

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112024\  
 Data File : VU061891.D  
 Acq On : 21 Nov 2024 02:48  
 Operator : MD/SY  
 Sample : P4885-11  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BG3Q7

Quant Time: Nov 21 03:32:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR112024WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Nov 21 03:29:06 2024  
 Response via : Initial Calibration

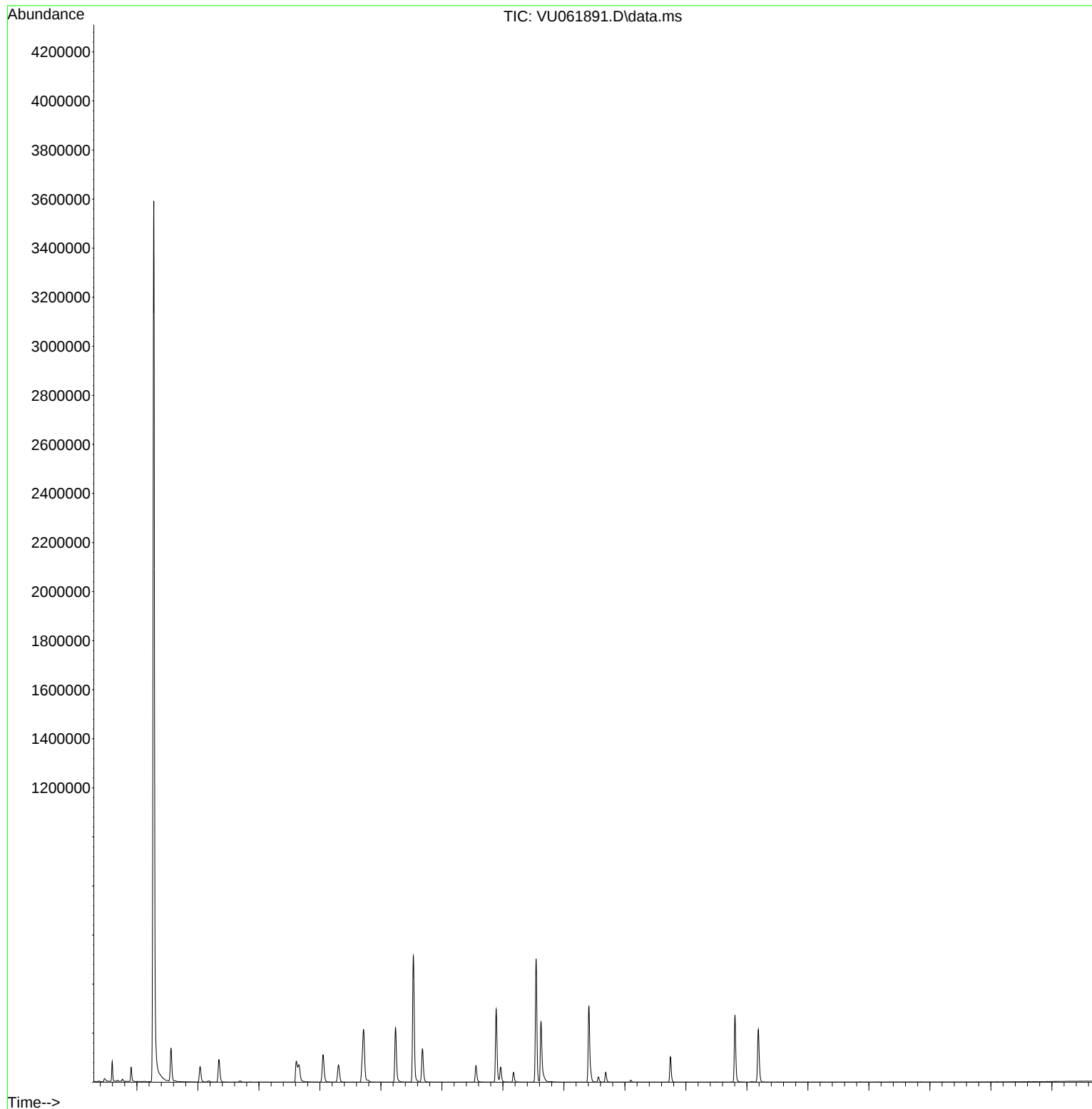
| Compound                      |  |  | R.T.           | QIon | Response | Conc        | Units | Dev(Min) |
|-------------------------------|--|--|----------------|------|----------|-------------|-------|----------|
| -----                         |  |  |                |      |          |             |       |          |
| Internal Standards            |  |  |                |      |          |             |       |          |
| 1) 1,4-Difluorobenzene        |  |  | 6.239          | 114  | 181778   | 5.000       | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          |  |  | 9.409          | 117  | 171952   | 5.000       | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    |  |  | 11.804         | 152  | 72648    | 5.000       | ug/L  | 0.00     |
|                               |  |  |                |      |          |             |       |          |
| System Monitoring Compounds   |  |  |                |      |          |             |       |          |
| 4) Vinyl Chloride-d3          |  |  | 1.596          | 65   | 53492    | 5.999       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 40 - 130 |      | Recovery | = 120.000%  |       |          |
| 7) Chloroethane-d5            |  |  | 1.904          | 69   | 42922    | 5.442       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 65 - 130 |      | Recovery | = 108.800%  |       |          |
| 11) 1,1-Dichloroethene-d2     |  |  | 2.557          | 65   | 23949    | 6.723       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 60 - 125 |      | Recovery | = 134.400%# |       |          |
| 20) 2-Butanone-d5             |  |  | 4.612          | 46   | 128973   | 46.062      | ug/L  | 0.00     |
| Spiked Amount 50.000          |  |  | Range 40 - 130 |      | Recovery | = 92.120%   |       |          |
| 24) Chloroform-d              |  |  | 5.052          | 84   | 105221   | 4.837       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 70 - 125 |      | Recovery | = 96.800%   |       |          |
| 26) 1,2-Dichloroethane-d4     |  |  | 5.692          | 65   | 55952    | 4.998       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 70 - 130 |      | Recovery | = 100.000%  |       |          |
| 32) Benzene-d6                |  |  | 5.718          | 84   | 207951   | 6.207       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 70 - 125 |      | Recovery | = 124.200%  |       |          |
| 36) 1,2-Dichloropropane-d6    |  |  | 6.679          | 67   | 66101    | 5.807       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 60 - 140 |      | Recovery | = 116.200%  |       |          |
| 41) Toluene-d8                |  |  | 7.891          | 98   | 208059   | 7.446       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 70 - 130 |      | Recovery | = 149.000%# |       |          |
| 43) trans-1,3-Dichloroprop... |  |  | 8.174          | 79   | 24217    | 5.746       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 55 - 130 |      | Recovery | = 115.000%  |       |          |
| 46) 2-Hexanone-d5             |  |  | 8.624          | 63   | 83293    | 43.301      | ug/L  | 0.00     |
| Spiked Amount 50.000          |  |  | Range 45 - 130 |      | Recovery | = 86.600%   |       |          |
| 56) 1,1,2,2-Tetrachloroeth... |  |  | 10.746         | 84   | 51433    | 4.521       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 65 - 120 |      | Recovery | = 90.400%   |       |          |
| 66) 1,2-Dichlorobenzene-d4    |  |  | 12.187         | 152  | 56572    | 5.266       | ug/L  | 0.00     |
| Spiked Amount 5.000           |  |  | Range 80 - 120 |      | Recovery | = 105.400%  |       |          |
|                               |  |  |                |      |          |             |       |          |
| Target Compounds              |  |  |                |      |          |             |       |          |
| Qvalue                        |  |  |                |      |          |             |       |          |
| 10) 1,1,2-Trichloro-1,2,2-... |  |  | 2.570          | 101  | 7066     | 0.539       | ug/L  | 95       |
| 16) Methylene chloride        |  |  | 3.036          | 84   | 31275    | 2.137       | ug/L  | 95       |
| 18) trans-1,2-Dichloroethene  |  |  | 3.345          | 96   | 39674    | 3.079       | ug/L  | 93       |
| 22) cis-1,2-Dichloroethene    |  |  | 4.657          | 96   | 32044    | 2.209       | ug/L  | 97       |
| 27) 1,2-Dichloroethane        |  |  | 5.798          | 62   | 4626     | 0.274       | ug/L  | 96       |
| 29) 1,1,1-Trichloroethane     |  |  | 5.306          | 97   | 51648    | 2.606       | ug/L  | 99       |
| 34) Trichloroethene           |  |  | 6.531          | 95   | 185275   | 13.368      | ug/L  | 98       |
| 42) Toluene                   |  |  | 7.962          | 91   | 47140    | 0.865       | ug/L  | 97       |
| 47) Tetrachloroethene         |  |  | 8.544          | 164  | 104217   | 10.339      | ug/L  | 98       |
| 51) Chlorobenzene             |  |  | 9.441          | 112  | 18210    | 0.488       | ug/L  | 98       |
| 52) Ethylbenzene              |  |  | 9.566          | 91   | 16623    | 0.255       | ug/L  | 96       |
| 53) m,p-Xylene                |  |  | 9.685          | 106  | 11862    | 0.515       | ug/L  | 96       |
| 67) 1,2-Dichlorobenzene       |  |  | 12.206         | 146  | 12001    | 0.549       | ug/L  | 94       |
| -----                         |  |  |                |      |          |             |       |          |

