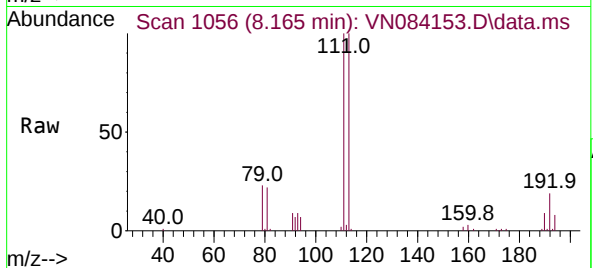
88 16.9 0.0 32.6



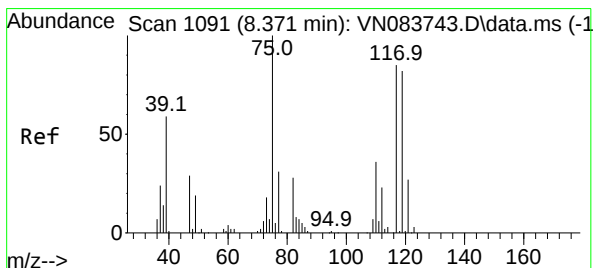
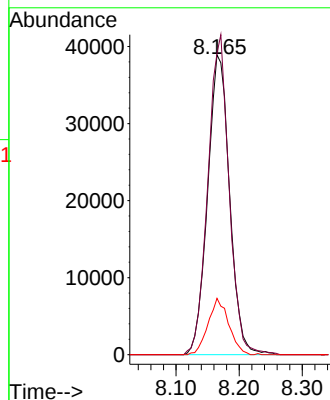
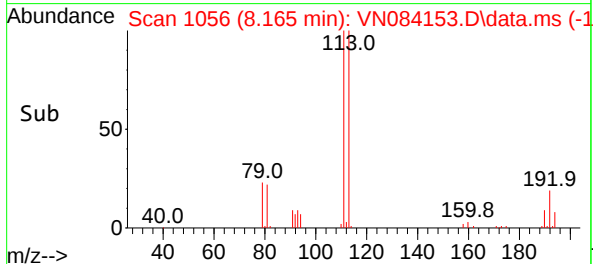


#35  
Dibromofluoromethane  
Concen: 51.223 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE122D3-20240916

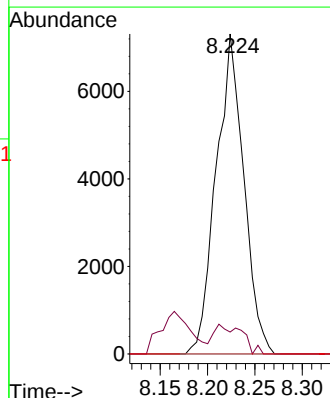
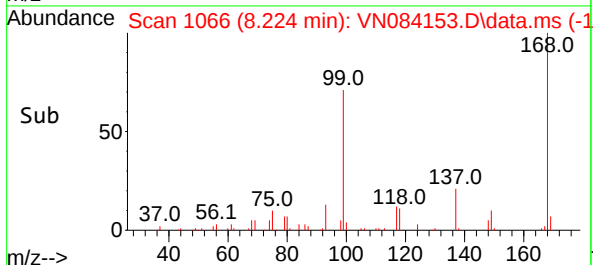
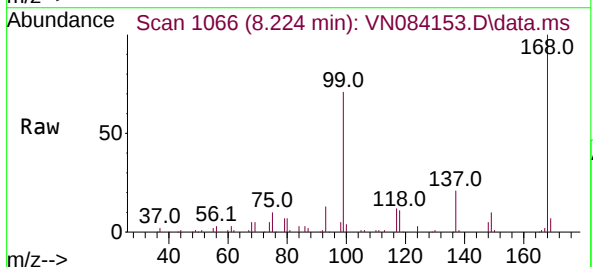


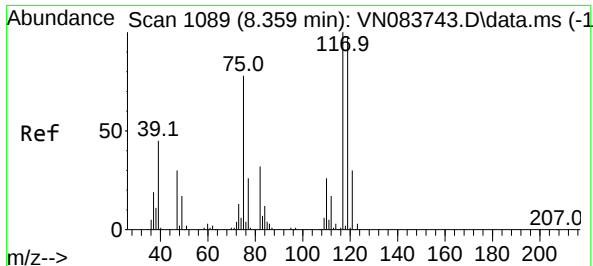
Tgt Ion:113 Resp: 94294  
Ion Ratio Lower Upper  
113 100  
111 102.7 82.6 124.0  
192 17.6 14.3 21.5



#36  
1,1-Dichloropropene  
Concen: 5.356 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

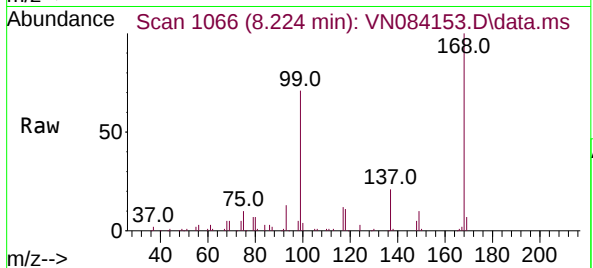
Tgt Ion: 75 Resp: 14841  
Ion Ratio Lower Upper  
75 100  
110 3.1 16.7 50.1#  
77 0.0 25.2 37.8#



