

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW102722\  
 Data File : VW028718.D  
 Acq On : 27 Oct 2022 14:24  
 Operator : SY/MD  
 Sample : N5232-19  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BHAD6

Quant Time: Oct 28 02:17:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR102522WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 28 02:13:29 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.616  | 114   | 189854   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.847  | 117   | 178760   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.243 | 152   | 75566    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 73295    | 5.551    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 111.000% |
| 7) Chloroethane-d5            | 1.568  | 69    | 66084    | 5.919    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 118.400% |
| 11) 1,1-Dichloroethene-d2     | 2.105  | 63    | 109087   | 4.271    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 85.400%  |
| 20) 2-Butanone-d5             | 3.908  | 46    | 155719   | 51.720   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 103.440% |
| 24) Chloroform-d              | 4.346  | 84    | 124855   | 5.445    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 109.000% |
| 26) 1,2-Dichloroethane-d4     | 5.031  | 65    | 63221    | 5.434    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 108.600% |
| 32) Benzene-d6                | 5.047  | 84    | 247838   | 5.184    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 103.600% |
| 36) 1,2-Dichloropropane-d6    | 6.066  | 67    | 84002    | 5.551    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 111.000% |
| 41) Toluene-d8                | 7.313  | 98    | 202523   | 5.429    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 108.600% |
| 43) trans-1,3-Dichloroprop... | 7.625  | 79    | 12047    | 2.562    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 51.200%# |
| 46) 2-Hexanone-d5             | 8.091  | 63    | 100665   | 45.997   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 92.000%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.210 | 84    | 51208    | 5.102    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 102.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.615 | 152   | 60257    | 5.781    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 115.600% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 1.240  | 50    | 2446     | 0.164    | ug/L   | 95       |
| 5) Vinyl chloride             | 1.307  | 62    | 689      | 0.046    | ug/L # | 1        |
| 6) Bromomethane               | 1.519  | 94    | 1120     | 0.158    | ug/L   | 94       |
| 8) Chloroethane               | 1.648  | 64    | 864      | 0.086    | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.105  | 96    | 1090     | 0.104    | ug/L # | 1        |
| 13) Acetone                   | 2.198  | 43    | 13584    | 7.601    | ug/L   | 57       |
| 25) Chloroform                | 4.375  | 83    | 69989    | 2.839    | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.063  | 83    | 18958    | 1.037    | ug/L # | 16       |
| 37) 1,2-Dichloropropane       | 6.066  | 63    | 9030     | 0.662    | ug/L # | 88       |
| 42) Toluene                   | 7.397  | 91    | 10850    | 0.214    | ug/L   | 95       |
| 51) Chlorobenzene             | 8.882  | 112   | 1945     | 0.061    | ug/L   | 91       |
| 52) Ethylbenzene              | 9.024  | 91    | 2021     | 0.036    | ug/L   | 88       |
| 53) m,p-Xylene                | 9.140  | 106   | 1898     | 0.093    | ug/L   | 75       |
| 54) o-Xylene                  | 9.548  | 106   | 1212     | 0.059    | ug/L   | 78       |
| 61) 1,2,3-Trichloropropane    | 11.243 | 75    | 11215    | 1.729    | ug/L # | 65       |
| 62) 1,3,5-Trimethylbenzene    | 10.538 | 105   | 575      | 0.041    | ug/L   | 91       |
| -----                         |        |       |          |          |        |          |

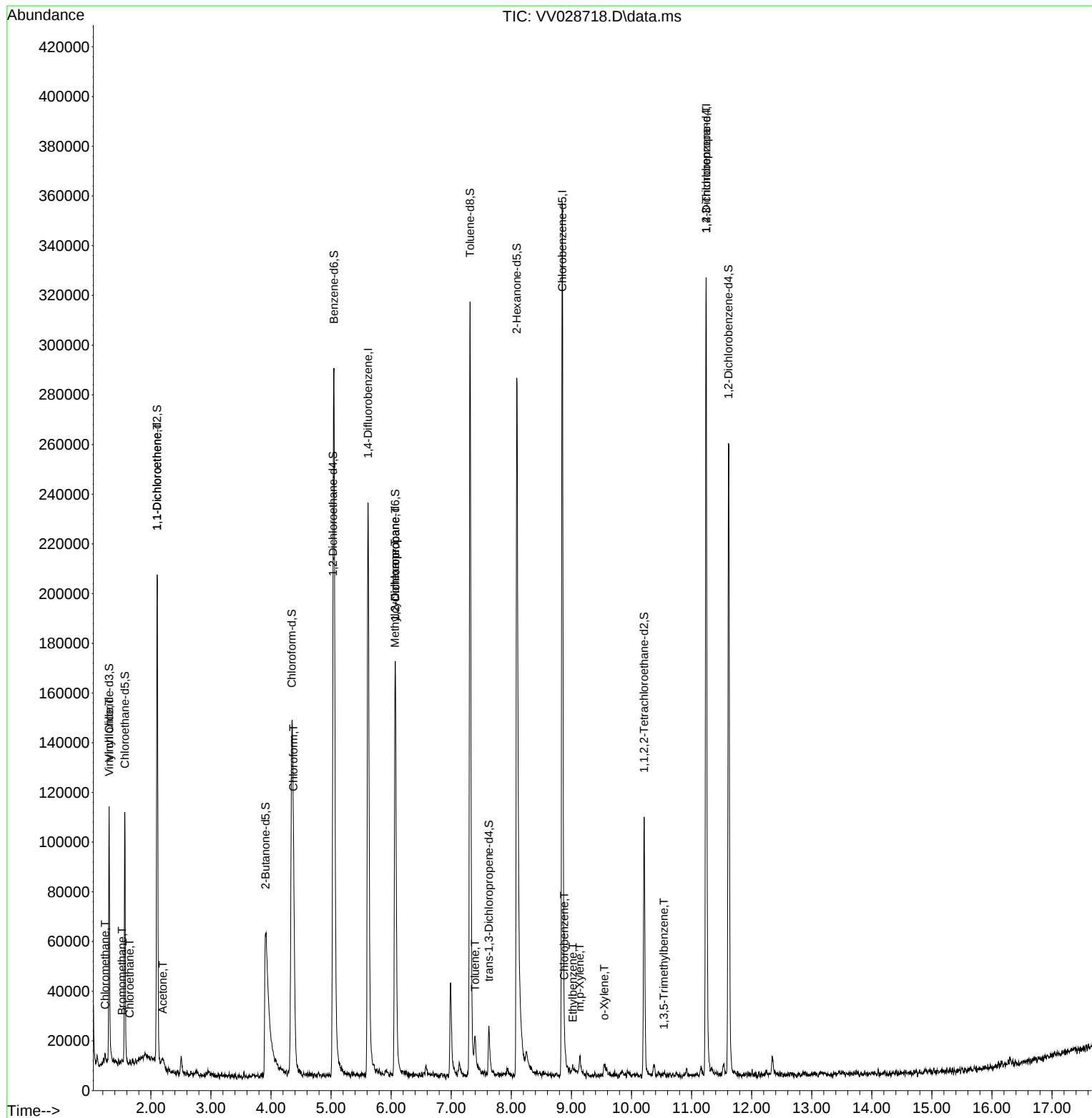
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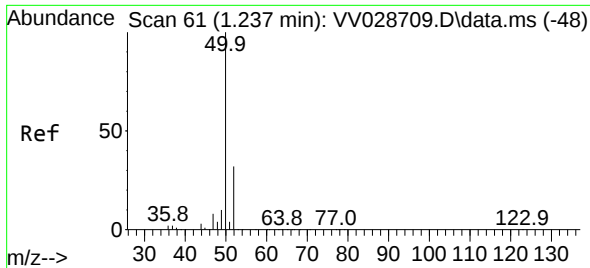
**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
BHAD6

