

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041823\  
 Data File : VU053771.D  
 Acq On : 18 Apr 2023 19:54  
 Operator : JC/MD  
 Sample : 02340-12  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BHE13

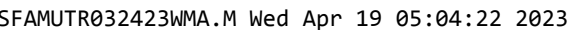
Quant Time: Apr 19 05:04:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR032423WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Apr 19 04:58:28 2023  
 Response via : Initial Calibration

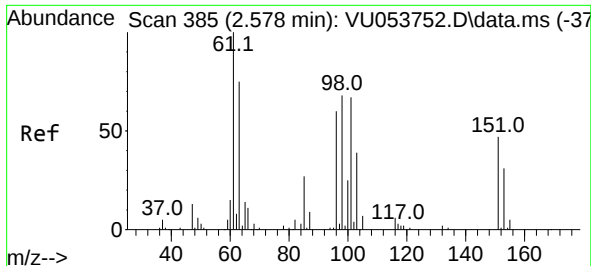
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243  | 114   | 140868   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 135140   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 65276    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 41812    | 4.315    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 86.200%  |
| 7) Chloroethane-d5            | 1.912  | 69    | 37540    | 4.268    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 85.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.562  | 65    | 15591    | 3.777    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 75.600%  |
| 20) 2-Butanone-d5             | 4.623  | 46    | 93111    | 41.941   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 83.880%  |
| 24) Chloroform-d              | 5.057  | 84    | 80502    | 4.481    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 41854    | 4.546    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.000%  |
| 32) Benzene-d6                | 5.723  | 84    | 157388   | 4.110    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 82.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 52331    | 4.484    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 89.600%  |
| 41) Toluene-d8                | 7.896  | 98    | 143189   | 3.963    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 79.200%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 18589    | 4.151    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 83.000%  |
| 46) 2-Hexanone-d5             | 8.629  | 63    | 81309    | 44.699   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 89.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 41972    | 4.321    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 86.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 55472    | 4.724    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.400%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575  | 101   | 2926     | 0.333    | ug/L # | 84       |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 118227   | 14.823   | ug/L # | 70       |
| 19) 1,1-Dichloroethane        | 3.864  | 63    | 242838   | 15.912   | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.662  | 96    | 35850    | 3.212    | ug/L   | 97       |
| 25) Chloroform                | 5.086  | 83    | 23909    | 1.523    | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 5.790  | 62    | 2666     | 0.271    | ug/L # | 77       |
| 29) 1,1,1-Trichloroethane     | 5.311  | 97    | 39155    | 2.935    | ug/L   | 96       |
| 31) Carbon tetrachloride      | 5.314  | 117   | 5097     | 0.451    | ug/L   | 93       |
| 34) Trichloroethene           | 6.536  | 95    | 230326   | 23.886   | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.687  | 83    | 11799    | 0.713    | ug/L # | 22       |
| 37) 1,2-Dichloropropane       | 6.684  | 63    | 5554     | 0.581    | ug/L # | 89       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97    | 720      | 0.106    | ug/L # | 83       |
| 47) Tetrachloroethene         | 8.549  | 164   | 177937   | 25.115   | ug/L   | 94       |
| 48) 2-Hexanone                | 8.687  | 43    | 3105     | 0.898    | ug/L # | 55       |
| 49) Dibromochloromethane      | 8.549  | 129   | 168621   | 25.119   | ug/L # | 12       |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75    | 894      | 0.165    | ug/L # | 63       |
| -----                         |        |       |          |          |        |          |

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

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
BHE13

Quant Time: Apr 19 05:04:13 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR032423WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Apr 19 04:58:28 2023  
Response via : Initial Calibration

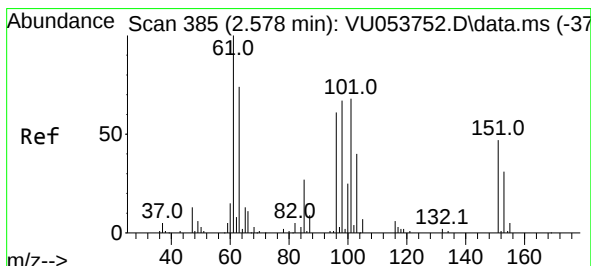
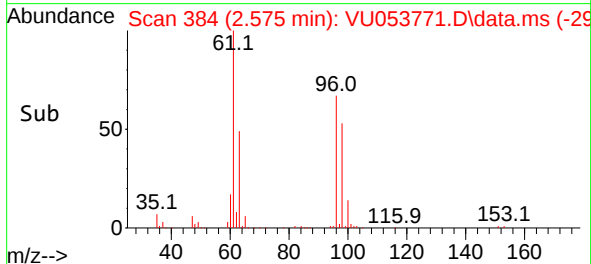
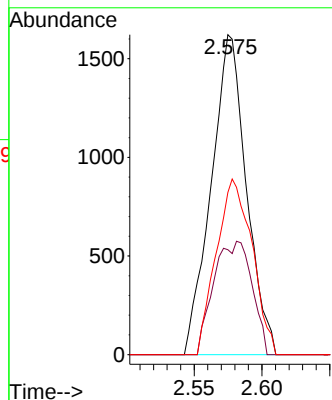
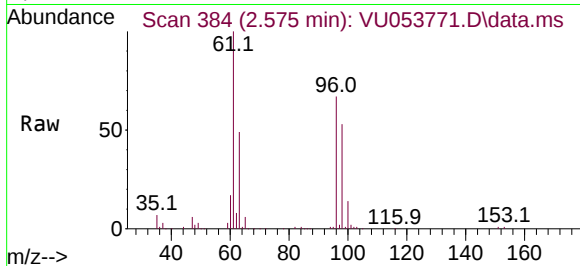