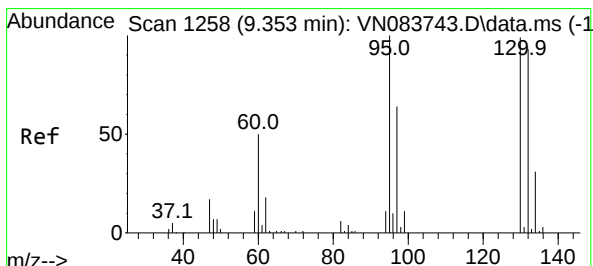
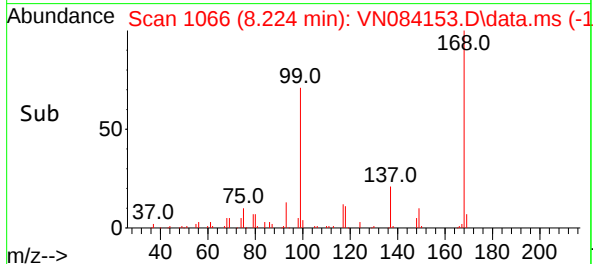
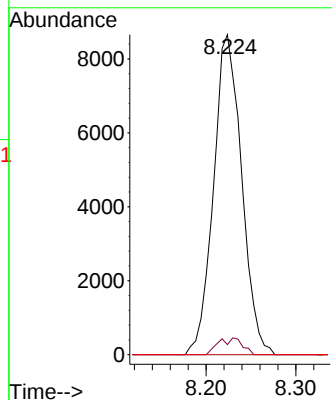


#38  
Carbon Tetrachloride  
Concen: 5.987 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Instrument :  
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ClientSampleId :  
RE122D3-20240916

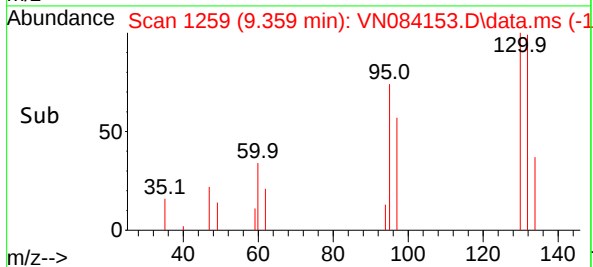
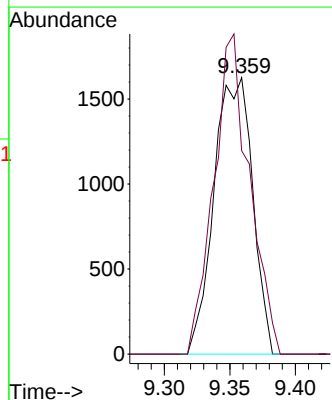
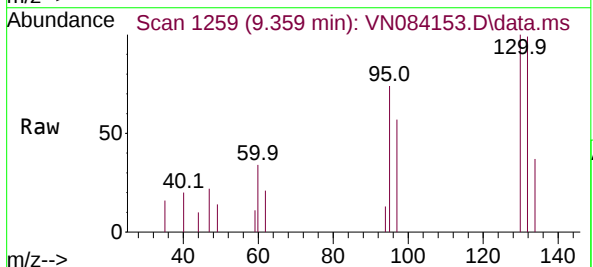


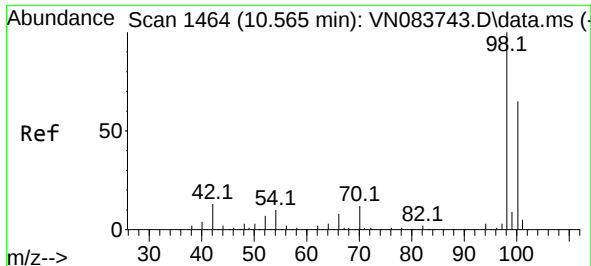
Tgt Ion:117 Resp: 18818  
Ion Ratio Lower Upper  
117 100  
119 3.1 76.1 114.1#  
121 0.0 24.1 36.1#



#44  
Trichloroethene  
Concen: 1.722 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. 0.006 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Tgt Ion:130 Resp: 3325  
Ion Ratio Lower Upper  
130 100  
95 73.6 0.0 200.4