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV102722\  
Data File : VV028718.D  
Acq On : 27 Oct 2022 14:24  
Operator : SY/MD  
Sample : N5232-19  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 12 Sample Multiplier: 1

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ClientSampleId :  
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Quant Time: Oct 28 02:17:55 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR102522WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Oct 28 02:13:29 2022  
Response via : Initial Calibration

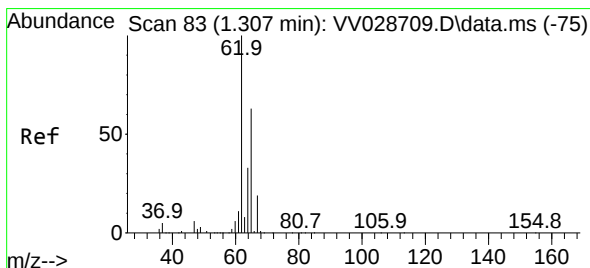
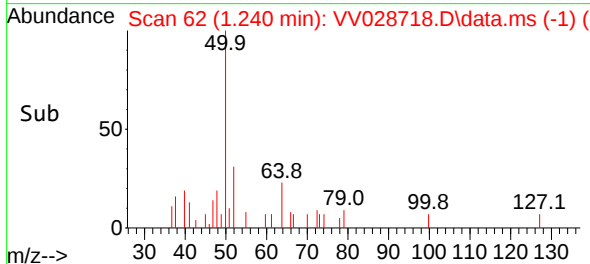
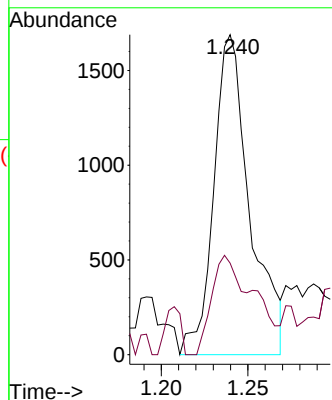
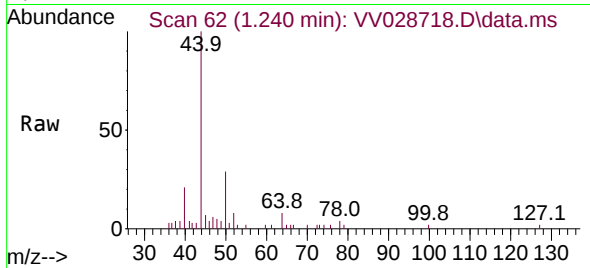




#3  
Chloromethane  
Concen: 0.164 ug/L  
RT: 1.240 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

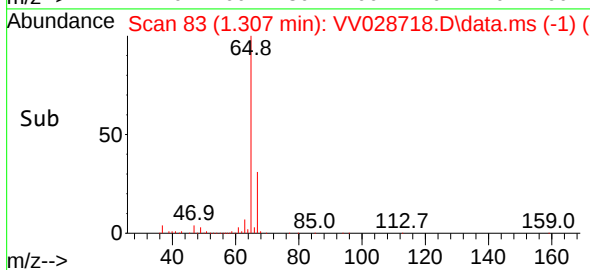
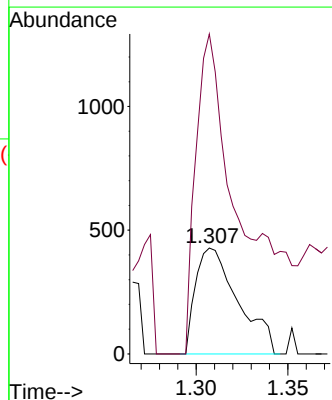
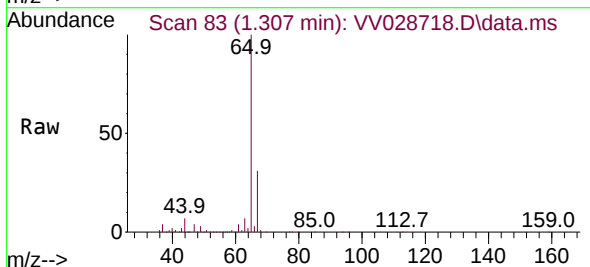
Instrument :  
MSVOA\_V  
ClientSampleId :  
BHAD6

