

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072624\  
 Data File : VD079416.D  
 Acq On : 26 Jul 2024 19:04  
 Operator : RP/MD  
 Sample : P3363-01  
 Misc : 5.03G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 27 03:37:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 26 12:23:49 2024  
 Response via : Initial Calibration

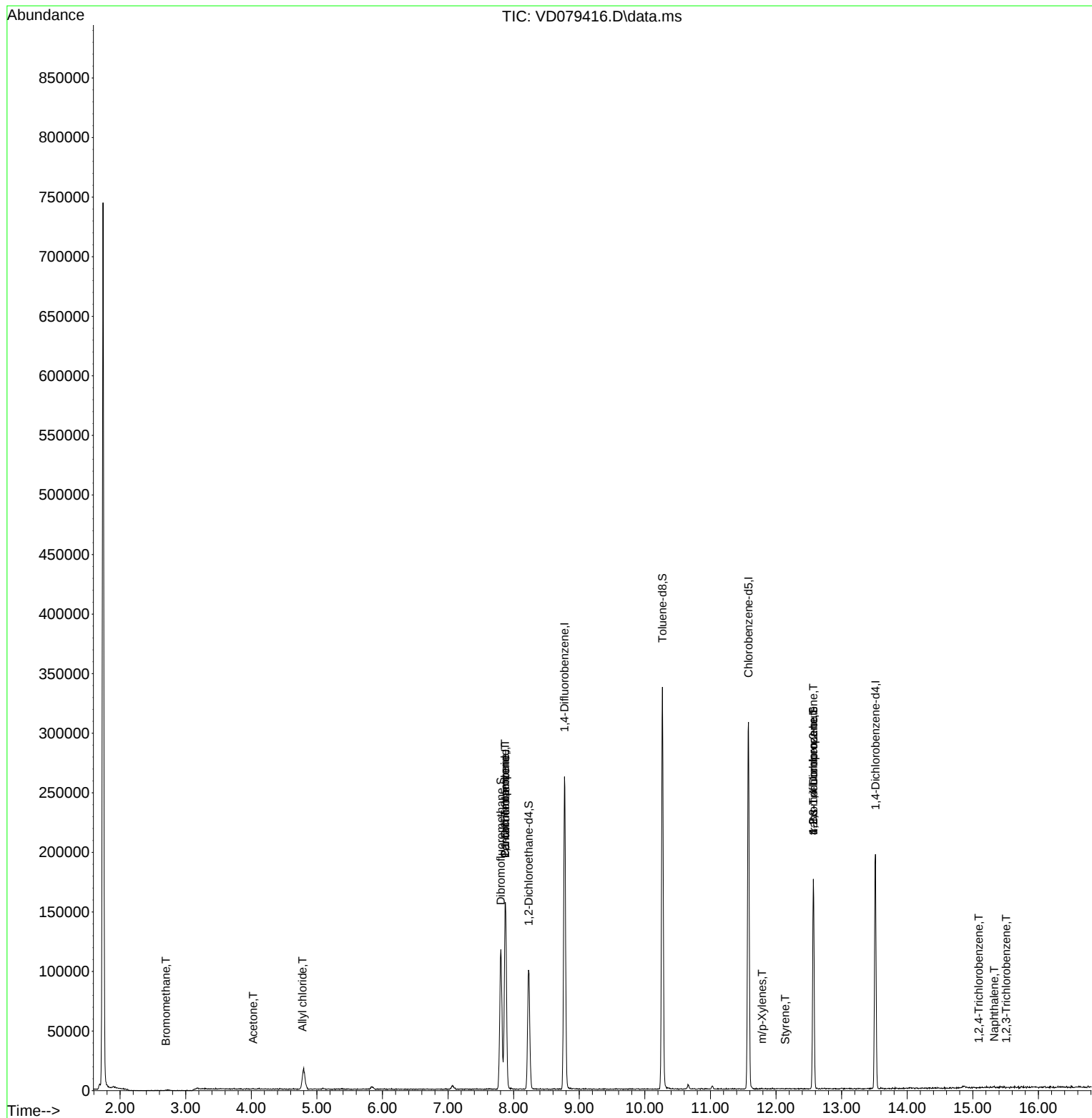
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.875     | 168   | 117453   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.775     | 114   | 231558   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.581    | 117   | 187544   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516    | 152   | 54083    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.228     | 65    | 79053    | 70.942    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 141.880% |          |
| 35) Dibromofluoromethane      | 7.804     | 113   | 87482    | 62.153    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 124.300% |          |
| 50) Toluene-d8                | 10.269    | 98    | 241223   | 43.662    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | = 87.320%  |          |
| 62) 4-Bromofluorobenzene      | 12.569    | 95    | 58046    | 33.814    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery  | = 67.620%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           |            | Qvalue   |
| 5) Bromomethane               | 2.699     | 94    | 234      | 3.689     | ug/l       | # 2      |
| 14) Allyl chloride            | 4.781     | 41    | 87       | 2.605     | ug/l       | # 17     |
| 16) Acetone                   | 4.028     | 43    | 340      | 12.557    | ug/l       | # 37     |
| 20) Methylene Chloride        | 4.799     | 84    | 13613    | Below Cal |            | 91       |
| 26) 2,2-Dichloropropane       | 7.075     | 77    | 141      | Below Cal | #          | 50       |
| 31) Cyclohexane               | 7.869     | 56    | 3129     | Below Cal | #          | 49       |
| 36) 1,1-Dichloropropene       | 7.869     | 75    | 10400    | 4.097     | ug/l       | # 47     |
| 38) Carbon Tetrachloride      | 7.869     | 117   | 12671    | 3.514     | ug/l       | # 18     |
| 40) Benzene                   | 8.257     | 78    | 468      | Below Cal | #          | 53       |
| 42) 1,2-Dichloroethane        | 8.346     | 62    | 54       | Below Cal | #          | 67       |
| 51) 4-Methyl-2-Pentanone      | 10.151    | 43    | 61       | Below Cal | #          | 31       |
| 68) m/p-Xylenes               | 11.787    | 106   | 57       | 1.446     | ug/l       | # 1      |
| 70) Styrene                   | 12.140    | 104   | 56       | 1.169     | ug/l       | # 28     |
| 76) 1,2,3-Trichloropropane    | 12.569    | 75    | 28881    | 54.968    | ug/l       | # 100    |
| 78) n-propylbenzene           | 12.763    | 91    | 63       | Below Cal | #          | 51       |
| 79) 2-Chlorotoluene           | 12.763    | 91    | 63       | Below Cal | #          | 37       |
| 81) trans-1,4-Dichloro-2-b... | 12.569    | 75    | 28881    | 114.930   | ug/l       | # 19     |
| 82) 4-Chlorotoluene           | 12.763    | 91    | 63       | Below Cal | #          | 37       |
| 85) sec-Butylbenzene          | 13.210    | 105   | 156      | Below Cal | #          | 56       |
| 87) 1,3-Dichlorobenzene       | 13.445    | 146   | 57       | Below Cal | #          | 1        |
| 88) 1,4-Dichlorobenzene       | 13.534    | 146   | 223      | Below Cal | #          | 1        |
| 91) 1,2-Dichlorobenzene       | 13.828    | 146   | 57       | Below Cal | #          | 47       |
| 93) 1,2,4-Trichlorobenzene    | 15.092    | 180   | 122      | 1.535     | ug/l       | # 13     |
| 95) Naphthalene               | 15.328    | 128   | 1111     | 3.177     | ug/l       | # 70     |
| 96) 1,2,3-Trichlorobenzene    | 15.510    | 180   | 78       | 1.069     | ug/l       | # 12     |
| -----                         |           |       |          |           |            |          |

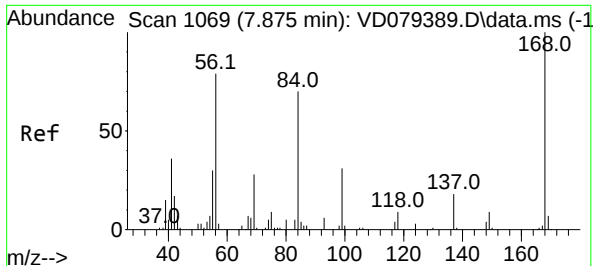
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072624\  
Data File : VD079416.D  
Acq On : 26 Jul 2024 19:04  
Operator : RP/MD  
Sample : P3363-01  
Misc : 5.03G/5.0ml/MSVOA\_D/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