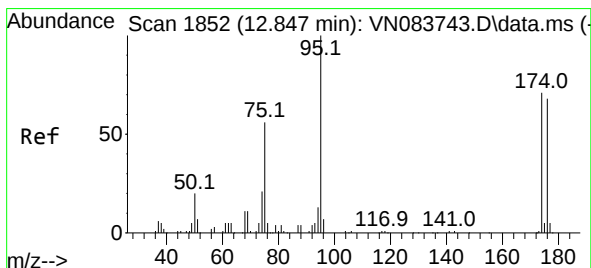
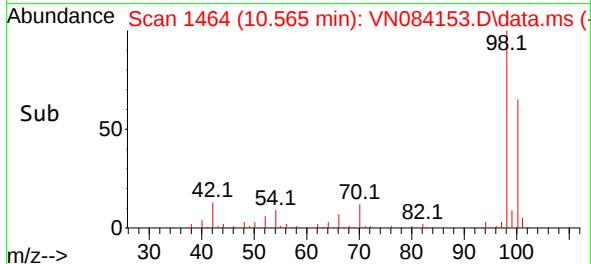
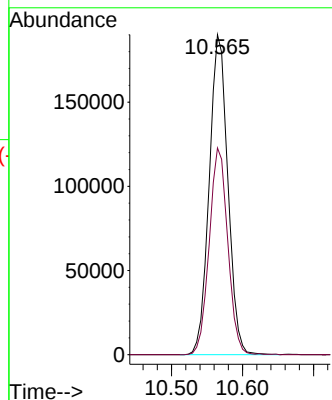
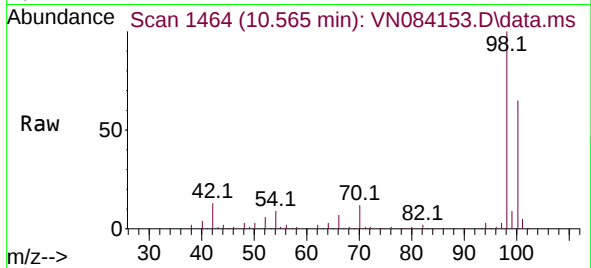




#50  
Toluene-d8  
Concen: 54.300 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

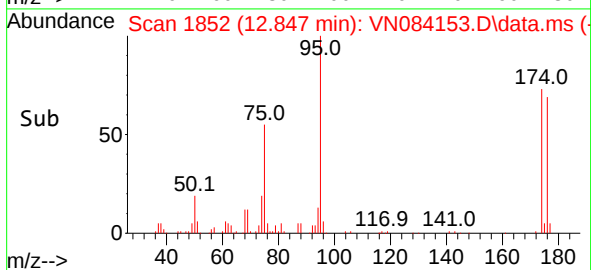
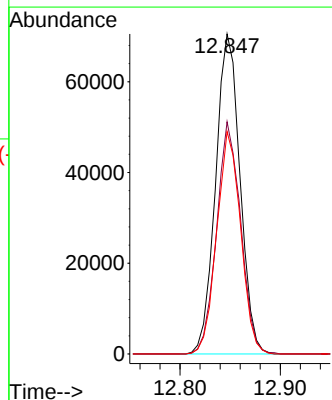
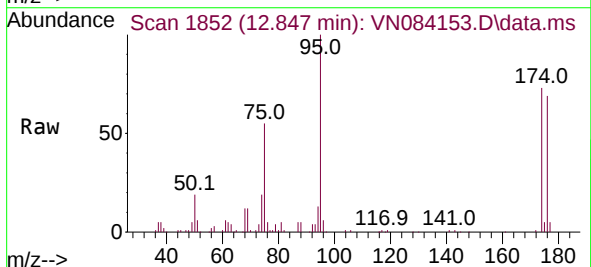
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ClientSampleId :  
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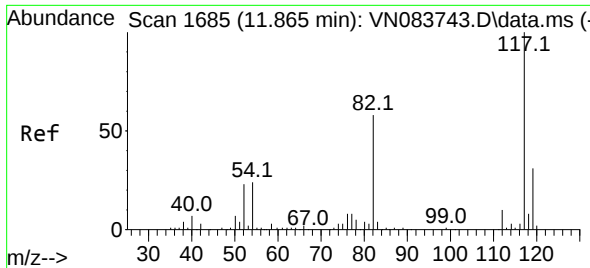
Tgt Ion: 98 Resp: 345558  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 45.413 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Tgt Ion: 95 Resp: 119236  
Ion Ratio Lower Upper  
95 100  
174 71.5 0.0 139.8  
176 67.9 0.0 131.4