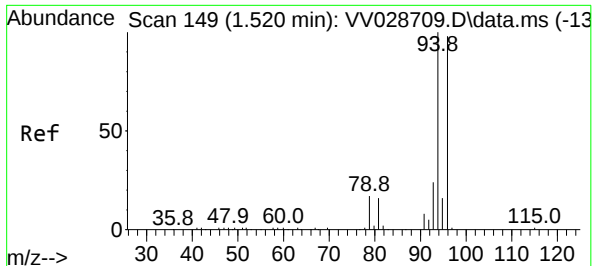
Tgt Ion: 50 Resp: 2446  
Ion Ratio Lower Upper  
50 100  
52 28.6 21.8 40.6



#5  
Vinyl chloride  
Concen: 0.046 ug/L  
RT: 1.307 min Scan# 83  
Delta R.T. -0.000 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

Tgt Ion: 62 Resp: 689  
Ion Ratio Lower Upper  
62 100  
64 302.1 22.0 41.0#

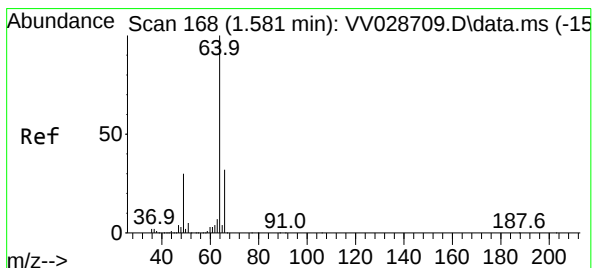
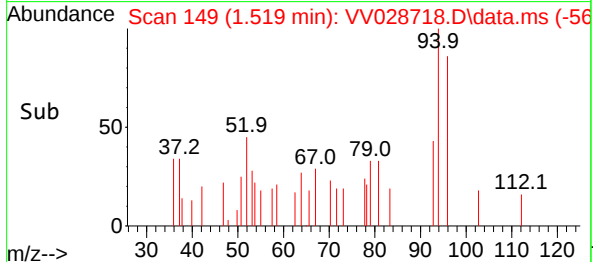
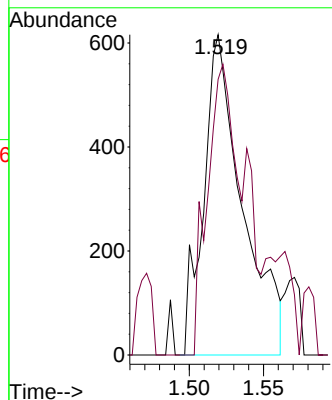
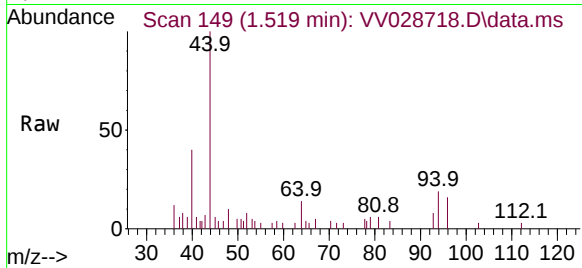




#6  
Bromomethane  
Concen: 0.158 ug/L  
RT: 1.519 min Scan# 149  
Delta R.T. -0.000 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

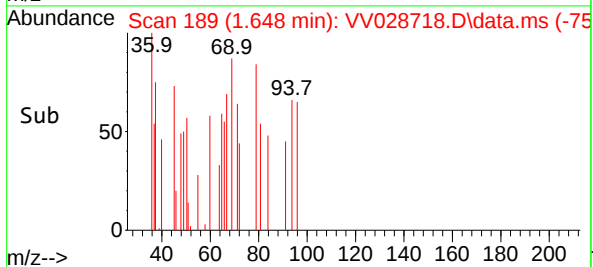
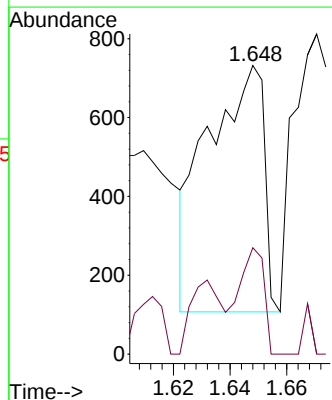
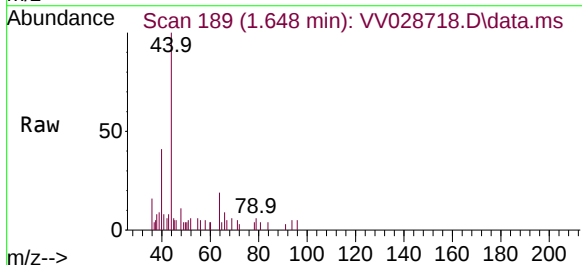
Instrument :  
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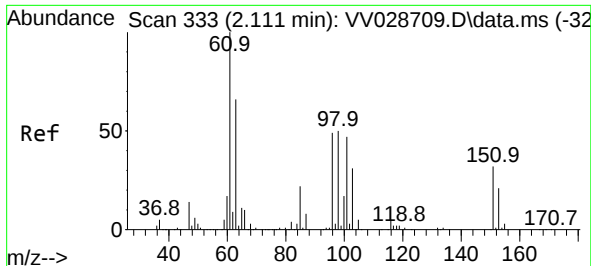
Tgt Ion: 94 Resp: 1120  
Ion Ratio Lower Upper  
94 100  
96 86.0 64.3 119.3



