

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW102921\  
 Data File : VW023104.D  
 Acq On : 29 Oct 2021 14:47  
 Operator : SY/MD  
 Sample : MDL05  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Manual Integrations  
 APPROVED

SAM

11/1/2021 6:39:59 PM

Quant Time: Oct 30 00:52:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM102821WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 30 00:25:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.616   | 114   | 249454   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.853   | 117   | 245307   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249  | 152   | 122139   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 75045    | 43.652   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 87.300%  |
| 7) Chloroethane-d5            | 1.564   | 69    | 61549    | 45.901   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.105   | 63    | 110509   | 33.934   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 67.860%  |
| 21) 2-Butanone-d5             | 3.876   | 46    | 141706   | 110.019  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 110.020% |
| 24) Chloroform-d              | 4.349   | 84    | 168299   | 46.561   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.120%  |
| 26) 1,2-Dichloroethane-d4     | 5.030   | 65    | 110106   | 51.465   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.920% |
| 32) Benzene-d6                | 5.050   | 84    | 327189   | 48.690   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.380%  |
| 36) 1,2-Dichloropropane-d6    | 6.069   | 67    | 107355   | 50.186   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 100.380% |
| 41) Toluene-d8                | 7.317   | 98    | 296127   | 48.301   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.600%  |
| 43) trans-1,3-Dichloroprop... | 7.622   | 79    | 49442    | 48.222   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.440%  |
| 47) 2-Hexanone-d5             | 8.088   | 63    | 99559    | 107.154  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 107.150% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 155571   | 49.758   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 99.520%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 122617   | 52.045   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.080% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 5533     | 2.333    | ug/L   | 98       |
| 3) Chloromethane              | 1.240   | 50    | 4989     | 2.231    | ug/L   | 90       |
| 5) Vinyl chloride             | 1.307   | 62    | 5246     | 2.347    | ug/L # | 73       |
| 6) Bromomethane               | 1.519   | 94    | 3023     | 2.408    | ug/L   | 94       |
| 8) Chloroethane               | 1.584   | 64    | 2864     | 2.105    | ug/L   | 91       |
| 9) Trichlorofluoromethane     | 1.751   | 101   | 7460     | 2.199    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 4892     | 2.717    | ug/L   | 88       |
| 12) 1,1-Dichloroethene        | 2.117   | 96    | 4665     | 2.792    | ug/L # | 1        |
| 13) Acetone                   | 2.169   | 43    | 6365     | 4.986    | ug/L # | 73       |
| 14) Carbon disulfide          | 2.294   | 76    | 11552    | 2.312    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.436   | 43    | 5229     | 2.468    | ug/L   | 96       |
| 16) Methylene chloride        | 2.506   | 84    | 5671     | 2.649    | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 2.760   | 96    | 4679     | 2.454    | ug/L   | 93       |
| 18) Methyl tert-butyl Ether   | 2.770   | 73    | 12893    | 2.251    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.191   | 63    | 8088     | 2.276    | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 3.912   | 96    | 4774     | 2.342    | ug/L   | 91       |
| 22) 2-Butanone                | 3.985   | 43    | 7513m    | 5.163    | ug/L   |          |
| 23) Bromochloromethane        | 4.262   | 128   | 2822m    | 2.457    | ug/L   |          |
| 25) Chloroform                | 4.375   | 83    | 9697     | 2.654    | ug/L   | 91       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW102921\  
 Data File : VW023104.D  
 Acq On : 29 Oct 2021 14:47  
 Operator : SY/MD  
 Sample : MDL05  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Manual Integrations  
 APPROVED

SAM

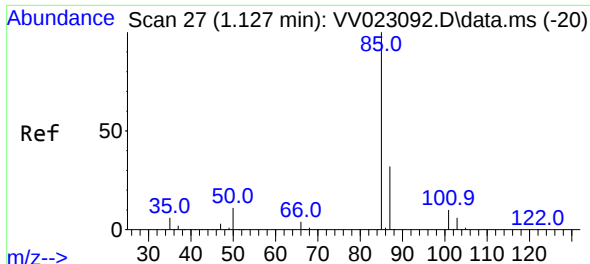
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Quant Time: Oct 30 00:52:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM102821WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 30 00:25:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 27) 1,2-Dichloroethane        | 5.143  | 62   | 6716m    | 2.449 | ug/L   |          |
| 29) Cyclohexane               | 4.677  | 56   | 5931     | 2.071 | ug/L # | 65       |
| 30) 1,1,1-Trichloroethane     | 4.606  | 97   | 7968     | 2.438 | ug/L # | 88       |
| 31) Carbon tetrachloride      | 4.828  | 117  | 6522     | 2.220 | ug/L # | 2        |
| 33) Benzene                   | 5.101  | 78   | 17352    | 2.271 | ug/L   | 100      |
| 34) Trichloroethene           | 5.924  | 95   | 4538     | 2.273 | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.130  | 83   | 6528     | 2.098 | ug/L # | 81       |
| 37) 1,2-Dichloropropane       | 6.182  | 63   | 4967     | 2.473 | ug/L # | 91       |
| 38) Bromodichloromethane      | 6.519  | 83   | 6231     | 2.292 | ug/L   | 86       |
| 39) cis-1,3-Dichloropropene   | 7.037  | 75   | 7214     | 2.368 | ug/L   | 89       |
| 40) 4-Methyl-2-pentanone      | 7.233  | 43   | 11815    | 4.561 | ug/L   | 99       |
| 42) Toluene                   | 7.394  | 91   | 22889    | 2.799 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 7.657  | 75   | 6877     | 2.329 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 7.844  | 97   | 4499     | 2.194 | ug/L   | 92       |
| 46) Tetrachloroethene         | 7.979  | 164  | 3930     | 2.283 | ug/L   | 97       |
| 48) 2-Hexanone                | 8.153  | 43   | 10120    | 4.921 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.249  | 129  | 5403     | 2.306 | ug/L   | 95       |
| 50) 1,2-Dibromoethane         | 8.358  | 107  | 5167     | 2.392 | ug/L   | 97       |
| 51) Chlorobenzene             | 8.886  | 112  | 12995    | 2.352 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.017  | 91   | 17908    | 2.058 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.143  | 106  | 6911     | 2.060 | ug/L   | 95       |
| 54) o-Xylene                  | 9.545  | 106  | 6383     | 1.955 | ug/L   | 97       |
| 55) Styrene                   | 9.567  | 104  | 10313    | 1.817 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.242 | 83   | 8395     | 2.567 | ug/L   | 99       |
| 59) Bromoform                 | 9.734  | 173  | 3694     | 2.391 | ug/L # | 98       |
| 60) Isopropylbenzene          | 9.934  | 105  | 16075    | 2.060 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 6198     | 2.708 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.541 | 105  | 13589    | 2.115 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.918 | 105  | 12398    | 1.922 | ug/L   | 93       |
| 64) 1,3-Dichlorobenzene       | 11.185 | 146  | 9344     | 2.369 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.275 | 146  | 10285    | 2.503 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 11.644 | 146  | 10531    | 2.640 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.429 | 75   | 1845     | 2.888 | ug/L   | 89       |
| 69) 1,3,5-Trichlorobenzene    | 12.648 | 180  | 6838     | 2.292 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.262 | 180  | 5846     | 2.261 | ug/L   | 99       |
| 71) Naphthalene               | 13.506 | 128  | 17472    | 2.105 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.747 | 180  | 6314     | 2.310 | ug/L   | 99       |
| -----                         |        |      |          |       |        |          |

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





#2  
Dichlorodifluoromethane  
Concen: 2.333 ug/L  
RT: 1.127 min Scan# 27  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

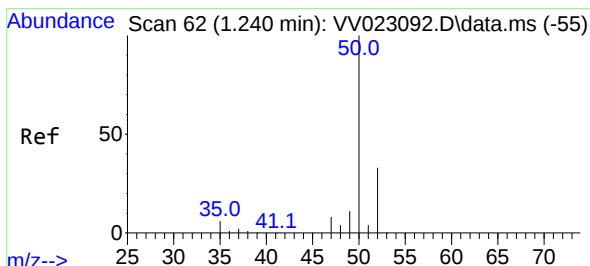
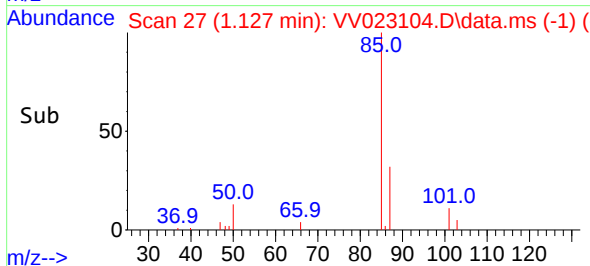
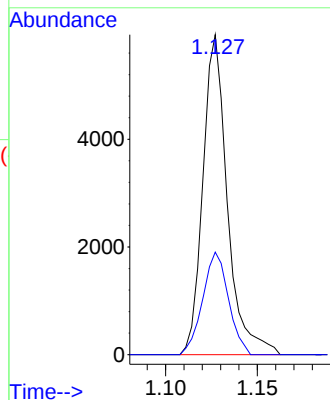
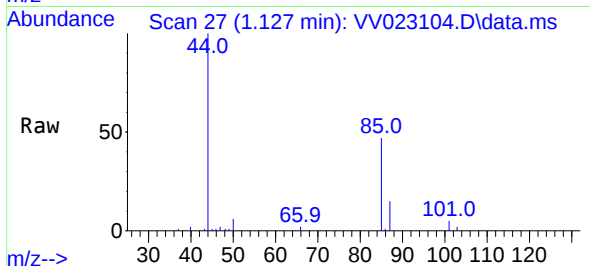
Tgt Ion: 85 Resp: 5533  
Ion Ratio Lower Upper  
85 100  
87 33.7 26.2 39.2

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

Manual Integrations  
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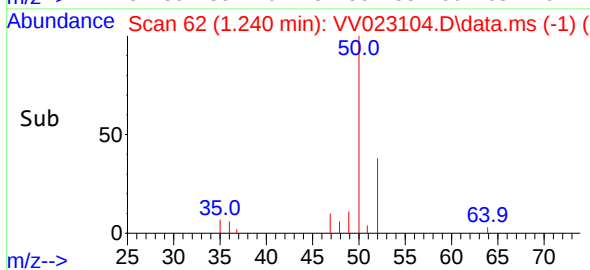
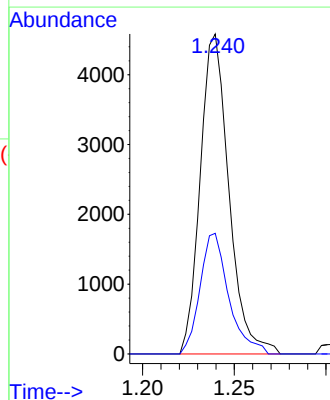
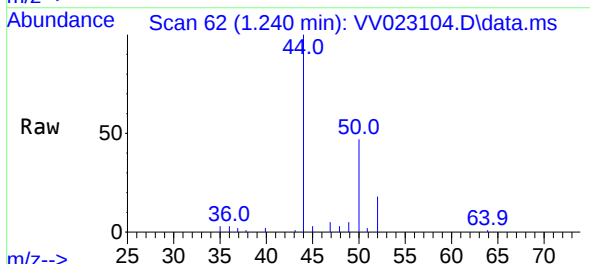
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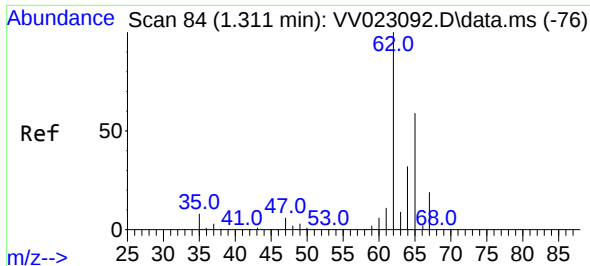
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#3  
Chloromethane  
Concen: 2.231 ug/L  
RT: 1.240 min Scan# 62  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 50 Resp: 4989  
Ion Ratio Lower Upper  
50 100  
52 37.7 22.5 41.9





#5  
 Vinyl chloride  
 Concen: 2.347 ug/L  
 RT: 1.307 min Scan# 83  
 Delta R.T. -0.003 min  
 Lab File: VV023104.D  
 Acq: 29 Oct 2021 14:47

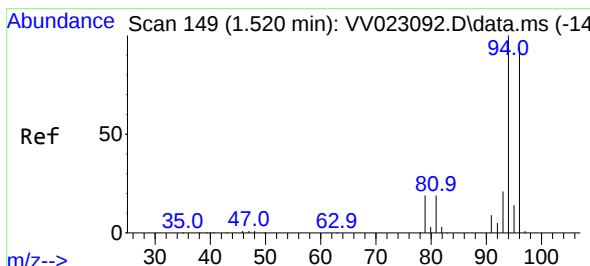
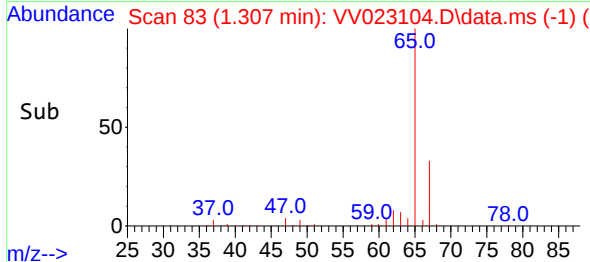
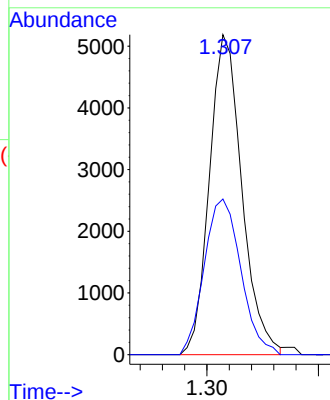
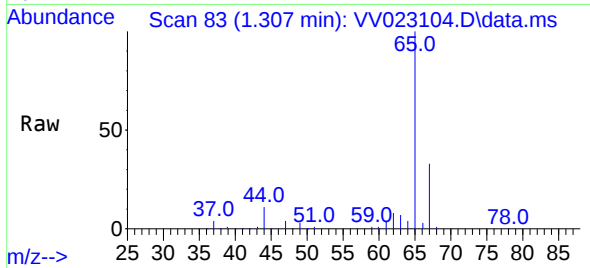
Tgt Ion: 62 Resp: 5246  
 Ion Ratio Lower Upper  
 62 100  
 64 48.6 23.4 43.4#

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Manual Integrations  
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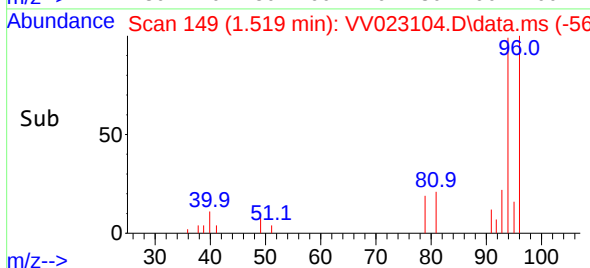
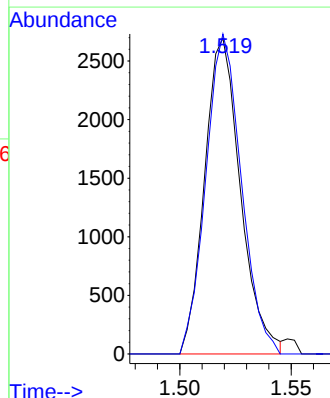
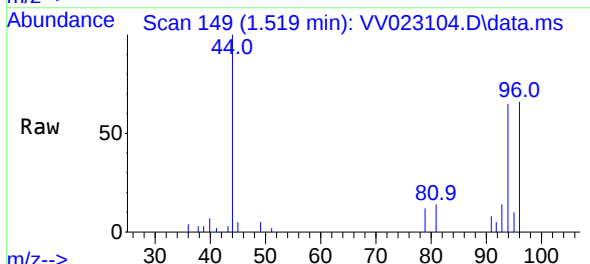
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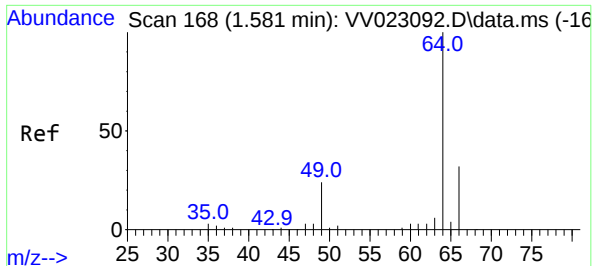
11/1/2021 6:39:59 PM



#6  
 Bromomethane  
 Concen: 2.408 ug/L  
 RT: 1.519 min Scan# 149  
 Delta R.T. -0.000 min  
 Lab File: VV023104.D  
 Acq: 29 Oct 2021 14:47

Tgt Ion: 94 Resp: 3023  
 Ion Ratio Lower Upper  
 94 100  
 96 101.3 66.8 124.2





#8  
Chloroethane  
Concen: 2.105 ug/L  
RT: 1.584 min Scan# 169  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