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.333 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. -0.003 min  
 Lab File: VU053771.D  
 Acq: 18 Apr 2023 19:54

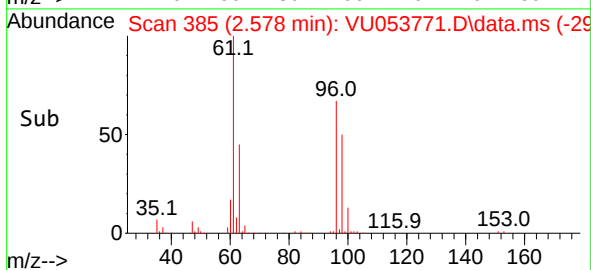
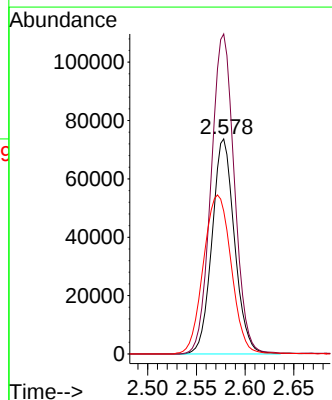
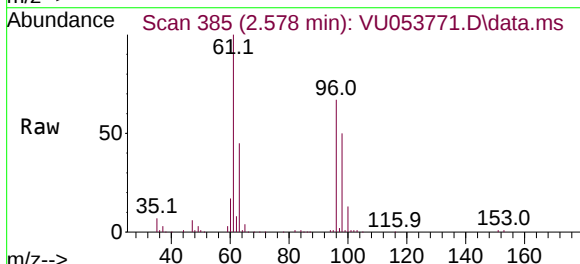
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BHE13

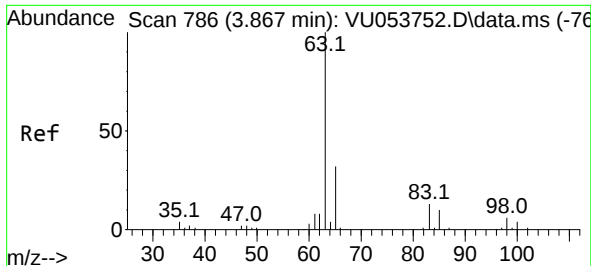
Tgt Ion:101 Resp: 2926  
 Ion Ratio Lower Upper  
 101 100  
 85 38.6 37.0 55.4  
 151 55.9 56.8 85.2#



#12  
 1,1-Dichloroethene  
 Concen: 14.823 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU053771.D  
 Acq: 18 Apr 2023 19:54

Tgt Ion: 96 Resp: 118227  
 Ion Ratio Lower Upper  
 96 100  
 61 148.8 116.8 216.8  
 63 66.4 88.6 164.6#





#19

1,1-Dichloroethane

Concen: 15.912 ug/L

RT: 3.864 min Scan# 786

Delta R.T. -0.003 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Instrument :

MSVOA\_U

ClientSampleId :

BHE13

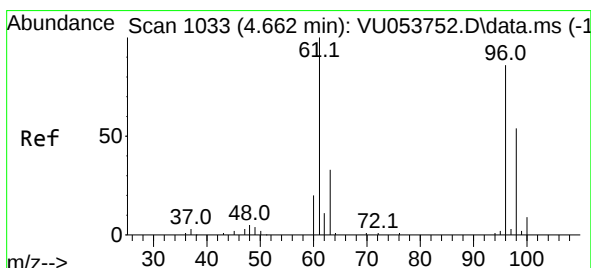
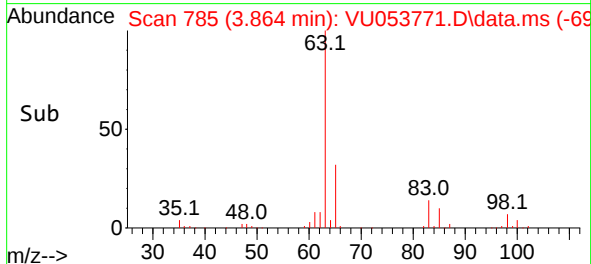
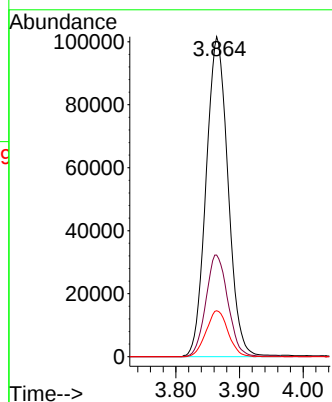
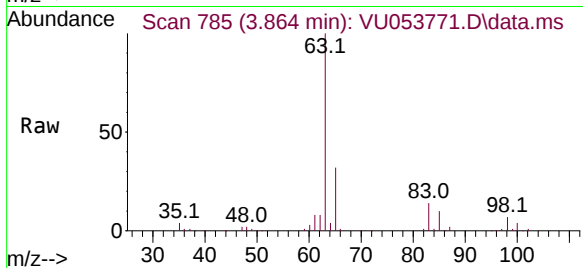
Tgt Ion: 63 Resp: 242838