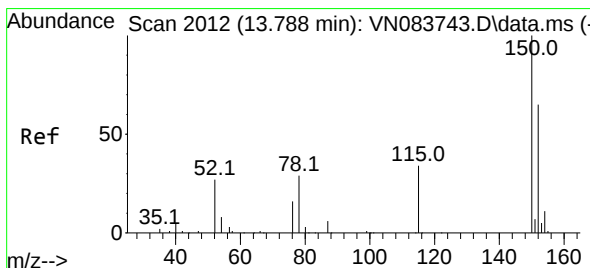
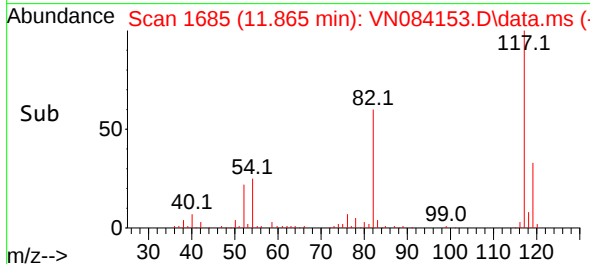
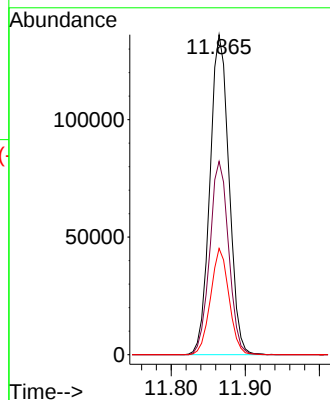
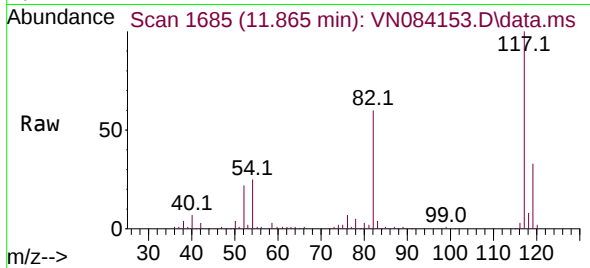




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

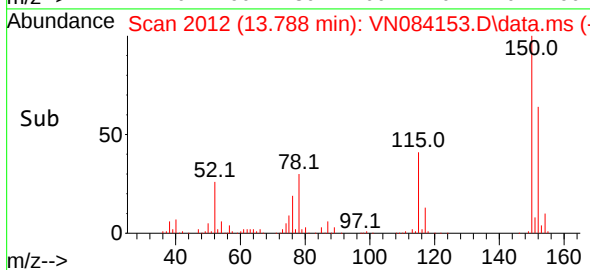
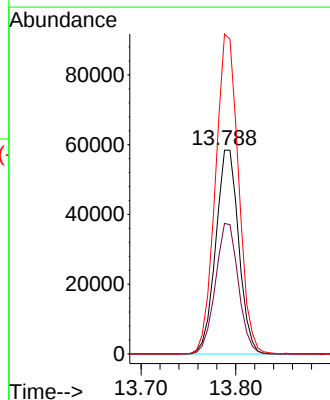
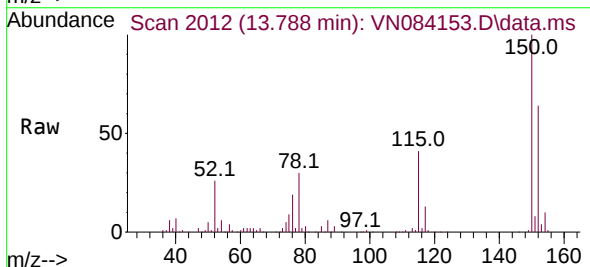
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE122D3-20240916

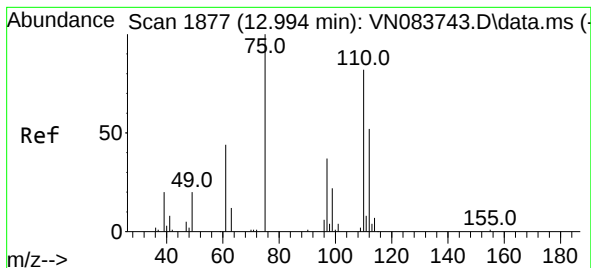
Tgt Ion:117 Resp: 242776  
Ion Ratio Lower Upper  
117 100  
82 60.4 47.4 71.0  
119 33.2 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN084153.D  
Acq: 25 Sep 2024 12:35

Tgt Ion:152 Resp: 98555  
Ion Ratio Lower Upper  
152 100  
115 64.1 32.2 96.6  
150 157.8 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 32.870 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Instrument :

MSVOA\_N

ClientSampleId :

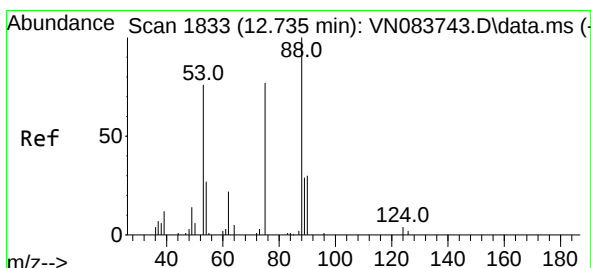
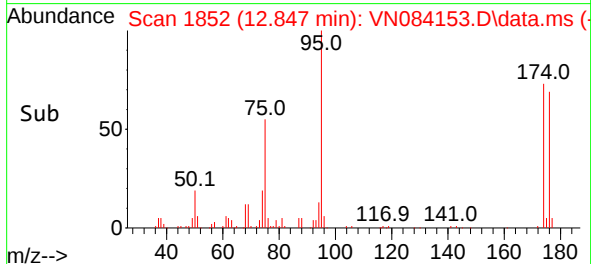
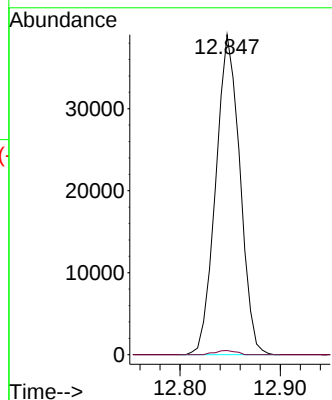
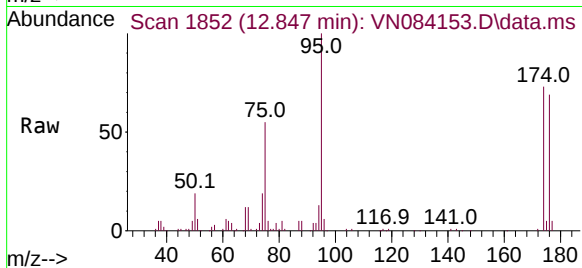
RE122D3-20240916