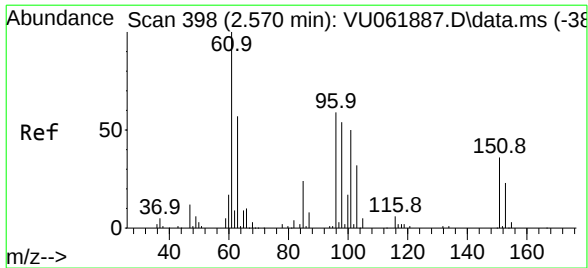
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 21 03:29:06 2024  
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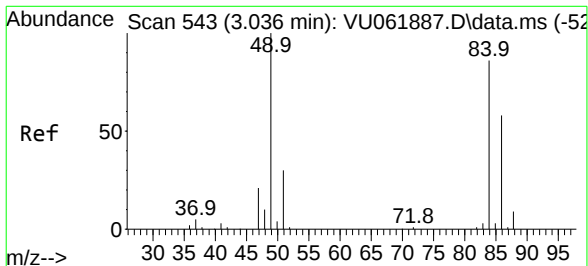
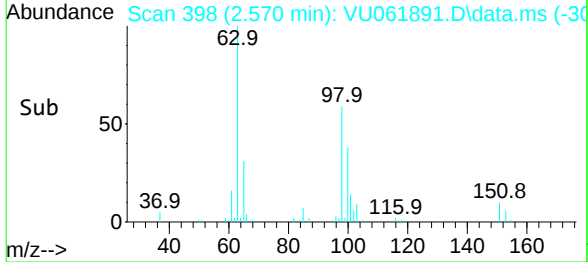
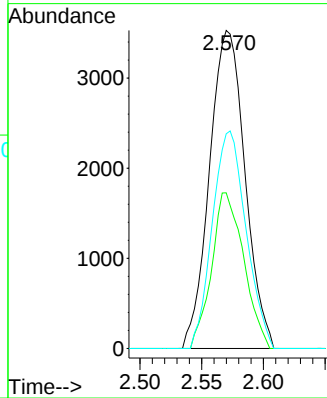
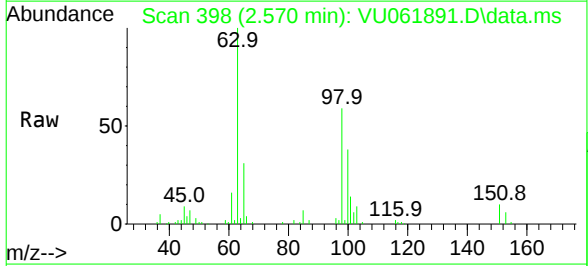