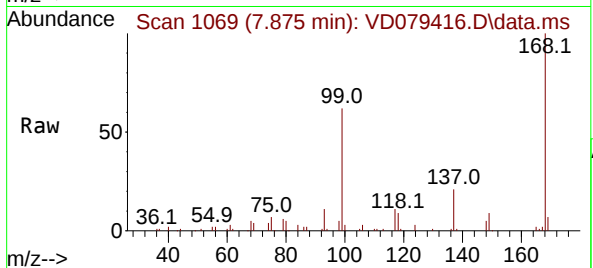
Quant Time: Jul 27 03:37:15 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072524S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 26 12:23:49 2024  
Response via : Initial Calibration



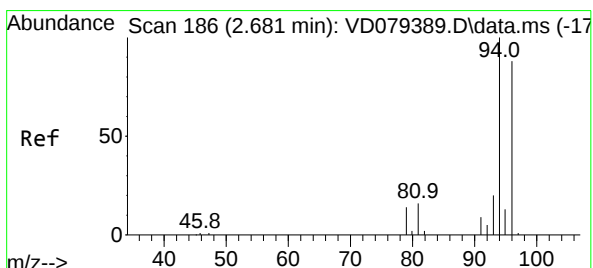
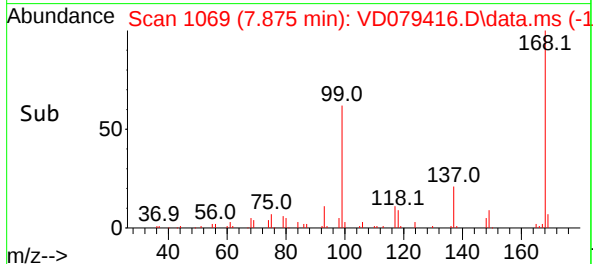
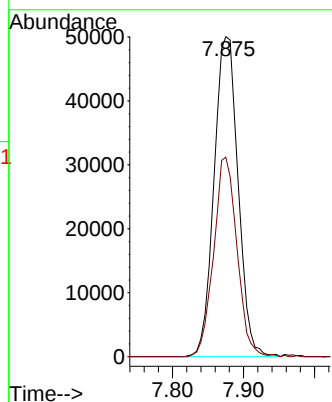


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Instrument :  
MSVOA\_D  
ClientSampleId :

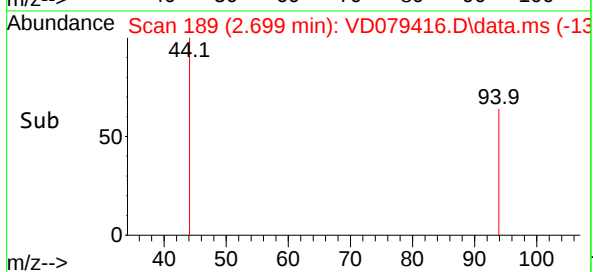
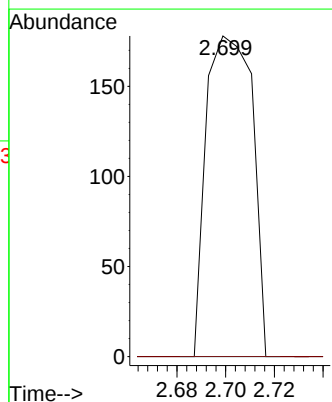
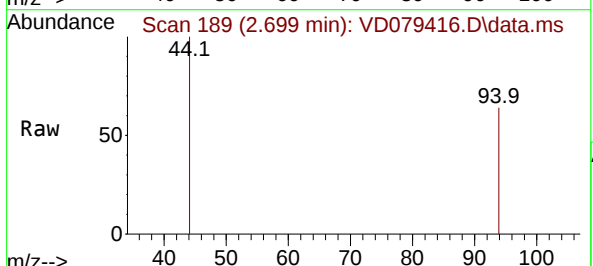


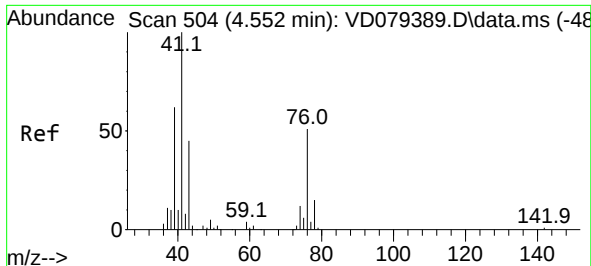
Tgt Ion:168 Resp: 117453  
Ion Ratio Lower Upper  
168 100  
99 62.3 41.1 61.7#



#5  
Bromomethane  
Concen: 3.689 ug/l  
RT: 2.699 min Scan# 189  
Delta R.T. 0.012 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

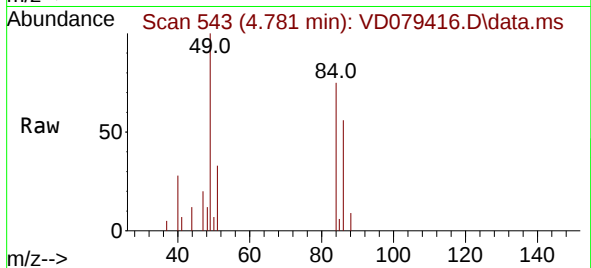
Tgt Ion: 94 Resp: 234  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.9 115.3#



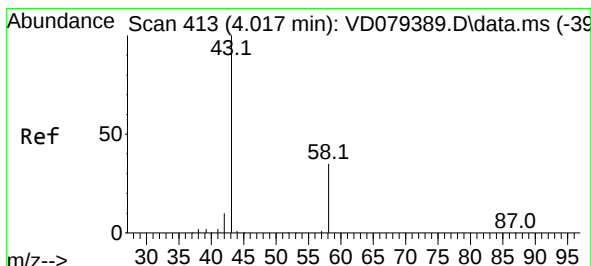
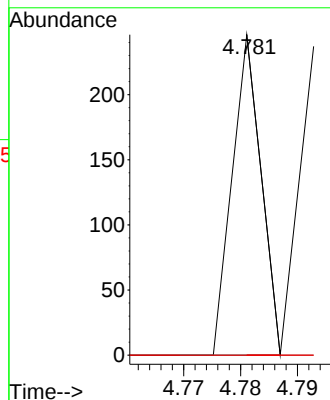
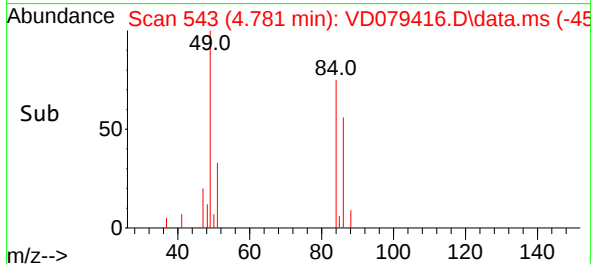


#14  
 Allyl chloride  
 Concen: 2.605 ug/l  
 RT: 4.781 min Scan# 54  
 Delta R.T. 0.223 min  
 Lab File: VD079416.D  
 Acq: 26 Jul 2024 19:04

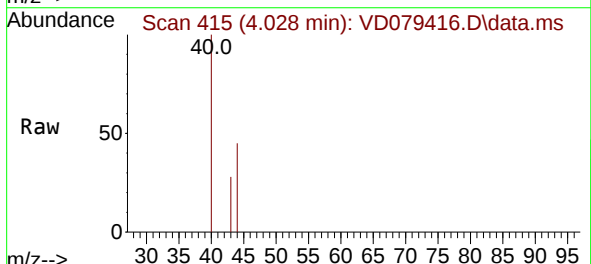
Instrument :  
 MSVOA\_D  
 ClientSampleId :



