

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW111822\  
 Data File : VW029145.D  
 Acq On : 19 Nov 2022 02:51  
 Operator : SY/MD  
 Sample : M5666-02  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BGXP4

Quant Time: Nov 19 03:56:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 18 04:35:43 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 5.613  | 114  | 285627   | 5.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.847  | 117  | 261271   | 5.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.243 | 152  | 119790   | 5.000 | ug/L  | 0.00     |

|                               |        |       |          |          |      |           |
|-------------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds   |        |       |          |          |      |           |
| 4) Vinyl Chloride-d3          | 1.307  | 65    | 67709    | 3.888    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =    | 77.800%   |
| 7) Chloroethane-d5            | 1.568  | 69    | 63902    | 4.174    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =    | 83.400%   |
| 11) 1,1-Dichloroethene-d2     | 2.108  | 63    | 118281   | 3.727    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =    | 74.600%   |
| 20) 2-Butanone-d5             | 3.889  | 46    | 212339   | 72.846   | ug/L | -0.01     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =    | 145.700%# |
| 24) Chloroform-d              | 4.342  | 84    | 164192   | 4.593    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 91.800%   |
| 26) 1,2-Dichloroethane-d4     | 5.031  | 65    | 79633    | 4.951    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 99.000%   |
| 32) Benzene-d6                | 5.047  | 84    | 329874   | 4.230    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 84.600%   |
| 36) 1,2-Dichloropropane-d6    | 6.066  | 67    | 106983   | 4.913    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =    | 98.200%   |
| 41) Toluene-d8                | 7.310  | 98    | 288495   | 4.110    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 82.200%   |
| 43) trans-1,3-Dichloroprop... | 7.619  | 79    | 31751    | 4.470    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =    | 89.400%   |
| 46) 2-Hexanone-d5             | 8.088  | 63    | 149291   | 49.244   | ug/L | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =    | 98.480%   |
| 56) 1,1,2,2-Tetrachloroeth... | 10.207 | 84    | 80102    | 5.305    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =    | 106.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.615 | 152   | 109177   | 5.094    | ug/L | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =    | 101.800%  |