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.539 ug/L  
RT: 2.570 min Scan# 39  
Delta R.T. 0.000 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48

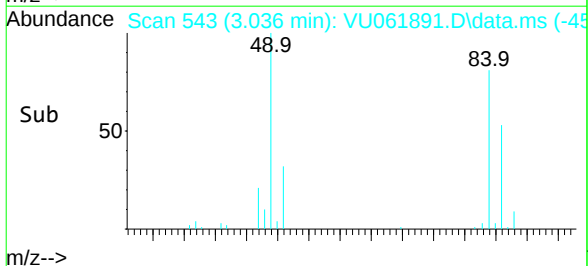
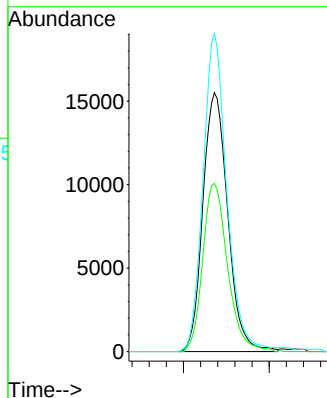
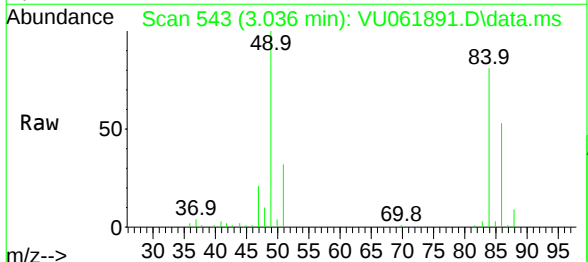
Instrument :  
MSVOA\_U  
ClientSampleId :  
BG3Q7

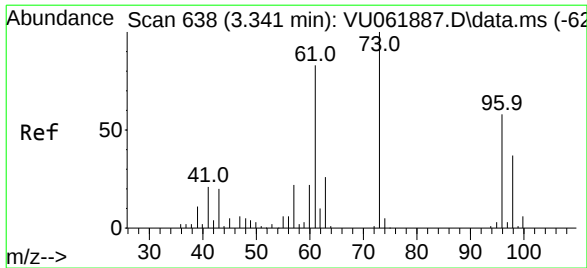
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 7066  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 44.2  | 38.0  | 57.0  |
| 151      | 64.9  | 55.3  | 82.9  |



#16  
Methylene chloride  
Concen: 2.137 ug/L  
RT: 3.036 min Scan# 543  
Delta R.T. 0.000 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48

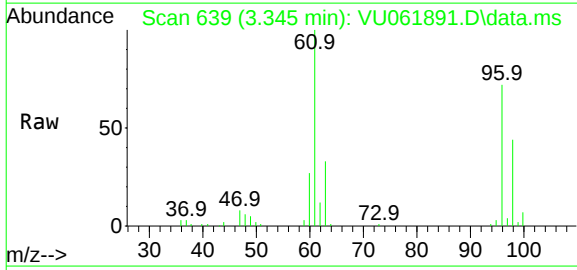
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 31275 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 86       | 64.9  | 43.5  | 80.7  |
| 49       | 122.8 | 81.9  | 152.1 |



