

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060324\  
 Data File : VD079129.D  
 Acq On : 03 Jun 2024 17:41  
 Operator : RP/MD  
 Sample : P2642-29  
 Misc : 5.34G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 04 05:07:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Jun 01 00:34:30 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.775  | 114   | 302712   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 287471   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 121879   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.269  | 65    | 143585   | 15.414   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 61.640%  |
| 7) Chloroethane-d5            | 2.793  | 69    | 146268   | 16.239   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 64.960%  |
| 11) 1,1-Dichloroethene-d2     | 3.910  | 65    | 23249    | 14.059   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 56.240%  |
| 21) 2-Butanone-d5             | 6.987  | 46    | 22219    | 31.184   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 62.360%  |
| 24) Chloroform-d              | 7.563  | 84    | 136693   | 16.150   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 64.600%  |
| 26) 1,2-Dichloroethane-d4     | 8.228  | 65    | 61940    | 15.864   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 63.440%# |
| 32) Benzene-d6                | 8.198  | 84    | 267178   | 16.765   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 67.080%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 80923    | 17.628   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 70.520%  |
| 41) Toluene-d8                | 10.269 | 98    | 229196   | 15.360   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 61.440%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 31412    | 16.280   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 65.120%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 18705    | 31.519   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 63.040%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.645 | 84    | 64374    | 15.832   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 63.320%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 81061    | 19.271   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 77.080%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 2.275  | 62    | 3019     | 0.286    | ug/L # | 35       |
| 6) Bromomethane               | 2.693  | 94    | 1917     | 0.236    | ug/L   | 92       |
| 25) Chloroform                | 7.592  | 83    | 2148     | 0.259    | ug/L   | 94       |
| 35) Methylcyclohexane         | 9.275  | 83    | 1265     | 0.173    | ug/L # | 41       |
| 38) Bromodichloromethane      | 9.575  | 83    | 1085     | 0.186    | ug/L # | 70       |
| 42) Toluene                   | 10.334 | 91    | 4571     | 0.240    | ug/L   | 84       |
| 45) 1,1,2-Trichloroethane     | 10.733 | 97    | 663      | 0.180    | ug/L   | 89       |
| 46) Tetrachloroethene         | 10.810 | 164   | 766      | 0.197    | ug/L # | 77       |
| 51) Chlorobenzene             | 11.598 | 112   | 3622     | 0.286    | ug/L   | 89       |
| 52) Ethylbenzene              | 11.686 | 91    | 3972     | 0.200    | ug/L # | 73       |
| 53) m,p-Xylene                | 11.786 | 106   | 1415     | 0.182    | ug/L   | 73       |
| 54) o-Xylene                  | 12.116 | 106   | 950      | 0.126    | ug/L   | 93       |
| 55) Styrene                   | 12.128 | 104   | 1955     | 0.147    | ug/L   | 89       |
| 59) Bromoform                 | 12.298 | 173   | 573      | 0.257    | ug/L # | 36       |
| 60) Isopropylbenzene          | 12.410 | 105   | 2788     | 0.173    | ug/L   | 94       |
| 62) 1,3,5-Trimethylbenzene    | 12.898 | 105   | 2009     | 0.182    | ug/L # | 85       |
| 63) 1,2,4-Trimethylbenzene    | 12.898 | 105   | 2009     | 0.170    | ug/L   | 90       |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146   | 1328     | 0.172    | ug/L # | 66       |
| 65) 1,4-Dichlorobenzene       | 13.539 | 146   | 2629     | 0.320    | ug/L # | 77       |

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Sample : P2642-29  
Misc : 5.34G/10ml/MSVOA\_D/SOIL/A  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jun 04 05:07:12 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0  
QLast Update : Sat Jun 01 00:34:30 2024  
Response via : Initial Calibration

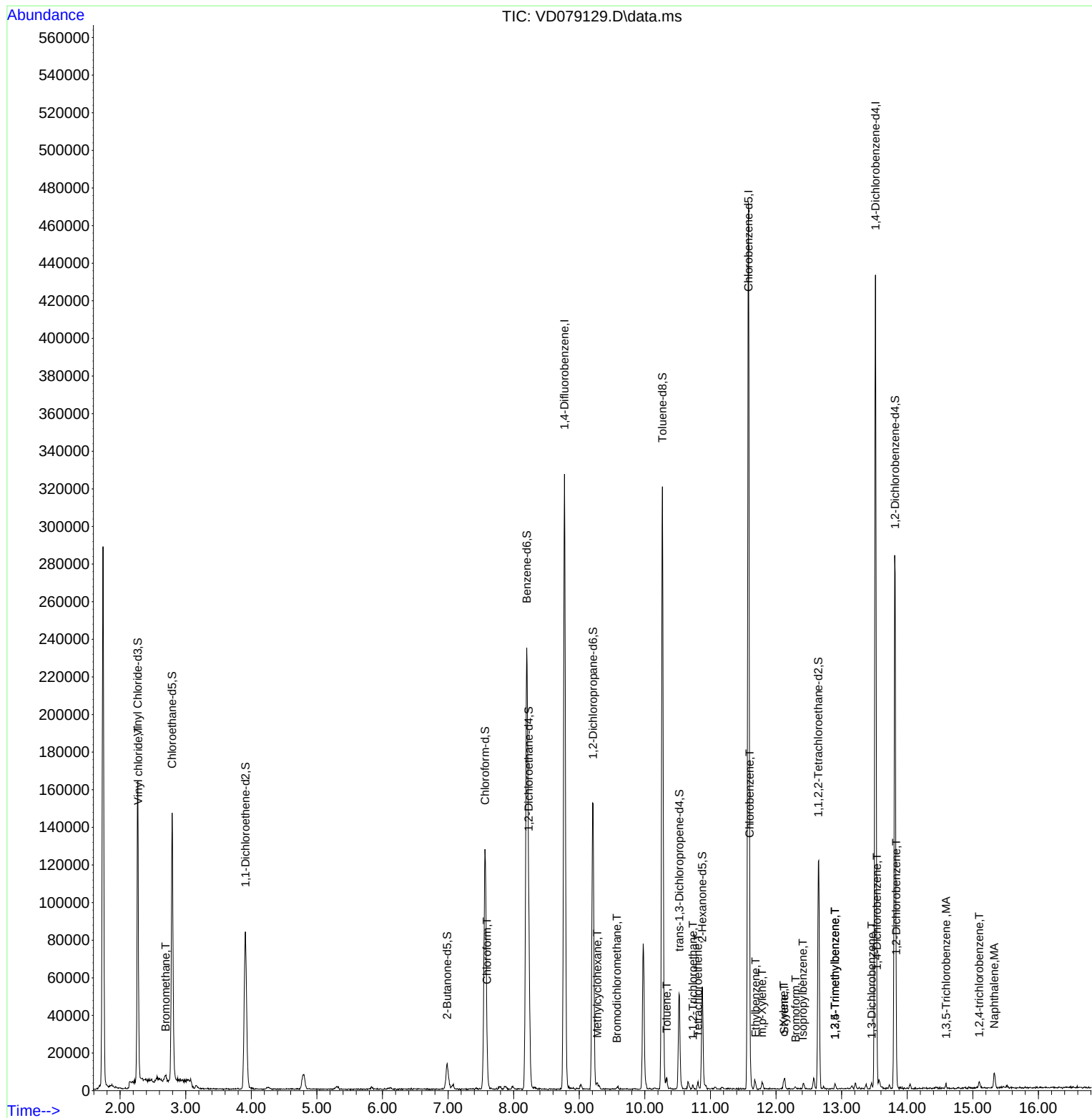
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 67) 1,2-Dichlorobenzene    | 13.833 | 146  | 3333     | 0.466 | ug/L   | 88       |
| 69) 1,3,5-Trichlorobenzene | 14.592 | 180  | 882      | 0.181 | ug/L # | 67       |
| 70) 1,2,4-trichlorobenzene | 15.098 | 180  | 1551     | 0.382 | ug/L # | 85       |
| 71) Naphthalene            | 15.327 | 128  | 8160     | 1.076 | ug/L # | 92       |