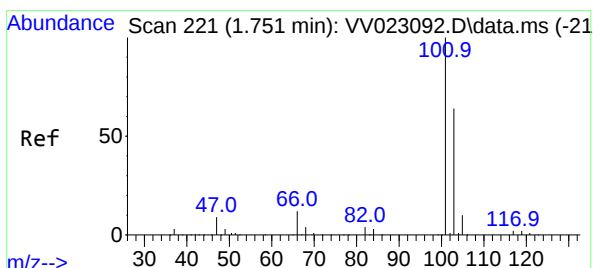
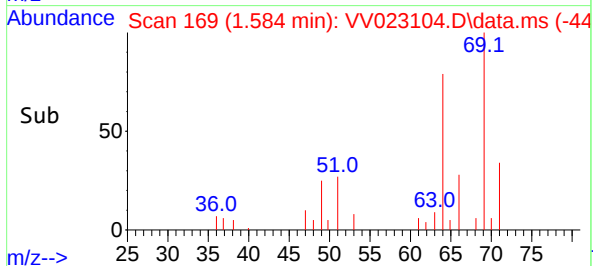
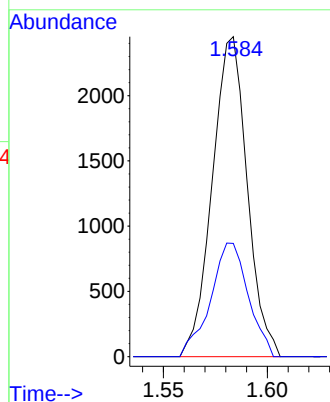
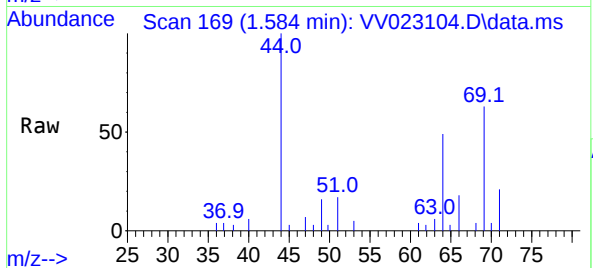
Tgt Ion: 64 Resp: 2864  
Ion Ratio Lower Upper  
64 100  
66 35.4 21.3 39.6

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
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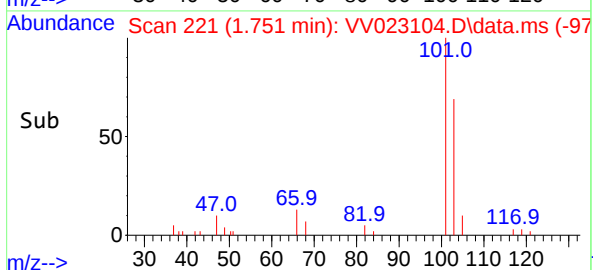
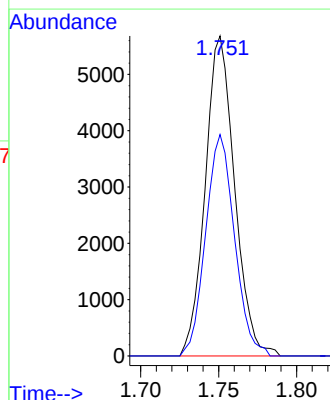
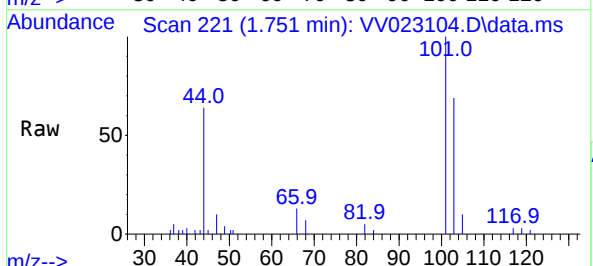
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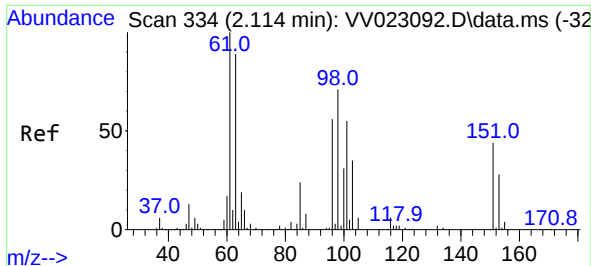
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#9  
Trichlorofluoromethane  
Concen: 2.199 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion:101 Resp: 7460  
Ion Ratio Lower Upper  
101 100  
103 67.9 52.2 78.2





#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 2.717 ug/L  
RT: 2.114 min Scan# 334  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

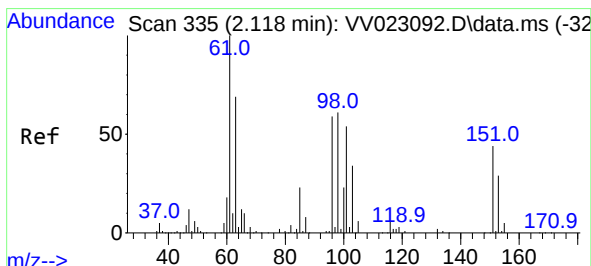
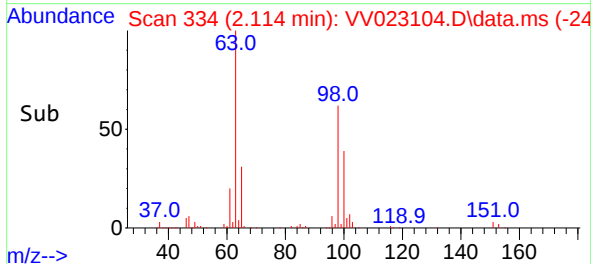
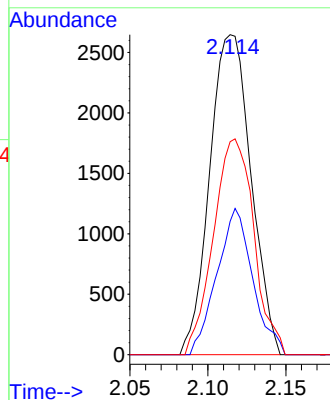
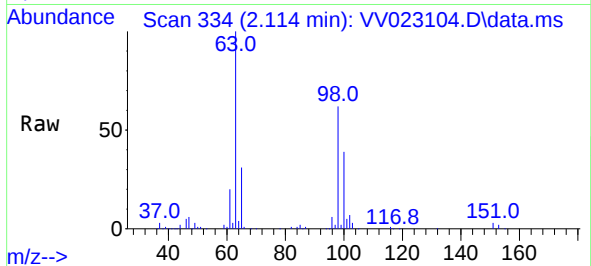
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Tgt Ion:101 Resp: 4892  
Ion Ratio Lower Upper  
101 100  
85 39.6 35.1 52.7  
151 66.0 63.4 95.2

Manual Integrations  
APPROVED

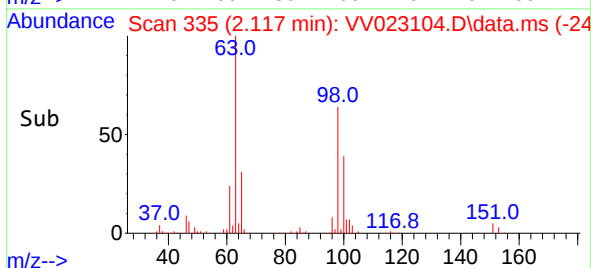
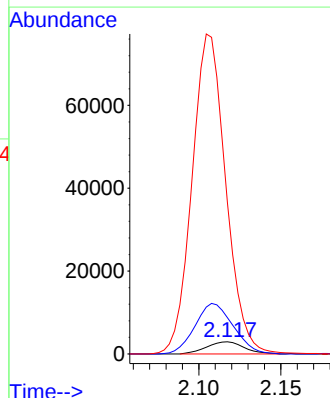
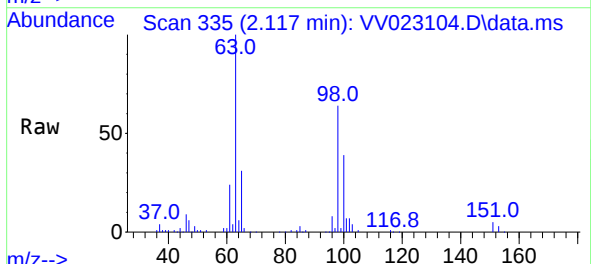
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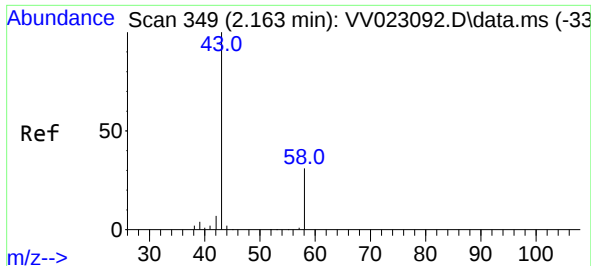
11/1/2021 6:39:59 PM



#12  
1,1-Dichloroethene  
Concen: 2.792 ug/L  
RT: 2.117 min Scan# 335  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 96 Resp: 4665  
Ion Ratio Lower Upper  
96 100  
61 300.3 117.7 218.7#  
63 1252.5 79.2 147.2#





#13  
Acetone  
Concen: 4.986 ug/L  
RT: 2.169 min Scan# 351  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

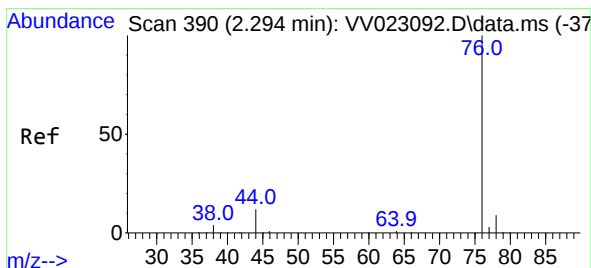
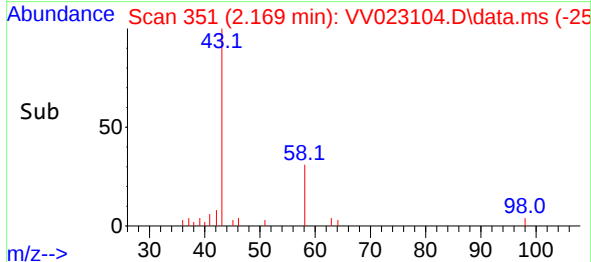
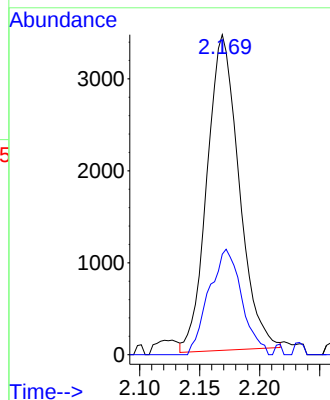
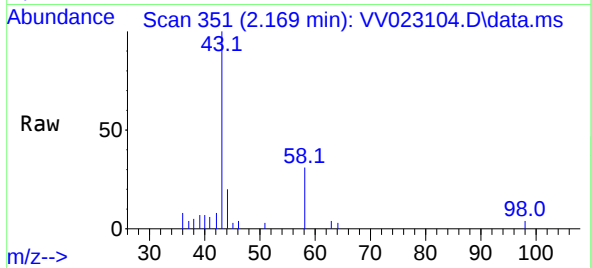
Tgt Ion: 43 Resp: 6365  
Ion Ratio Lower Upper  
43 100  
58 34.2 0.0 0.4#

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

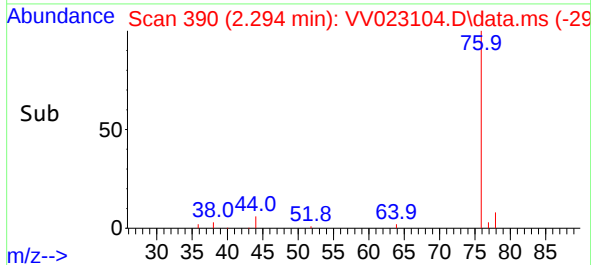
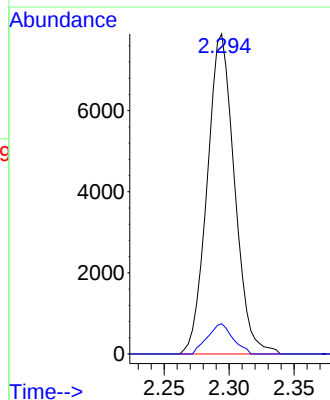
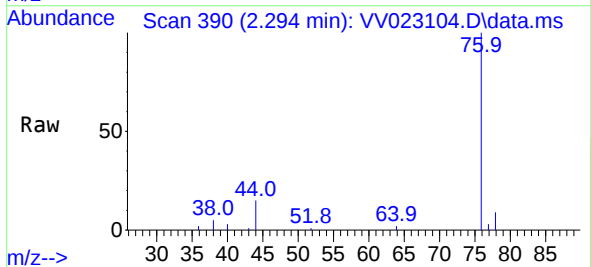
SAM

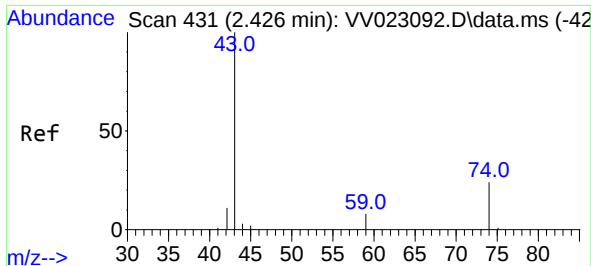
11/1/2021 6:39:59 PM



#14  
Carbon disulfide  
Concen: 2.312 ug/L  
RT: 2.294 min Scan# 390  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

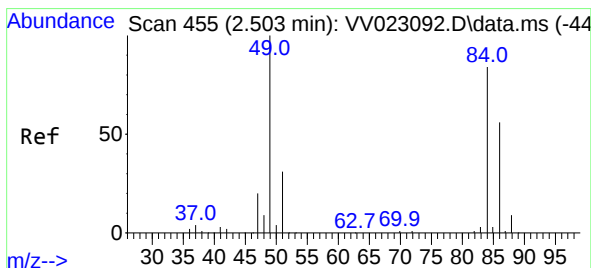
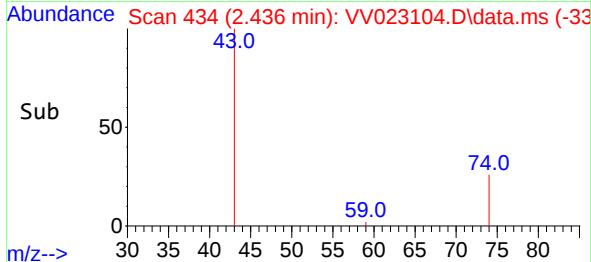
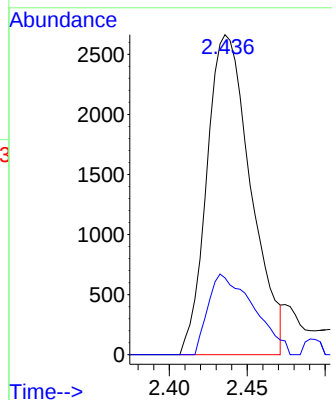
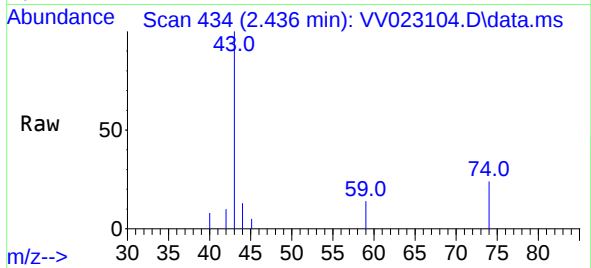
Tgt Ion: 76 Resp: 11552  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.4 11.0





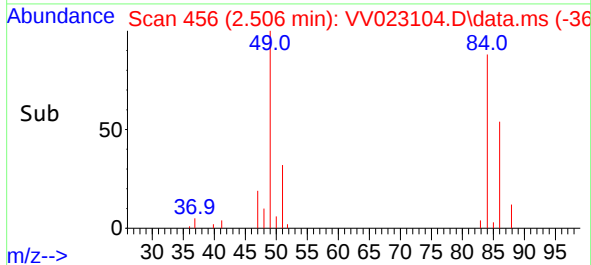
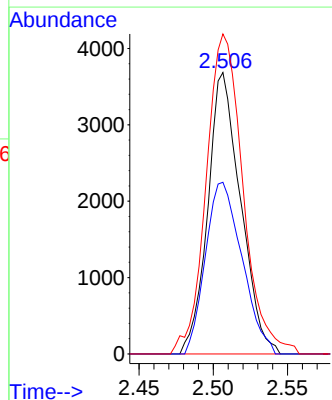
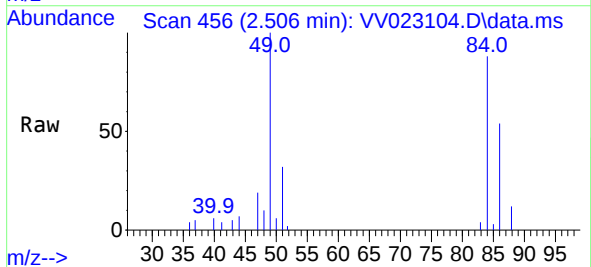
#15  
Methyl Acetate  
Concen: 2.468 ug/L  
RT: 2.436 min Scan# 434  
Delta R.T. 0.009 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 43 Resp: 5229  
Ion Ratio Lower Upper  
43 100  
74 26.1 19.4 29.2