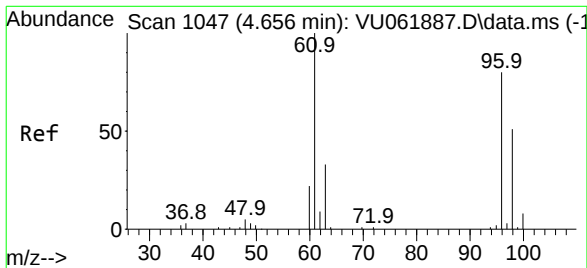
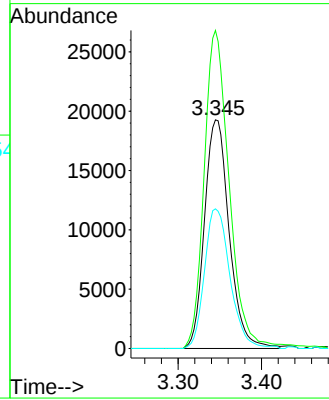
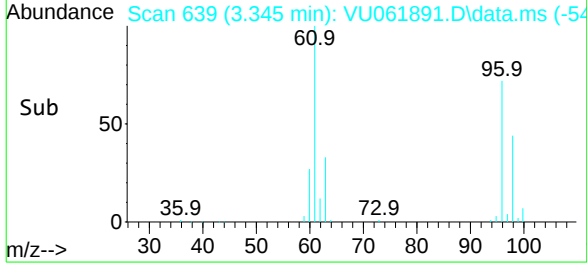


#18  
trans-1,2-Dichloroethene  
Concen: 3.079 ug/L  
RT: 3.345 min Scan# 638  
Delta R.T. 0.003 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48

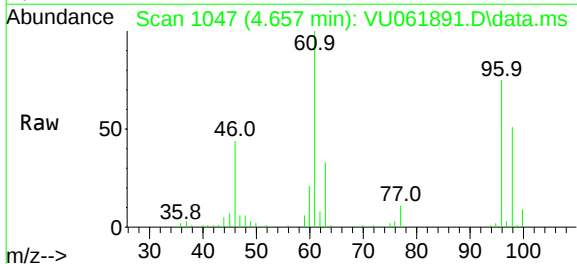
Instrument :  
MSVOA\_U  
ClientSampleId :  
BG3Q7



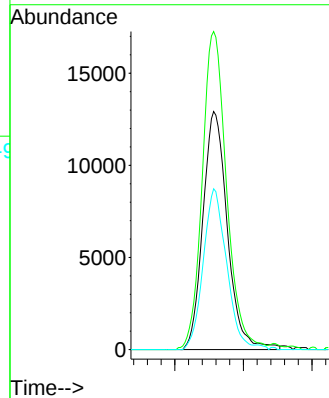
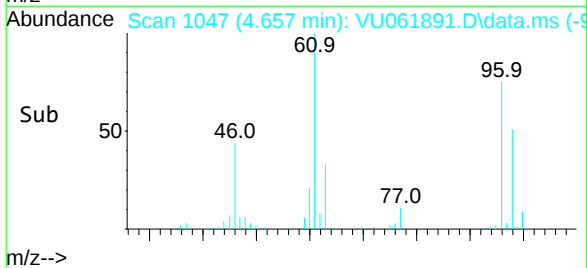
Tgt Ion: 96 Resp: 39674  
Ion Ratio Lower Upper  
96 100  
61 139.1 104.2 193.4  
98 61.1 45.7 84.9

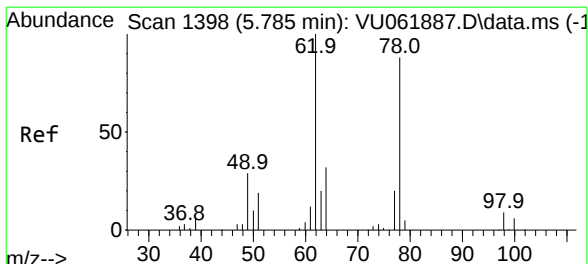


#22  
cis-1,2-Dichloroethene  
Concen: 2.209 ug/L  
RT: 4.657 min Scan# 1047  
Delta R.T. 0.000 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48



Tgt Ion: 96 Resp: 32044  
Ion Ratio Lower Upper  
96 100  
61 133.6 92.0 170.8  
98 67.5 44.5 82.7