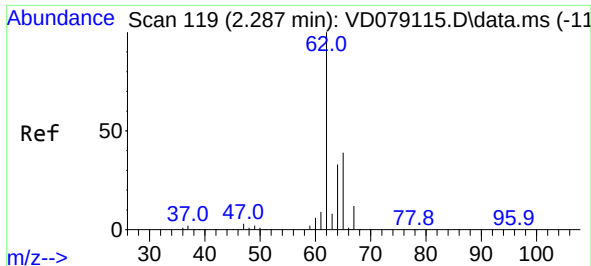
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 04 05:07:12 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0  
QLast Update : Sat Jun 01 00:34:30 2024  
Response via : Initial Calibration

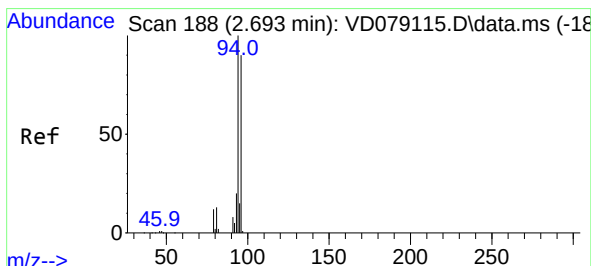
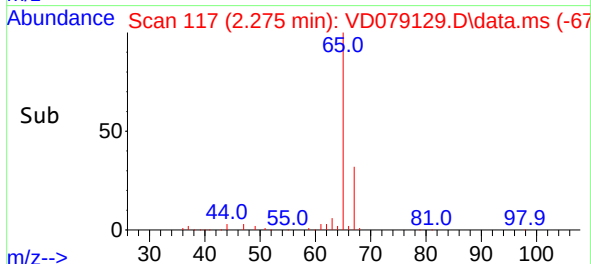
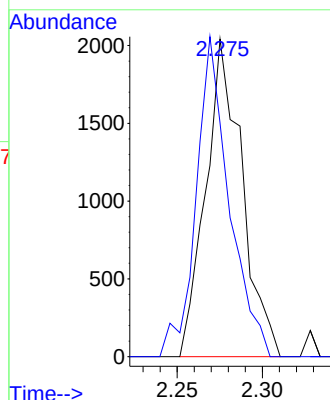
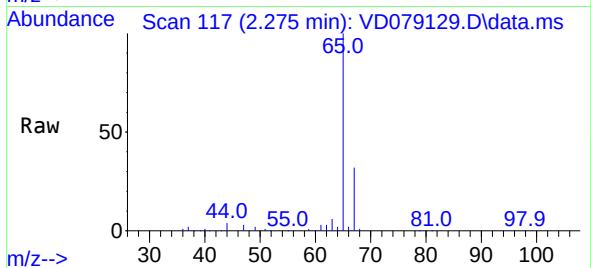




#5  
Vinyl chloride  
Concen: 0.286 ug/L  
RT: 2.275 min Scan# 119  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

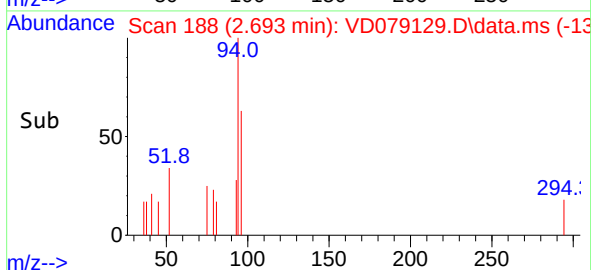
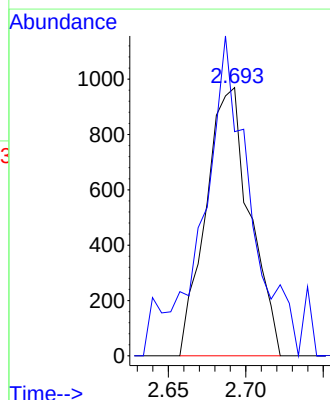
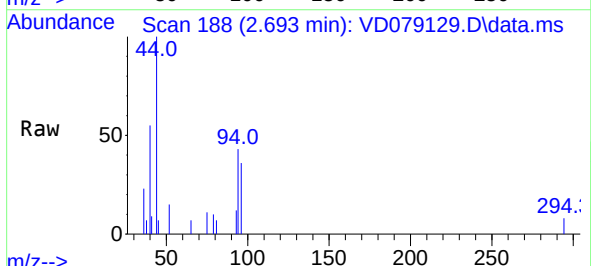
Instrument :  
MSVOA\_D  
ClientSampleId :

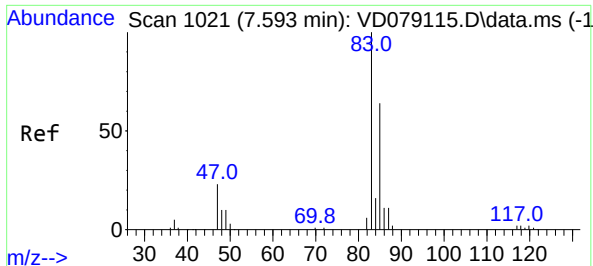
Tgt Ion: 62 Resp: 3019  
Ion Ratio Lower Upper  
62 100  
64 73.6 24.8 46.1#



#6  
Bromomethane  
Concen: 0.236 ug/L  
RT: 2.693 min Scan# 188  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Tgt Ion: 94 Resp: 1917  
Ion Ratio Lower Upper  
94 100  
96 83.6 63.6 118.2

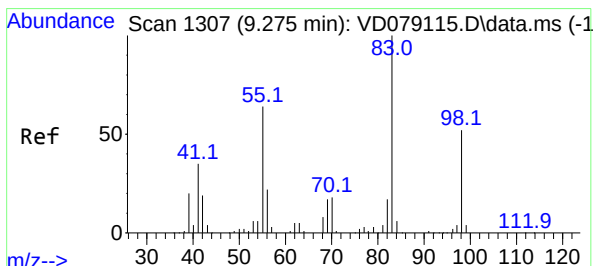
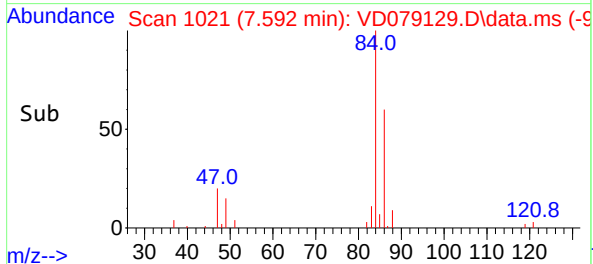
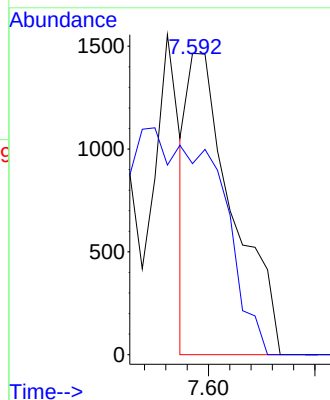
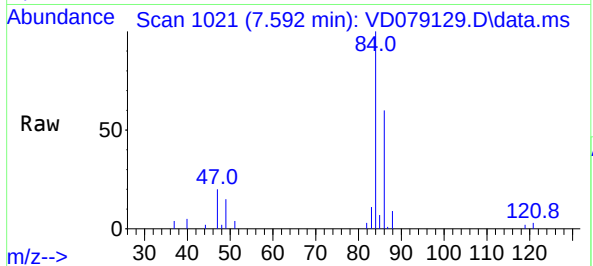