Ion Ratio Lower Upper

63 100

65 31.7 21.7 40.3

83 14.4 8.1 15.1



#22

cis-1,2-Dichloroethene

Concen: 3.212 ug/L

RT: 4.662 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

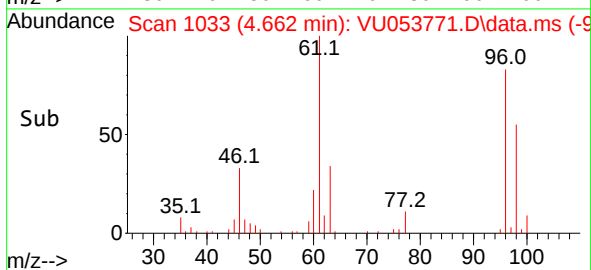
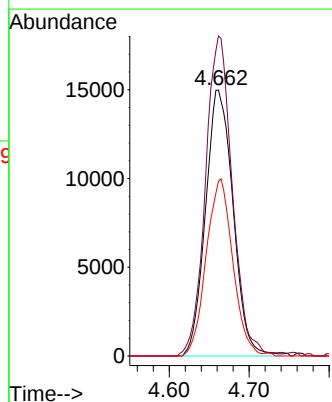
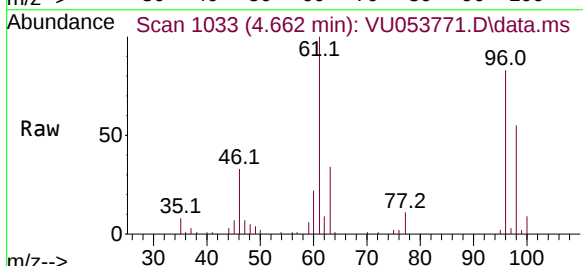
Tgt Ion: 96 Resp: 35850

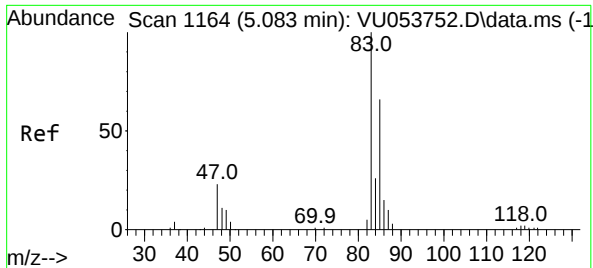
Ion Ratio Lower Upper

96 100

61 120.4 86.6 160.8

98 65.7 47.7 88.5

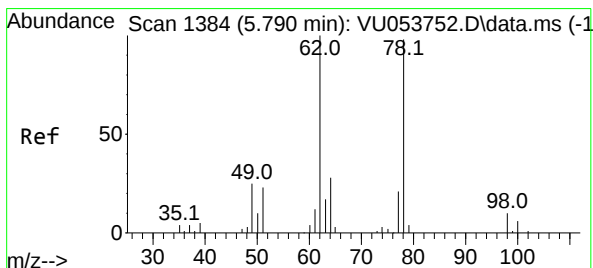
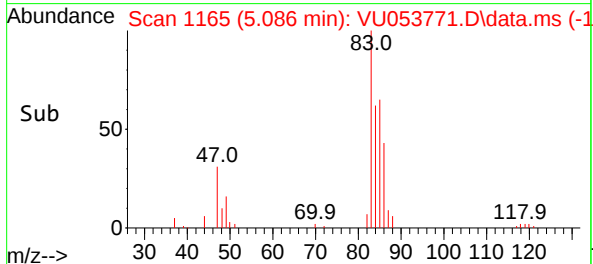
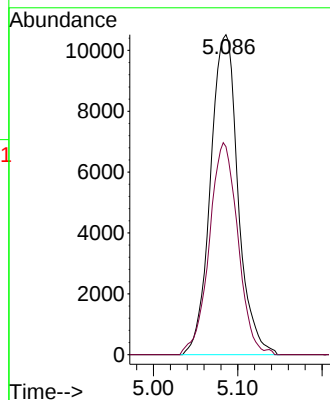
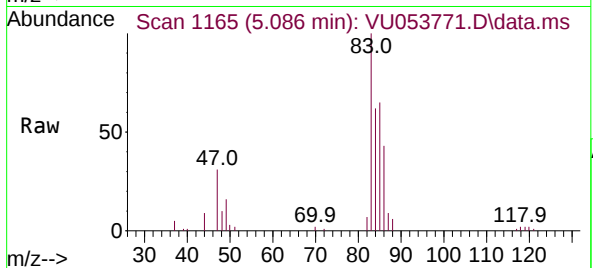