#8  
Chloroethane  
Concen: 0.086 ug/L  
RT: 1.648 min Scan# 189  
Delta R.T. 0.067 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

Tgt Ion: 64 Resp: 864  
Ion Ratio Lower Upper  
64 100  
66 36.9 23.9 44.5





#12

1,1-Dichloroethene

Concen: 0.104 ug/L

RT: 2.105 min Scan# 31

Delta R.T. -0.007 min

Lab File: VV028718.D

Acq: 27 Oct 2022 14:24

Instrument :

MSVOA\_V

ClientSampleId :

BHAD6

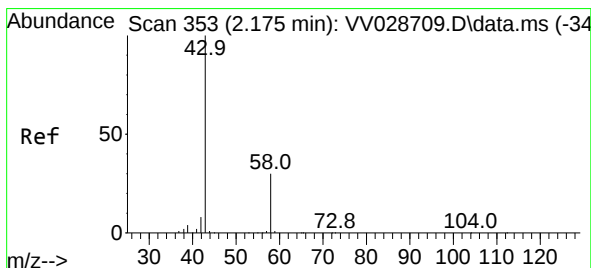
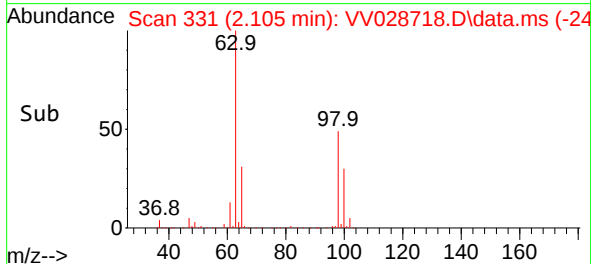
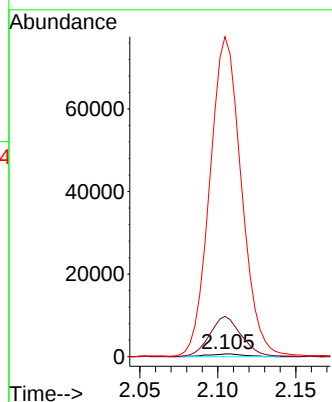
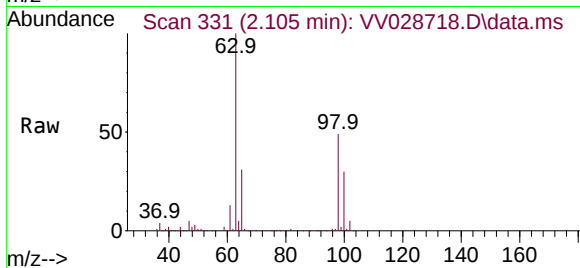
Tgt Ion: 96 Resp: 1090

Ion Ratio Lower Upper

96 100

61 1468.6 148.1 275.1#

63 11654.7 133.3 247.7#



#13

Acetone

Concen: 7.601 ug/L

RT: 2.198 min Scan# 360

Delta R.T. 0.022 min

Lab File: VV028718.D

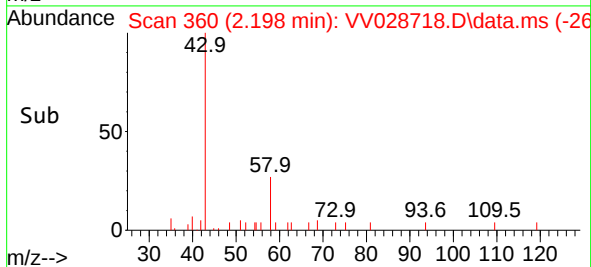
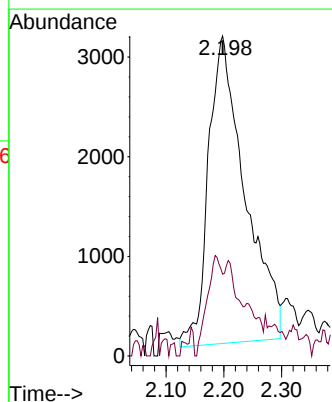
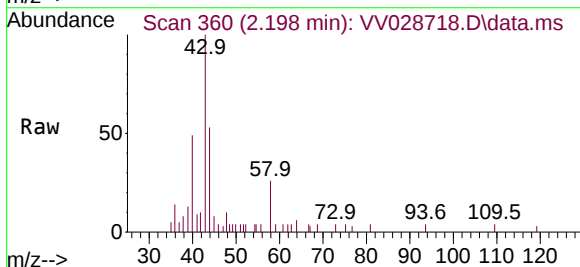
Acq: 27 Oct 2022 14:24

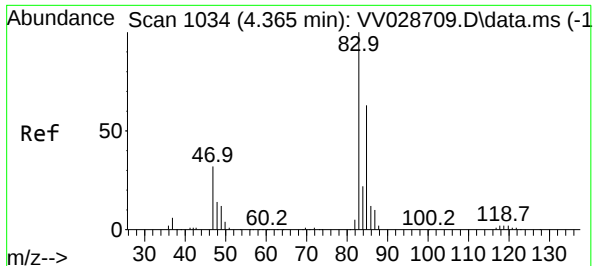
Tgt Ion: 43 Resp: 13584

Ion Ratio Lower Upper

43 100

58 3.5 0.0 50.2





#25

Chloroform

Concen: 2.839 ug/L

RT: 4.375 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV028718.D

Acq: 27 Oct 2022 14:24

Instrument :