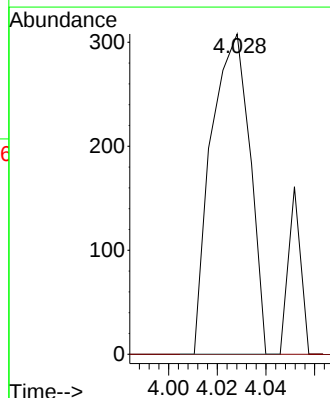
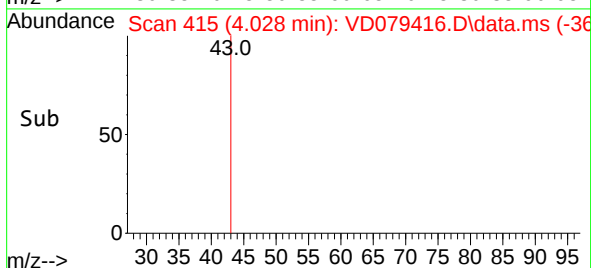
Tgt Ion: 41 Resp: 87  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 58.0 87.0#  
 76 0.0 45.9 68.9#

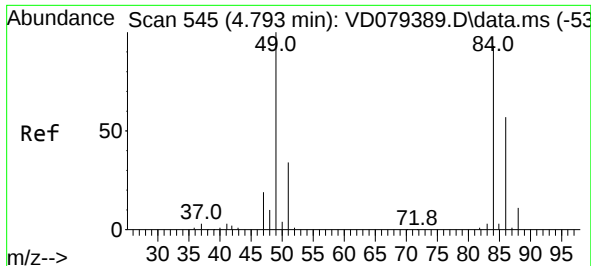


#16  
 Acetone  
 Concen: 12.557 ug/l  
 RT: 4.028 min Scan# 415  
 Delta R.T. 0.005 min  
 Lab File: VD079416.D  
 Acq: 26 Jul 2024 19:04



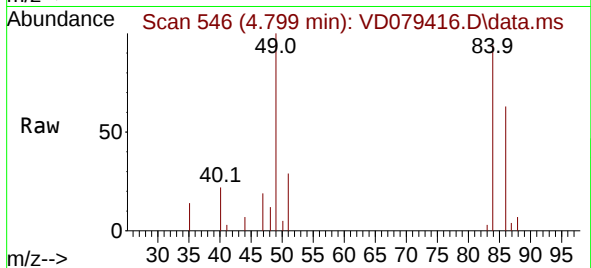
Tgt Ion: 43 Resp: 340  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 30.4 45.6#



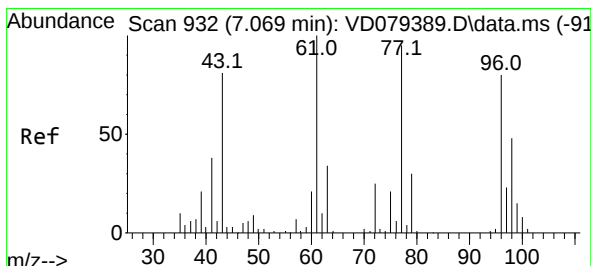
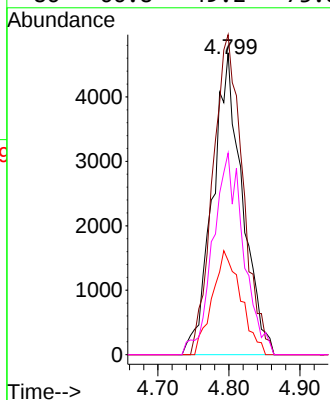
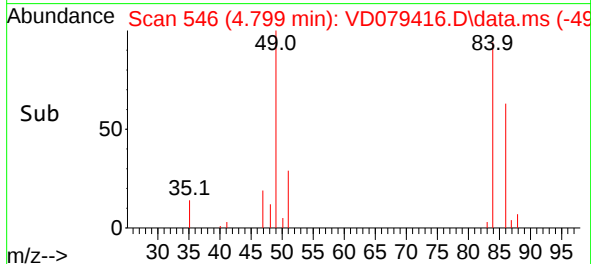


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.799 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Instrument :  
MSVOA\_D  
ClientSampleId :

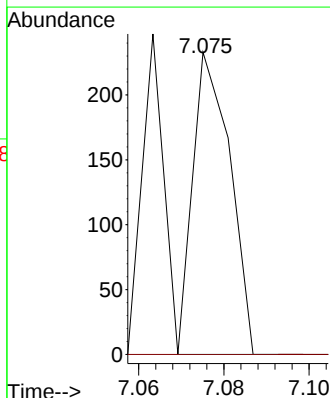
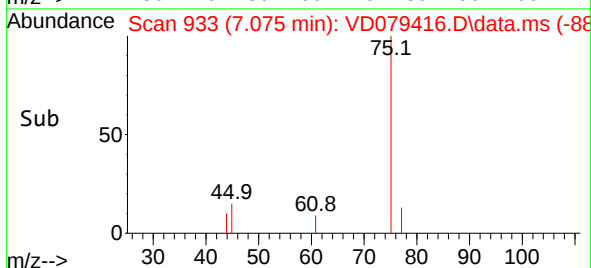
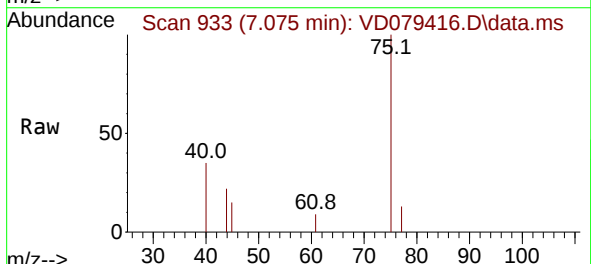


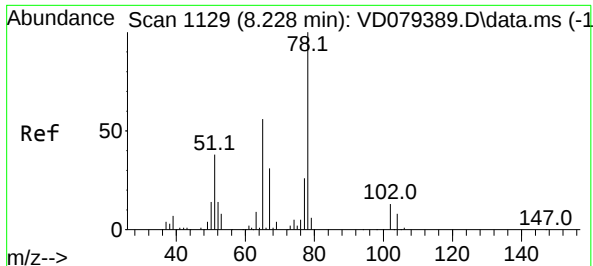
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 13613 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 106.0 | 75.6  | 113.4 |
| 51       | 31.1  | 24.2  | 36.2  |
| 86       | 66.8  | 49.2  | 73.8  |



#26  
2,2-Dichloropropane  
Concen: Below Cal  
RT: 7.075 min Scan# 933  
Delta R.T. 0.006 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 141   |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 97       | 0.0   | 12.4  | 37.2# |





#33

1,2-Dichloroethane-d4

Concen: 70.942 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD079416.D

Acq: 26 Jul 2024 19:04

Instrument :

MSVOA\_D

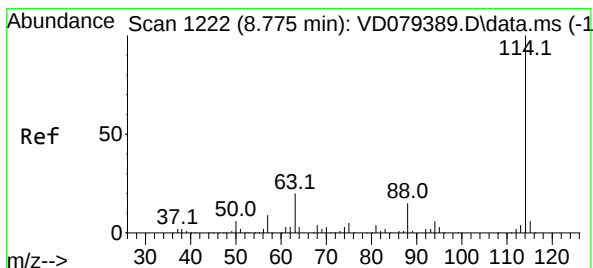
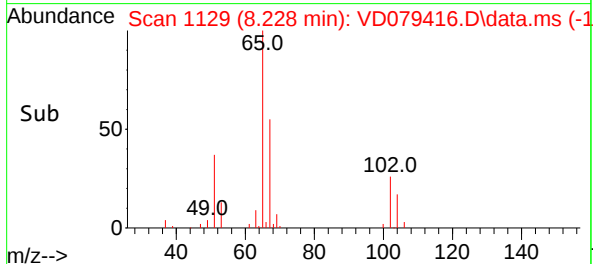
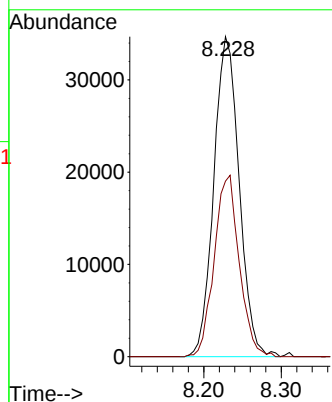
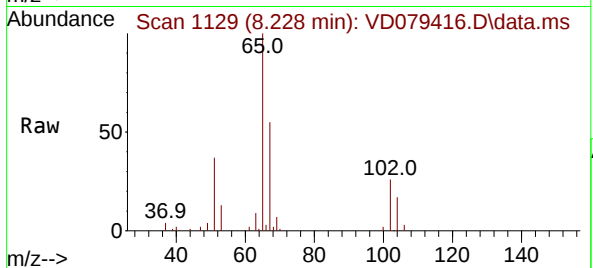
ClientSampleId :