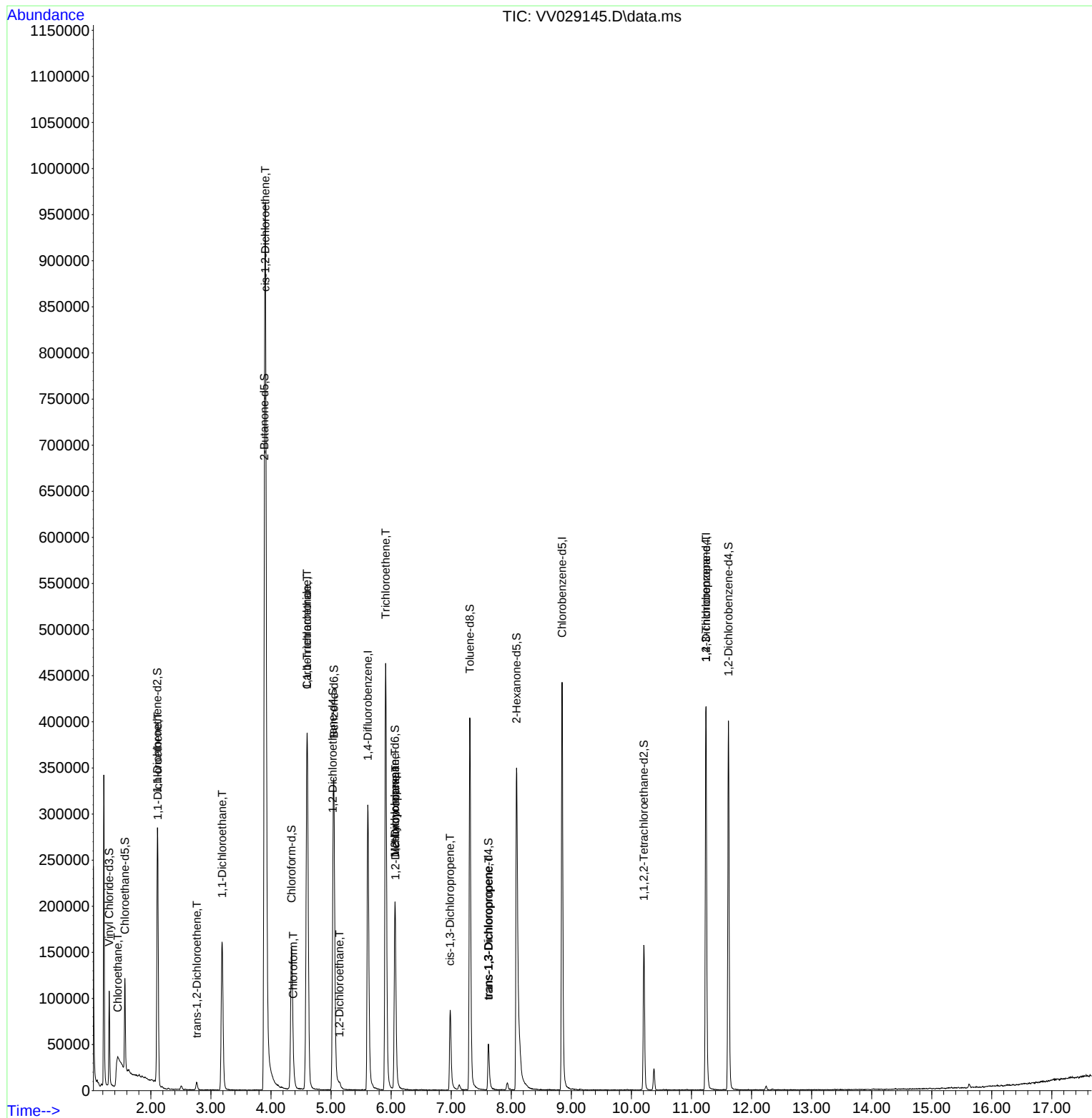
|                               |        |     |        |        |        |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| Target Compounds              |        |     |        | Qvalue |        |    |
| 8) Chloroethane               | 1.449  | 64  | 137555 | 10.385 | ug/L # | 52 |
| 12) 1,1-Dichloroethene        | 2.117  | 96  | 45168  | 2.612  | ug/L # | 71 |
| 18) trans-1,2-Dichloroethene  | 2.767  | 96  | 3006   | 0.150  | ug/L   | 92 |
| 19) 1,1-Dichloroethane        | 3.185  | 63  | 167638 | 5.113  | ug/L   | 99 |
| 22) cis-1,2-Dichloroethene    | 3.905  | 96  | 539455 | 26.460 | ug/L   | 97 |
| 25) Chloroform                | 4.371  | 83  | 8465   | 0.246  | ug/L # | 73 |
| 27) 1,2-Dichloroethane        | 5.140  | 62  | 5932   | 0.335  | ug/L   | 96 |
| 29) 1,1,1-Trichloroethane     | 4.600  | 97  | 321333 | 10.481 | ug/L   | 98 |
| 31) Carbon tetrachloride      | 4.600  | 117 | 42633  | 1.615  | ug/L   | 98 |
| 34) Trichloroethene           | 5.908  | 95  | 171348 | 8.383  | ug/L   | 96 |
| 35) Methylcyclohexane         | 6.066  | 83  | 25704  | 0.716  | ug/L # | 21 |
| 37) 1,2-Dichloropropane       | 6.072  | 63  | 10654  | 0.579  | ug/L # | 86 |
| 39) cis-1,3-Dichloropropene   | 6.982  | 75  | 2249   | 0.087  | ug/L # | 41 |
| 44) trans-1,3-Dichloropropene | 7.622  | 75  | 1450   | 0.073  | ug/L   | 99 |
| 61) 1,2,3-Trichloropropane    | 11.243 | 75  | 13346  | 1.630  | ug/L # | 65 |

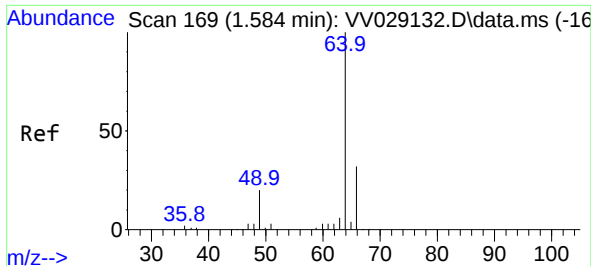
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV111822\  
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Sample : M5666-02  
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ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BGXP4

Quant Time: Nov 19 03:56:58 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Nov 18 04:35:43 2022  
Response via : Initial Calibration