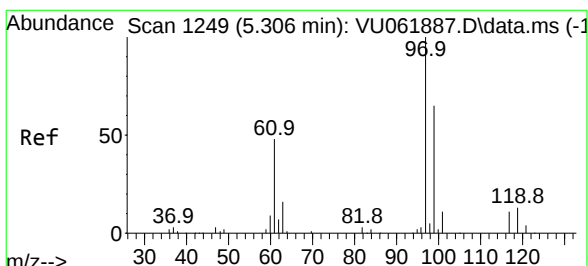
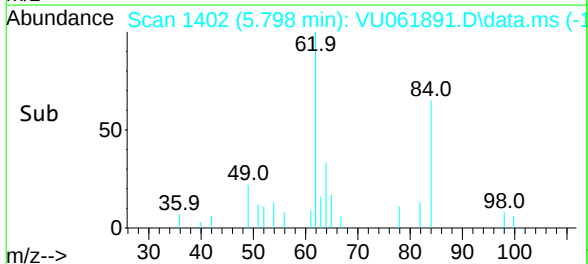
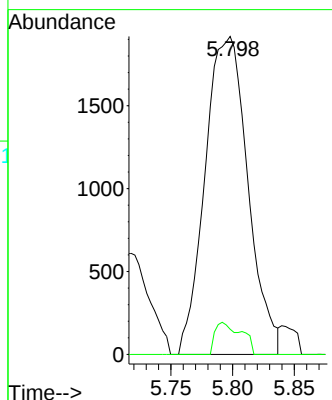
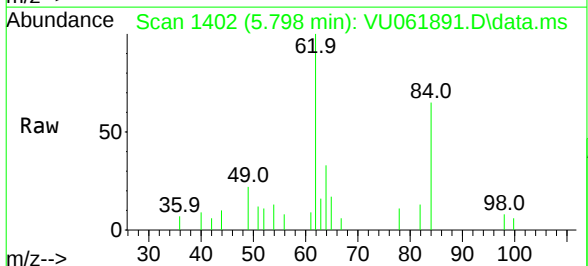




#27  
 1,2-Dichloroethane  
 Concen: 0.274 ug/L  
 RT: 5.798 min Scan# 1402  
 Delta R.T. 0.013 min  
 Lab File: VU061891.D  
 Acq: 21 Nov 2024 02:48

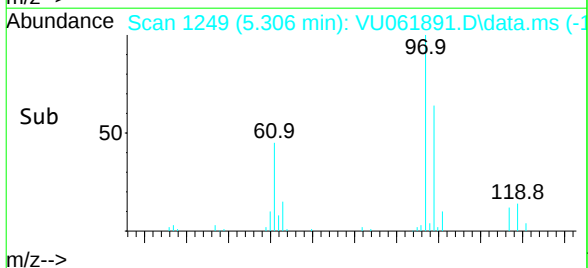
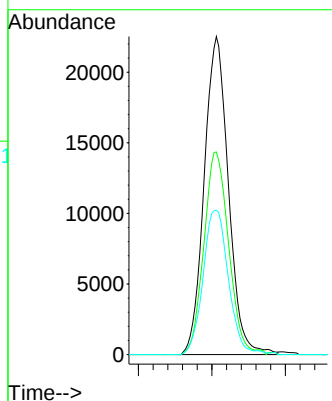
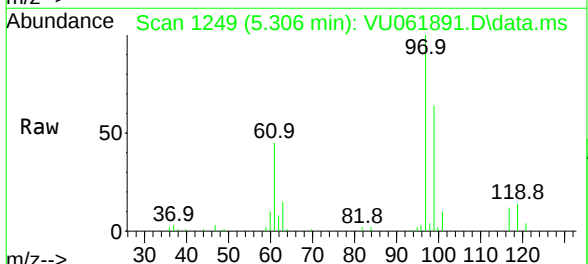
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 ClientSampleId :  
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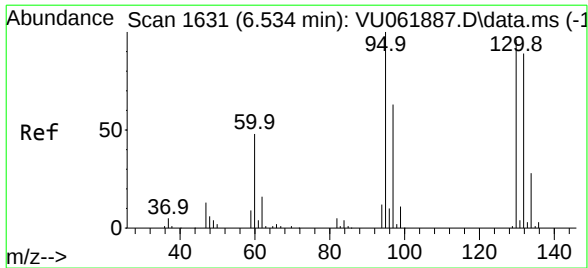
Tgt Ion: 62 Resp: 4626  
 Ion Ratio Lower Upper  
 62 100  
 98 7.9 7.4 11.0



#29  
 1,1,1-Trichloroethane  
 Concen: 2.606 ug/L  
 RT: 5.306 min Scan# 1249  
 Delta R.T. 0.000 min  
 Lab File: VU061891.D  
 Acq: 21 Nov 2024 02:48

Tgt Ion: 97 Resp: 51648  
 Ion Ratio Lower Upper  
 97 100  
 99 65.1 51.4 77.2  
 61 47.4 37.8 56.6