Tgt Ion: 65 Resp: 79053

Ion Ratio Lower Upper

65 100

67 55.9 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD079416.D

Acq: 26 Jul 2024 19:04

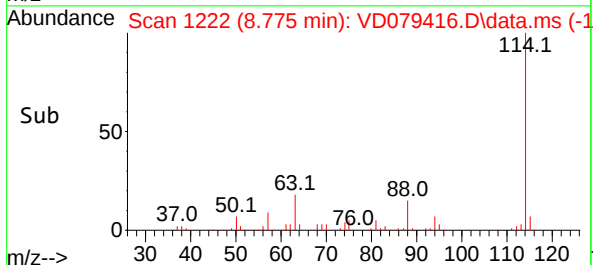
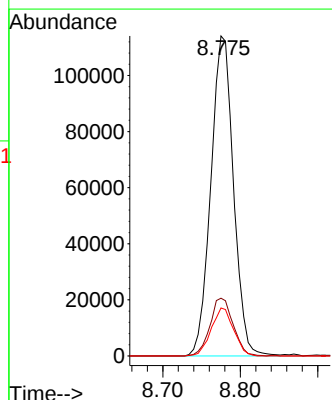
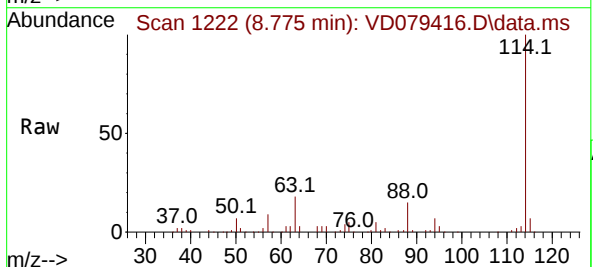
Tgt Ion: 114 Resp: 231558

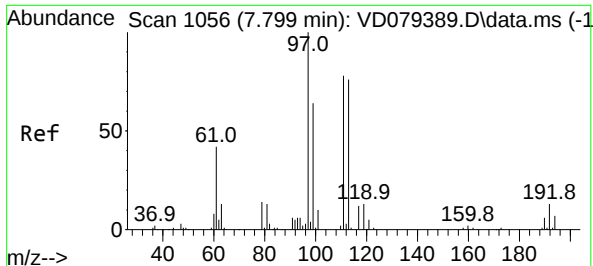
Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.0

88 15.0 0.0 27.2

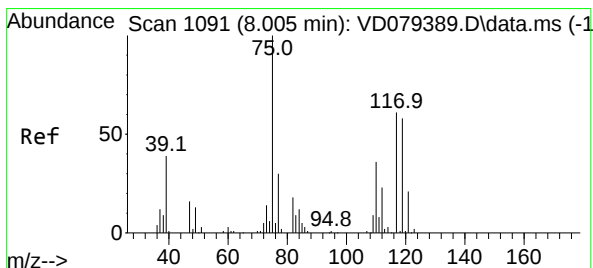
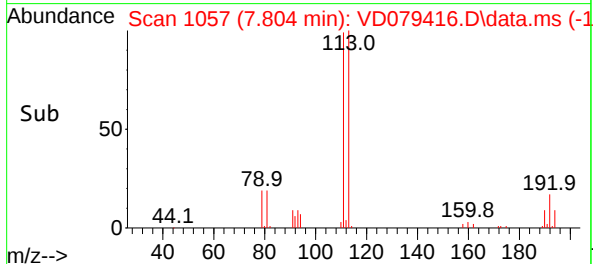
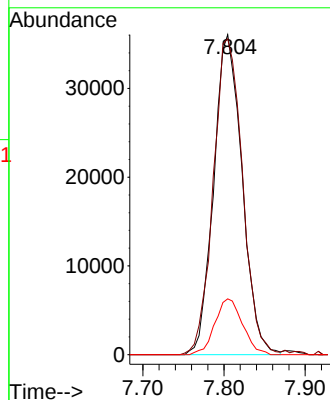
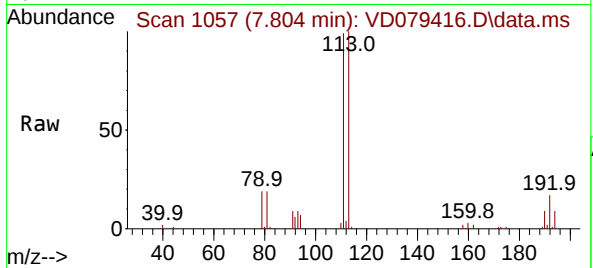




#35  
Dibromofluoromethane  
Concen: 62.153 ug/l  
RT: 7.804 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

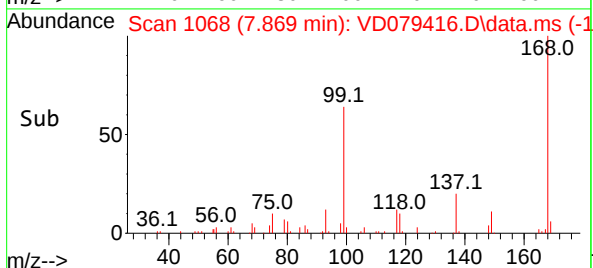
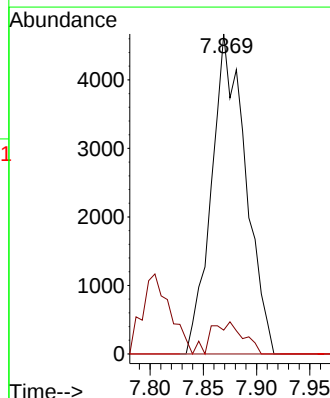
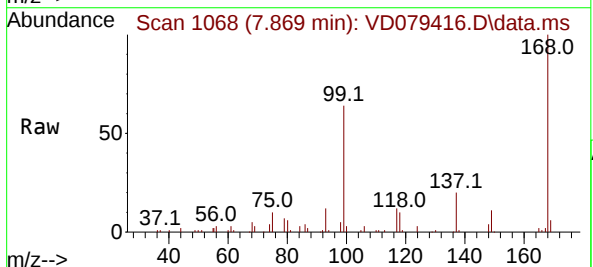
Instrument :  
MSVOA\_D  
ClientSampleId :

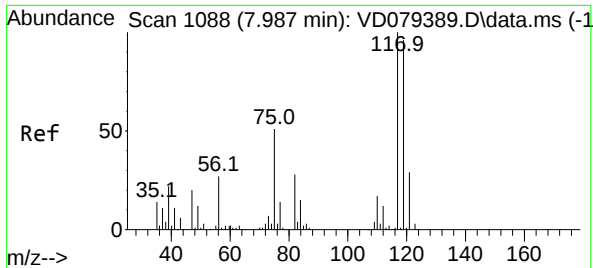
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Ion Ratio Lower Upper  
113 100  
111 101.7 84.0 126.0  
192 17.1 15.4 23.0



#36  
1,1-Dichloropropene  
Concen: 4.097 ug/l  
RT: 7.869 min Scan# 1068  
Delta R.T. -0.135 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

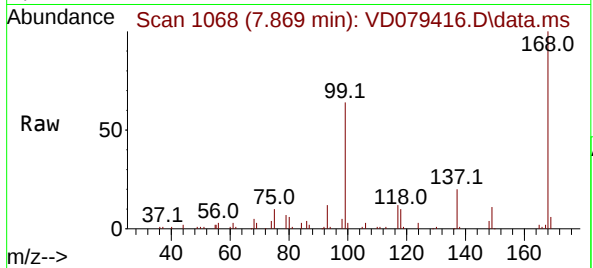
Tgt Ion: 75 Resp: 10400  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.6 58.7#  
77 0.0 26.1 39.1#