MSVOA\_V

ClientSampleId :

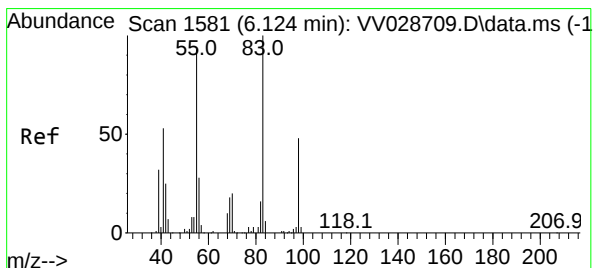
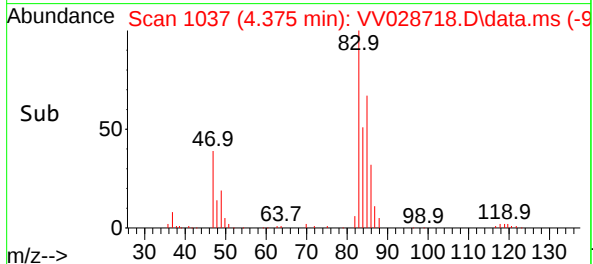
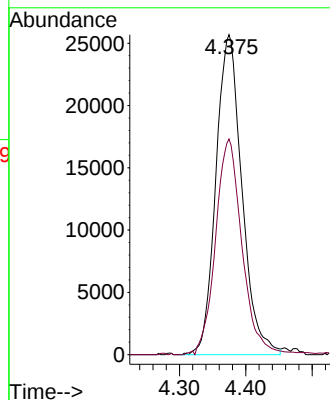
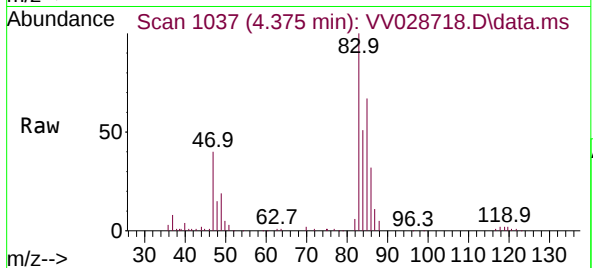
BHAD6

Tgt Ion: 83 Resp: 69989

Ion Ratio Lower Upper

83 100

85 67.4 44.1 81.9



#35

Methylcyclohexane

Concen: 1.037 ug/L

RT: 6.063 min Scan# 1562

Delta R.T. -0.061 min

Lab File: VV028718.D

Acq: 27 Oct 2022 14:24

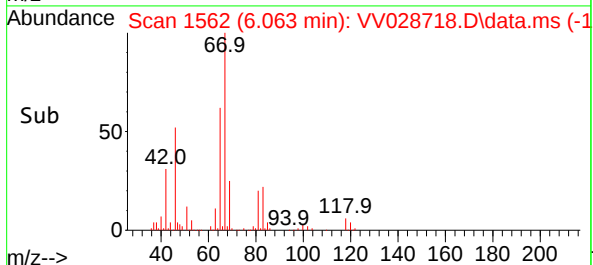
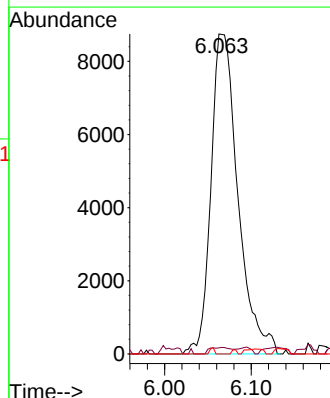
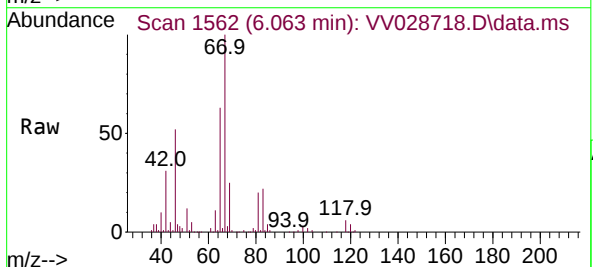
Tgt Ion: 83 Resp: 18958

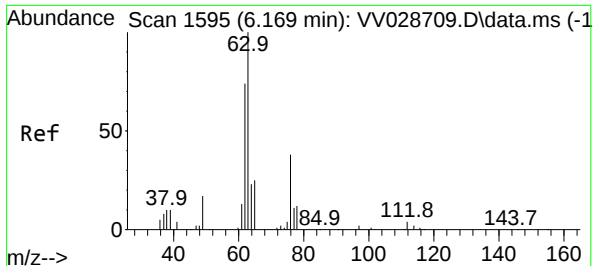
Ion Ratio Lower Upper

83 100

55 1.6 70.0 105.0#

98 0.3 35.6 53.4#





#37

1,2-Dichloropropane

Concen: 0.662 ug/L

RT: 6.066 min Scan# 1

Delta R.T. -0.103 min

Lab File: VV028718.D

Acq: 27 Oct 2022 14:24

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MSVOA\_V

ClientSampleId :