#25  
Chloroform  
Concen: 1.523 ug/L  
RT: 5.086 min Scan# 1164  
Delta R.T. 0.003 min  
Lab File: VU053771.D  
Acq: 18 Apr 2023 19:54

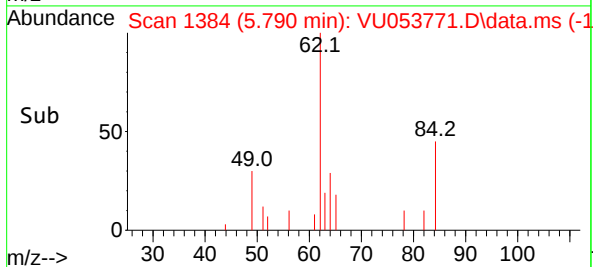
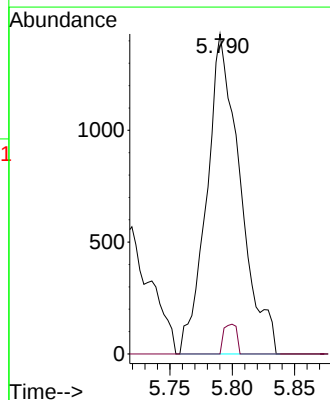
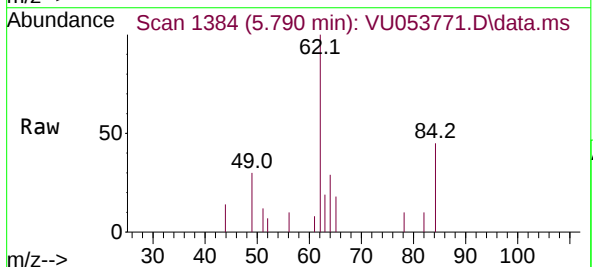
Instrument :  
MSVOA\_U  
ClientSampleId :  
BHE13

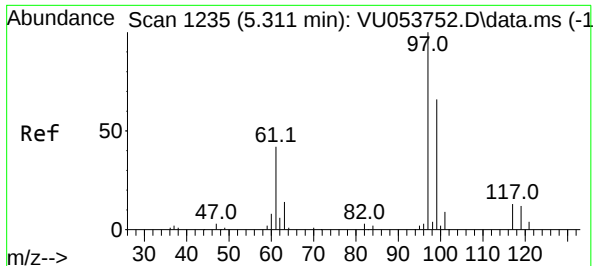
Tgt Ion: 83 Resp: 23909  
Ion Ratio Lower Upper  
83 100  
85 65.0 47.3 87.9



#27  
1,2-Dichloroethane  
Concen: 0.271 ug/L  
RT: 5.790 min Scan# 1384  
Delta R.T. 0.000 min  
Lab File: VU053771.D  
Acq: 18 Apr 2023 19:54

Tgt Ion: 62 Resp: 2666  
Ion Ratio Lower Upper  
62 100  
98 0.0 6.4 9.6#





#29

1,1,1-Trichloroethane

Concen: 2.935 ug/L

RT: 5.311 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Instrument :

MSVOA\_U

ClientSampleId :

BHE13

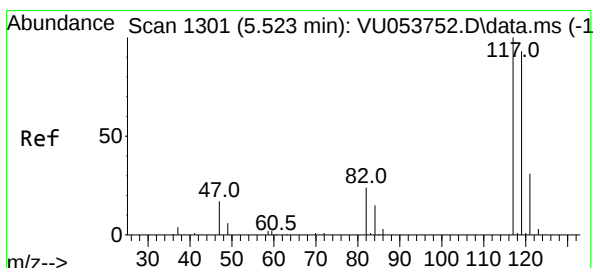
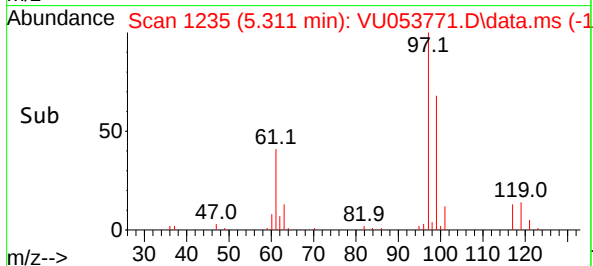
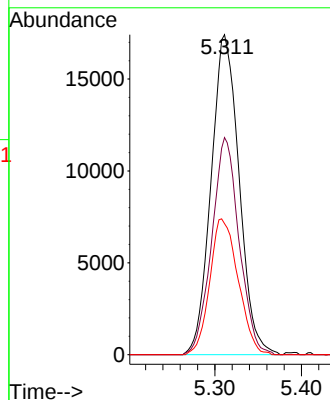
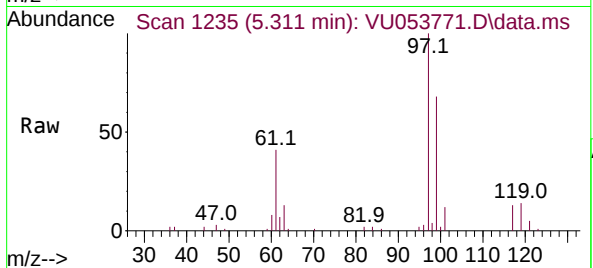
Tgt Ion: 97 Resp: 39155