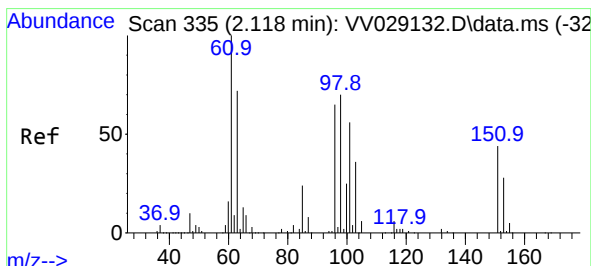
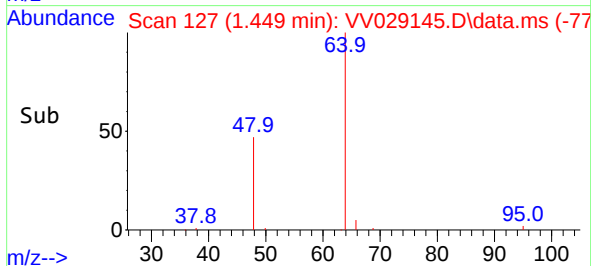
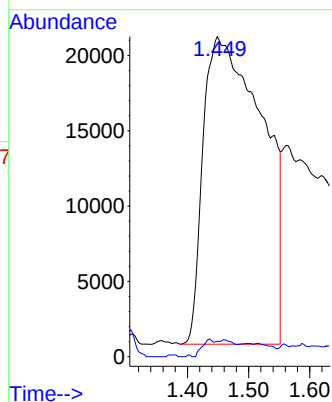
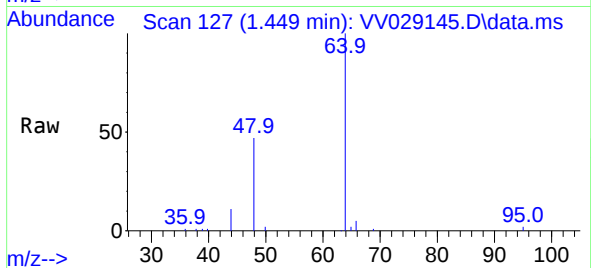




#8  
Chloroethane  
Concen: 10.385 ug/L  
RT: 1.449 min Scan# 11  
Delta R.T. -0.138 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

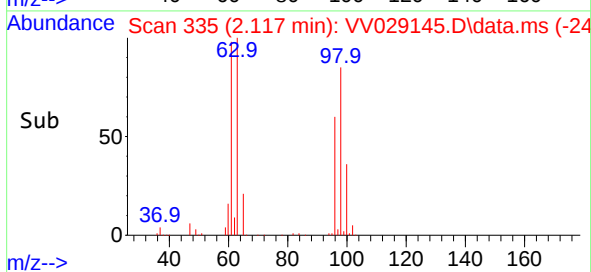
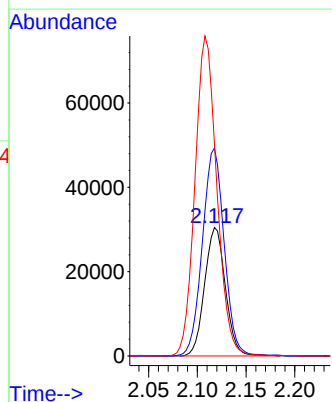
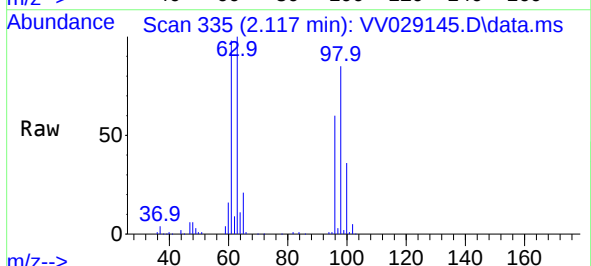
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGXP4

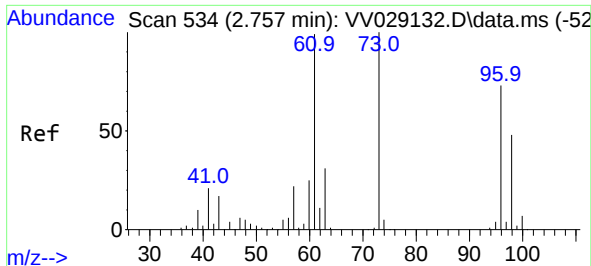
Tgt Ion: 64 Resp: 137555  
Ion Ratio Lower Upper  
64 100  
66 4.8 22.0 40.8#



#12  
1,1-Dichloroethene  
Concen: 2.612 ug/L  
RT: 2.117 min Scan# 335  
Delta R.T. -0.003 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

Tgt Ion: 96 Resp: 45168  
Ion Ratio Lower Upper  
96 100  
61 161.8 104.2 193.4  
63 165.7 75.9 140.9#