#16  
Methylene chloride  
Concen: 2.649 ug/L  
RT: 2.506 min Scan# 456  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 84 Resp: 5671  
Ion Ratio Lower Upper  
84 100  
86 61.0 45.4 84.2  
49 113.7 83.0 154.1

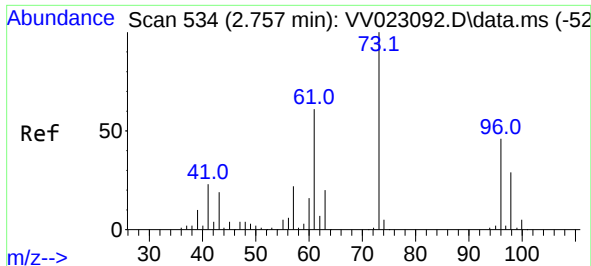


Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

SAM

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#17  
trans-1,2-Dichloroethene  
Concen: 2.454 ug/L  
RT: 2.760 min Scan# 535  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

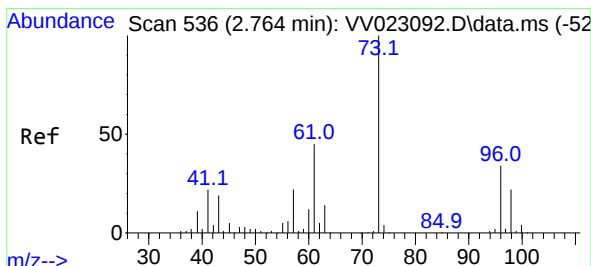
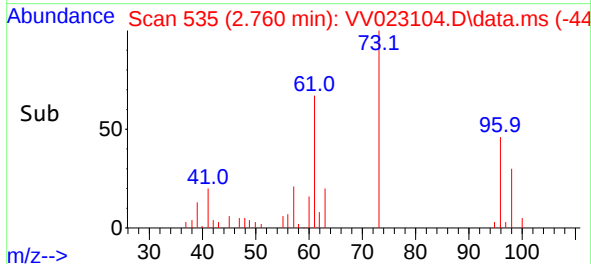
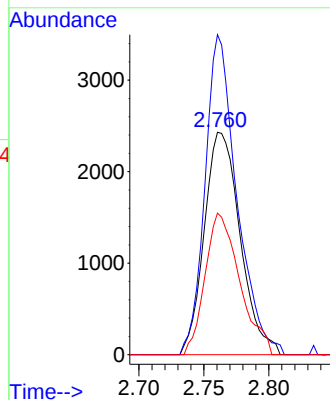
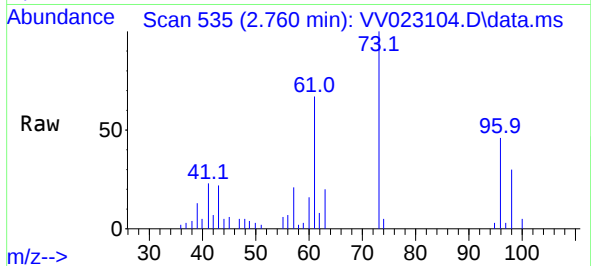
Tgt Ion: 96 Resp: 4679  
Ion Ratio Lower Upper  
96 100  
61 143.9 92.2 171.2  
98 63.7 44.1 81.9

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

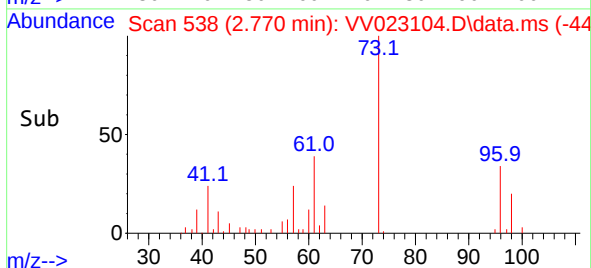
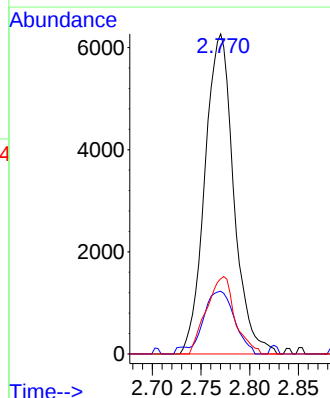
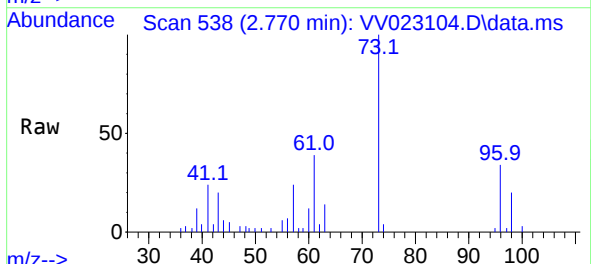
SAM

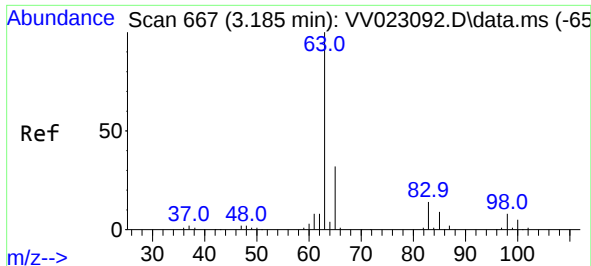
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#18  
Methyl tert-butyl Ether  
Concen: 2.251 ug/L  
RT: 2.770 min Scan# 538  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 73 Resp: 12893  
Ion Ratio Lower Upper  
73 100  
43 20.6 14.9 22.3  
57 23.8 17.6 26.4





#19  
1,1-Dichloroethane  
Concen: 2.276 ug/L  
RT: 3.191 min Scan# 669  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

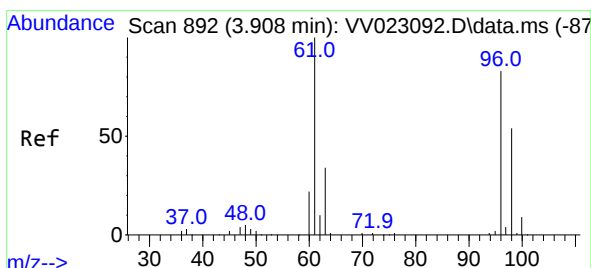
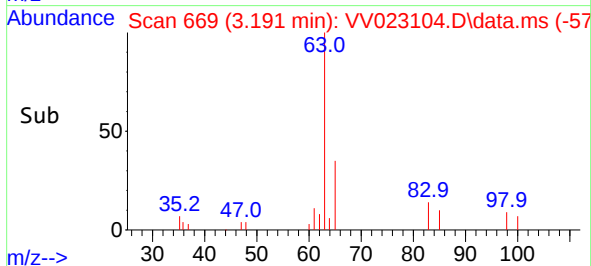
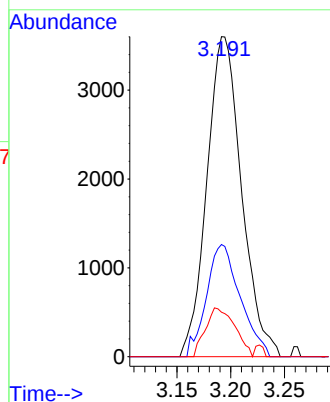
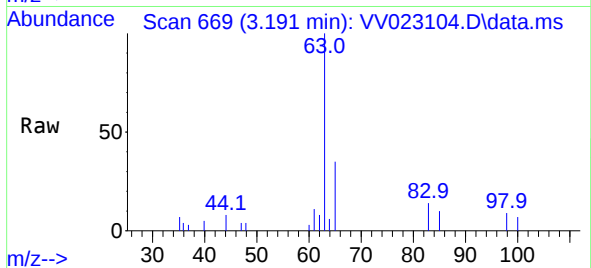
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 8088  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 35.1  | 22.3  | 41.5  |
| 83       | 13.9  | 9.8   | 18.2  |

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

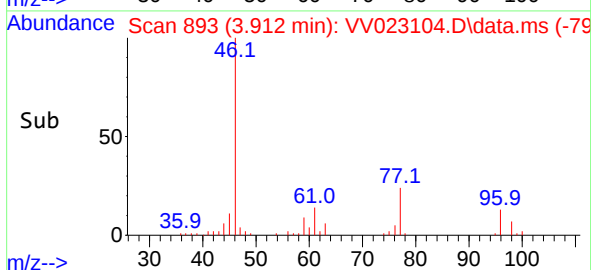
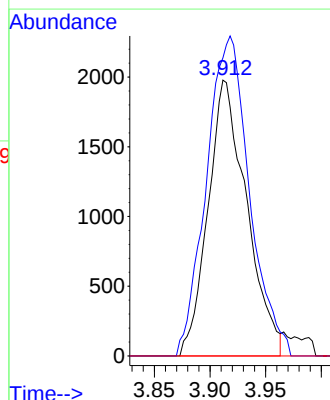
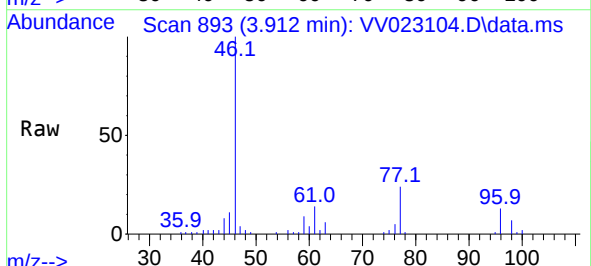
SAM

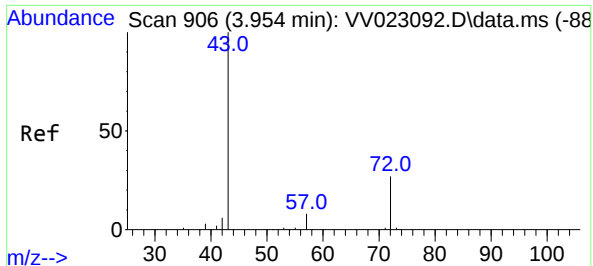
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#20  
cis-1,2-Dichloroethene  
Concen: 2.342 ug/L  
RT: 3.912 min Scan# 893  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4774  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 108.1 | 83.0  | 154.1 |
| 68       | 0.0   | 0.0   | 0.0   |





#22  
2-Butanone  
Concen: 5.163 ug/L m  
RT: 3.985 min Scan# 916  
Delta R.T. 0.032 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

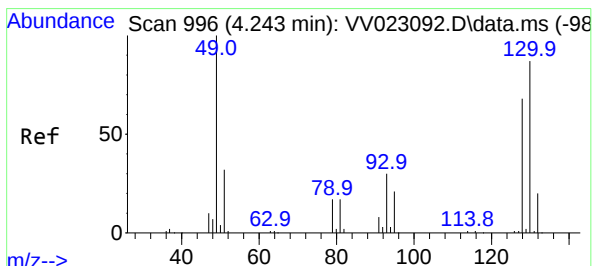
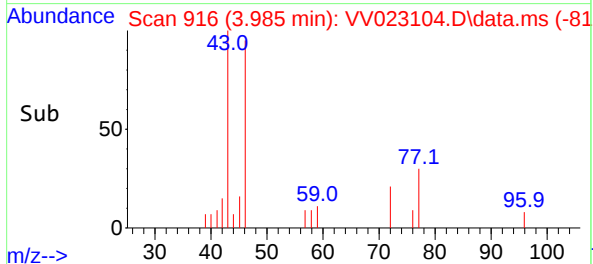
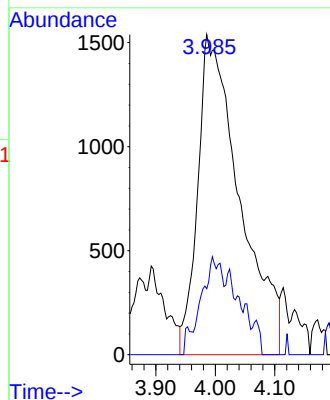
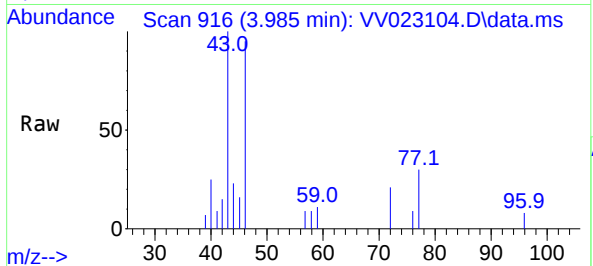
Tgt Ion: 43 Resp: 7513  
Ion Ratio Lower Upper  
43 100  
72 4.7 13.4 40.1#

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

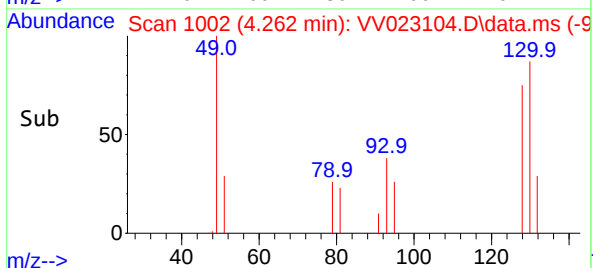
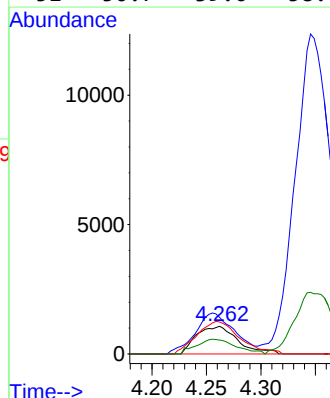
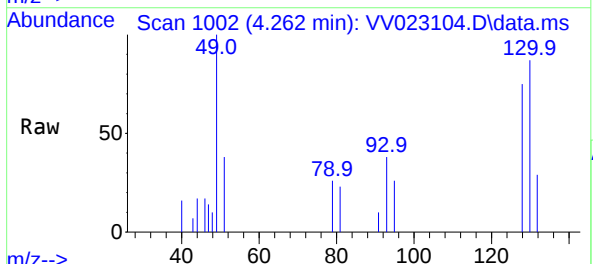
SAM

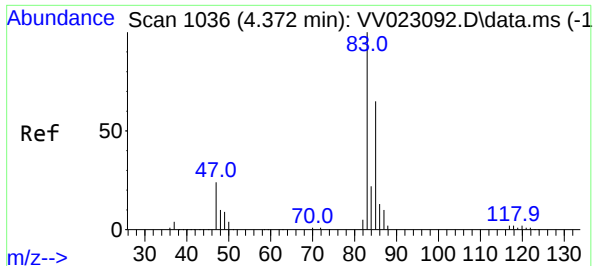
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#23  
Bromochloromethane  
Concen: 2.457 ug/L m  
RT: 4.262 min Scan# 1002  
Delta R.T. 0.019 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 128 Resp: 2822  
Ion Ratio Lower Upper  
128 100  
49 132.8 104.7 194.4  
130 116.0 89.7 166.7  
51 50.7 39.0 58.4





#25  
Chloroform  
Concen: 2.654 ug/L  
RT: 4.375 min Scan# 1037  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

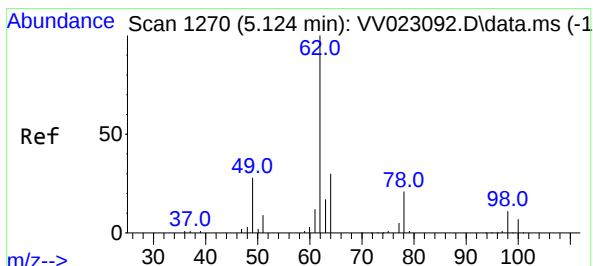
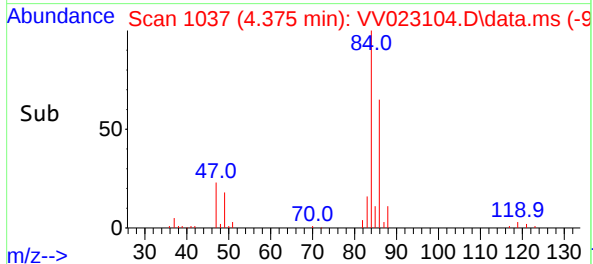
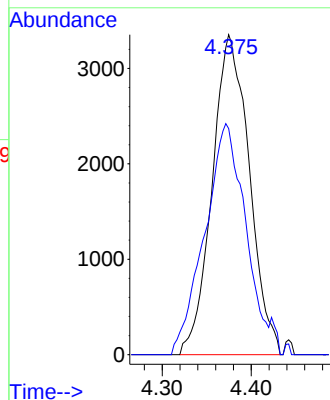
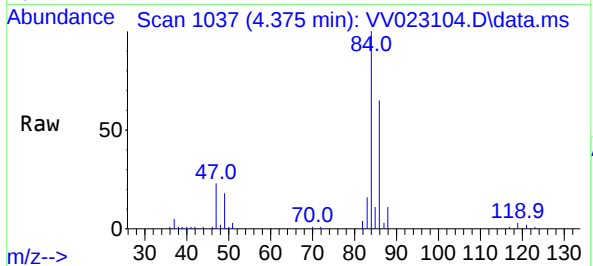
Tgt Ion: 83 Resp: 9697  
Ion Ratio Lower Upper  
83 100  
85 70.7 44.4 82.4