Ion Ratio Lower Upper

97 100

99 66.2 49.9 74.9

61 43.0 35.7 53.5



#31

Carbon tetrachloride

Concen: 0.451 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.209 min

Lab File: VU053771.D

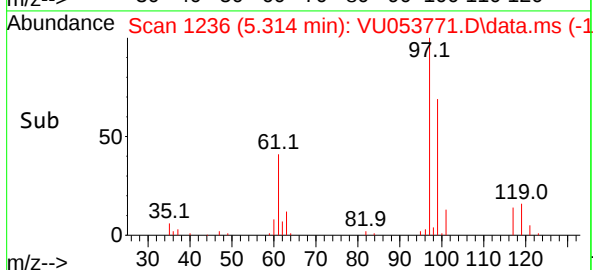
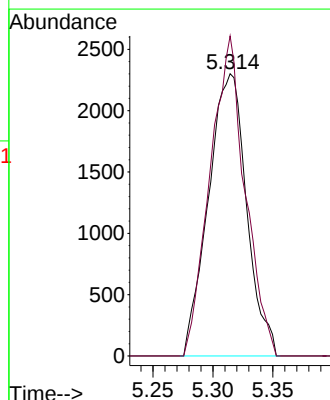
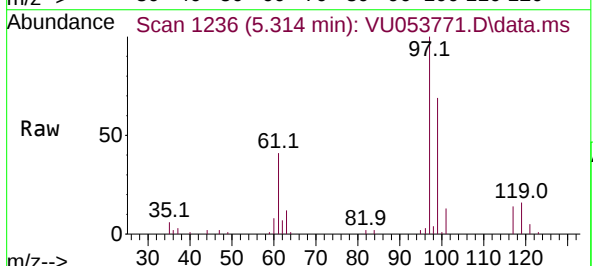
Acq: 18 Apr 2023 19:54

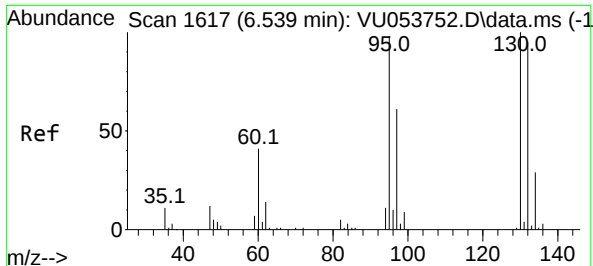
Tgt Ion: 117 Resp: 5097

Ion Ratio Lower Upper

117 100

119 104.1 77.7 116.5

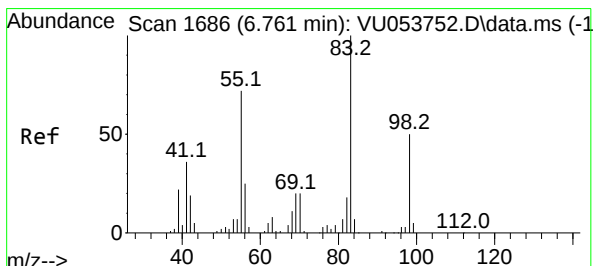
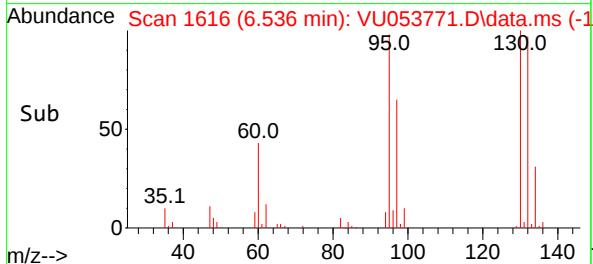
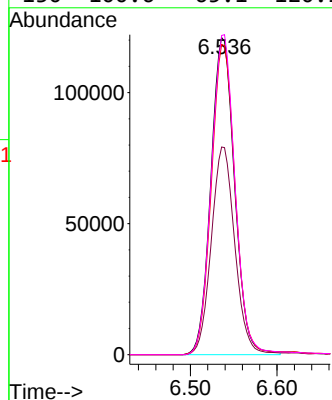
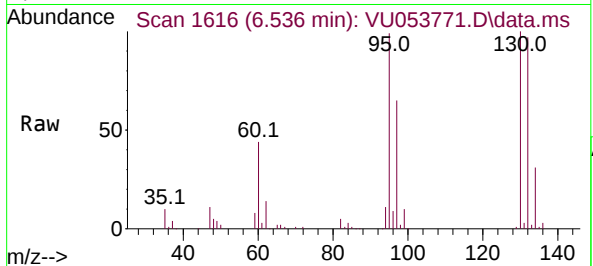




#34  
Trichloroethene  
Concen: 23.886 ug/L  
RT: 6.536 min Scan# 1616  
Delta R.T. -0.003 min  
Lab File: VU053771.D  
Acq: 18 Apr 2023 19:54