#25  
Chloroform  
Concen: 0.259 ug/L  
RT: 7.592 min Scan# 1021  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

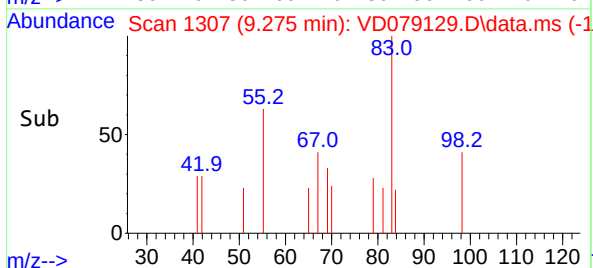
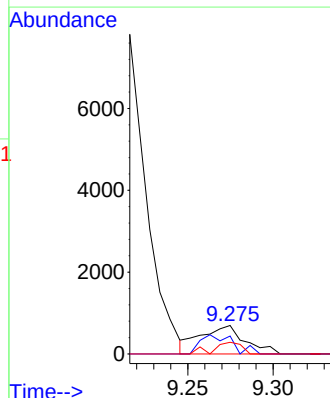
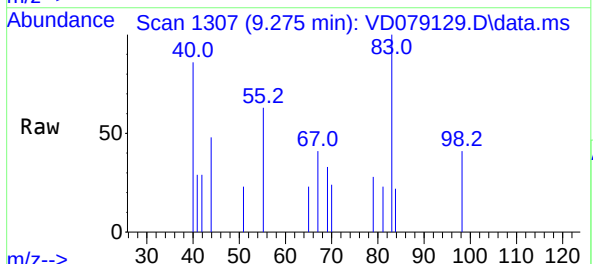
Instrument :  
MSVOA\_D  
ClientSampleId :

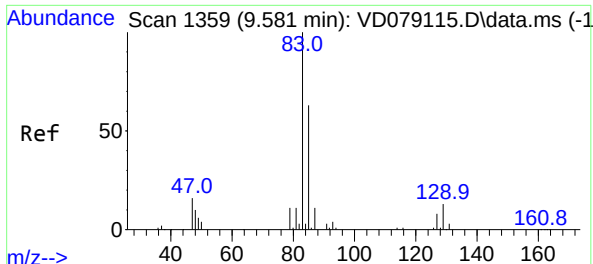
Tgt Ion: 83 Resp: 2148  
Ion Ratio Lower Upper  
83 100  
85 63.4 47.9 89.1



#35  
Methylcyclohexane  
Concen: 0.173 ug/L  
RT: 9.275 min Scan# 1307  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

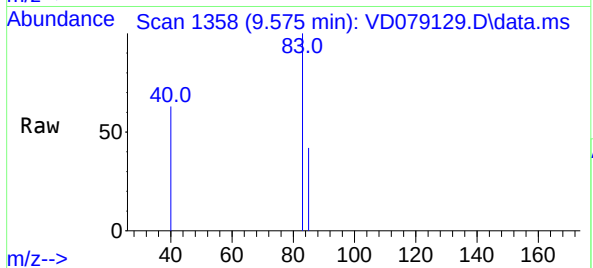
Tgt Ion: 83 Resp: 1265  
Ion Ratio Lower Upper  
83 100  
55 5.8 48.6 72.8#  
98 20.9 40.2 60.2#



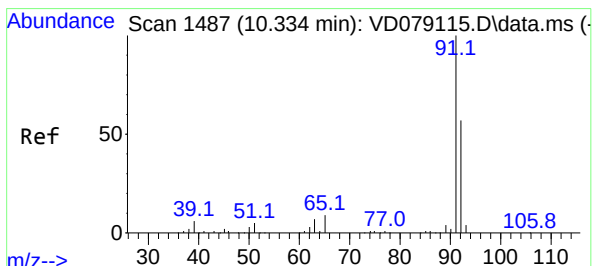
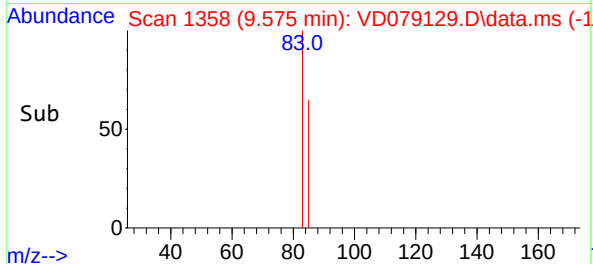
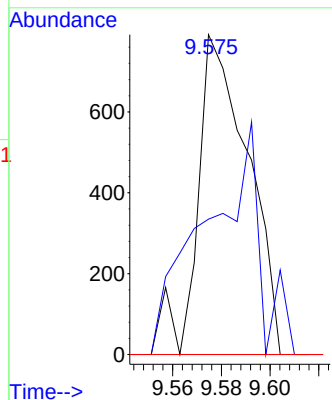


#38  
Bromodichloromethane  
Concen: 0.186 ug/L  
RT: 9.575 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :

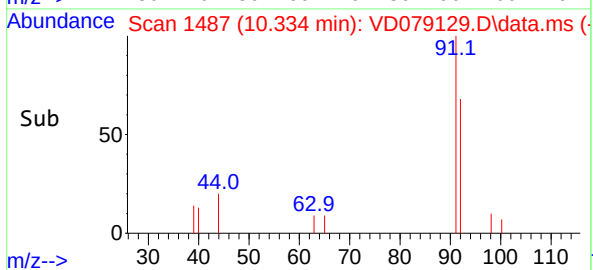
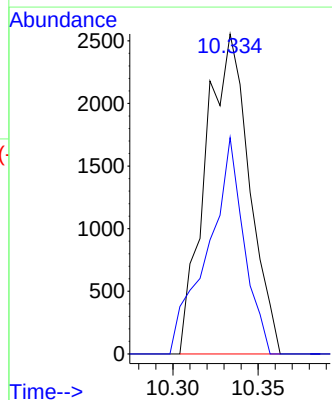
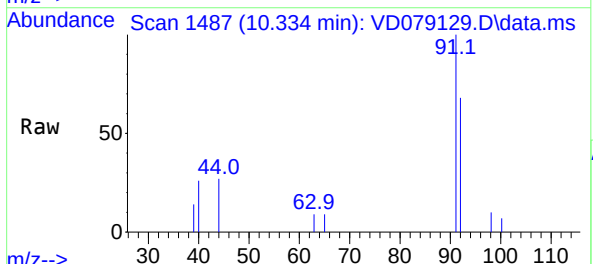


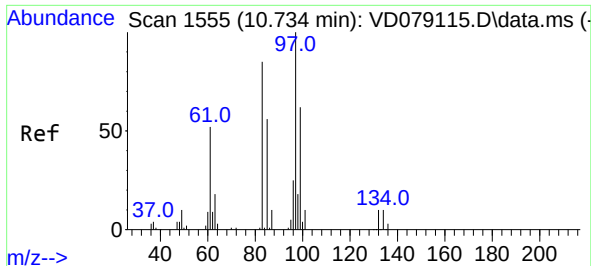
Tgt Ion: 83 Resp: 1085  
Ion Ratio Lower Upper  
83 100  
85 42.4 46.5 86.5#  
127 0.0 7.0 10.6#



#42  
Toluene  
Concen: 0.240 ug/L  
RT: 10.334 min Scan# 1487  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

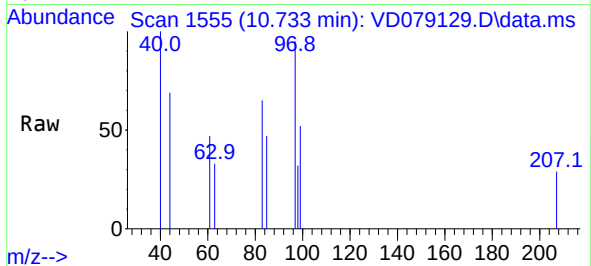
Tgt Ion: 91 Resp: 4571  
Ion Ratio Lower Upper  
91 100  
92 67.6 38.9 72.3