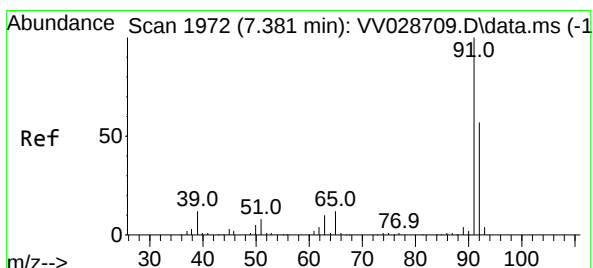
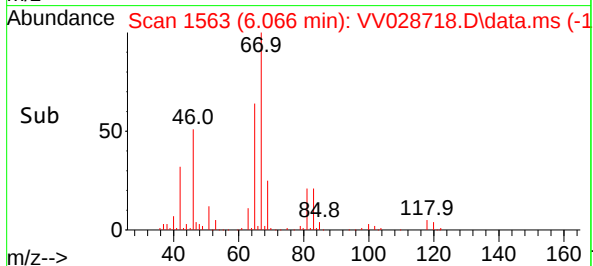
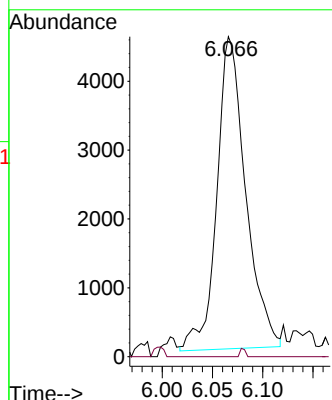
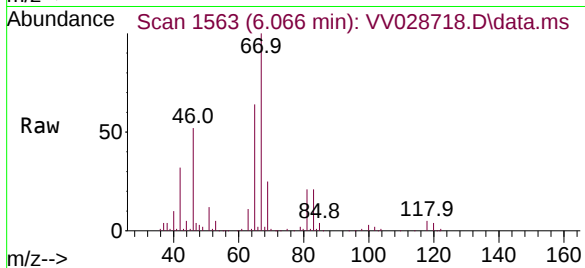
BHAD6

Tgt Ion: 63 Resp: 9030

Ion Ratio Lower Upper

63 100

112 0.5 3.4 5.2#



#42

Toluene

Concen: 0.214 ug/L

RT: 7.397 min Scan# 1977

Delta R.T. 0.016 min

Lab File: VV028718.D

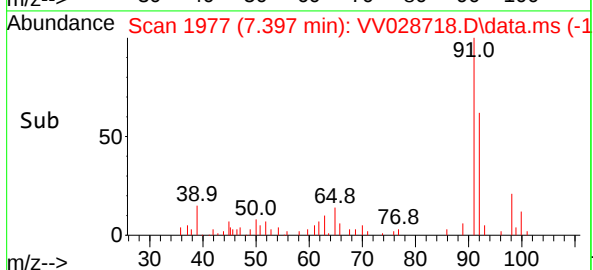
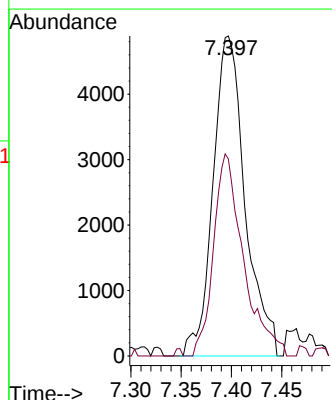
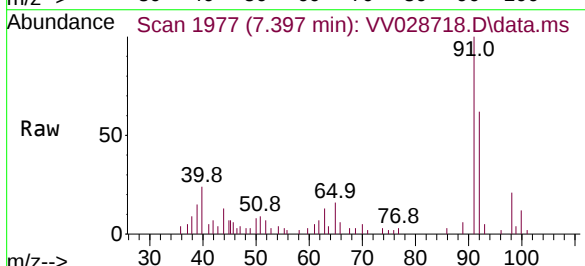
Acq: 27 Oct 2022 14:24

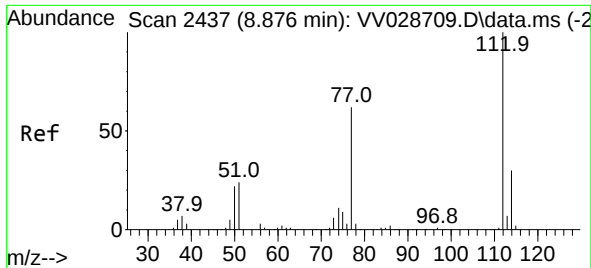
Tgt Ion: 91 Resp: 10850

Ion Ratio Lower Upper

91 100

92 61.5 40.5 75.3

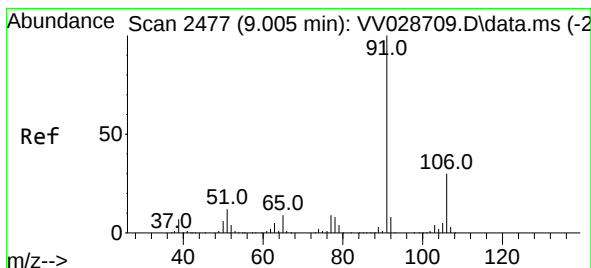
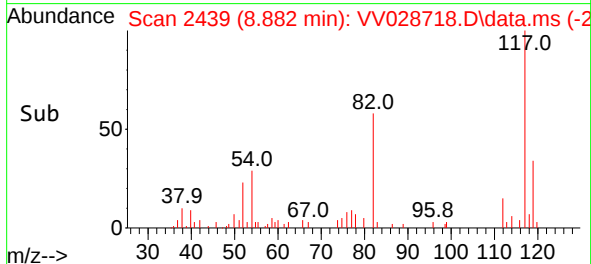
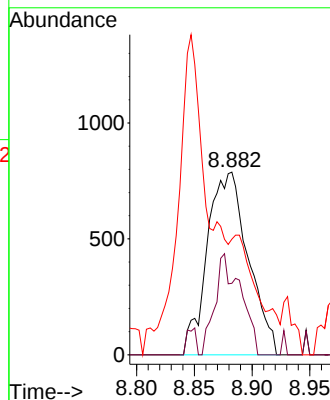
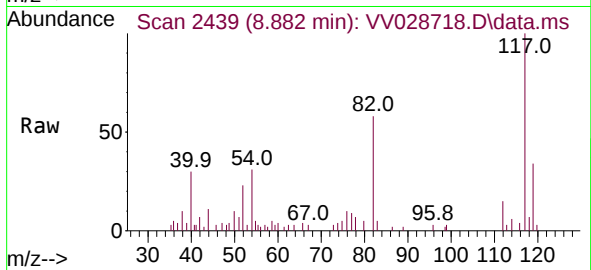