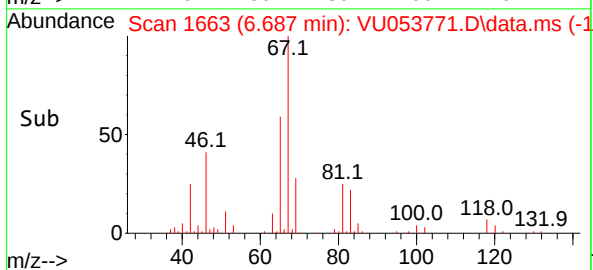
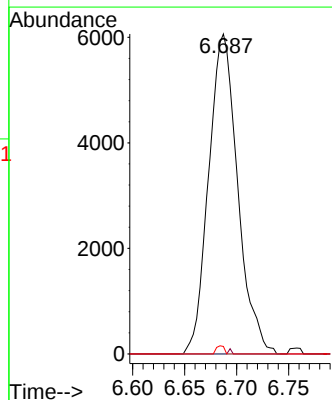
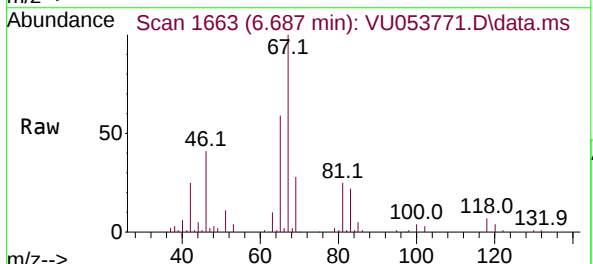
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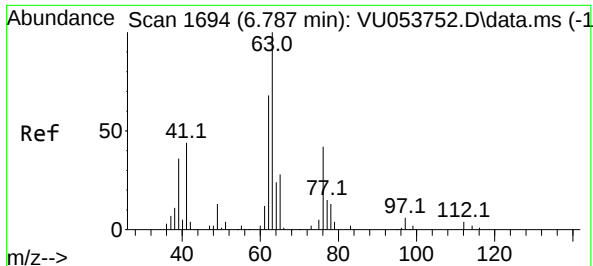
Tgt Ion: 95 Resp: 230326  
Ion Ratio Lower Upper  
95 100  
97 65.5 45.3 84.1  
132 97.8 62.8 116.6  
130 100.6 65.1 120.9



#35  
Methylcyclohexane  
Concen: 0.713 ug/L  
RT: 6.687 min Scan# 1663  
Delta R.T. -0.074 min  
Lab File: VU053771.D  
Acq: 18 Apr 2023 19:54

Tgt Ion: 83 Resp: 11799  
Ion Ratio Lower Upper  
83 100  
55 0.2 54.9 82.3#  
98 0.0 34.9 52.3#





#37

1,2-Dichloropropane

Concen: 0.581 ug/L

RT: 6.684 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Instrument :

MSVOA\_U

ClientSampleId :

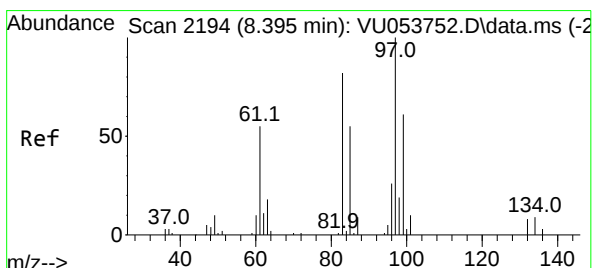
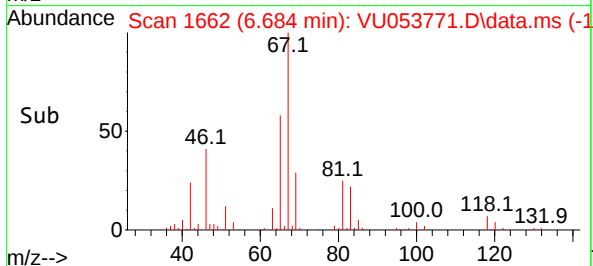
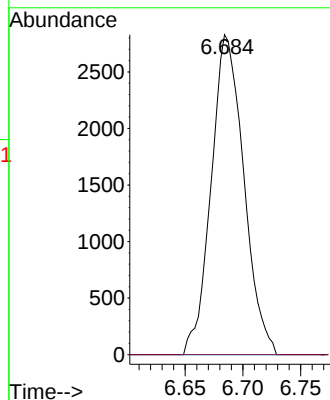
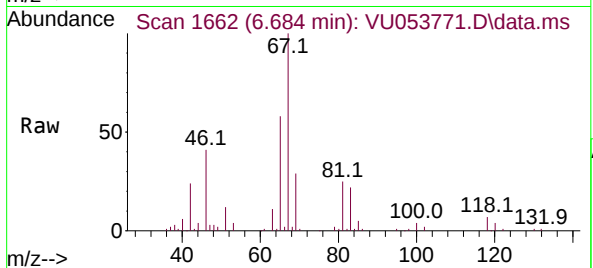
BHE13