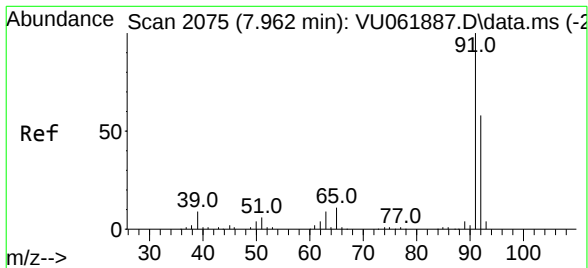
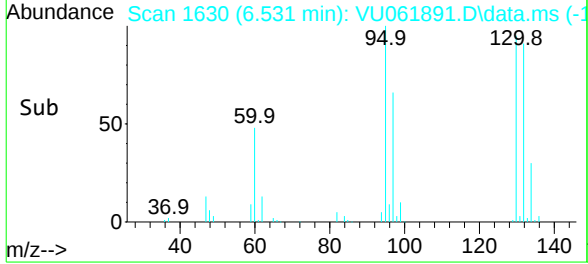
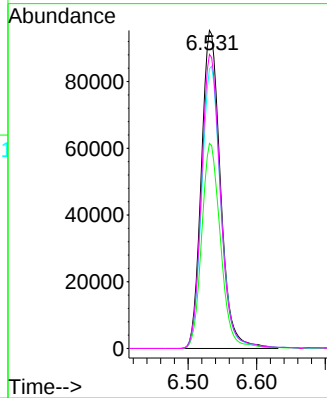
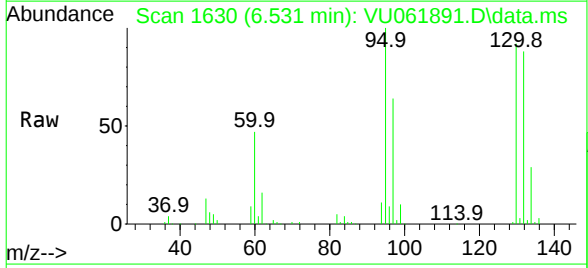




#34  
 Trichloroethene  
 Concen: 13.368 ug/L  
 RT: 6.531 min Scan# 1631  
 Delta R.T. -0.003 min  
 Lab File: VU061891.D  
 Acq: 21 Nov 2024 02:48

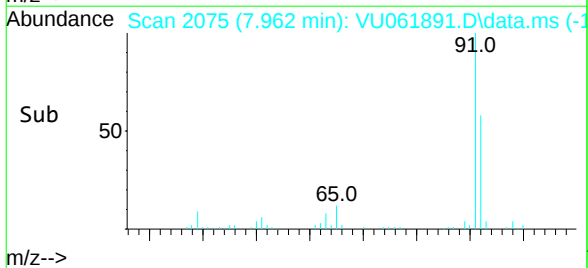
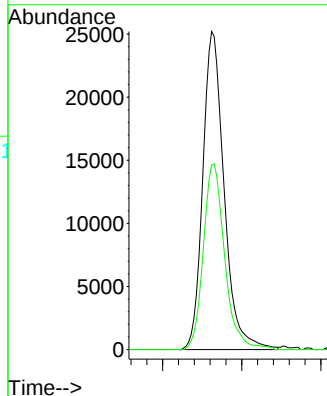
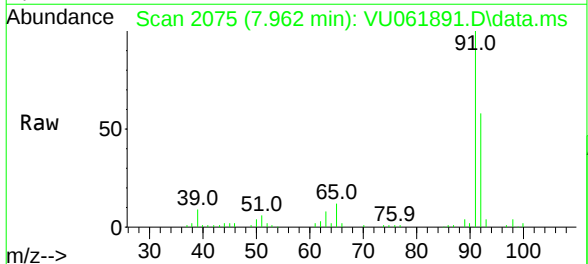
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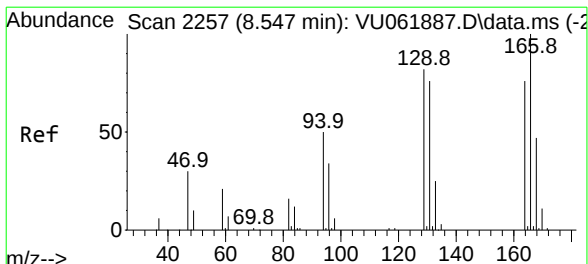
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|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 185275 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.5  | 45.9  | 85.3   |
| 132      | 87.9  | 63.8  | 118.4  |
| 130      | 92.5  | 65.5  | 121.7  |



#42  
 Toluene  
 Concen: 0.865 ug/L  
 RT: 7.962 min Scan# 2075  
 Delta R.T. 0.000 min  
 Lab File: VU061891.D  
 Acq: 21 Nov 2024 02:48

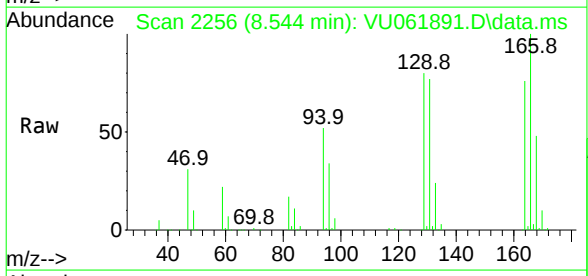
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 47140 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 58.1  | 39.0  | 72.4  |