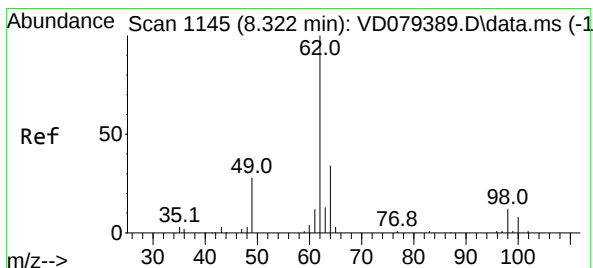
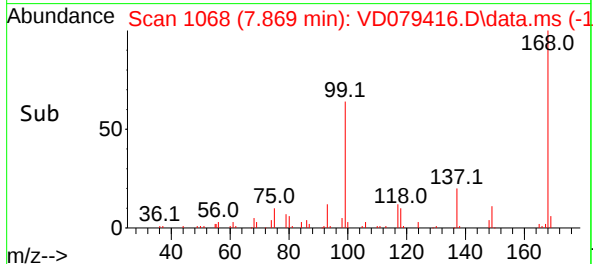
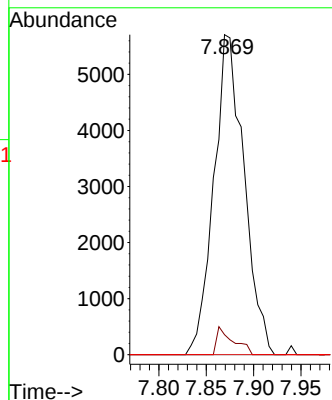


#38  
Carbon Tetrachloride  
Concen: 3.514 ug/l  
RT: 7.869 min Scan# 1106  
Delta R.T. -0.124 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Instrument :  
MSVOA\_D  
ClientSampleId :

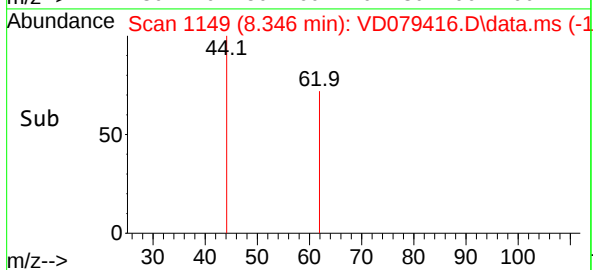
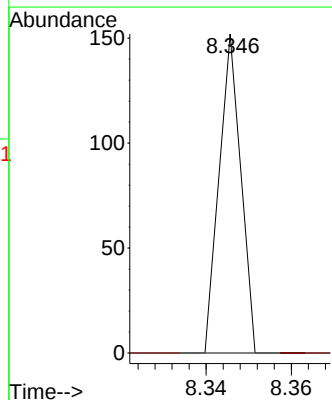
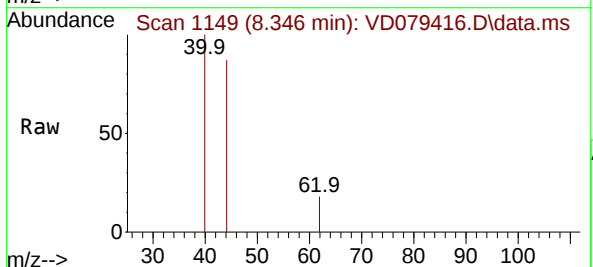


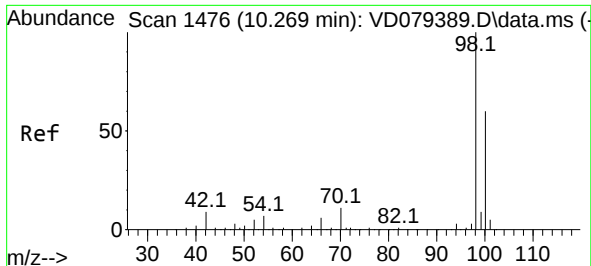
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Ion Ratio Lower Upper  
117 100  
119 6.3 75.4 113.0#  
121 0.0 25.0 37.4#



#42  
1,2-Dichloroethane  
Concen: Below Cal  
RT: 8.346 min Scan# 1149  
Delta R.T. 0.017 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Tgt Ion: 62 Resp: 54  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 25.8

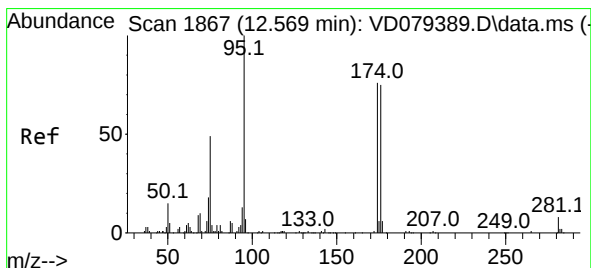
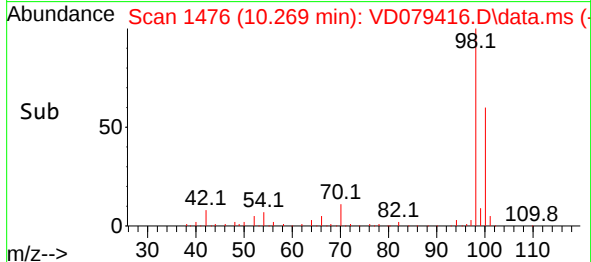
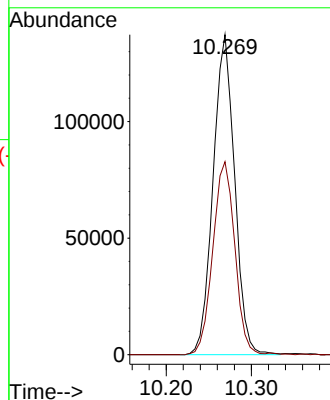
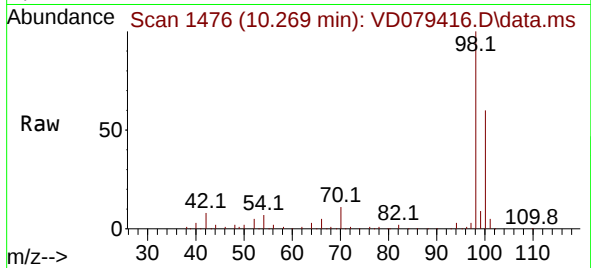




#50  
Toluene-d8  
Concen: 43.662 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

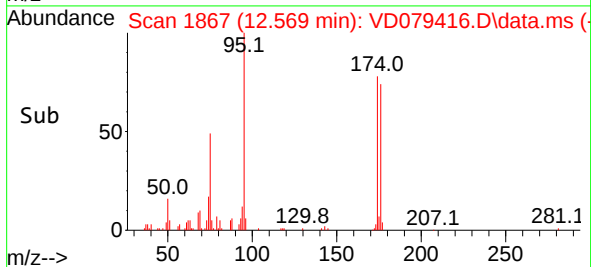
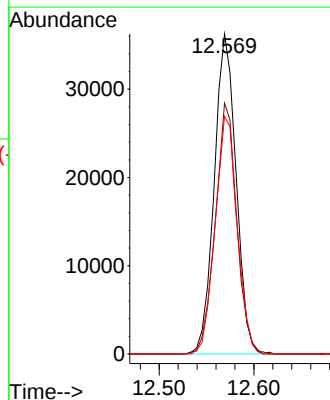
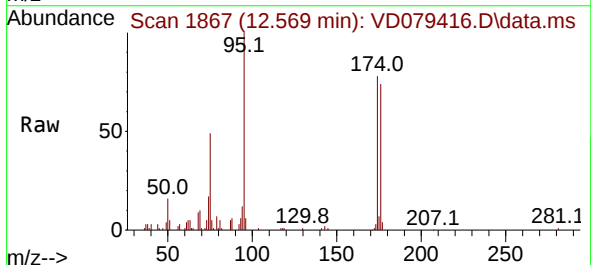
Instrument :  
MSVOA\_D  
ClientSampleId :

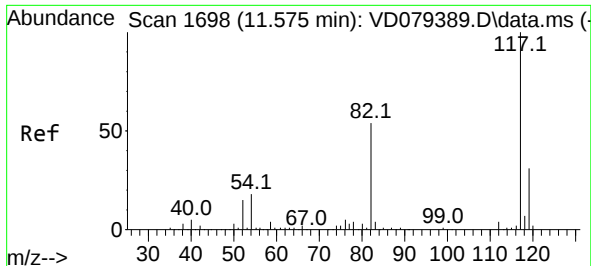
Tgt Ion: 98 Resp: 241223  
Ion Ratio Lower Upper  
98 100  
100 61.4 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 33.814 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Tgt Ion: 95 Resp: 58046  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 195.4  
176 74.9 0.0 192.6