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

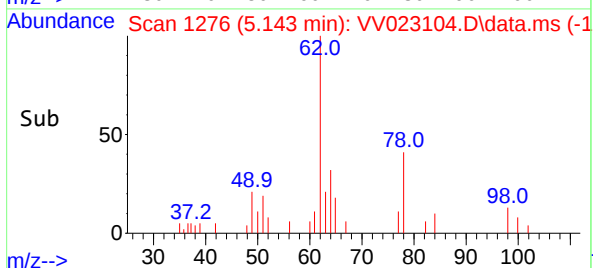
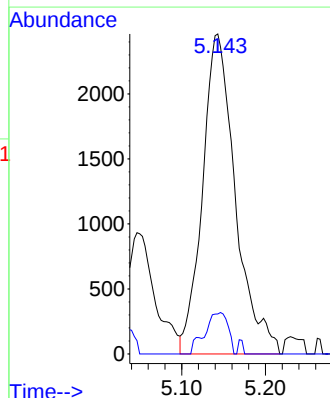
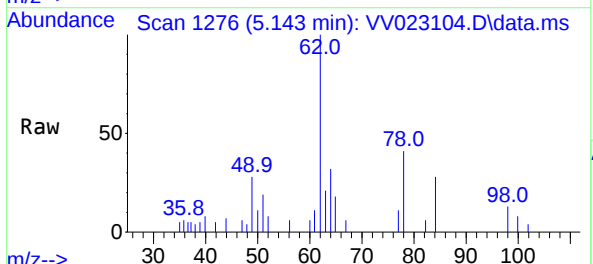
SAM

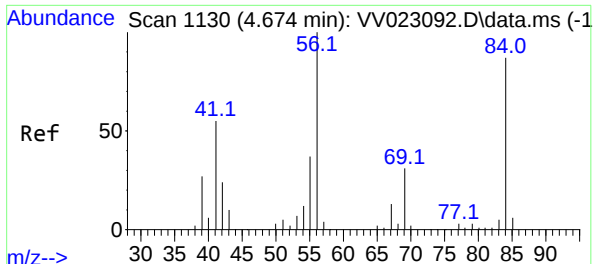
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#27  
1,2-Dichloroethane  
Concen: 2.449 ug/L m  
RT: 5.143 min Scan# 1276  
Delta R.T. 0.019 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 62 Resp: 6716  
Ion Ratio Lower Upper  
62 100  
98 12.5 8.2 12.4#





#29

Cyclohexane

Concen: 2.071 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VV023104.D

Acq: 29 Oct 2021 14:47

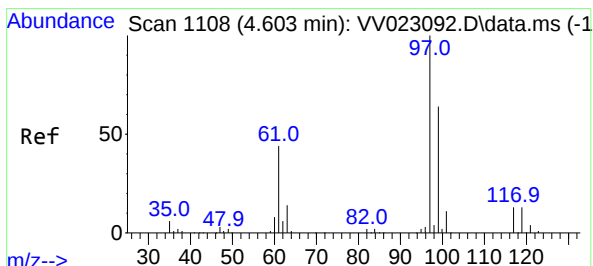
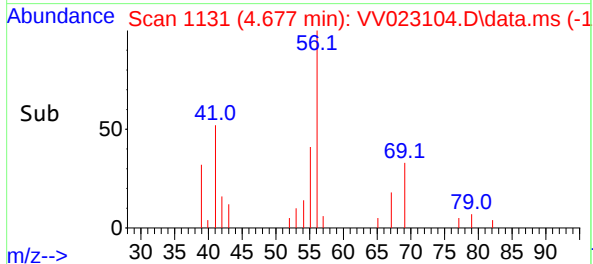
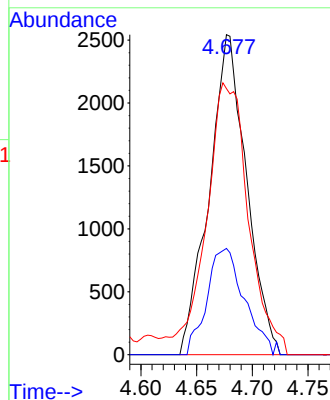
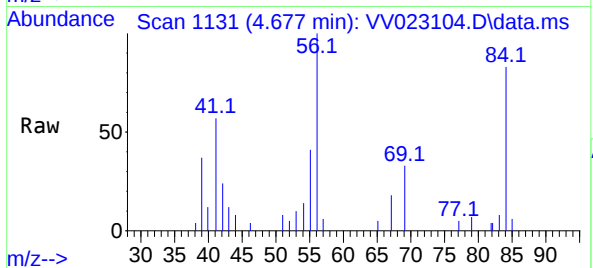
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 5931   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 33.2  | 24.6  | 36.8   |
| 84       | 47.5  | 72.8  | 109.2# |

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

SAM

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#30

1,1,1-Trichloroethane

Concen: 2.438 ug/L

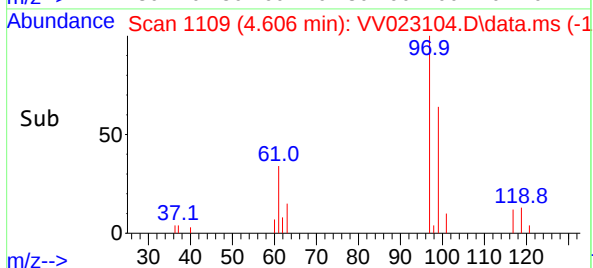
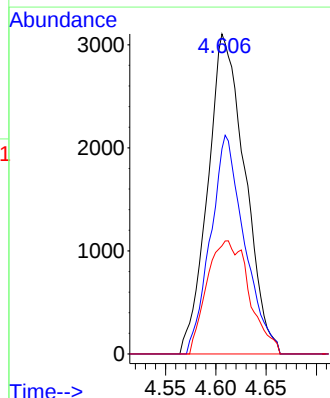
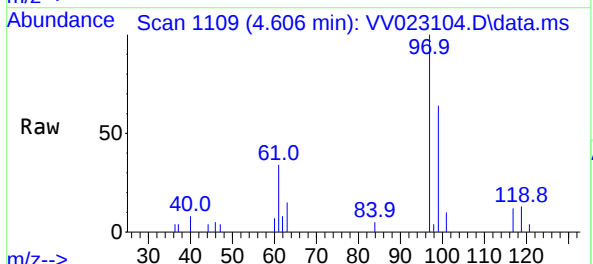
RT: 4.606 min Scan# 1109

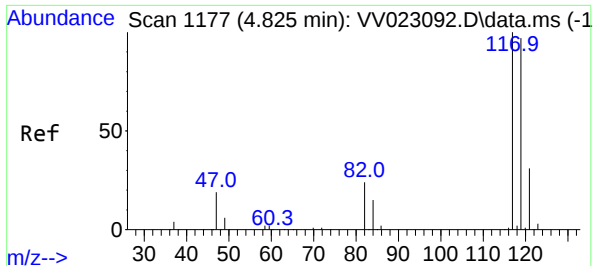
Delta R.T. 0.003 min

Lab File: VV023104.D

Acq: 29 Oct 2021 14:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7968  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.6  | 51.9  | 77.9  |
| 61       | 26.2  | 33.8  | 50.6# |





#31  
Carbon tetrachloride  
Concen: 2.220 ug/L  
RT: 4.828 min Scan# 1178  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

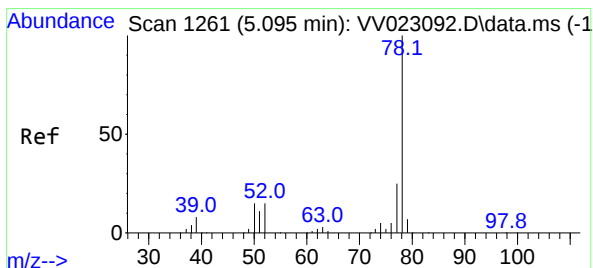
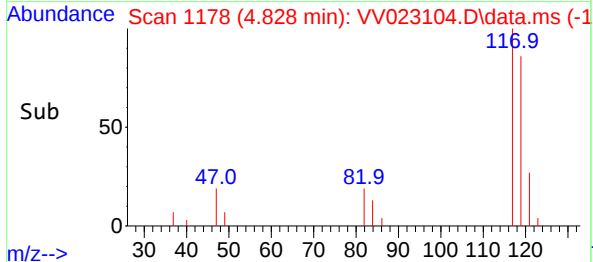
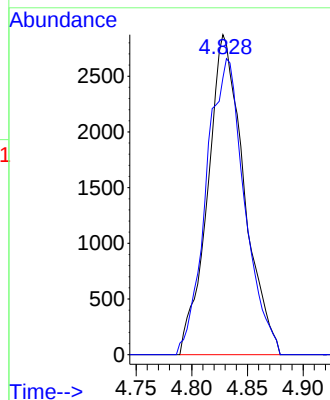
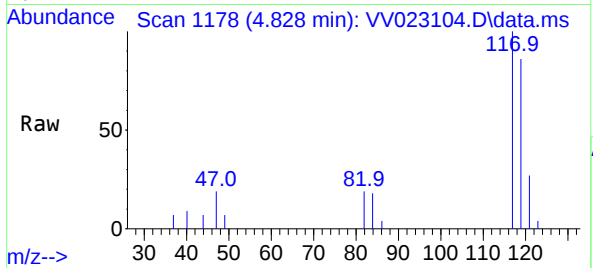
Tgt Ion: 117 Resp: 6522  
Ion Ratio Lower Upper  
117 100  
119 0.0 77.0 115.4#

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

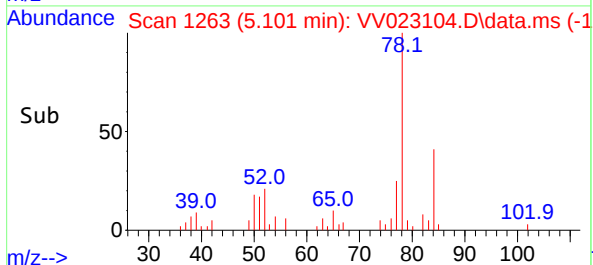
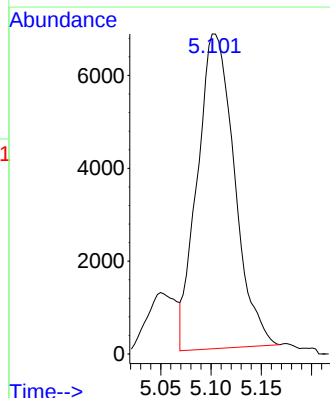
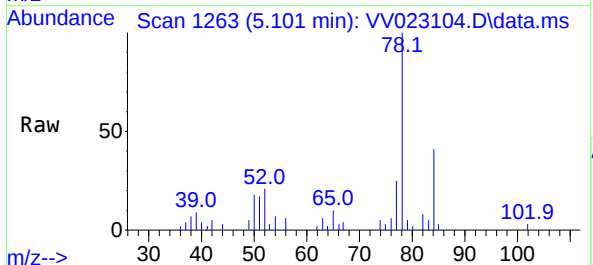
SAM

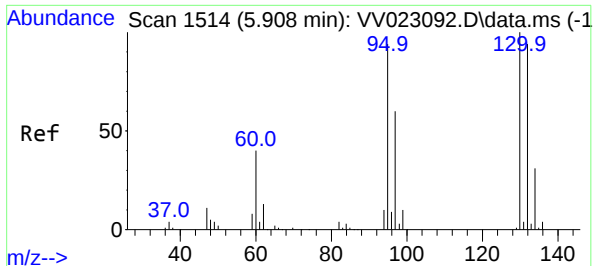
11/1/2021 6:39:59 PM



#33  
Benzene  
Concen: 2.271 ug/L  
RT: 5.101 min Scan# 1263  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 78 Resp: 17352





#34  
Trichloroethene  
Concen: 2.273 ug/L  
RT: 5.924 min Scan# 1519  
Delta R.T. 0.016 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 95 Resp: 4538

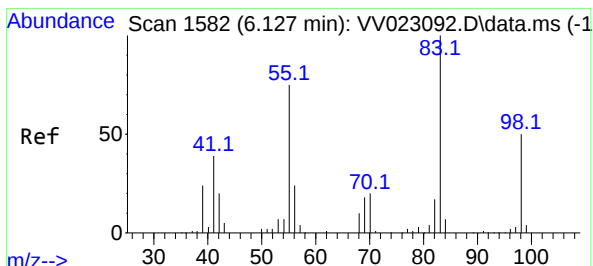
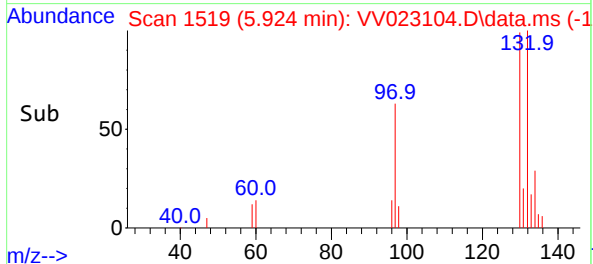
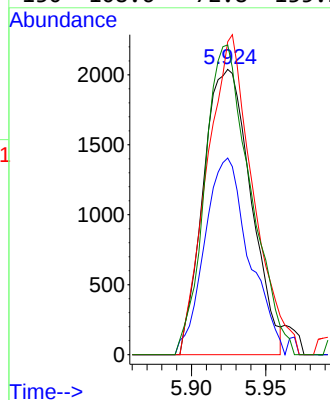
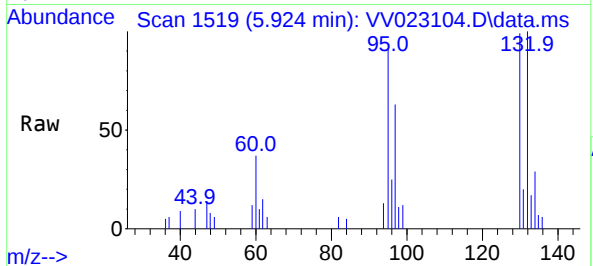
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 68.9  | 44.4  | 82.5  |
| 132 | 109.7 | 71.5  | 132.9 |
| 130 | 108.6 | 72.8  | 135.2 |

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
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SAM

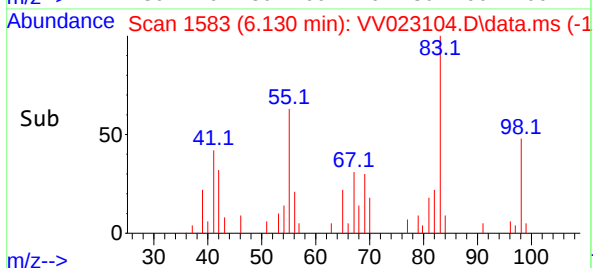
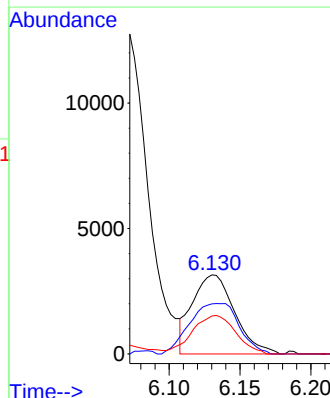
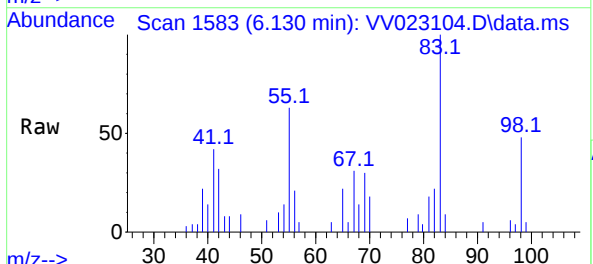
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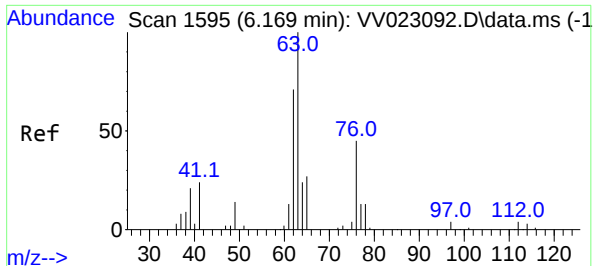


#35  
Methylcyclohexane  
Concen: 2.098 ug/L  
RT: 6.130 min Scan# 1583  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 83 Resp: 6528

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 48.9  | 60.1  | 90.1# |
| 98  | 50.0  | 41.2  | 61.8  |





#37  
1,2-Dichloropropane  
Concen: 2.473 ug/L  
RT: 6.182 min Scan# 1599  
Delta R.T. 0.013 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