Tgt Ion: 75 Resp: 65367

Ion Ratio Lower Upper

75 100

77 1.1 95.2 285.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 86.089 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

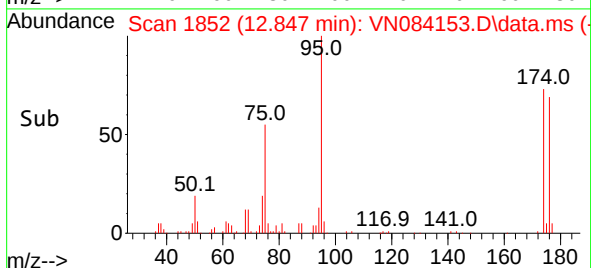
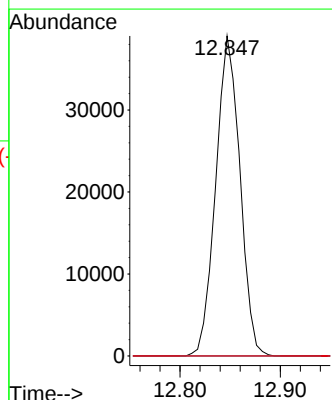
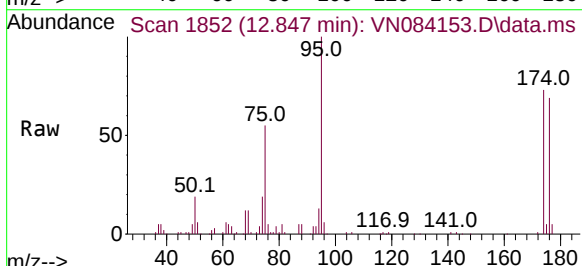
Tgt Ion: 75 Resp: 65367

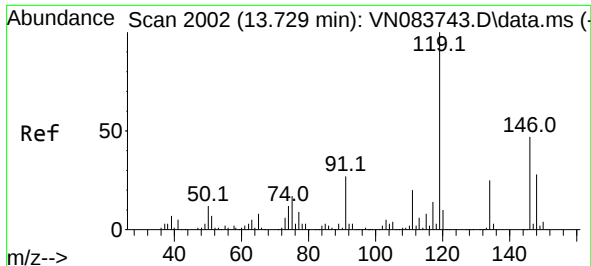
Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#





#87

1,3-Dichlorobenzene

Concen: 0.275 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Instrument :

MSVOA\_N

ClientSampleId :

RE122D3-20240916

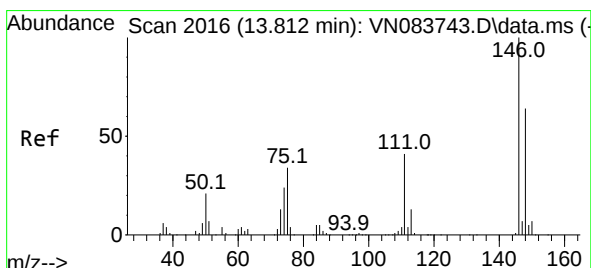
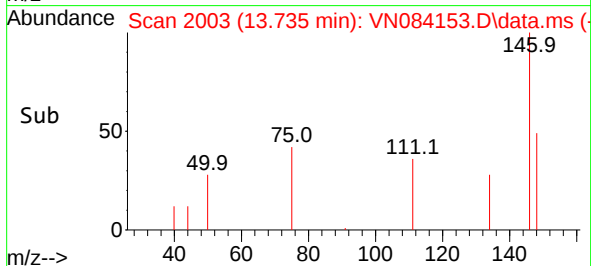
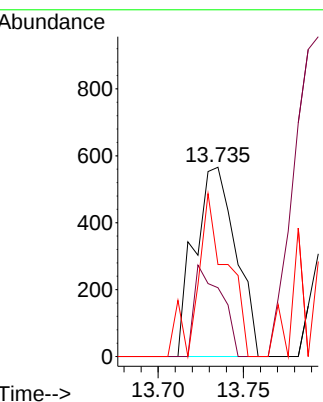
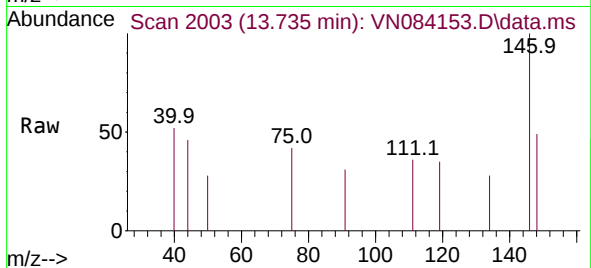
Tgt Ion:146 Resp: 952