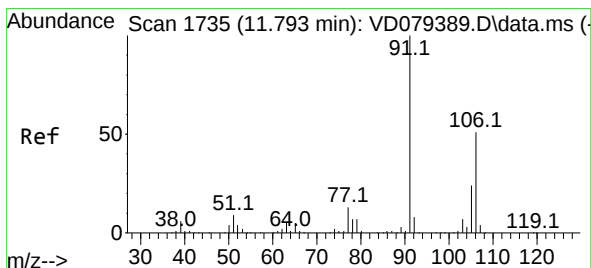
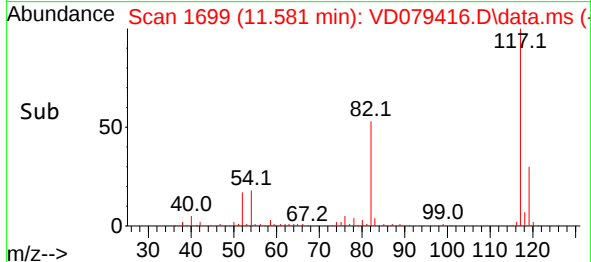
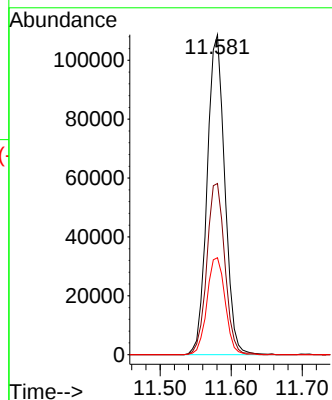
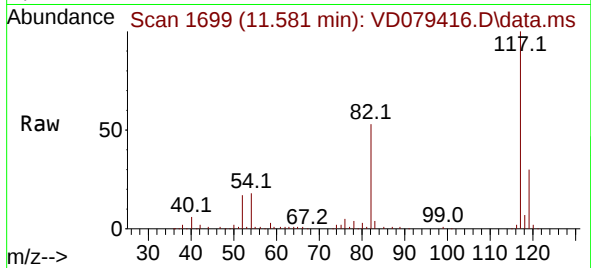




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

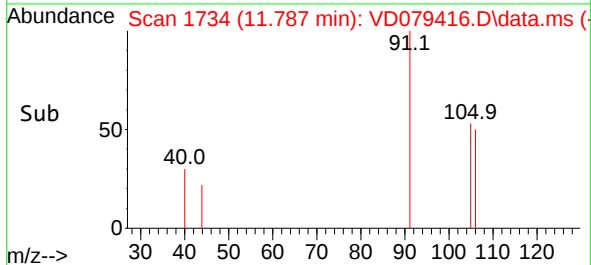
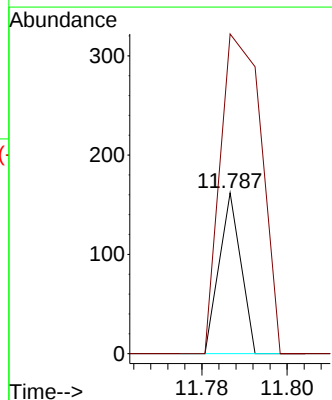
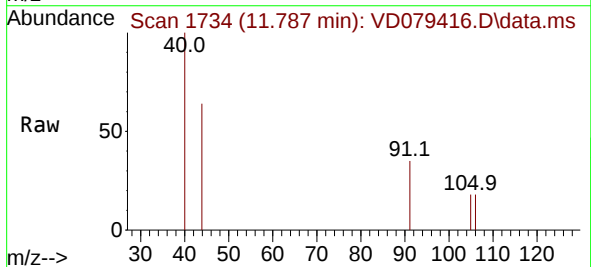
Instrument :  
MSVOA\_D  
ClientSampleId :

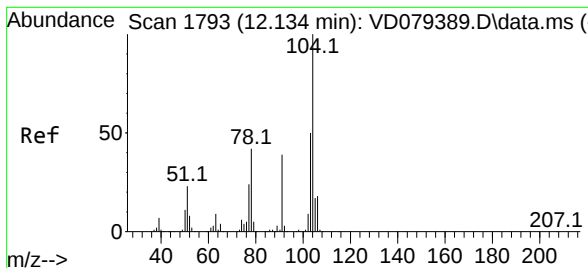
Tgt Ion:117 Resp: 187544  
Ion Ratio Lower Upper  
117 100  
82 53.5 39.8 59.6  
119 30.3 25.7 38.5



#68  
m/p-Xylenes  
Concen: 1.446 ug/l  
RT: 11.787 min Scan# 1734  
Delta R.T. -0.006 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Tgt Ion:106 Resp: 57  
Ion Ratio Lower Upper  
106 100  
91 378.9 148.5 222.7#





#70

Styrene

Concen: 1.169 ug/l

RT: 12.140 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD079416.D

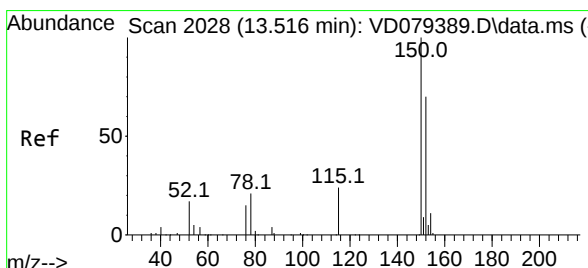
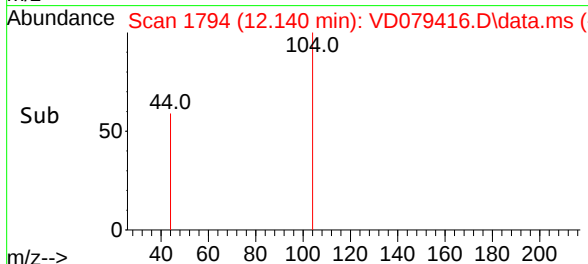
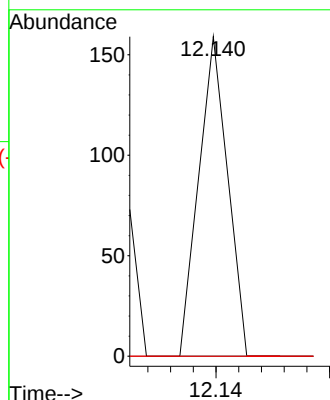
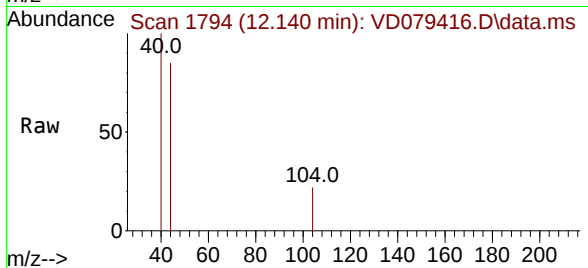
Acq: 26 Jul 2024 19:04

Instrument :

MSVOA\_D

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:104 | Resp: | 56         |
| Ion Ratio   | Lower | Upper      |
| 104         | 100   |            |
| 78          | 0.0   | 33.0 49.6# |
| 103         | 0.0   | 44.2 66.4# |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

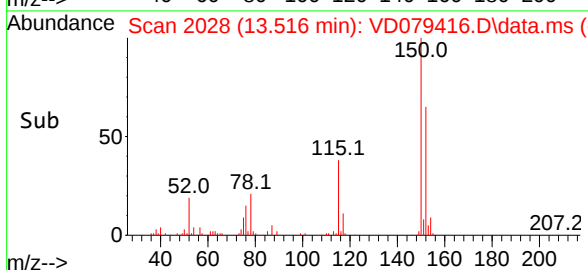
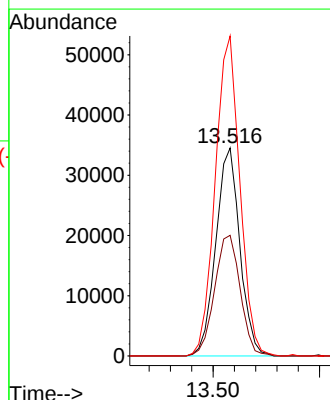
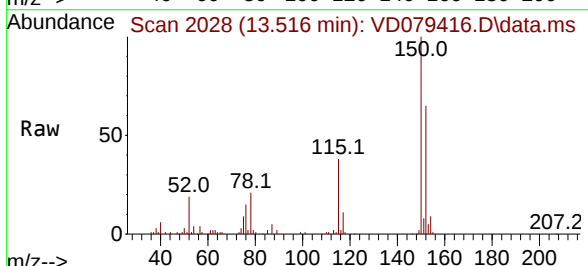
RT: 13.516 min Scan# 2028