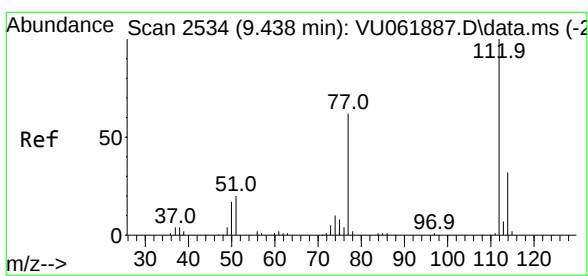
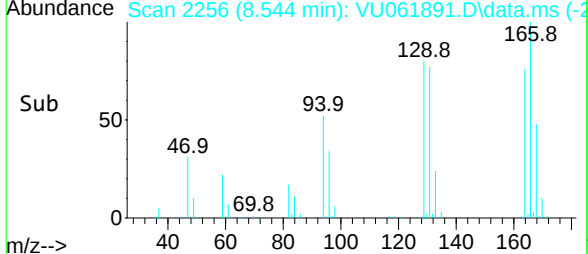
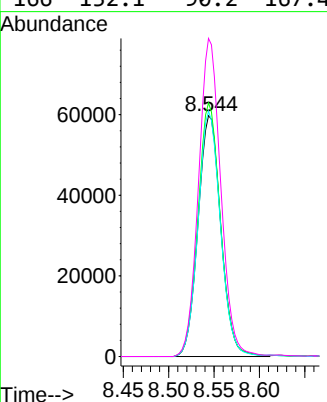
#47  
 Tetrachloroethene  
 Concen: 10.339 ug/L  
 RT: 8.544 min Scan# 2256  
 Delta R.T. -0.003 min  
 Lab File: VU061891.D  
 Acq: 21 Nov 2024 02:48

Instrument :  
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Tgt Ion:164 Resp: 104217

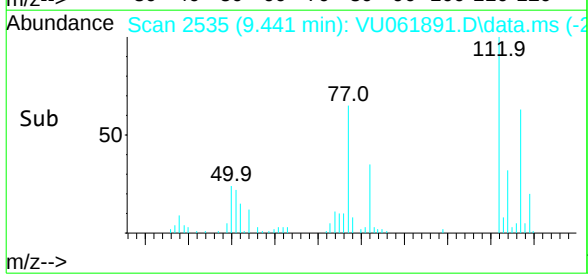
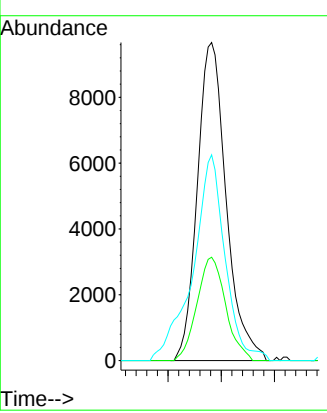
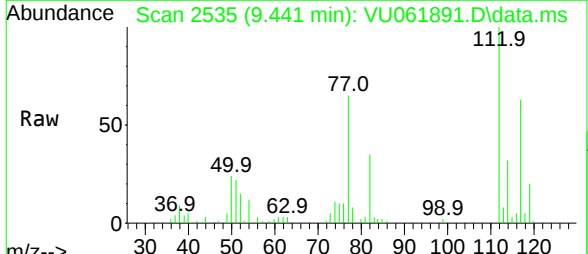
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 105.3 | 73.2  | 136.0 |
| 131 | 101.9 | 72.3  | 134.3 |
| 166 | 132.1 | 90.2  | 167.4 |

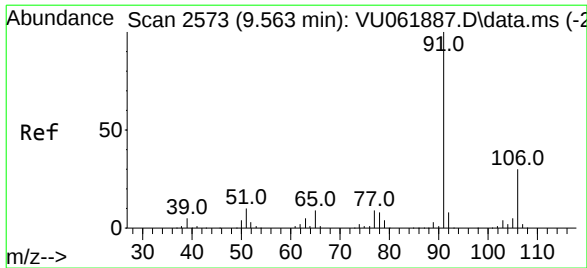


#51  
 Chlorobenzene  
 Concen: 0.488 ug/L  
 RT: 9.441 min Scan# 2535  
 Delta R.T. 0.003 min  
 Lab File: VU061891.D  
 Acq: 21 Nov 2024 02:48

Tgt Ion:112 Resp: 18210

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 32.5  | 23.0  | 42.6  |
| 77  | 64.7  | 50.5  | 75.7  |