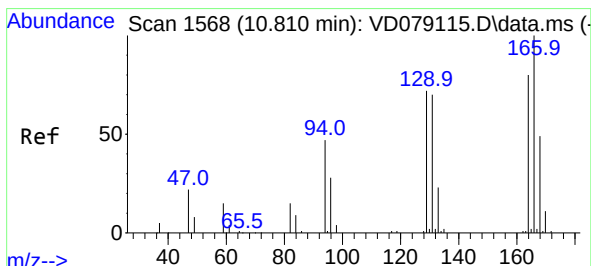
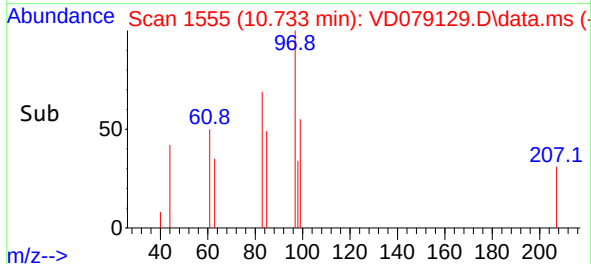
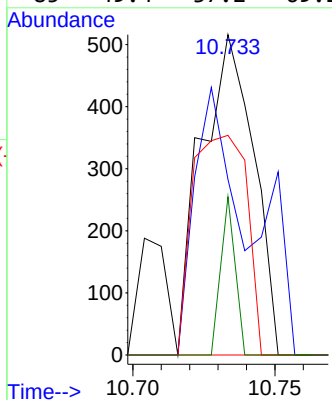


#45  
1,1,2-Trichloroethane  
Concen: 0.180 ug/L  
RT: 10.733 min Scan# 1555  
Delta R.T. 0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

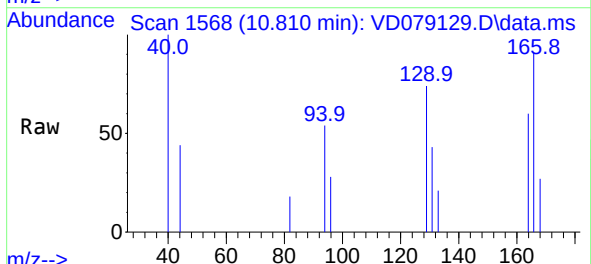
Instrument :  
MSVOA\_D  
ClientSampleId :



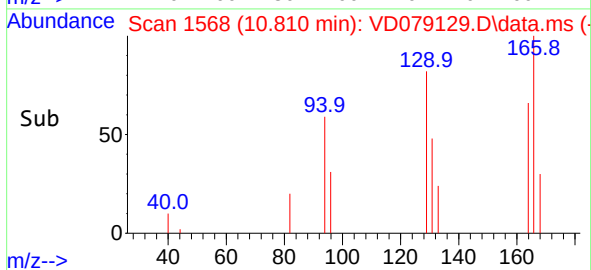
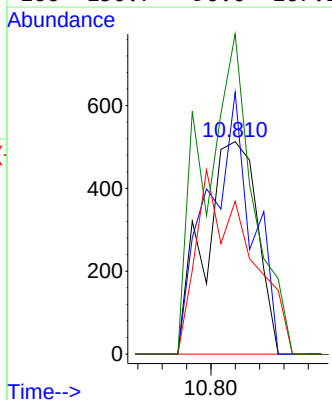
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 663   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 54.8     | 43.0 79.8   |
| 83 68.6     | 58.9 109.5  |
| 85 49.4     | 37.2 69.2   |

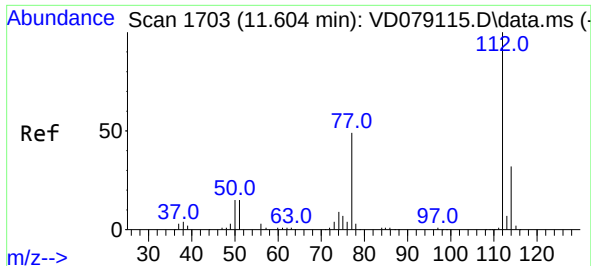


#46  
Tetrachloroethene  
Concen: 0.197 ug/L  
RT: 10.810 min Scan# 1568  
Delta R.T. 0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41



|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 766    |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 129 | 123.2   | 64.3  | 119.5# |
| 131 | 71.9    | 61.2  | 113.8  |
| 166 | 150.7   | 90.0  | 167.2  |

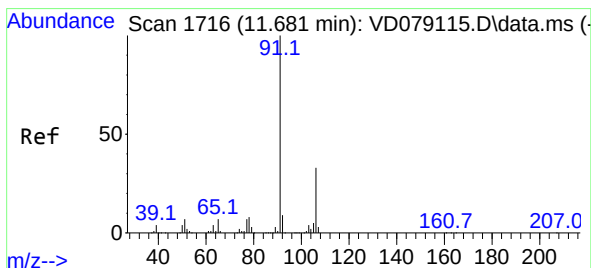
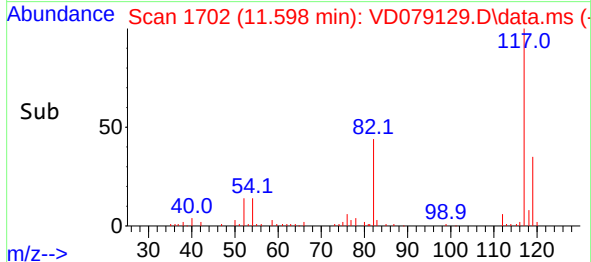
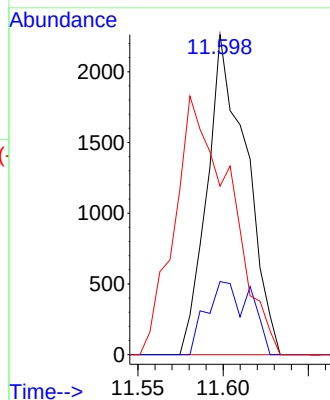
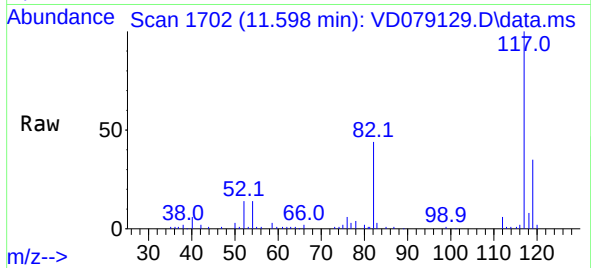




#51  
Chlorobenzene  
Concen: 0.286 ug/L  
RT: 11.598 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

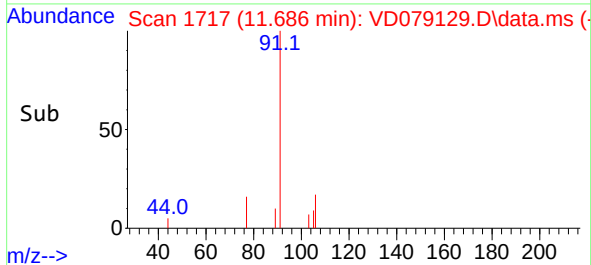
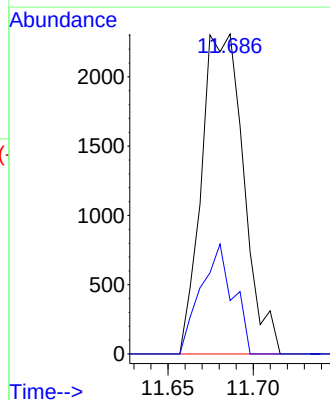
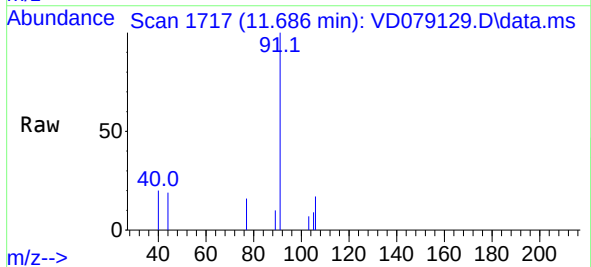
Instrument :  
MSVOA\_D  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 3622  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 22.9  | 22.7  | 42.3  |
| 77       | 52.7  | 38.4  | 57.6  |