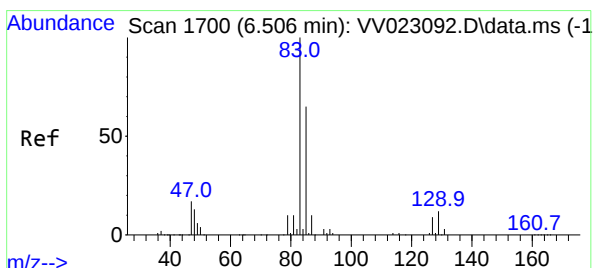
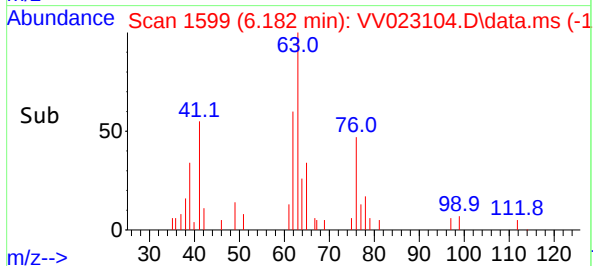
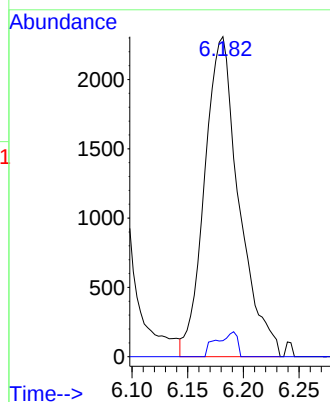
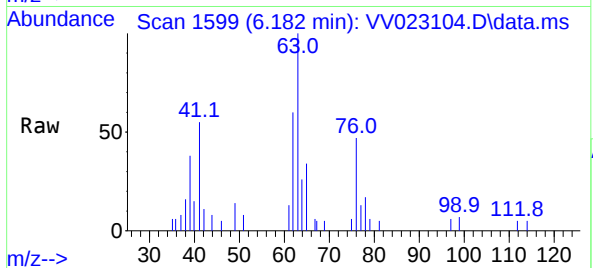
Tgt Ion: 63 Resp: 4967  
Ion Ratio Lower Upper  
63 100  
112 1.8 3.8 5.8#

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

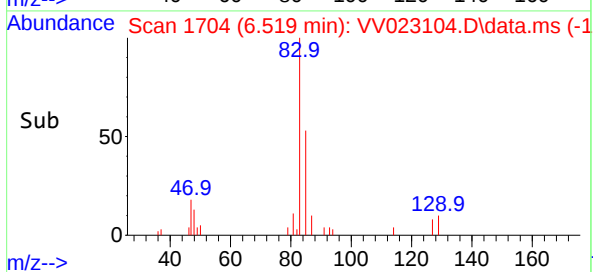
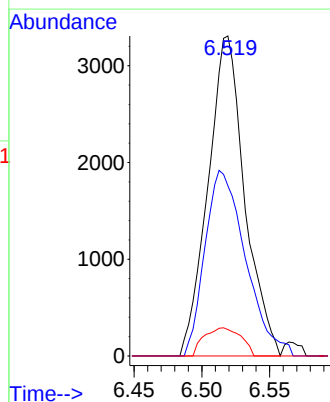
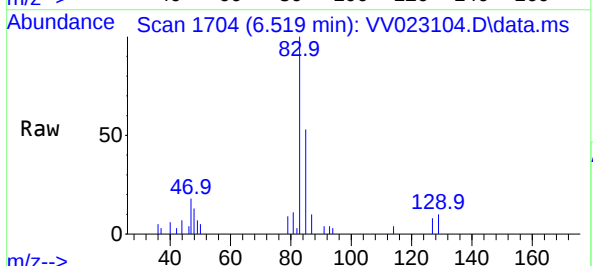
SAM

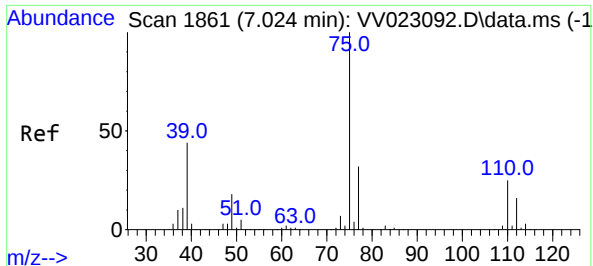
11/1/2021 6:39:59 PM



#38  
Bromodichloromethane  
Concen: 2.292 ug/L  
RT: 6.519 min Scan# 1704  
Delta R.T. 0.013 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 83 Resp: 6231  
Ion Ratio Lower Upper  
83 100  
85 53.2 46.1 85.5  
127 8.3 7.4 11.0





#39

cis-1,3-Dichloropropene  
Concen: 2.368 ug/L  
RT: 7.037 min Scan# 1865  
Delta R.T. 0.013 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

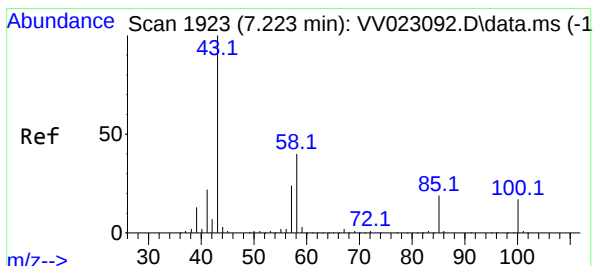
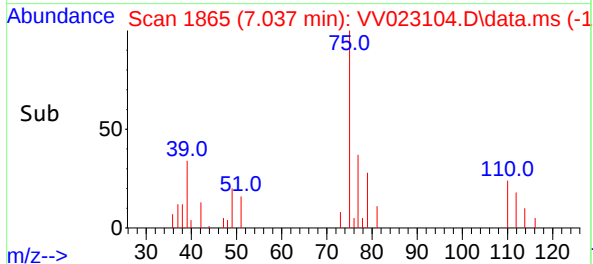
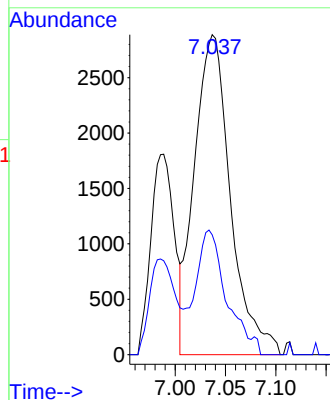
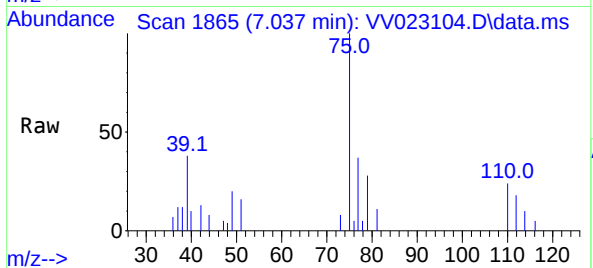
Tgt Ion: 75 Resp: 7214  
Ion Ratio Lower Upper  
75 100  
77 37.5 21.8 40.6

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
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SAM

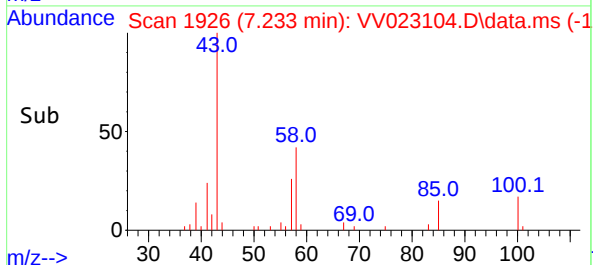
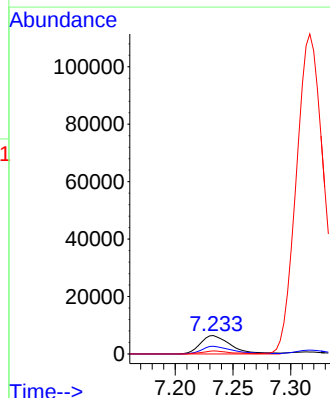
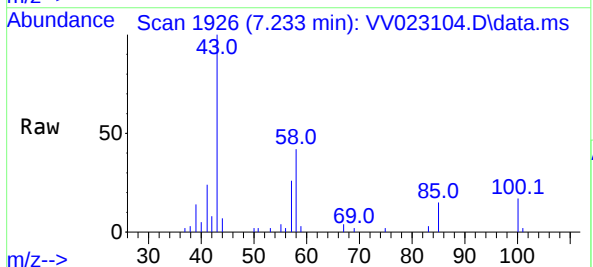
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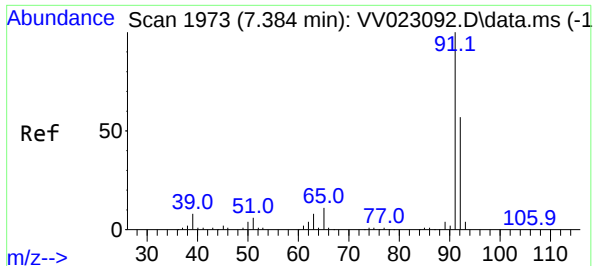


#40

4-Methyl-2-pentanone  
Concen: 4.561 ug/L  
RT: 7.233 min Scan# 1926  
Delta R.T. 0.009 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 43 Resp: 11815  
Ion Ratio Lower Upper  
43 100  
58 40.8 32.4 48.6  
100 15.2 13.4 20.2





#42

Toluene

Concen: 2.799 ug/L

RT: 7.394 min Scan# 1976

Delta R.T. 0.009 min

Lab File: VV023104.D

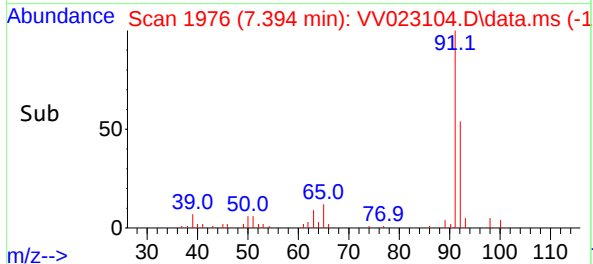
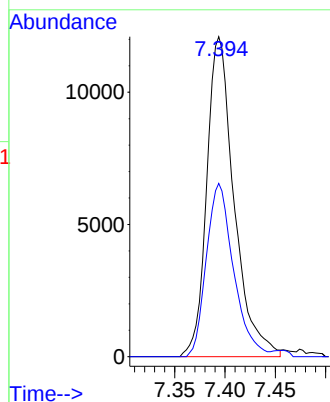
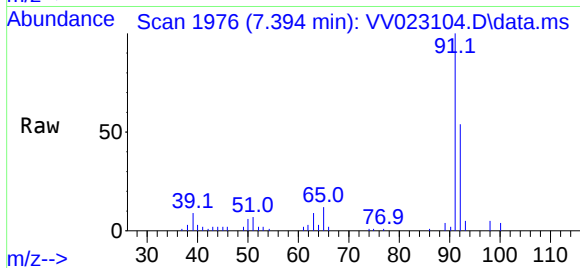
Acq: 29 Oct 2021 14:47

Tgt Ion: 91 Resp: 22889

Ion Ratio Lower Upper

91 100

92 54.1 40.6 75.4



Instrument :

MSVOA\_V

ClientSampled :

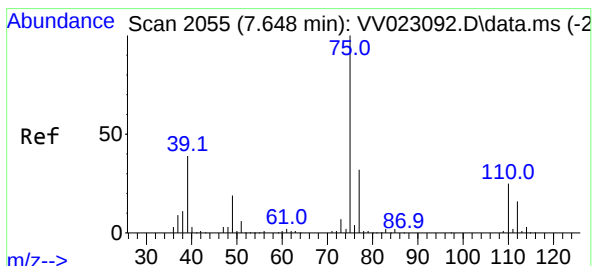
MDL05

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 2.329 ug/L

RT: 7.657 min Scan# 2058

Delta R.T. 0.009 min

Lab File: VV023104.D

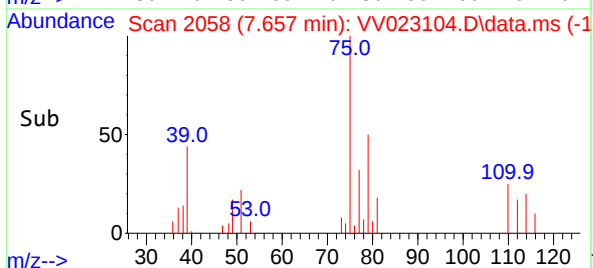
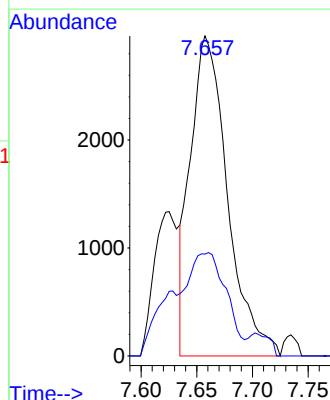
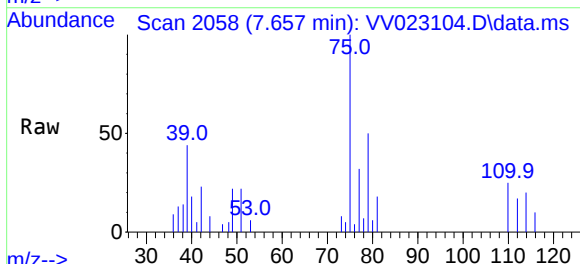
Acq: 29 Oct 2021 14:47

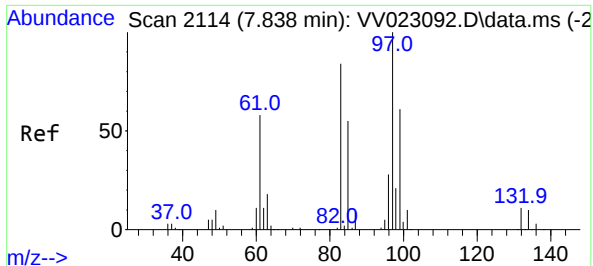
Tgt Ion: 75 Resp: 6877

Ion Ratio Lower Upper

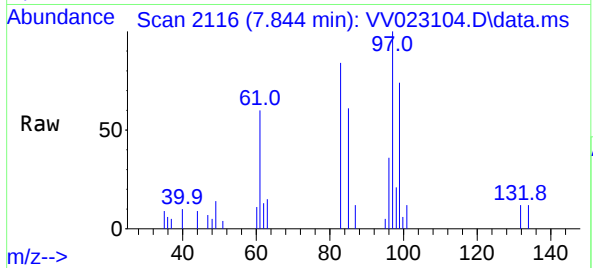
75 100

77 31.8 21.4 39.8



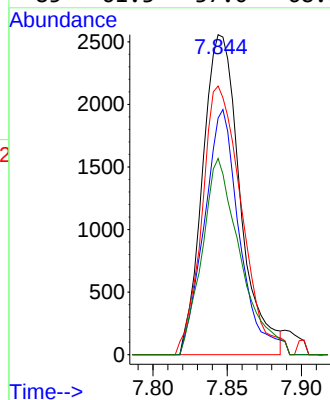


#45  
1,1,2-Trichloroethane  
Concen: 2.194 ug/L  
RT: 7.844 min Scan# 2116  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47



Tgt Ion: 97 Resp: 4499

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 74.0  | 44.2  | 82.2  |
| 83  | 83.9  | 57.7  | 107.1 |
| 85  | 61.3  | 37.0  | 68.6  |

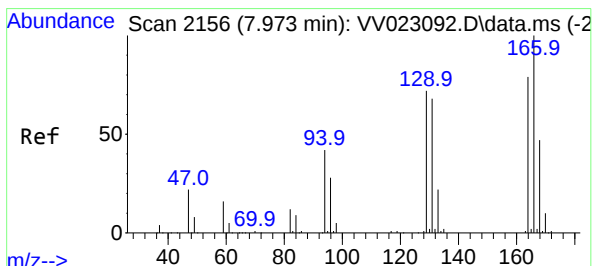
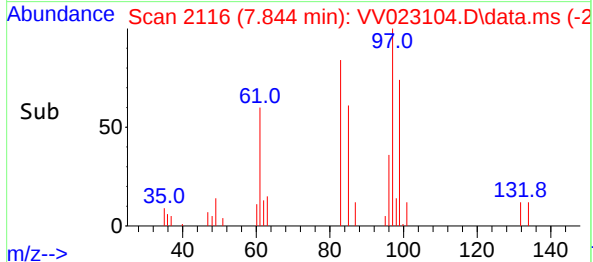


Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

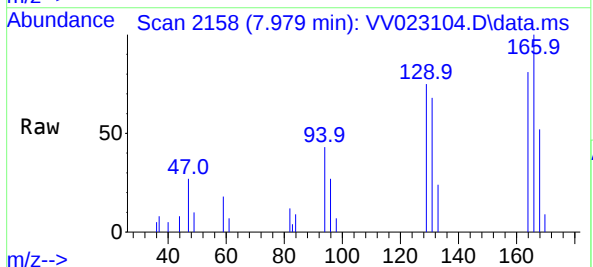
Manual Integrations  
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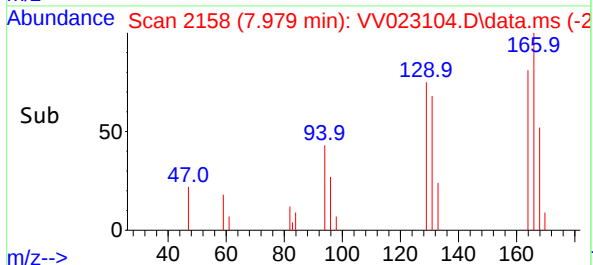
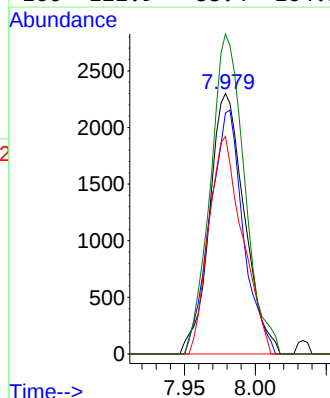