Ion Ratio Lower Upper

146 100

111 31.5 21.7 65.1

148 61.7 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 0.271 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.077 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

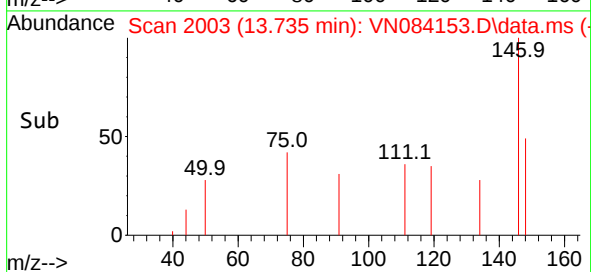
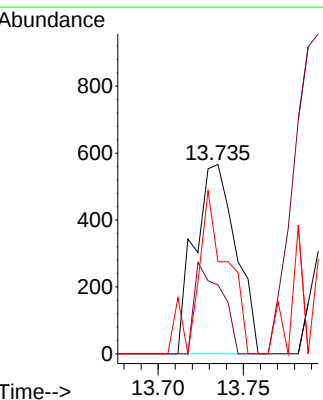
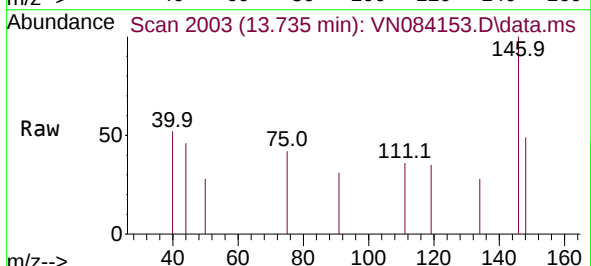
Tgt Ion:146 Resp: 952

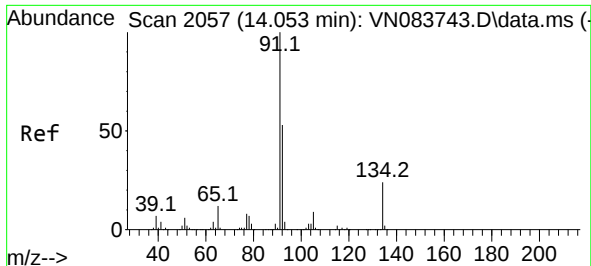
Ion Ratio Lower Upper

146 100

111 31.5 21.3 64.0

148 61.7 32.0 96.2





#89

n-Butylbenzene

Concen: 0.225 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

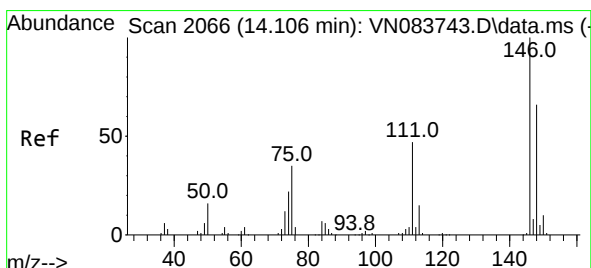
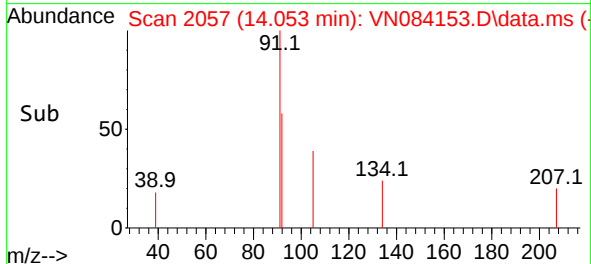
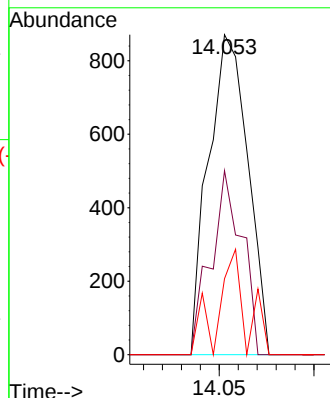
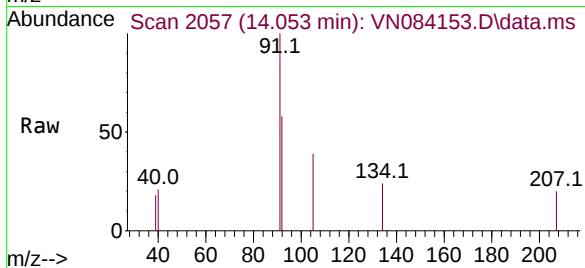
Instrument :

MSVOA\_N

ClientSampleId :