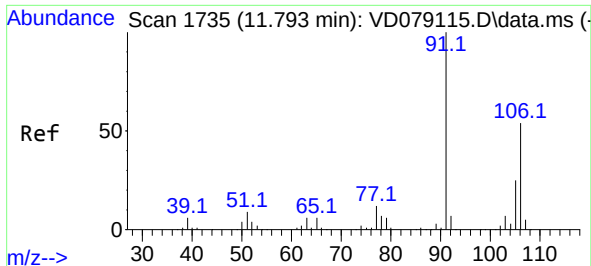


#52  
Ethylbenzene  
Concen: 0.200 ug/L  
RT: 11.686 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 3972  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 16.7  | 22.3  | 41.5# |



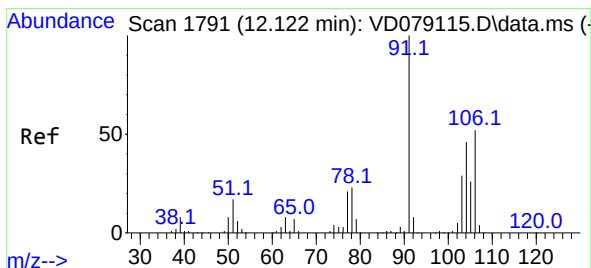
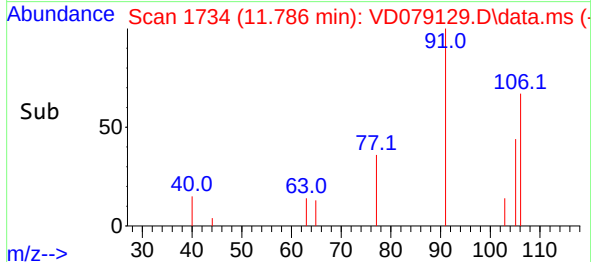
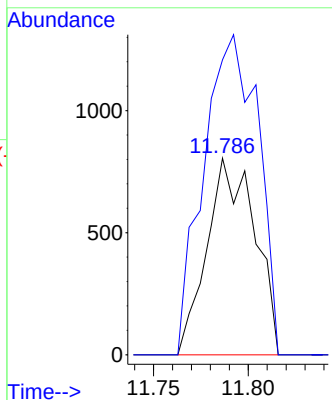
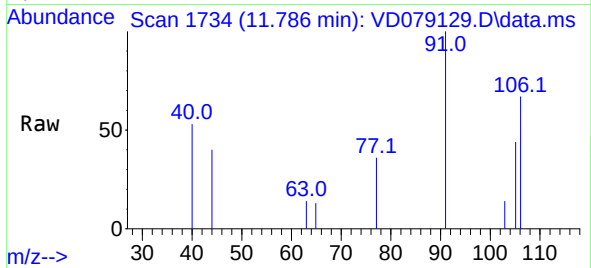




#53  
m,p-Xylene  
Concen: 0.182 ug/L  
RT: 11.786 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

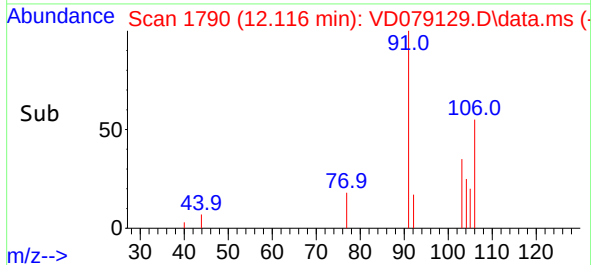
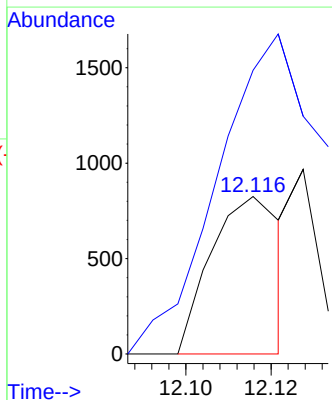
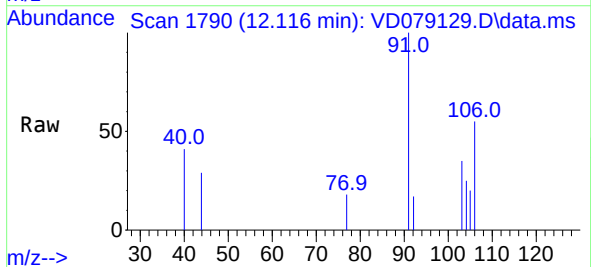
Instrument :  
MSVOA\_D  
ClientSampleId :

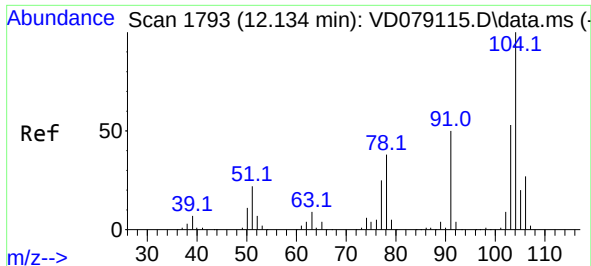
Tgt Ion:106 Resp: 1415  
Ion Ratio Lower Upper  
106 100  
91 150.1 133.1 247.1



#54  
o-Xylene  
Concen: 0.126 ug/L  
RT: 12.116 min Scan# 1790  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Tgt Ion:106 Resp: 950  
Ion Ratio Lower Upper  
106 100  
91 180.2 132.9 246.9

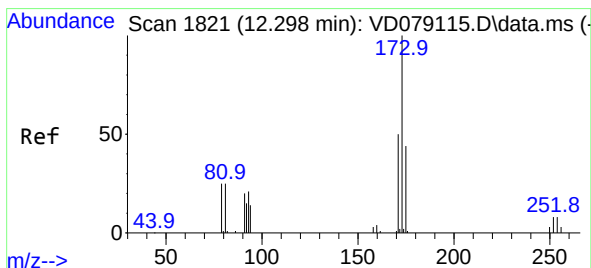
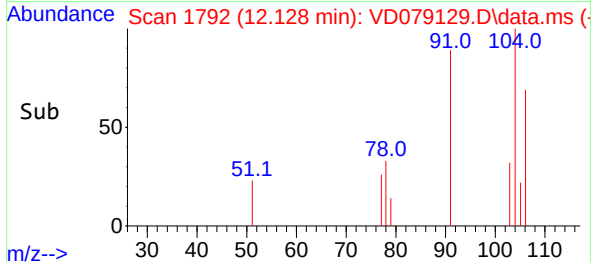
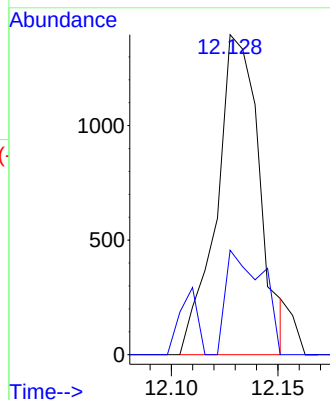
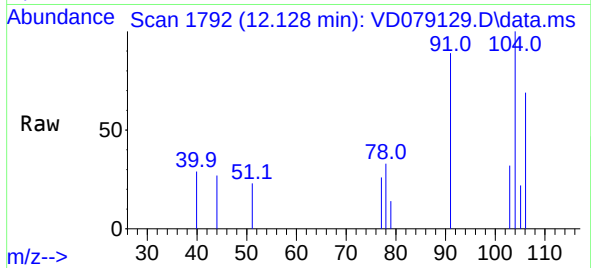