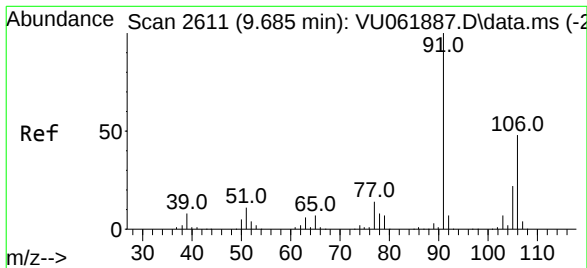
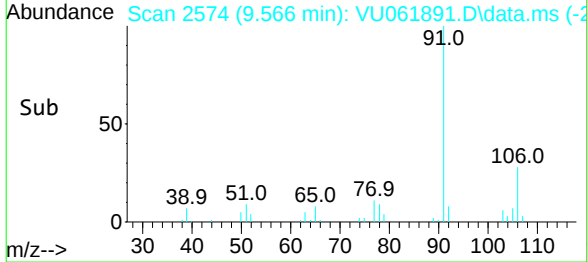
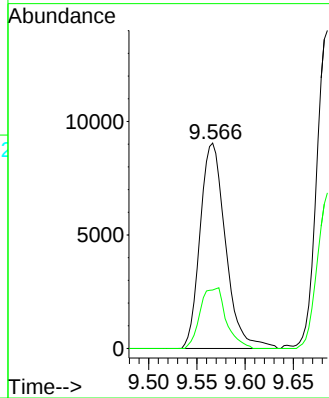
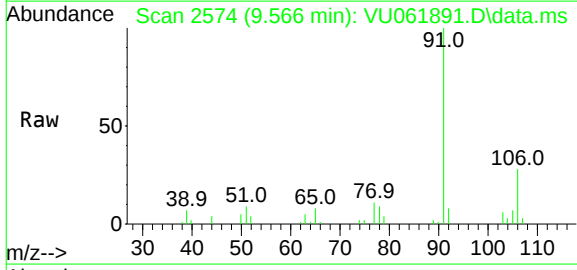




#52  
Ethylbenzene  
Concen: 0.255 ug/L  
RT: 9.566 min Scan# 2573  
Delta R.T. 0.003 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48

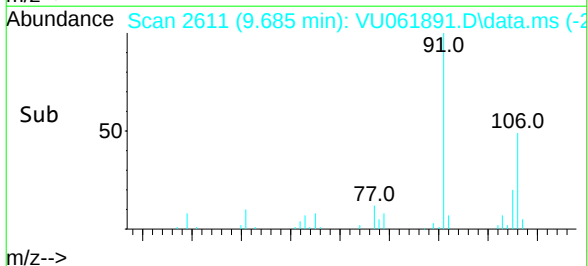
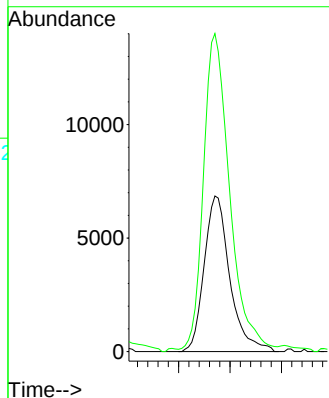
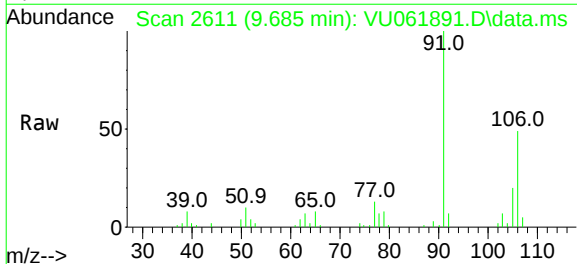
Instrument :  
MSVOA\_U  
ClientSampleId :  
BG3Q7

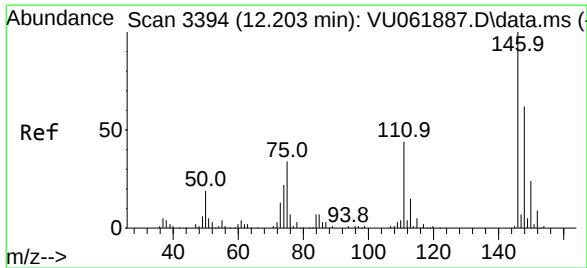
Tgt Ion: 91 Resp: 16623  
Ion Ratio Lower Upper  
91 100  
106 28.5 21.6 40.0



#53  
m,p-Xylene  
Concen: 0.515 ug/L  
RT: 9.685 min Scan# 2611  
Delta R.T. 0.000 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48

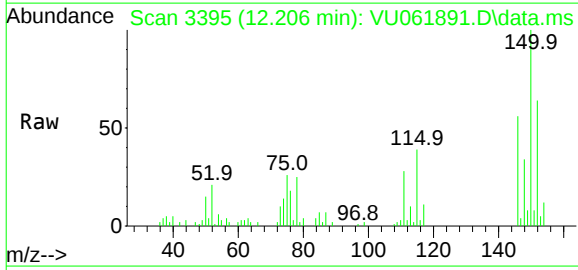
Tgt Ion: 106 Resp: 11862  
Ion Ratio Lower Upper  
106 100  
91 204.3 147.6 274.0





#67  
1,2-Dichlorobenzene  
Concen: 0.549 ug/L  
RT: 12.206 min Scan# 33  
Delta R.T. 0.003 min  
Lab File: VU061891.D  
Acq: 21 Nov 2024 02:48

Instrument :  
MSVOA\_U  
ClientSampleId :  
BG3Q7



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 12001 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 50.0  | 36.0  | 54.0  |
| 148      | 61.6  | 52.3  | 78.5  |