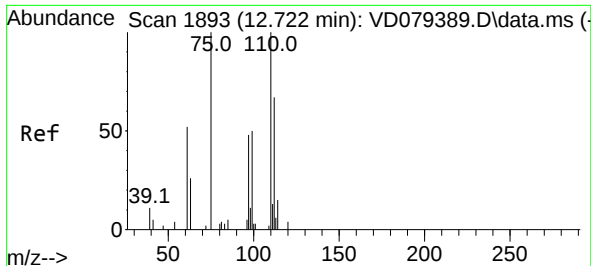
Delta R.T. -0.000 min

Lab File: VD079416.D

Acq: 26 Jul 2024 19:04

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 54083     |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 61.7  | 26.5 79.5 |
| 150         | 157.1 | 0.0 341.6 |

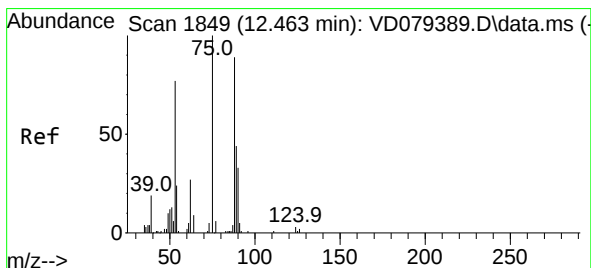
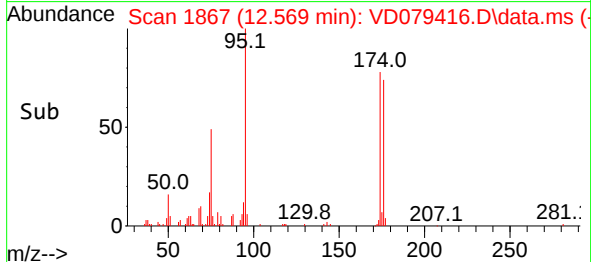
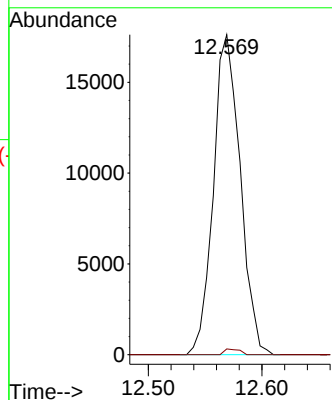
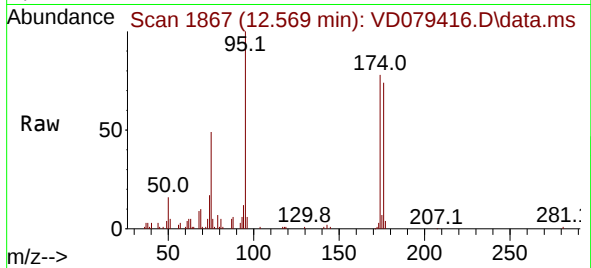




#76  
1,2,3-Trichloropropane  
Concen: 54.968 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.153 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

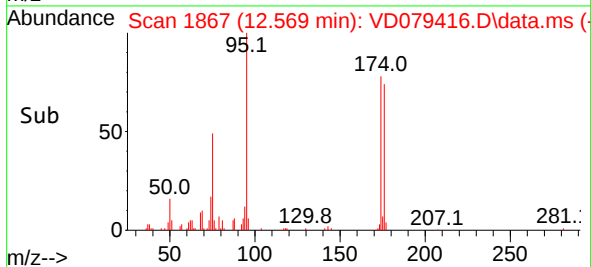
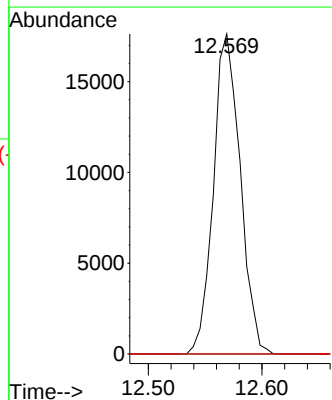
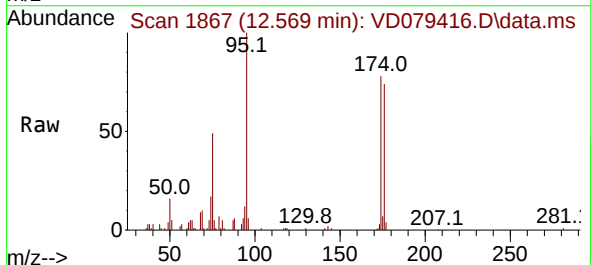
Instrument :  
MSVOA\_D  
ClientSampleId :

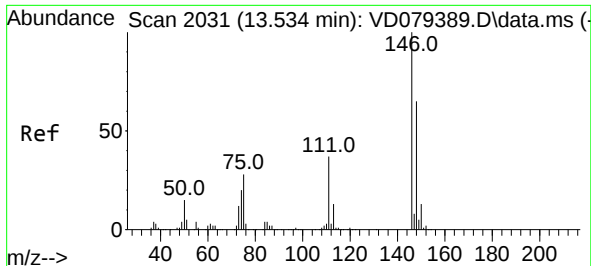
Tgt Ion: 75 Resp: 28881  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.930 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.106 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Tgt Ion: 75 Resp: 28881  
Ion Ratio Lower Upper  
75 100  
53 0.0 61.4 92.2#  
89 0.0 35.4 53.0#

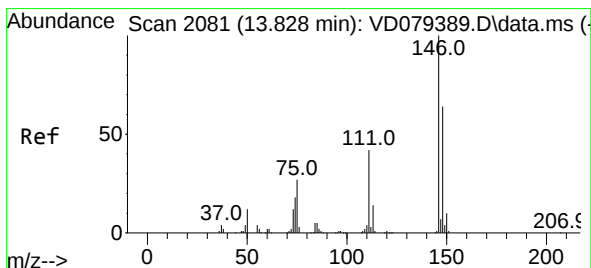
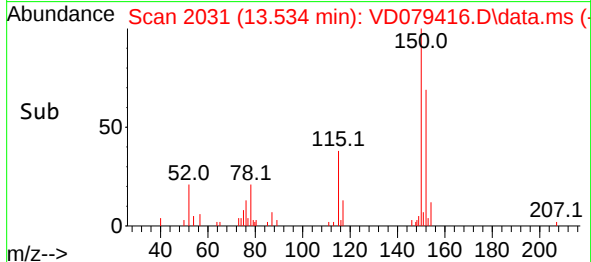
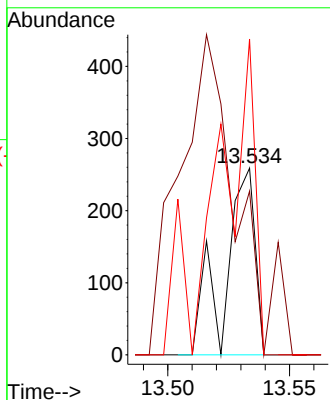
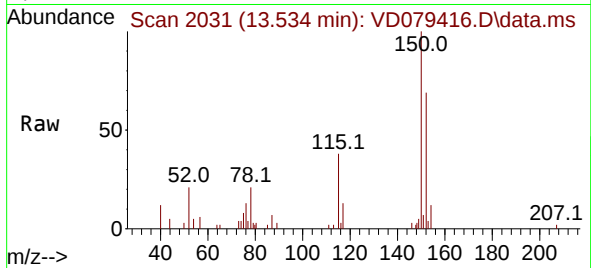




#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.534 min Scan# 2031  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