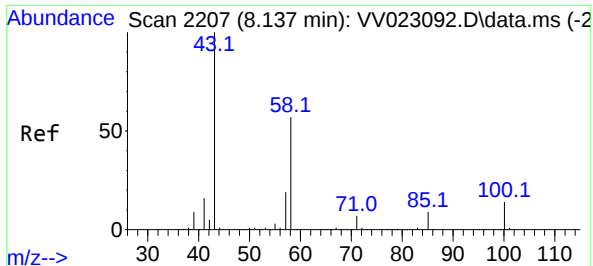
#46  
Tetrachloroethene  
Concen: 2.283 ug/L  
RT: 7.979 min Scan# 2158  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47



Tgt Ion: 164 Resp: 3930

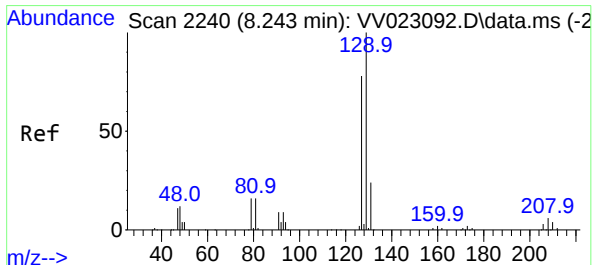
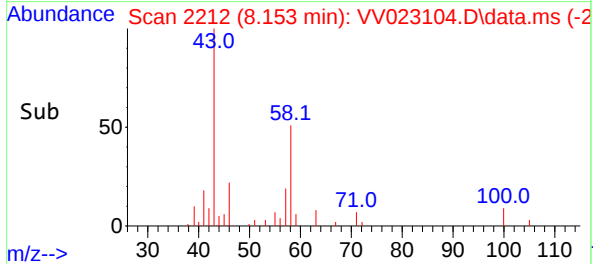
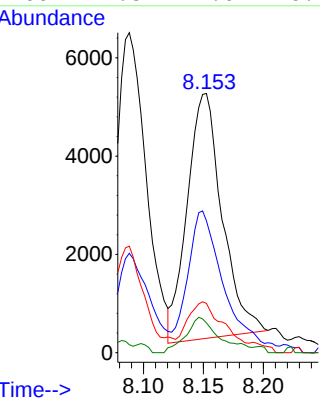
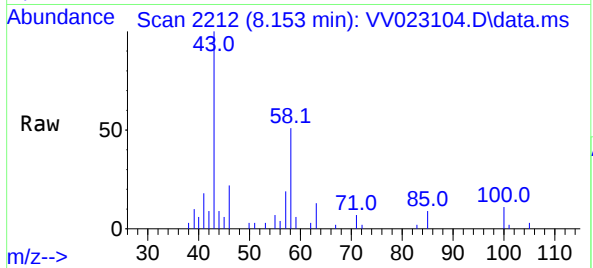
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 92.6  | 64.6  | 120.0 |
| 131 | 83.6  | 62.9  | 116.7 |
| 166 | 122.9 | 88.4  | 164.2 |





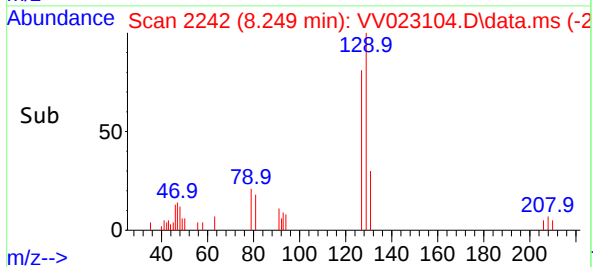
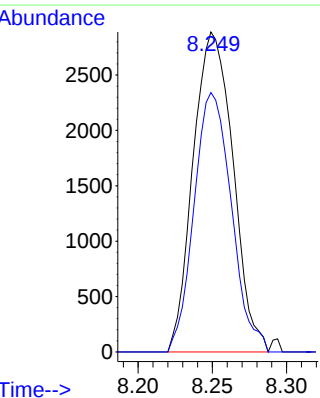
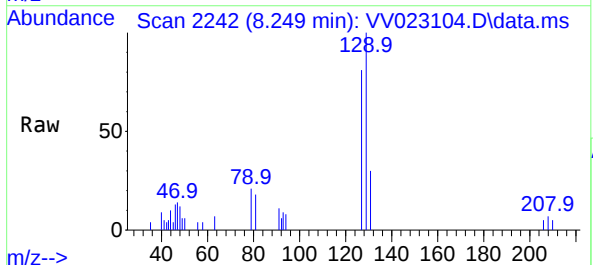
#48  
2-Hexanone  
Concen: 4.921 ug/L  
RT: 8.153 min Scan# 2212  
Delta R.T. 0.016 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 10120 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 56.3     | 45.6 68.4   |
| 57 16.6     | 15.4 23.0   |
| 100 12.8    | 11.0 16.4   |



#49  
Dibromochloromethane  
Concen: 2.306 ug/L  
RT: 8.249 min Scan# 2242  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

|              |             |
|--------------|-------------|
| Tgt Ion: 129 | Resp: 5403  |
| Ion Ratio    | Lower Upper |
| 129 100      |             |
| 127 81.1     | 53.9 100.1  |

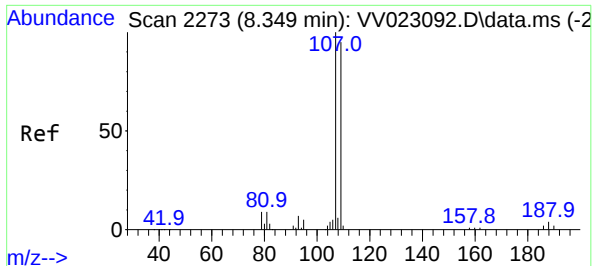


Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

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#50  
1,2-Dibromoethane  
Concen: 2.392 ug/L  
RT: 8.358 min Scan# 2276  
Delta R.T. 0.009 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

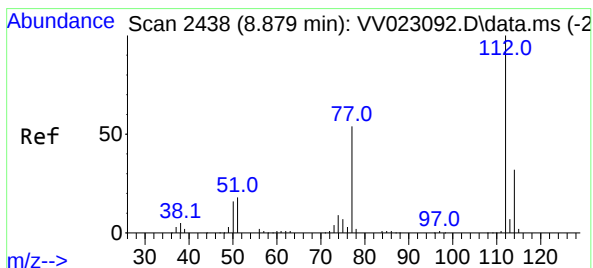
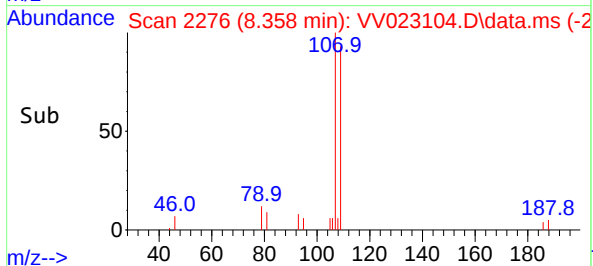
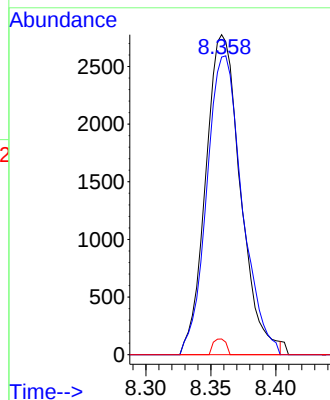
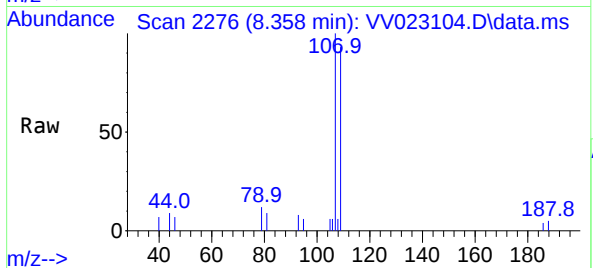
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 5167  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 93.0  | 67.3  | 124.9 |
| 188      | 4.9   | 3.3   | 4.9   |

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
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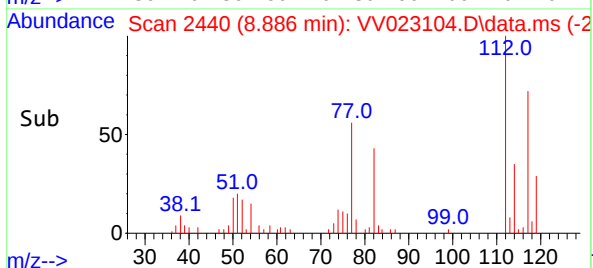
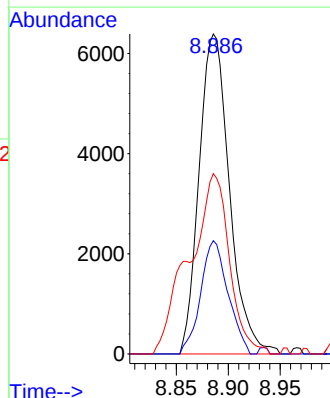
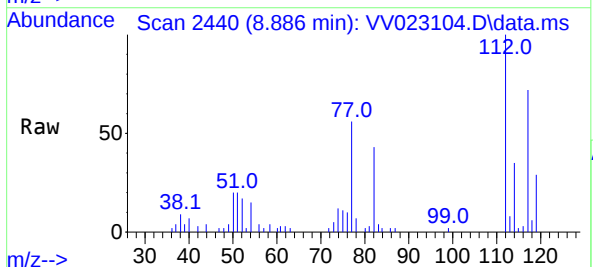
SAM

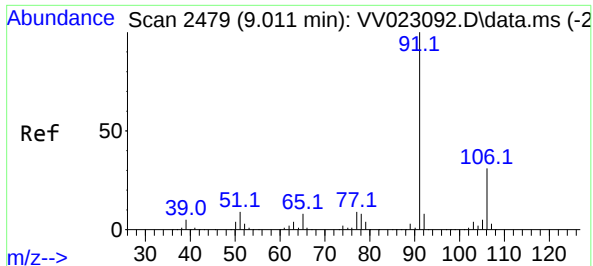
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#51  
Chlorobenzene  
Concen: 2.352 ug/L  
RT: 8.886 min Scan# 2440  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 12995 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 35.4  | 22.2  | 41.2  |
| 77       | 56.3  | 44.6  | 67.0  |





#52  
Ethylbenzene  
Concen: 2.058 ug/L  
RT: 9.017 min Scan# 2481  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

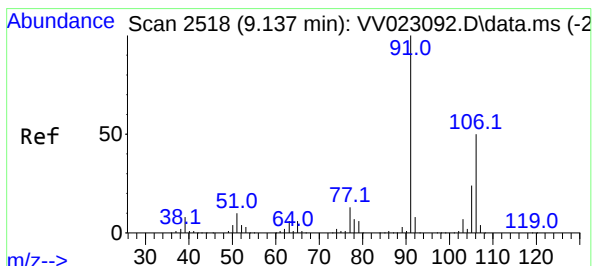
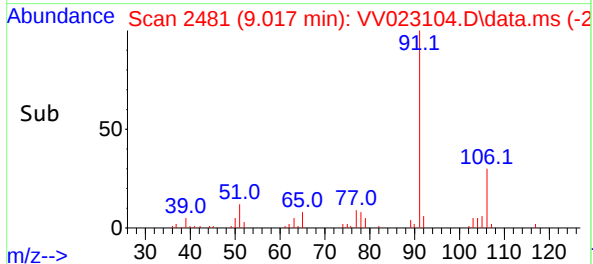
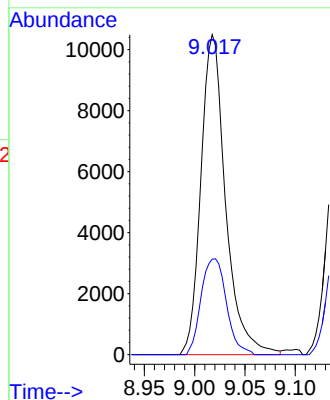
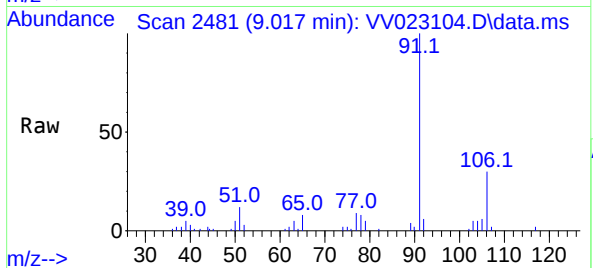
Tgt Ion: 91 Resp: 17908  
Ion Ratio Lower Upper  
91 100  
106 29.8 21.8 40.4

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
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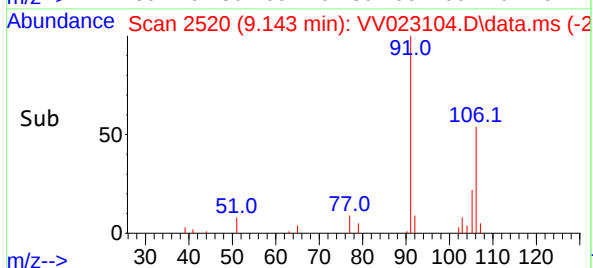
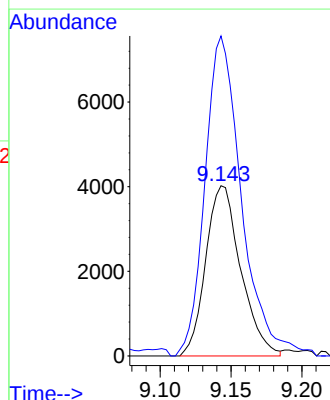
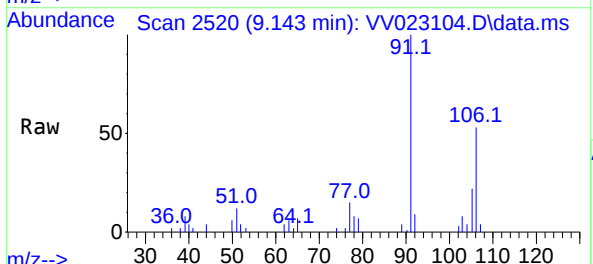
SAM

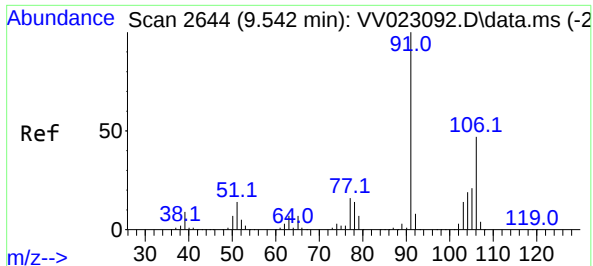
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#53  
m,p-Xylene  
Concen: 2.060 ug/L  
RT: 9.143 min Scan# 2520  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

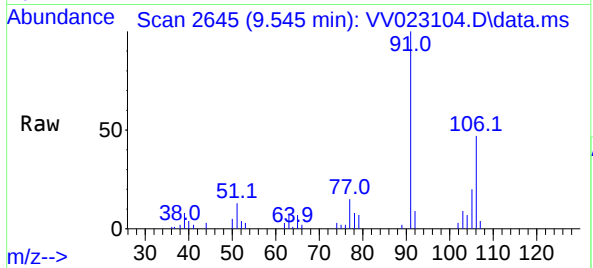
Tgt Ion: 106 Resp: 6911  
Ion Ratio Lower Upper  
106 100  
91 188.0 137.3 254.9





#54  
o-Xylene  
Concen: 1.955 ug/L  
RT: 9.545 min Scan# 2645  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

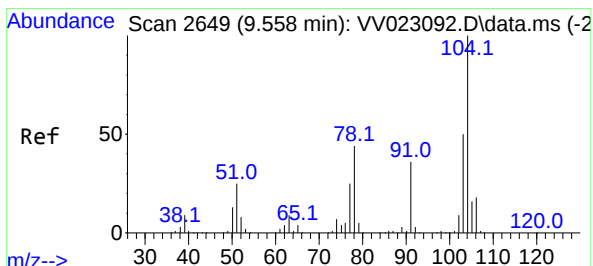
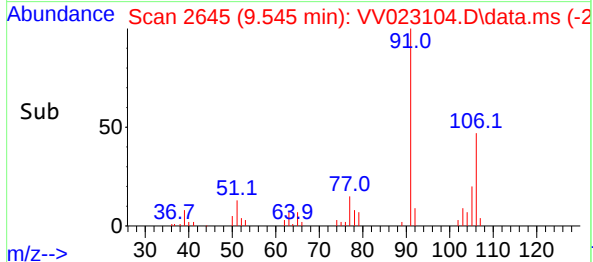
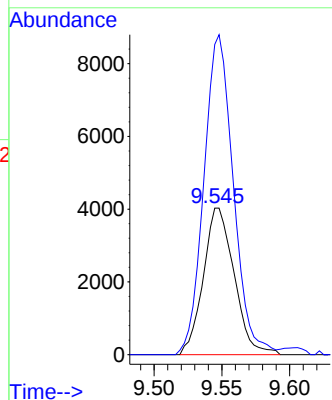