RE122D3-20240916

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 91 | Resp: | 1262        |
| Ion         | Ratio | Lower Upper |
| 91          | 100   |             |
| 92          | 45.3  | 26.7 80.1   |
| 134         | 23.5  | 12.2 36.4   |



#91

1,2-Dichlorobenzene

Concen: 0.284 ug/l

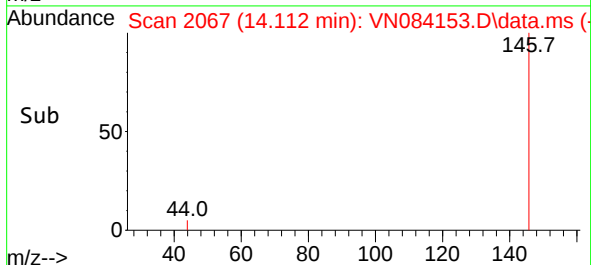
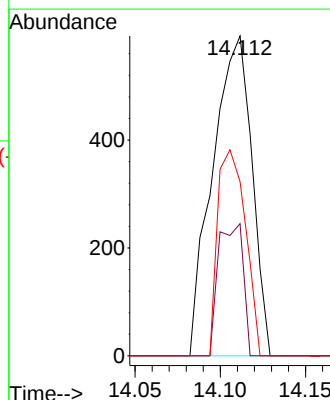
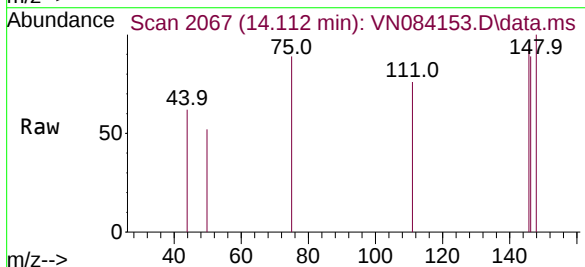
RT: 14.112 min Scan# 2067

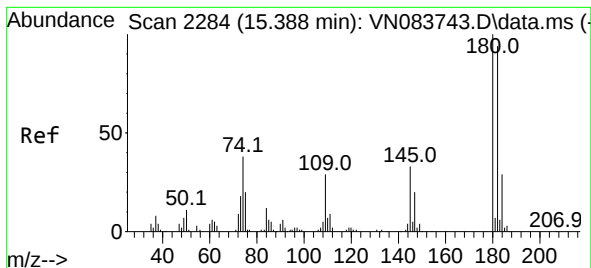
Delta R.T. 0.006 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 146 | Resp: | 948         |
| Ion          | Ratio | Lower Upper |
| 146          | 100   |             |
| 111          | 25.9  | 22.8 68.3   |
| 148          | 45.6  | 32.1 96.5   |





#93

1,2,4-Trichlorobenzene

Concen: 0.659 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Instrument :

MSVOA\_N

ClientSampleId :

RE122D3-20240916

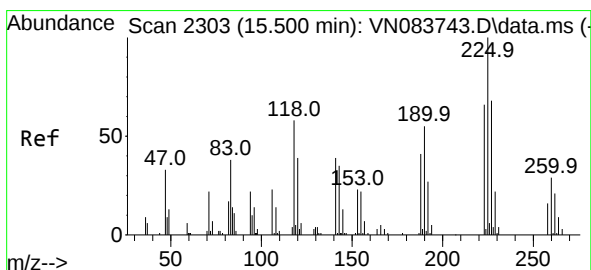
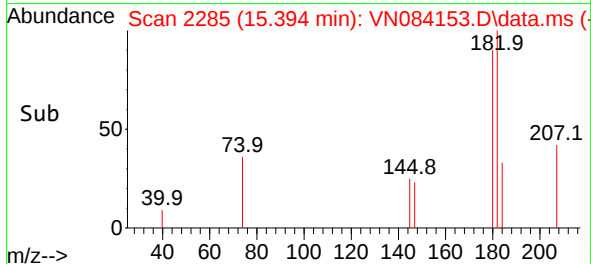
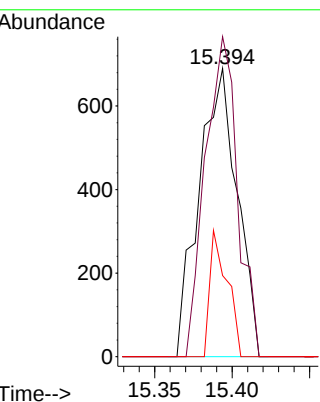
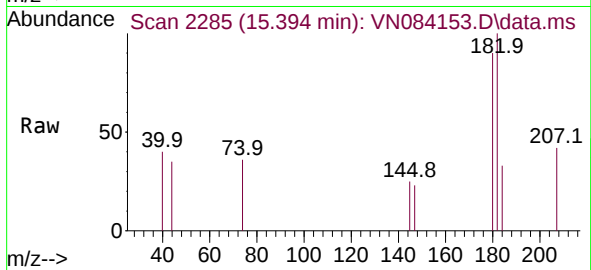
Tgt Ion:180 Resp: 1182