#51  
Chlorobenzene  
Concen: 0.061 ug/L  
RT: 8.882 min Scan# 2439  
Delta R.T. 0.006 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

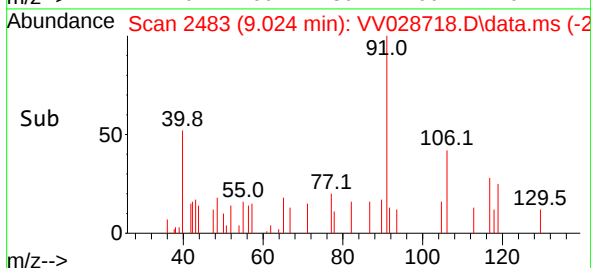
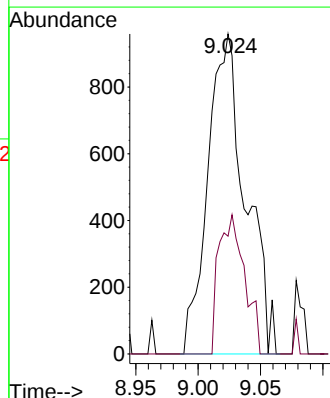
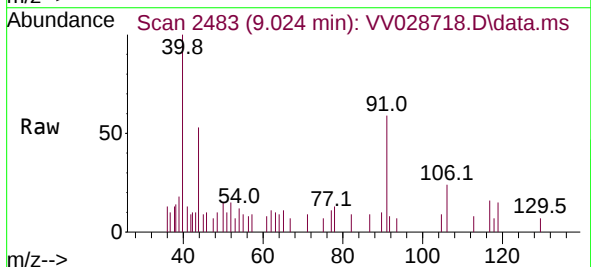
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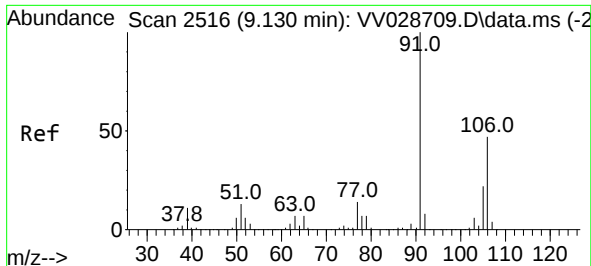
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|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1945  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 33.0  | 22.0  | 41.0  |
| 77       | 53.5  | 50.0  | 75.0  |



#52  
Ethylbenzene  
Concen: 0.036 ug/L  
RT: 9.024 min Scan# 2483  
Delta R.T. 0.019 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 2021  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 36.8  | 21.3  | 39.6  |

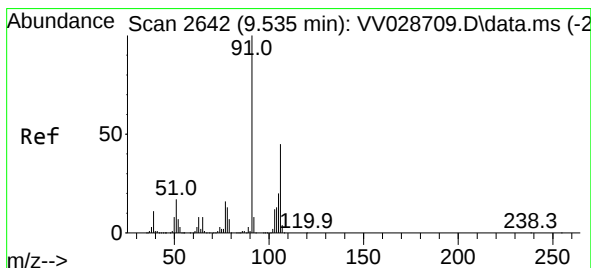
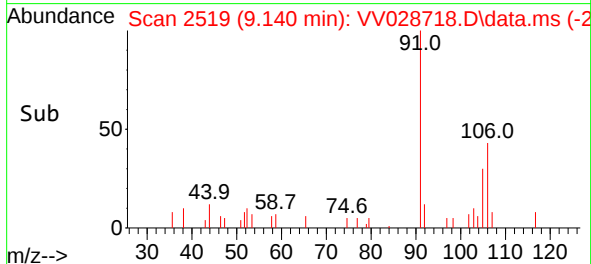
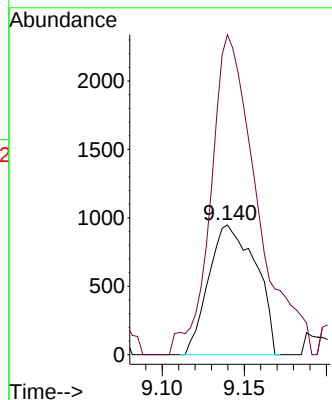
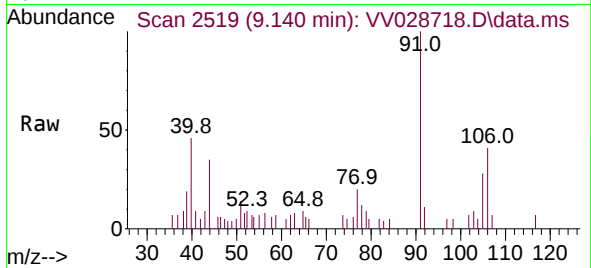