Tgt Ion: 63 Resp: 5554

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.4#



#45

1,1,2-Trichloroethane

Concen: 0.106 ug/L

RT: 8.398 min Scan# 2195

Delta R.T. 0.003 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Tgt Ion: 97 Resp: 720

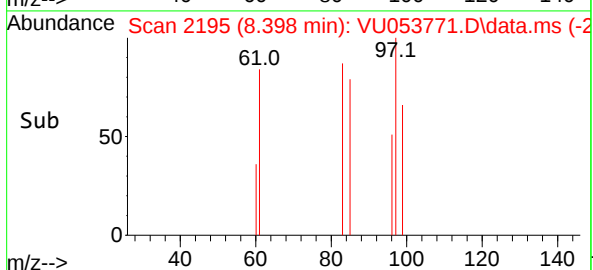
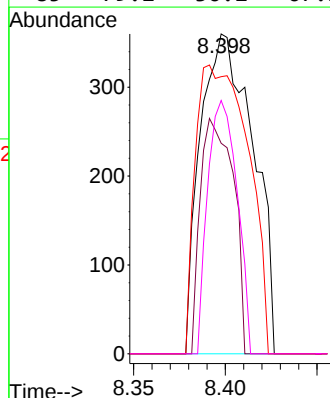
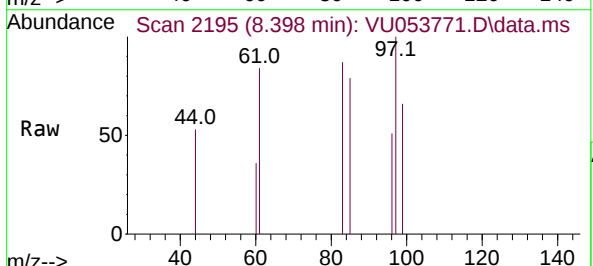
Ion Ratio Lower Upper

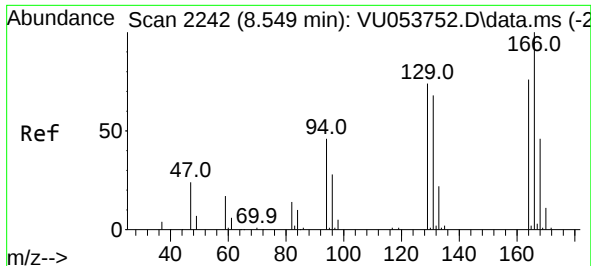
97 100

99 65.8 38.9 72.2

83 86.7 57.6 107.0

85 79.2 36.2 67.2#





#47

Tetrachloroethene

Concen: 25.115 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. 0.000 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Instrument :

MSVOA\_U

ClientSampleId :

BHE13

Tgt Ion:164 Resp: 177937

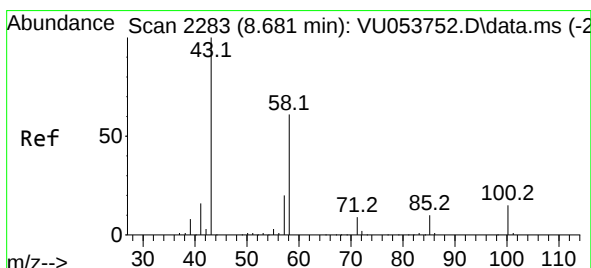
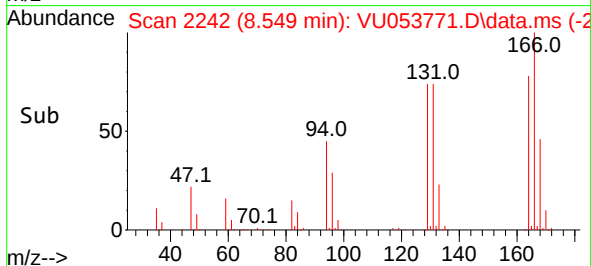
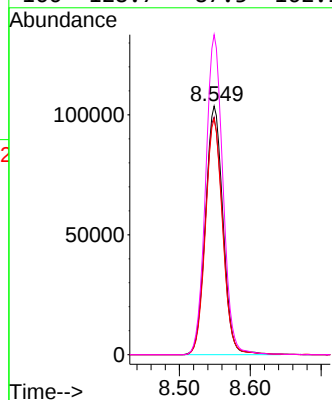
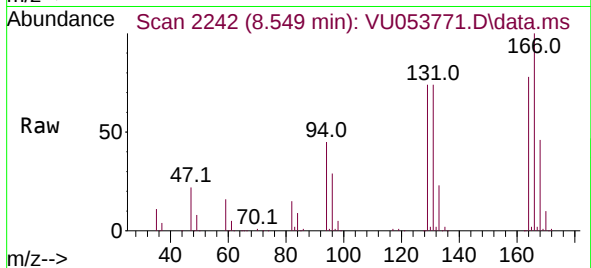
Ion Ratio Lower Upper

164 100

129 95.5 74.8 138.8

131 94.7 70.1 130.1

166 128.7 87.3 162.1



#48

2-Hexanone

Concen: 0.898 ug/L

RT: 8.687 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Tgt Ion: 43 Resp: 3105