Ion Ratio Lower Upper

180 100

182 93.5 48.1 144.3

145 19.8 16.9 50.7



#94

Hexachlorobutadiene

Concen: 0.408 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

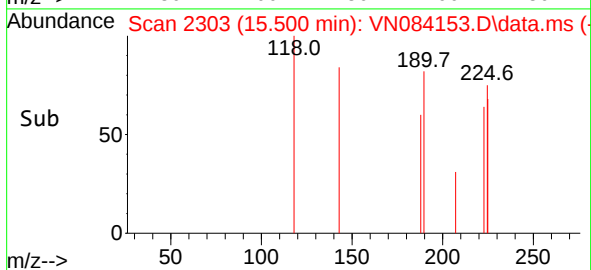
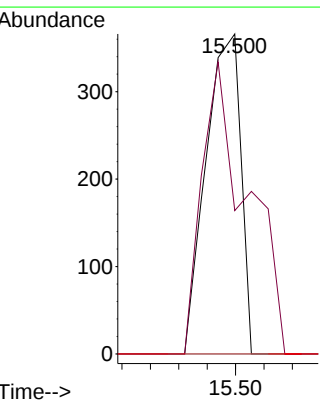
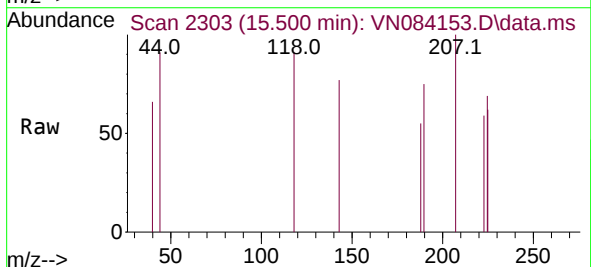
Tgt Ion:225 Resp: 311

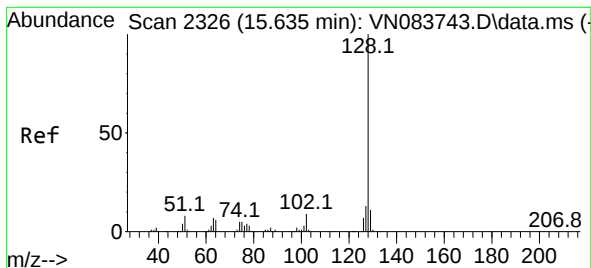
Ion Ratio Lower Upper

225 100

223 119.6 31.9 95.5#

227 0.0 32.0 96.2#





#95

Naphthalene

Concen: 0.818 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Instrument :

MSVOA\_N

ClientSampleId :

RE122D3-20240916

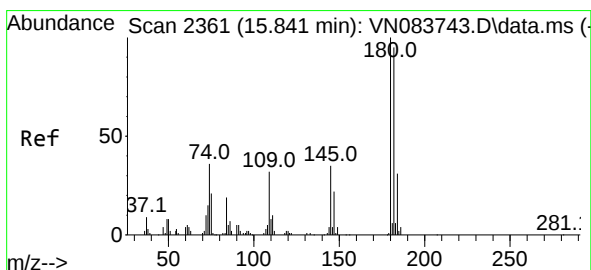
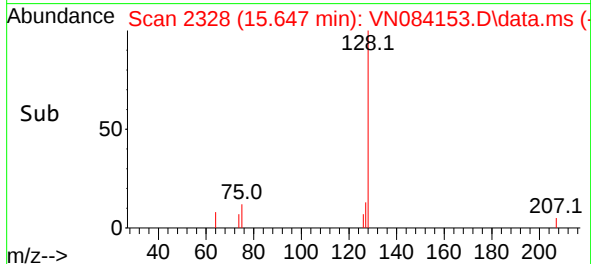
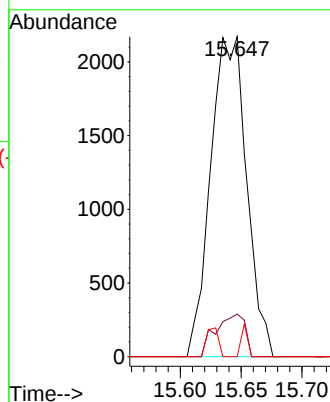
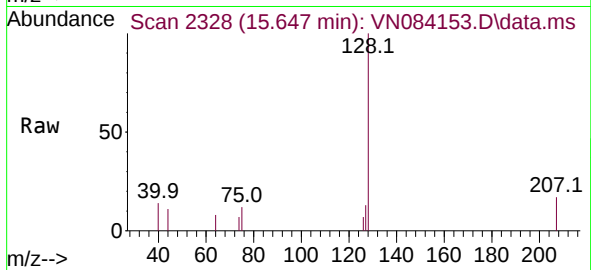
Tgt Ion:128 Resp: 4467

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.2

129 1.7 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.705 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN084153.D

Acq: 25 Sep 2024 12:35

Tgt Ion:180 Resp: 1208

Ion Ratio Lower Upper

180 100

182 100.8 47.1 141.4

145 29.2 17.8 53.5