Tgt Ion:106 Resp: 6383  
Ion Ratio Lower Upper  
106 100  
91 211.7 145.0 269.4

Manual Integrations  
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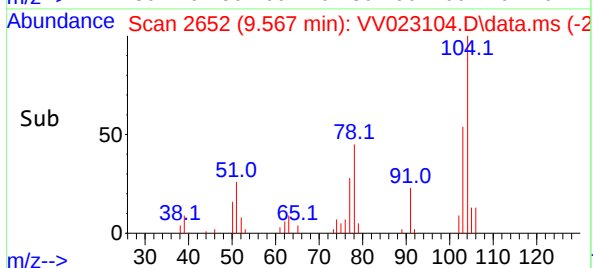
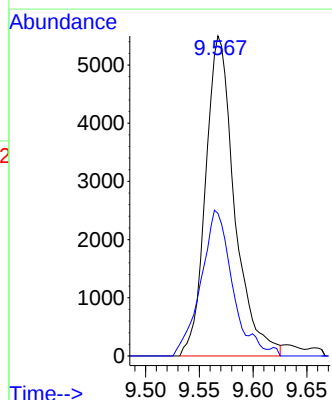
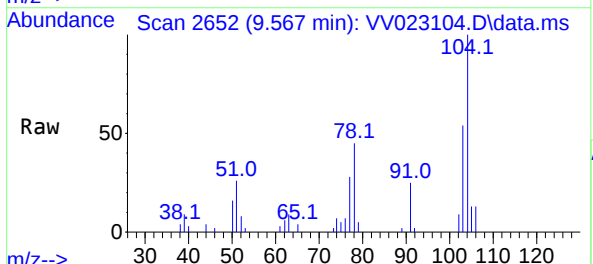
SAM

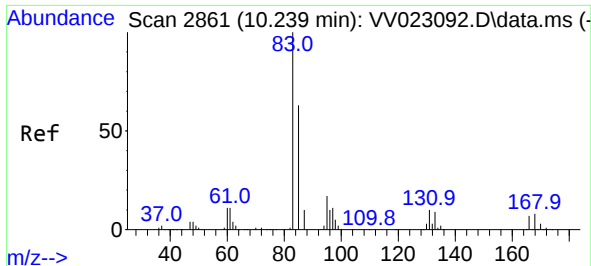
11/1/2021 6:39:59 PM



#55  
Styrene  
Concen: 1.817 ug/L  
RT: 9.567 min Scan# 2652  
Delta R.T. 0.009 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion:104 Resp: 10313  
Ion Ratio Lower Upper  
104 100  
78 44.6 29.8 55.4





#57  
1,1,2,2-Tetrachloroethane  
Concen: 2.567 ug/L  
RT: 10.242 min Scan# 2862  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

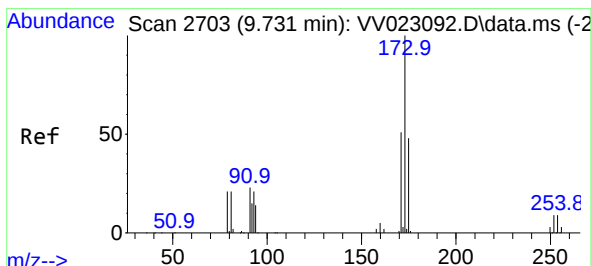
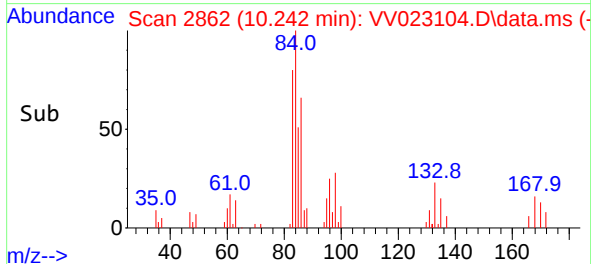
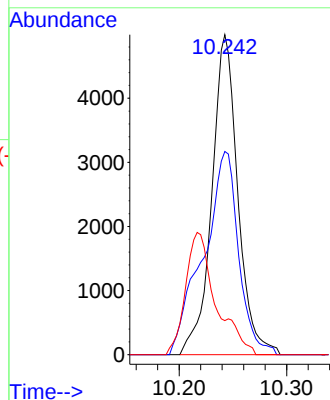
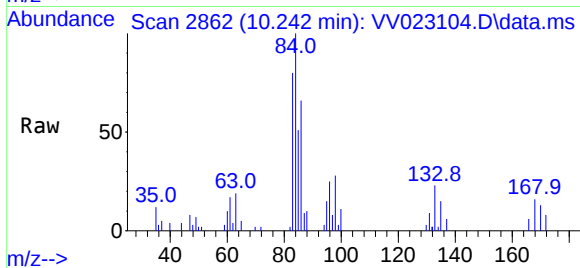
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 8395  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.5  | 44.7  | 83.1  |
| 131      | 10.7  | 7.8   | 11.8  |

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

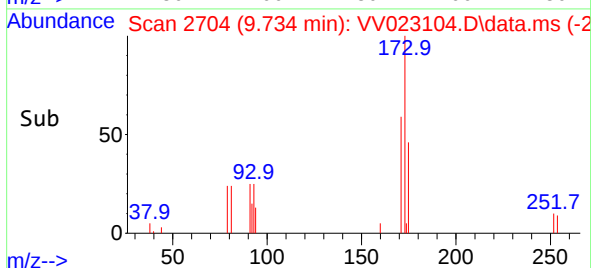
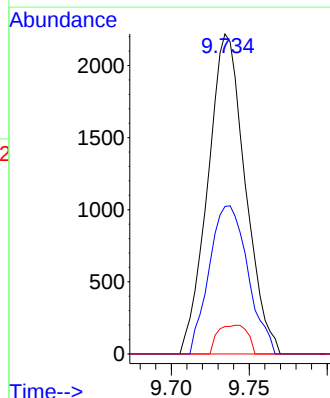
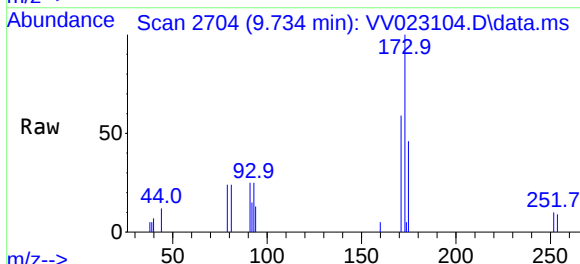
SAM

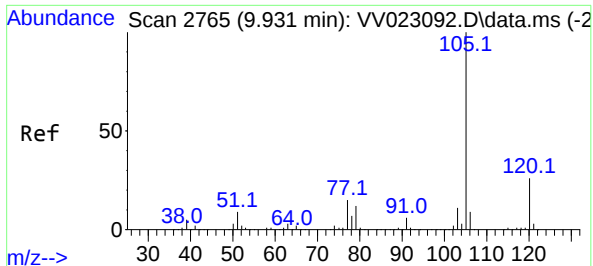
11/1/2021 6:39:59 PM



#59  
Bromoform  
Concen: 2.391 ug/L  
RT: 9.734 min Scan# 2704  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 3694  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 47.8  | 39.3  | 58.9  |
| 254      | 7.1   | 7.2   | 10.8# |





#60  
Isopropylbenzene  
Concen: 2.060 ug/L  
RT: 9.934 min Scan# 2766  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

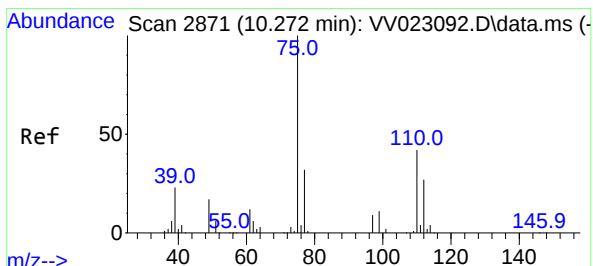
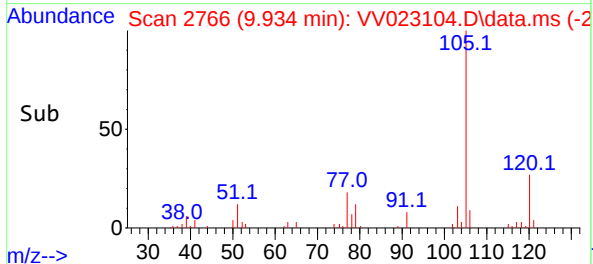
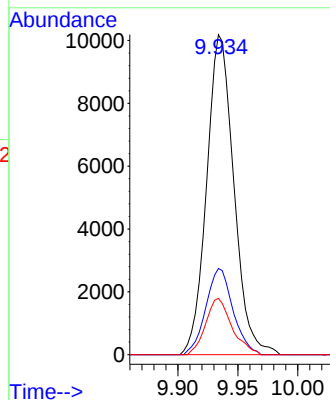
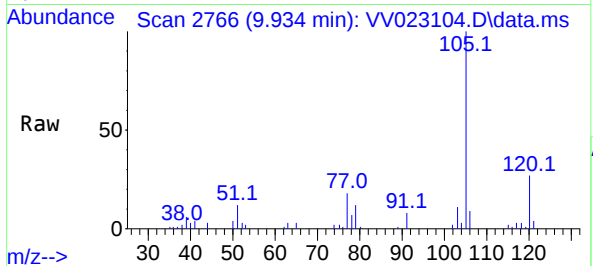
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 16075 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 26.8  | 21.0  | 31.6  |
| 77       | 17.0  | 12.2  | 18.2  |

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

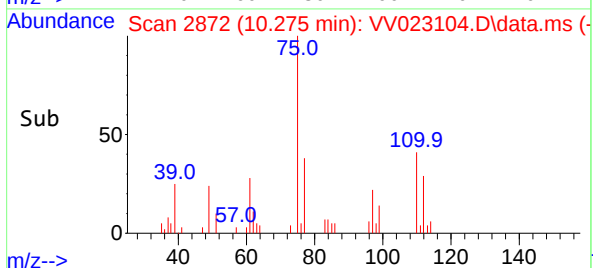
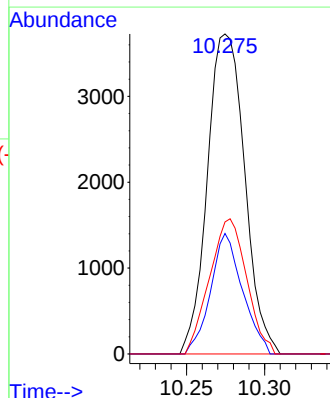
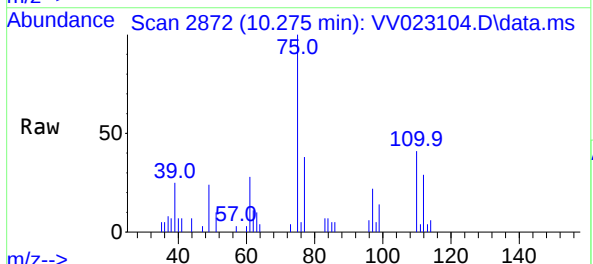
SAM

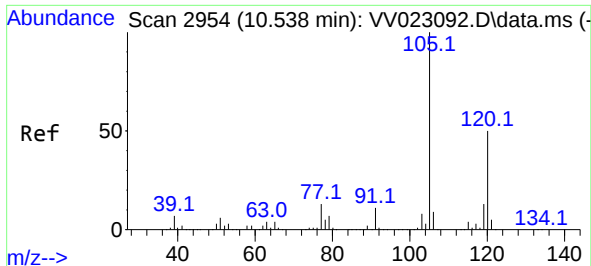
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#61  
1,2,3-Trichloropropane  
Concen: 2.708 ug/L  
RT: 10.275 min Scan# 2872  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 6198  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 32.2  | 25.6  | 38.4  |
| 110      | 41.9  | 33.1  | 49.7  |





#62  
1,3,5-Trimethylbenzene  
Concen: 2.115 ug/L  
RT: 10.541 min Scan# 2955  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

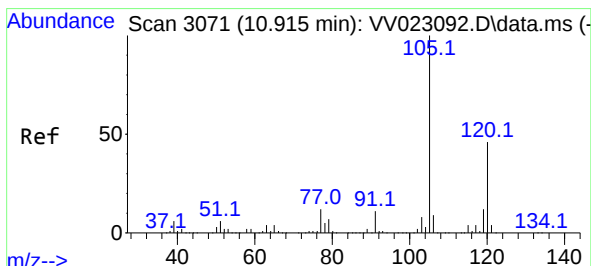
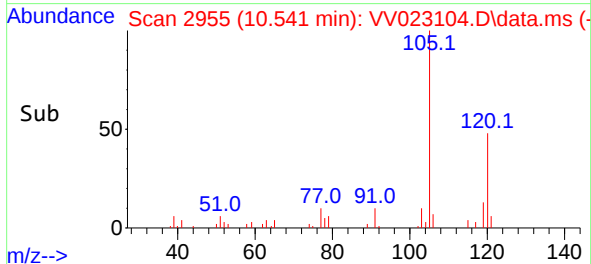
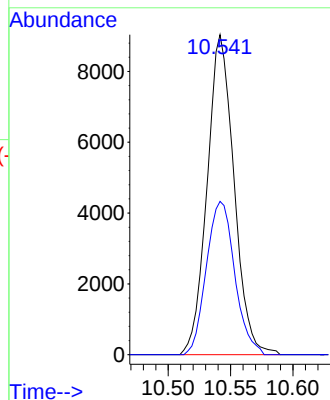
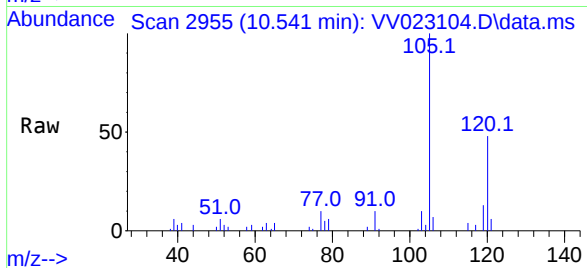
Tgt Ion:105 Resp: 13589  
Ion Ratio Lower Upper  
105 100  
120 50.4 39.6 59.4

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

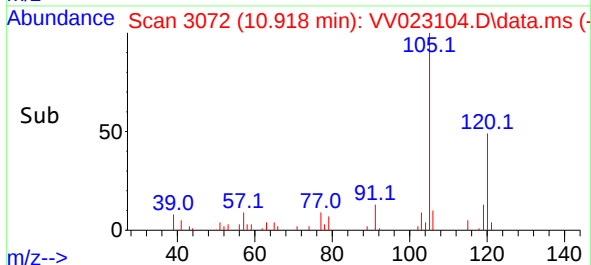
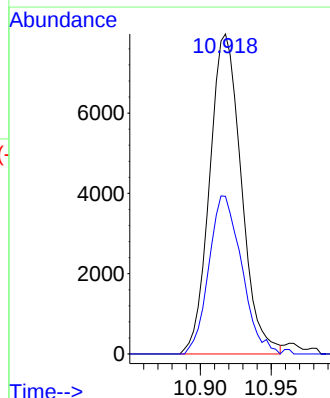
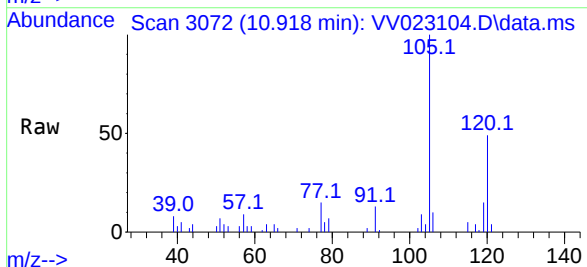
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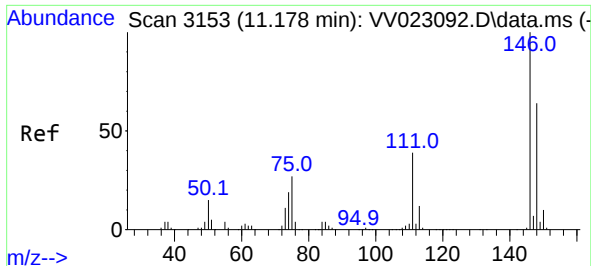
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#63  
1,2,4-Trimethylbenzene  
Concen: 1.922 ug/L  
RT: 10.918 min Scan# 3072  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion:105 Resp: 12398  
Ion Ratio Lower Upper  
105 100  
120 51.1 37.1 55.7





#64  
1,3-Dichlorobenzene  
Concen: 2.369 ug/L  
RT: 11.185 min Scan# 3155  
Delta R.T. 0.006 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