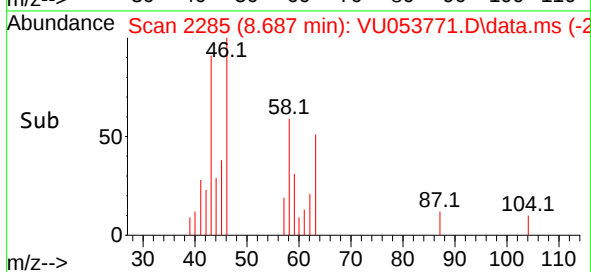
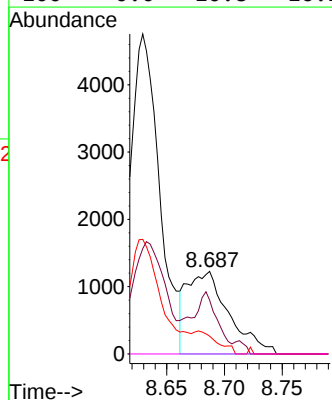
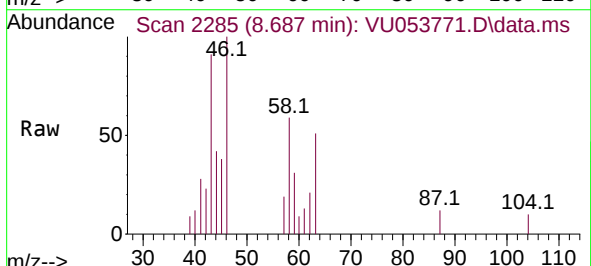
Ion Ratio Lower Upper

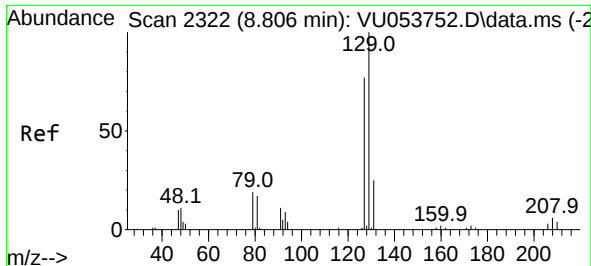
43 100

58 28.1 52.8 79.2#

57 0.0 17.1 25.7#

100 0.0 10.8 16.2#





#49

Dibromochloromethane

Concen: 25.119 ug/L

RT: 8.549 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Instrument :

MSVOA\_U

ClientSampleId :

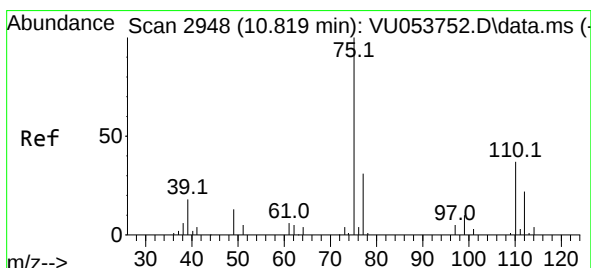
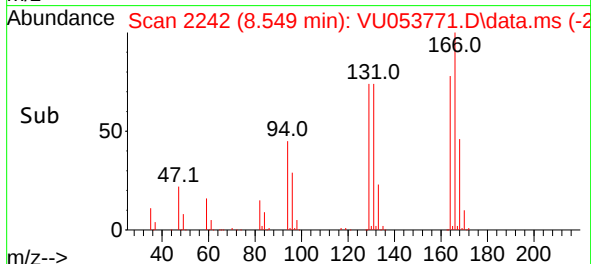
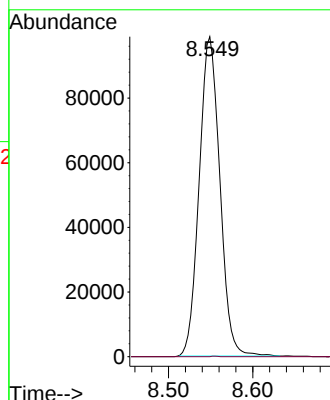
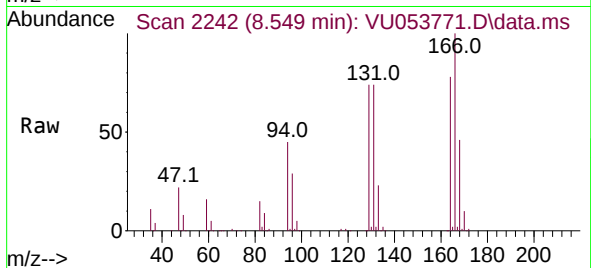
BHE13

Tgt Ion:129 Resp: 168621

Ion Ratio Lower Upper

129 100

127 0.2 52.2 97.0#



#61

1,2,3-Trichloropropane

Concen: 0.165 ug/L

RT: 10.819 min Scan# 2948

Delta R.T. 0.000 min

Lab File: VU053771.D

Acq: 18 Apr 2023 19:54

Tgt Ion: 75 Resp: 894

Ion Ratio Lower Upper

75 100

110 17.6 30.6 46.0#

77 9.4 26.1 39.1#