#55  
Styrene  
Concen: 0.147 ug/L  
RT: 12.128 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

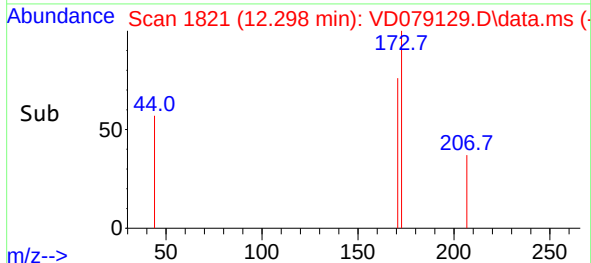
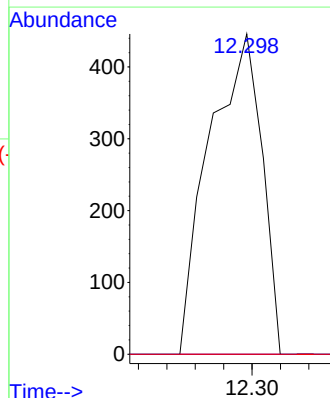
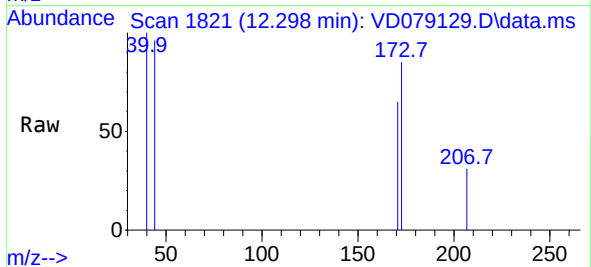
Instrument :  
MSVOA\_D  
ClientSampleId :

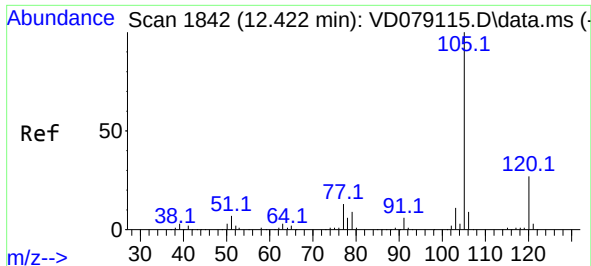
Tgt Ion:104 Resp: 1955  
Ion Ratio Lower Upper  
104 100  
78 32.6 27.8 51.6



#59  
Bromoform  
Concen: 0.257 ug/L  
RT: 12.298 min Scan# 1821  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Tgt Ion:173 Resp: 573  
Ion Ratio Lower Upper  
173 100  
175 0.0 38.2 57.4#  
254 0.0 7.0 10.6#

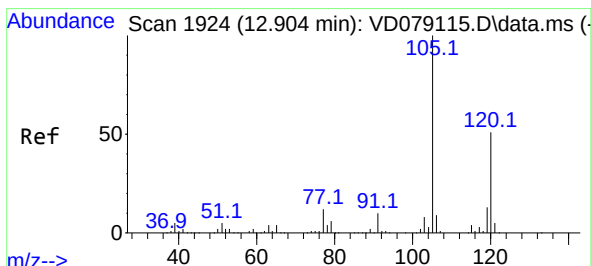
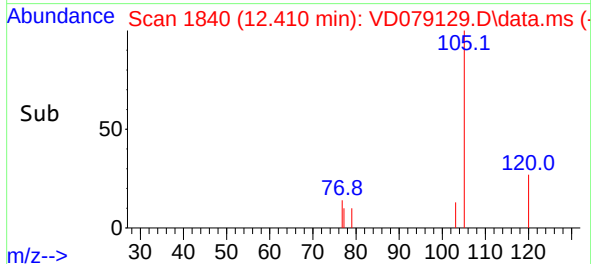
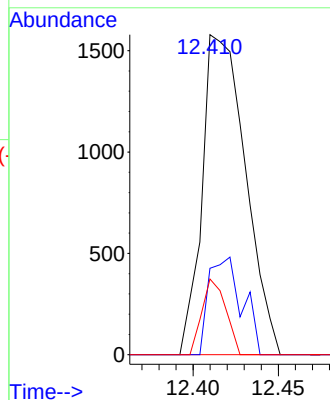
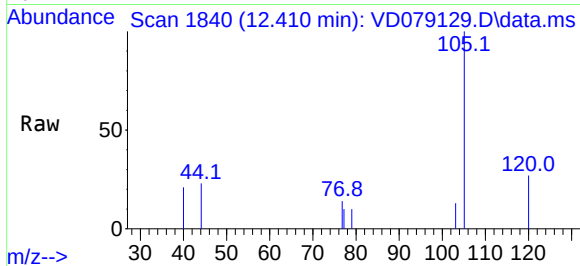




#60  
Isopropylbenzene  
Concen: 0.173 ug/L  
RT: 12.410 min Scan# 1842  
Delta R.T. -0.012 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

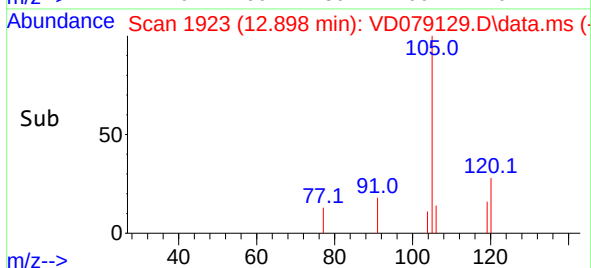
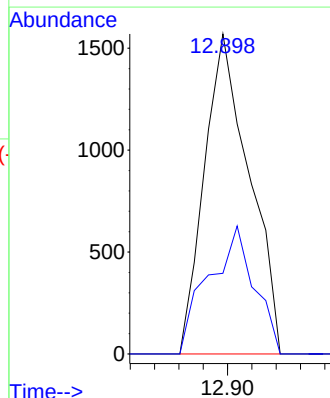
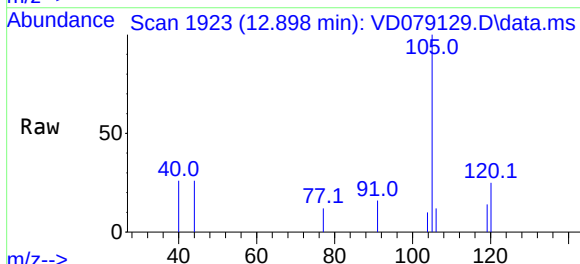
Instrument :  
MSVOA\_D  
ClientSampleId :

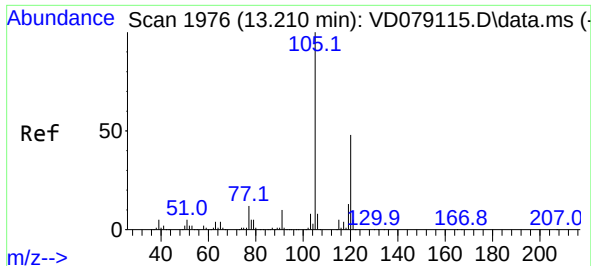
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:105 | Resp: | 2788  |       |
| Ion         | Ratio | Lower | Upper |
| 105         | 100   |       |       |
| 120         | 23.4  | 21.9  | 32.9  |
| 77          | 13.0  | 10.9  | 16.3  |



#62  
1,3,5-Trimethylbenzene  
Concen: 0.182 ug/L  
RT: 12.898 min Scan# 1923  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