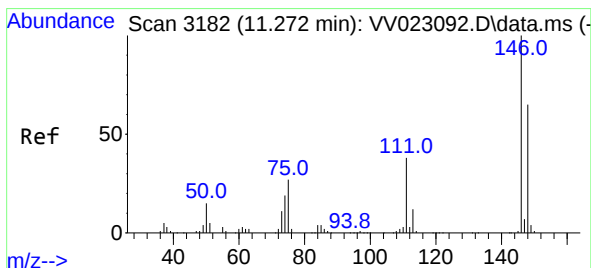
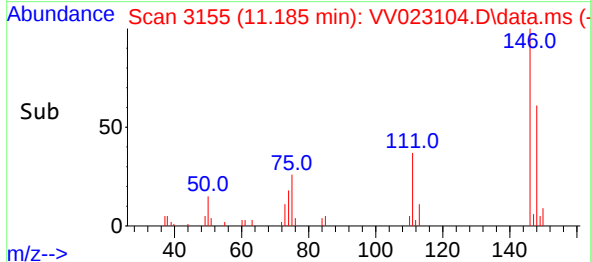
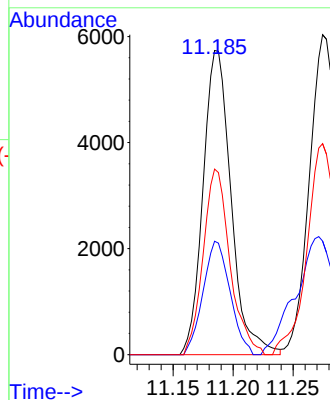
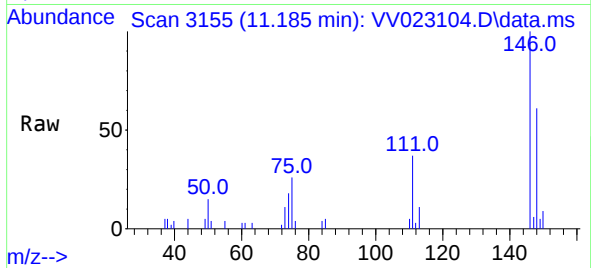
Tgt Ion:146 Resp: 9344  
Ion Ratio Lower Upper  
146 100  
111 37.3 27.3 50.7  
148 61.0 44.2 82.0

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

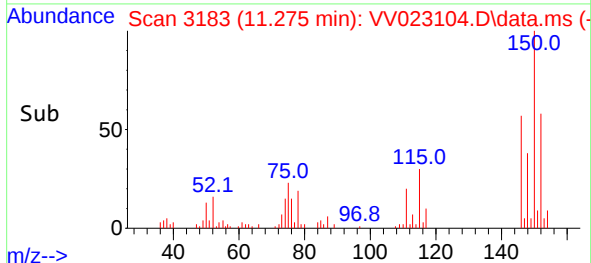
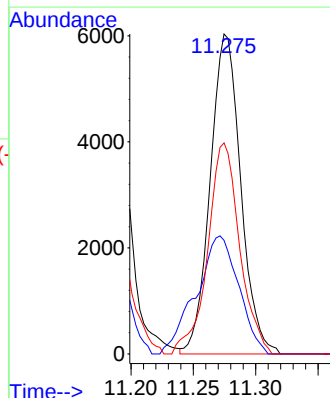
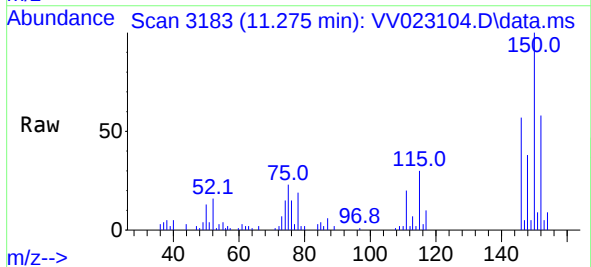
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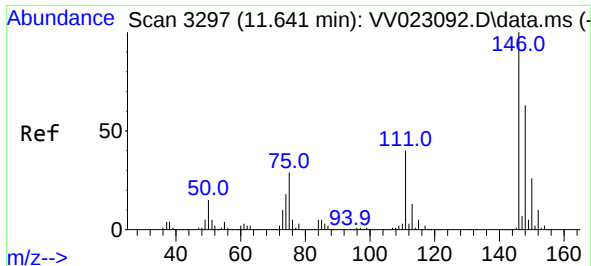
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#65  
1,4-Dichlorobenzene  
Concen: 2.503 ug/L  
RT: 11.275 min Scan# 3183  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion:146 Resp: 10285  
Ion Ratio Lower Upper  
146 100  
111 35.5 26.0 48.2  
148 65.9 44.7 82.9





#67  
1,2-Dichlorobenzene  
Concen: 2.640 ug/L  
RT: 11.644 min Scan# 3298  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

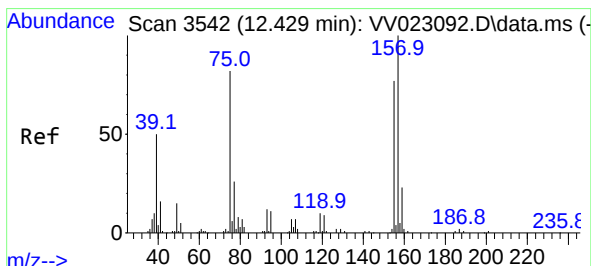
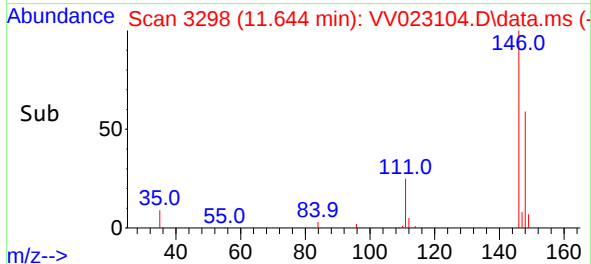
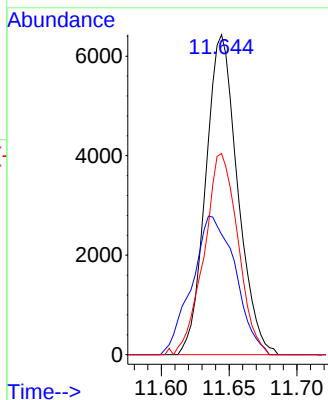
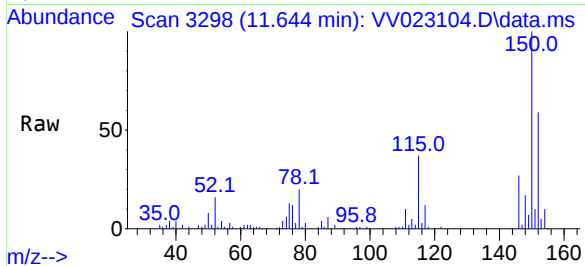
Tgt Ion:146 Resp: 10531  
Ion Ratio Lower Upper  
146 100  
111 37.6 32.2 48.2  
148 62.9 51.8 77.8

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Manual Integrations  
APPROVED

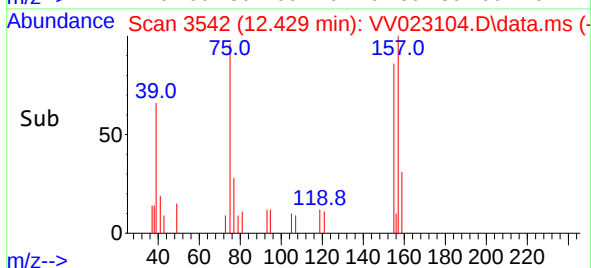
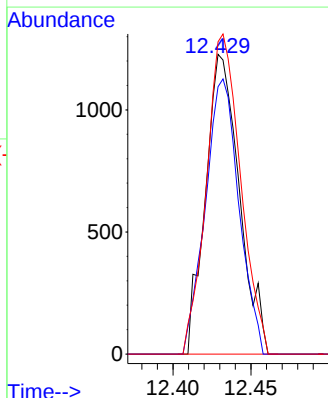
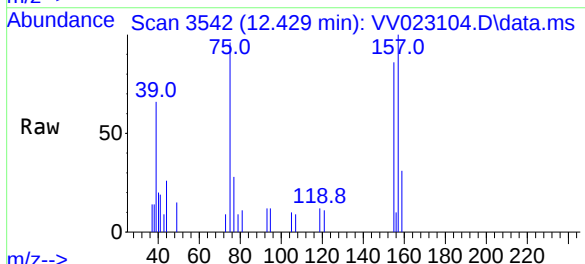
SAM

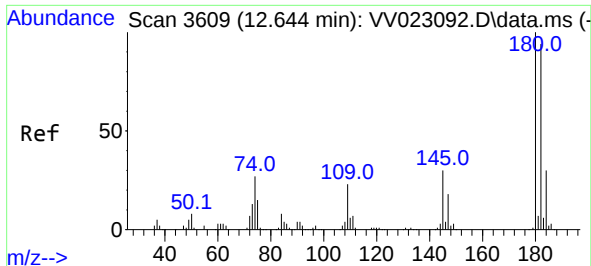
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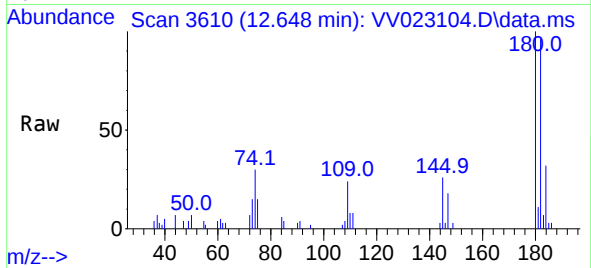
#68  
1,2-Dibromo-3-chloropropane  
Concen: 2.888 ug/L  
RT: 12.429 min Scan# 3542  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47

Tgt Ion: 75 Resp: 1845  
Ion Ratio Lower Upper  
75 100  
155 89.2 75.7 113.5  
157 104.2 96.4 144.6

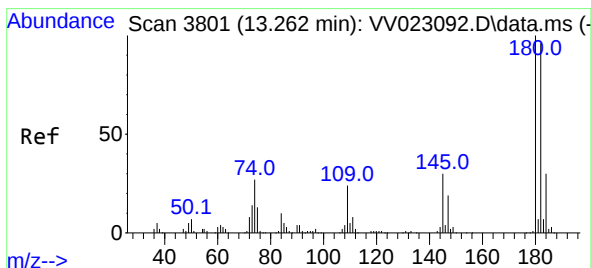
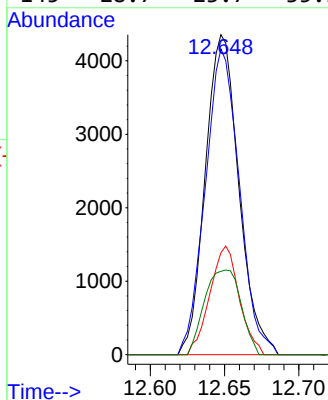
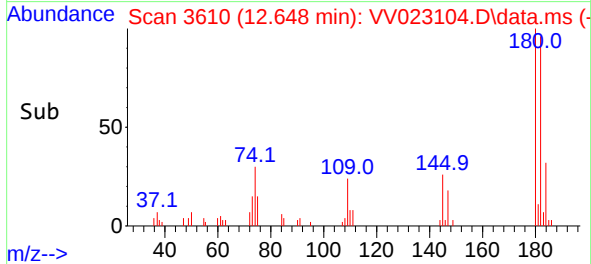




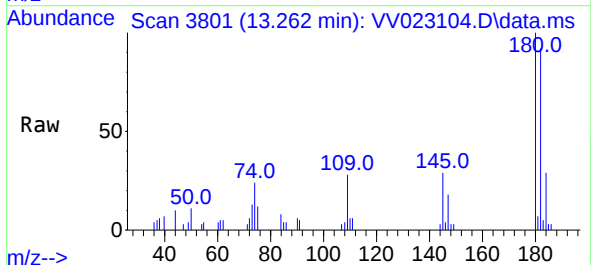
#69  
1,3,5-Trichlorobenzene  
Concen: 2.292 ug/L  
RT: 12.648 min Scan# 3610  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47



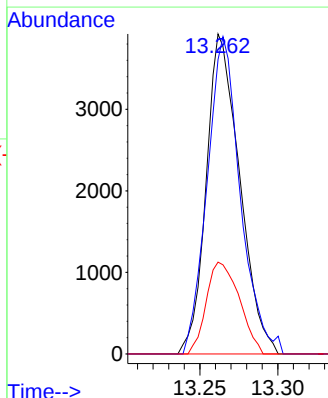
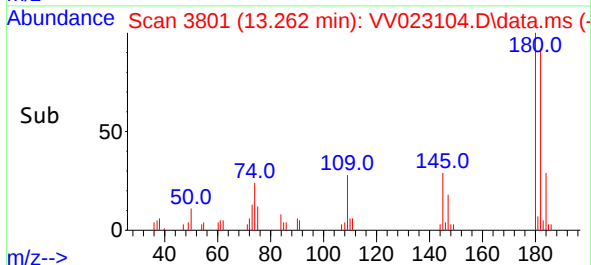
Tgt Ion:180 Resp: 6838  
Ion Ratio Lower Upper  
180 100  
182 97.0 76.6 115.0  
184 29.8 24.6 36.8  
145 28.7 23.7 35.5



#70  
1,2,4-trichlorobenzene  
Concen: 2.261 ug/L  
RT: 13.262 min Scan# 3801  
Delta R.T. -0.000 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47



Tgt Ion:180 Resp: 5846  
Ion Ratio Lower Upper  
180 100  
182 97.4 77.2 115.8  
145 28.3 23.8 35.6

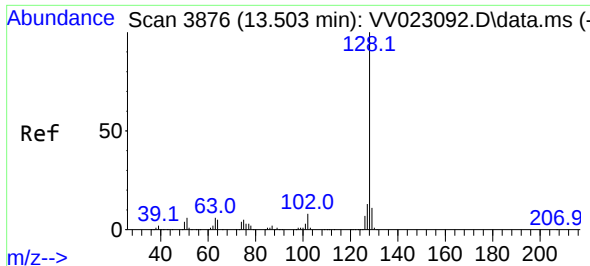


Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

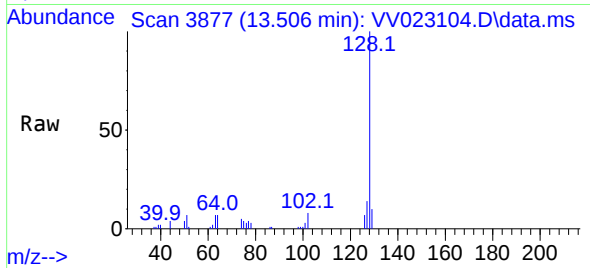
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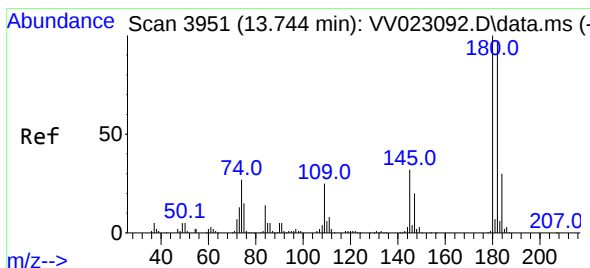
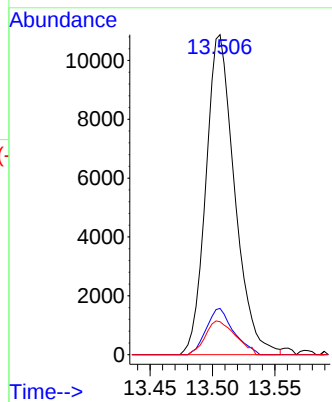
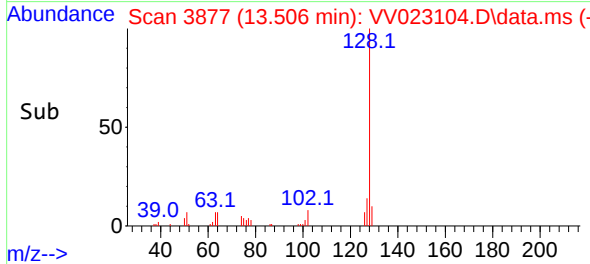
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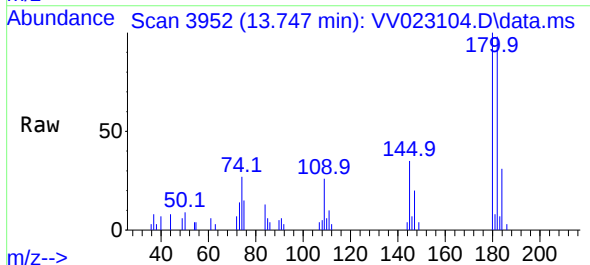
#71  
Naphthalene  
Concen: 2.105 ug/L  
RT: 13.506 min Scan# 3877  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47



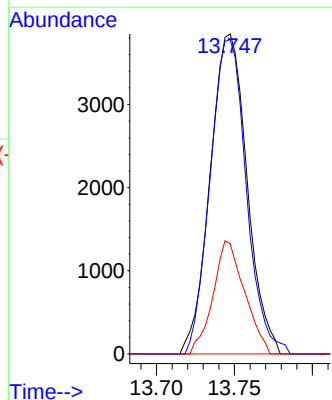
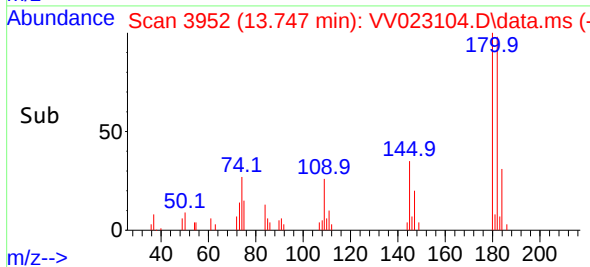
Tgt Ion:128 Resp: 17472  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.3 15.5  
129 11.0 8.7 13.1



#72  
1,2,3-Trichlorobenzene  
Concen: 2.310 ug/L  
RT: 13.747 min Scan# 3952  
Delta R.T. 0.003 min  
Lab File: VV023104.D  
Acq: 29 Oct 2021 14:47



Tgt Ion:180 Resp: 6314  
Ion Ratio Lower Upper  
180 100  
182 96.3 77.0 115.4  
145 30.3 26.4 39.6



Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

Manual Integrations  
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