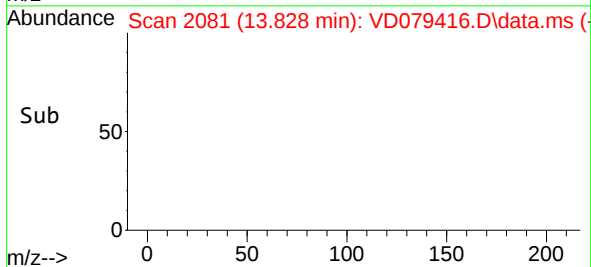
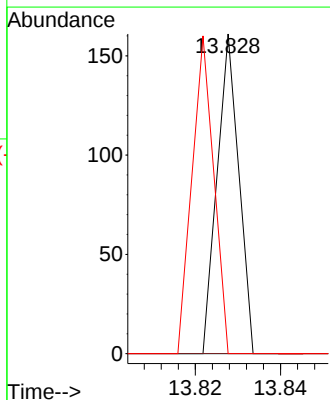
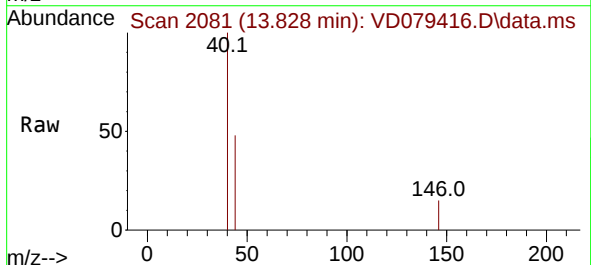
Instrument :  
MSVOA\_D  
ClientSampleId :

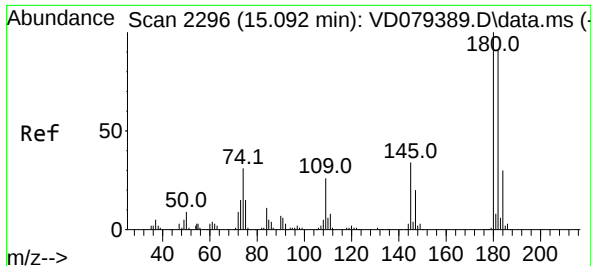
Tgt Ion:146 Resp: 223  
Ion Ratio Lower Upper  
146 100  
111 330.0 17.5 52.6#  
148 210.3 31.4 94.2#



#91  
1,2-Dichlorobenzene  
Concen: Below Cal  
RT: 13.828 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VD079416.D  
Acq: 26 Jul 2024 19:04

Tgt Ion:146 Resp: 57  
Ion Ratio Lower Upper  
146 100  
111 0.0 19.1 57.1#  
148 98.2 31.1 93.5#





#93

1,2,4-Trichlorobenzene

Concen: 1.535 ug/l

RT: 15.092 min Scan# 2296

Delta R.T. -0.000 min

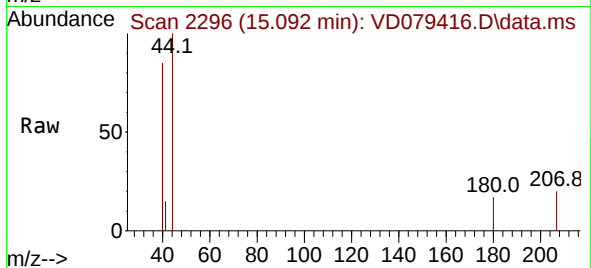
Lab File: VD079416.D

Acq: 26 Jul 2024 19:04

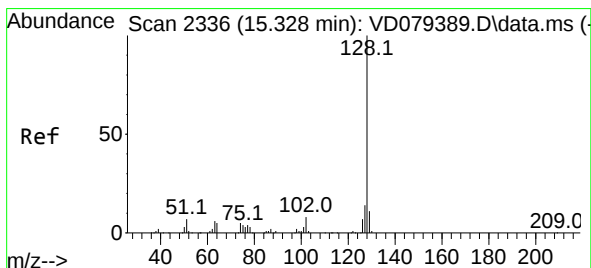
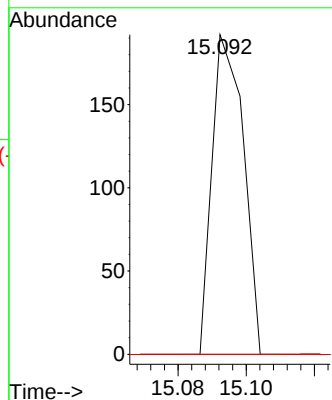
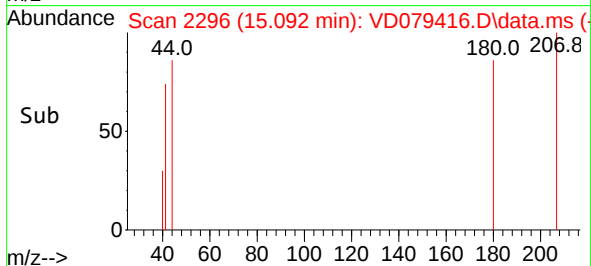
Instrument :

MSVOA\_D

ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 122         |
| Ion Ratio   | Lower | Upper       |
| 180         | 100   |             |
| 182         | 0.0   | 46.9 140.7# |
| 145         | 0.0   | 14.0 41.9#  |



#95

Naphthalene

Concen: 3.177 ug/l

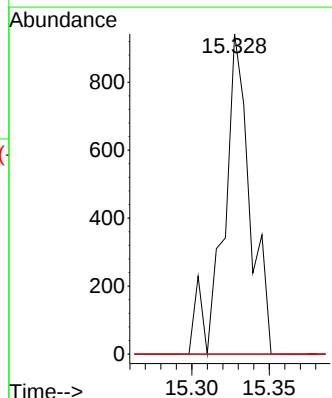
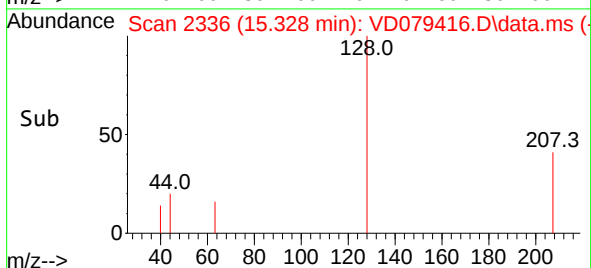
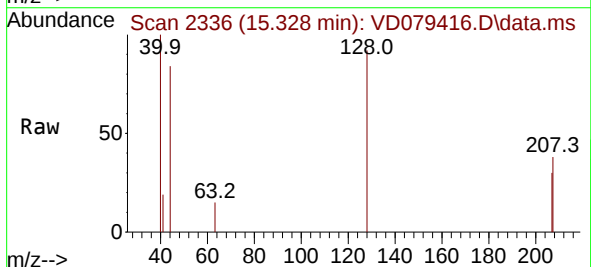
RT: 15.328 min Scan# 2336

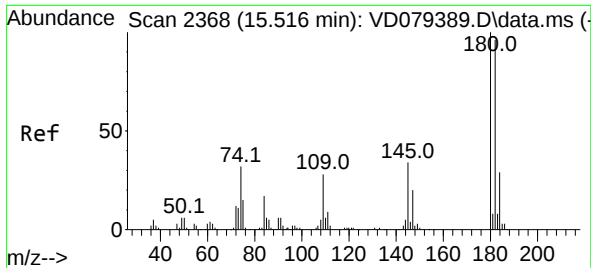
Delta R.T. -0.000 min

Lab File: VD079416.D

Acq: 26 Jul 2024 19:04

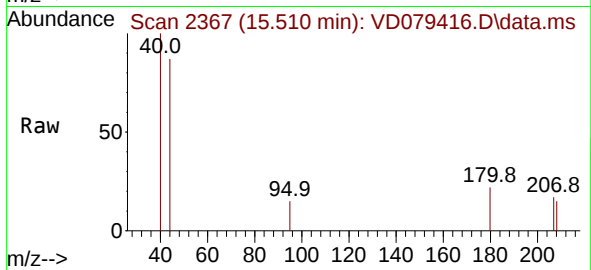
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 1111       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 0.0   | 10.2 15.4# |
| 129         | 0.0   | 8.5 12.7#  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.069 ug/l  
 RT: 15.510 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VD079416.D  
 Acq: 26 Jul 2024 19:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 47.8  | 143.3# |
| 145     | 0.0   | 16.1  | 48.2#  |