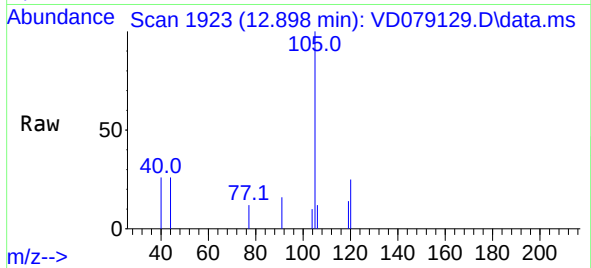
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:105 | Resp: | 2009  |       |
| Ion         | Ratio | Lower | Upper |
| 105         | 100   |       |       |
| 120         | 40.7  | 40.7  | 61.1# |



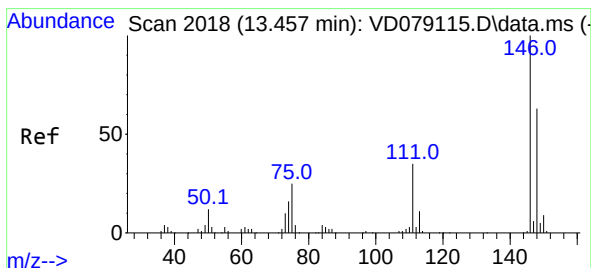
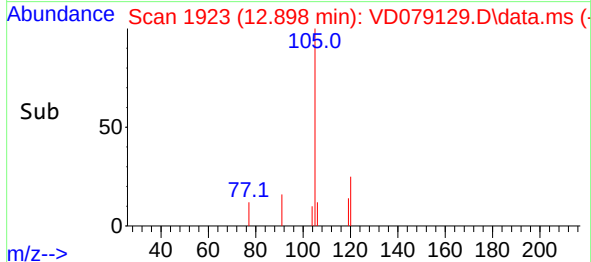
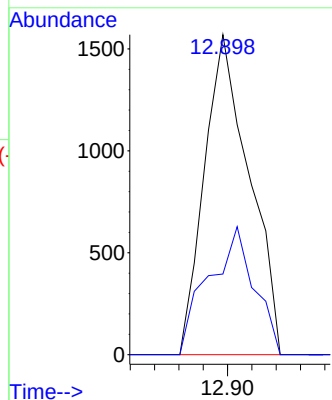


#63  
1,2,4-Trimethylbenzene  
Concen: 0.170 ug/L  
RT: 12.898 min Scan# 1976  
Delta R.T. -0.312 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :

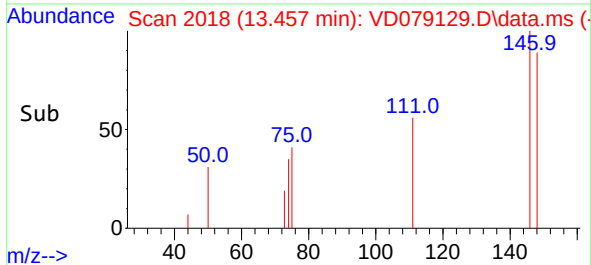
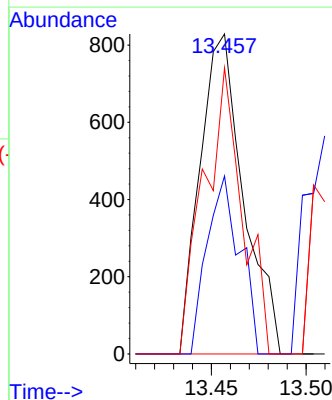
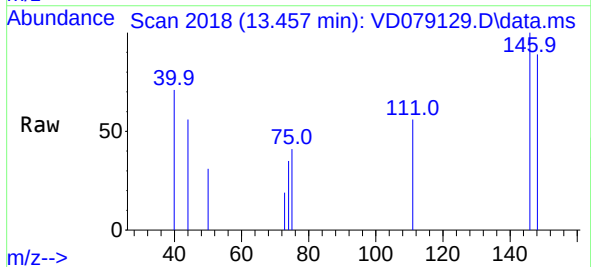


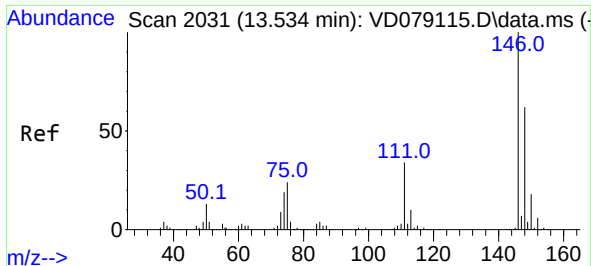
Tgt Ion:105 Resp: 2009  
Ion Ratio Lower Upper  
105 100  
120 40.7 38.0 57.0



#64  
1,3-Dichlorobenzene  
Concen: 0.172 ug/L  
RT: 13.457 min Scan# 2018  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Tgt Ion:146 Resp: 1328  
Ion Ratio Lower Upper  
146 100  
111 55.6 24.4 45.4#  
148 89.4 44.9 83.3#

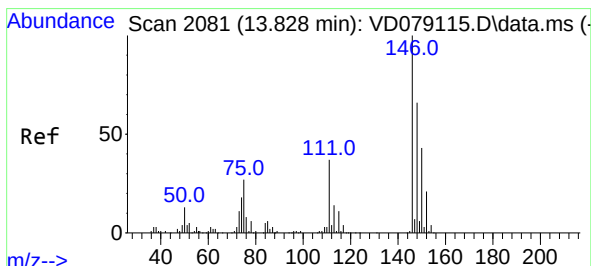
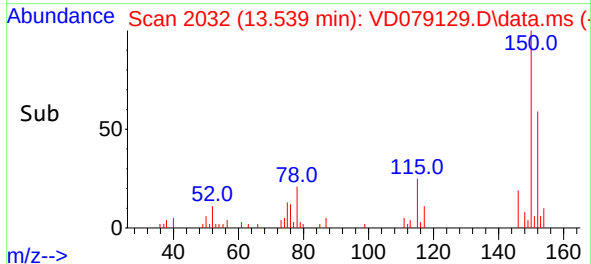
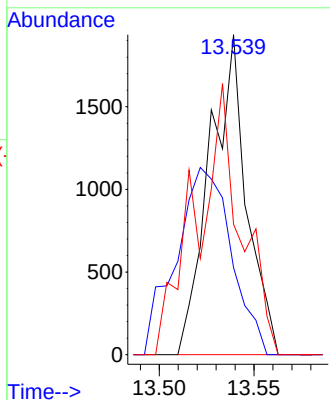
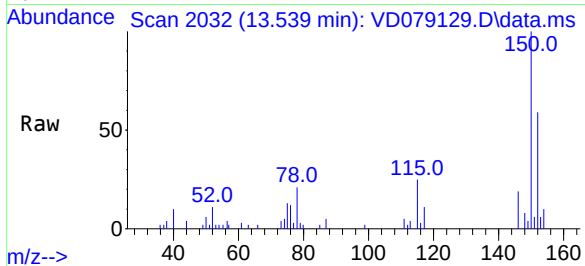




#65  
1,4-Dichlorobenzene  
Concen: 0.320 ug/L  
RT: 13.539 min Scan# 2032  
Delta R.T. 0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