#53  
m,p-Xylene  
Concen: 0.093 ug/L  
RT: 9.140 min Scan# 2516  
Delta R.T. 0.010 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

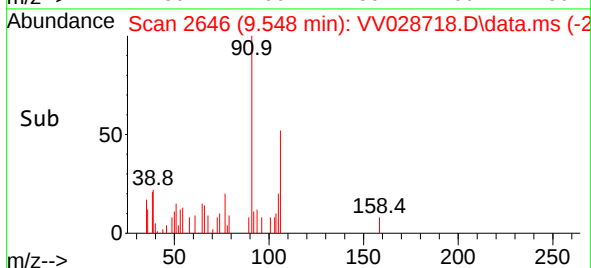
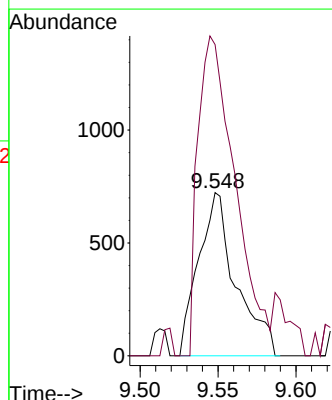
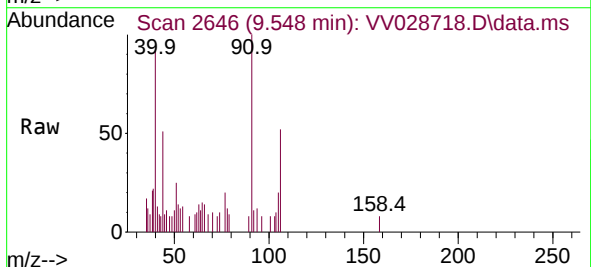
Instrument :  
MSVOA\_V  
ClientSampleId :  
BHAD6

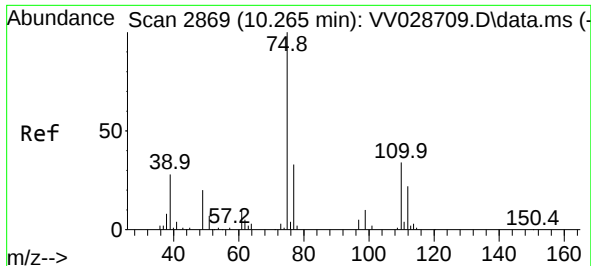
Tgt Ion:106 Resp: 1898  
Ion Ratio Lower Upper  
106 100  
91 246.7 145.5 270.1



#54  
o-Xylene  
Concen: 0.059 ug/L  
RT: 9.548 min Scan# 2646  
Delta R.T. 0.013 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

Tgt Ion:106 Resp: 1212  
Ion Ratio Lower Upper  
106 100  
91 190.7 159.0 295.4

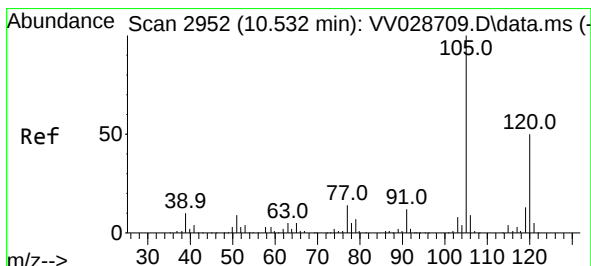
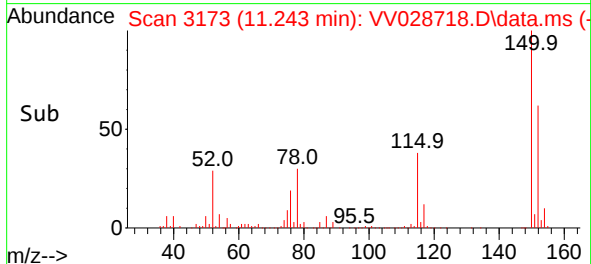
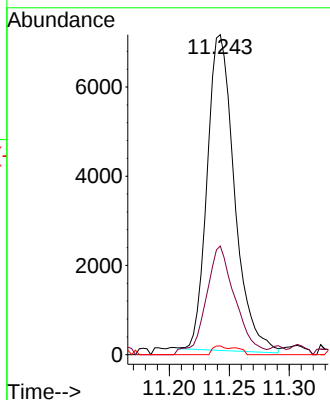
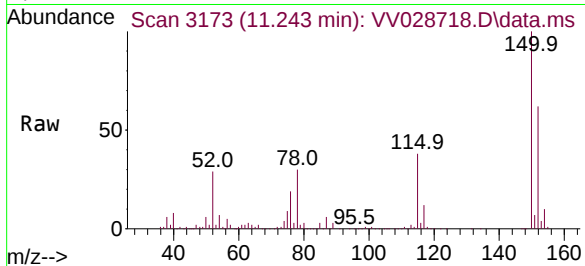




#61  
1,2,3-Trichloropropane  
Concen: 1.729 ug/L  
RT: 11.243 min Scan# 31  
Delta R.T. 0.977 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

Instrument :  
MSVOA\_V  
ClientSampleId :  
BHAD6

Tgt Ion: 75 Resp: 11215  
Ion Ratio Lower Upper  
75 100  
77 36.6 25.2 37.8  
110 1.4 27.9 41.9#



#62  
1,3,5-Trimethylbenzene  
Concen: 0.041 ug/L  
RT: 10.538 min Scan# 2954  
Delta R.T. 0.006 min  
Lab File: VV028718.D  
Acq: 27 Oct 2022 14:24

Tgt Ion: 105 Resp: 575  
Ion Ratio Lower Upper  
105 100  
120 54.3 38.3 57.5