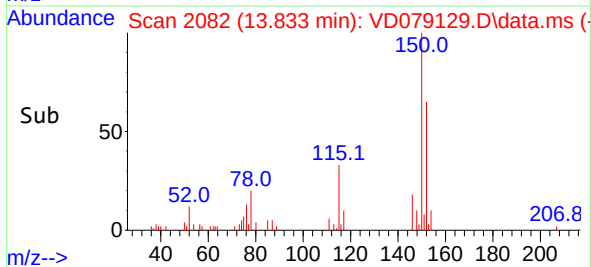
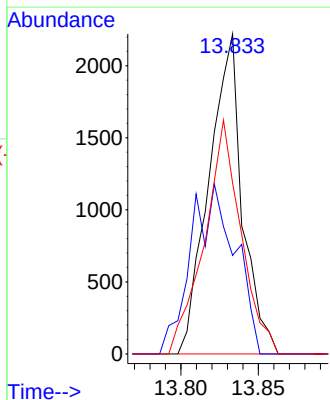
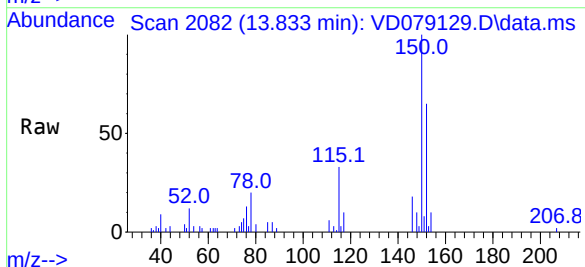
Instrument :  
MSVOA\_D  
ClientSampleId :

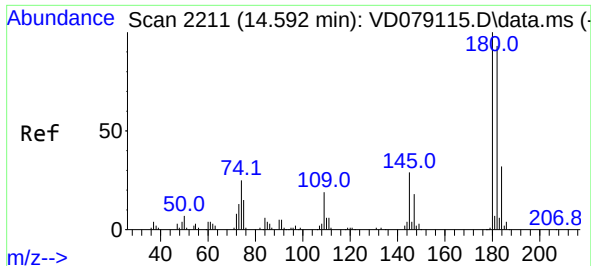
Tgt Ion:146 Resp: 2629  
Ion Ratio Lower Upper  
146 100  
111 27.2 26.3 48.9  
148 40.8 43.1 80.1#



#67  
1,2-Dichlorobenzene  
Concen: 0.466 ug/L  
RT: 13.833 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

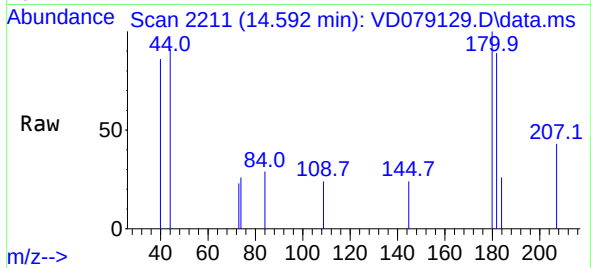
Tgt Ion:146 Resp: 3333  
Ion Ratio Lower Upper  
146 100  
111 30.8 29.1 43.7  
148 53.4 51.2 76.8



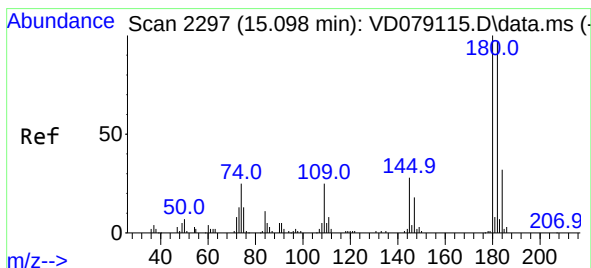
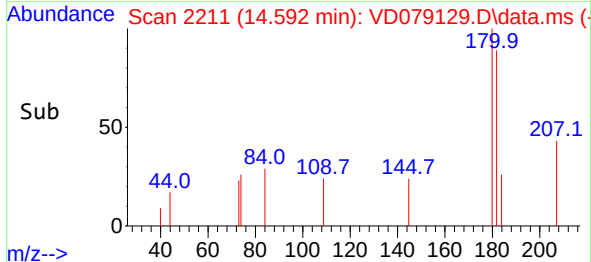
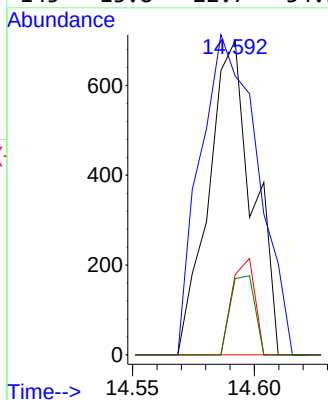


#69  
1,3,5-Trichlorobenzene  
Concen: 0.181 ug/L  
RT: 14.592 min Scan# 2211  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :

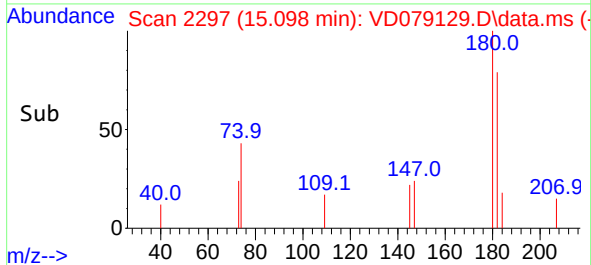
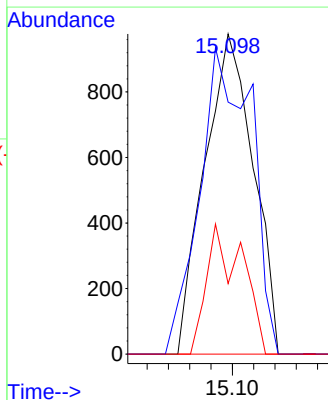
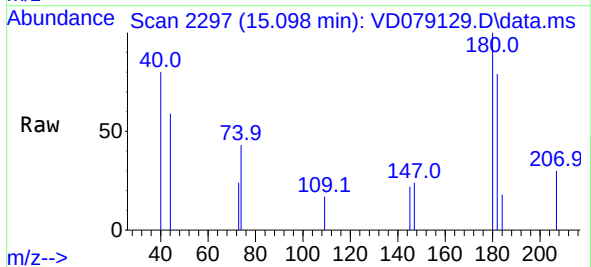


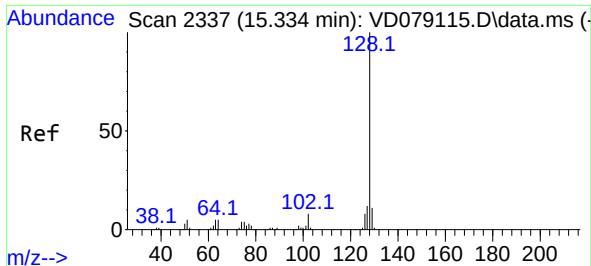
Tgt Ion:180 Resp: 882  
Ion Ratio Lower Upper  
180 100  
182 132.2 76.9 115.3#  
184 15.8 23.3 34.9#  
145 13.8 22.7 34.1#



#70  
1,2,4-trichlorobenzene  
Concen: 0.382 ug/L  
RT: 15.098 min Scan# 2297  
Delta R.T. -0.000 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

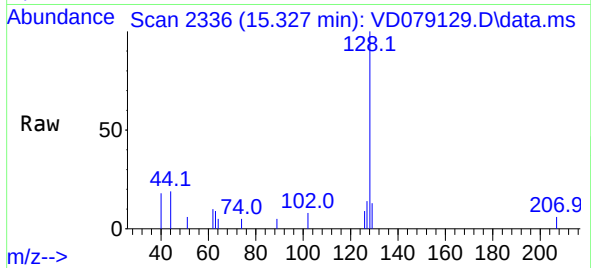
Tgt Ion:180 Resp: 1551  
Ion Ratio Lower Upper  
180 100  
182 78.7 73.8 110.6  
145 17.6 22.3 33.5#





#71  
Naphthalene  
Concen: 1.076 ug/L  
RT: 15.327 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VD079129.D  
Acq: 03 Jun 2024 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion:128 Resp: 8160  
Ion Ratio Lower Upper  
128 100  
127 8.1 10.8 16.2#  
129 10.3 8.5 12.7