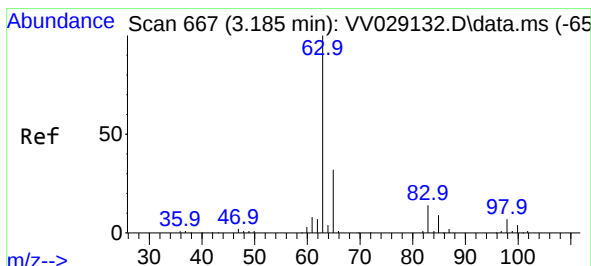
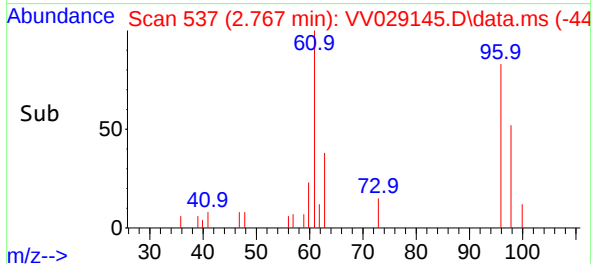
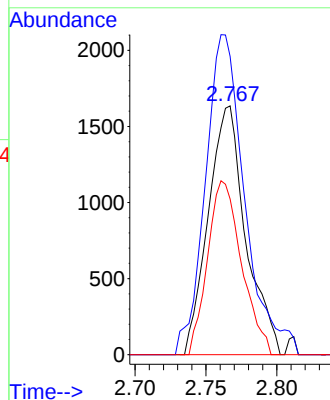
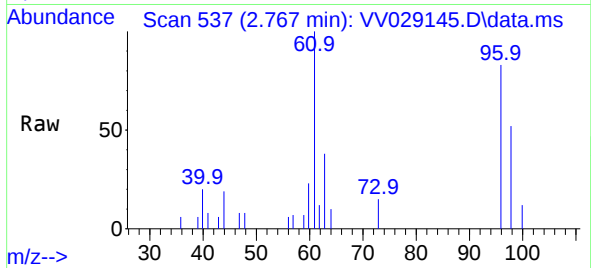




#18  
trans-1,2-Dichloroethene  
Concen: 0.150 ug/L  
RT: 2.767 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

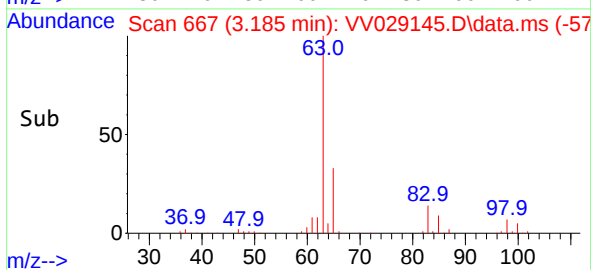
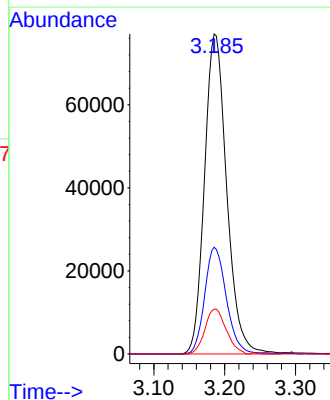
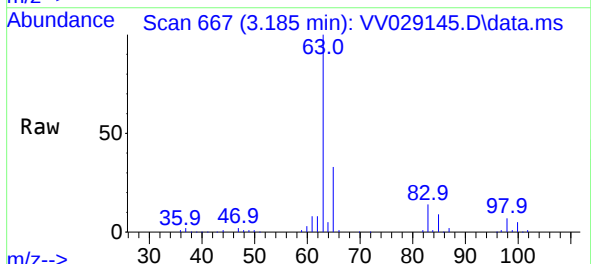
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGXP4

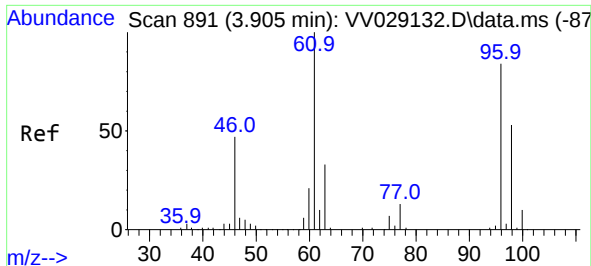
Tgt Ion: 96 Resp: 3006  
Ion Ratio Lower Upper  
96 100  
61 119.9 91.8 170.6  
98 62.6 46.4 86.2



#19  
1,1-Dichloroethane  
Concen: 5.113 ug/L  
RT: 3.185 min Scan# 667  
Delta R.T. -0.003 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

Tgt Ion: 63 Resp: 167638  
Ion Ratio Lower Upper  
63 100  
65 33.4 23.0 42.6  
83 14.0 9.4 17.6





#22

cis-1,2-Dichloroethene

Concen: 26.460 ug/L

RT: 3.905 min Scan# 891

Delta R.T. -0.007 min

Lab File: VV029145.D

Acq: 19 Nov 2022 02:51

Instrument :

MSVOA\_V

ClientSampleId :

BGXP4

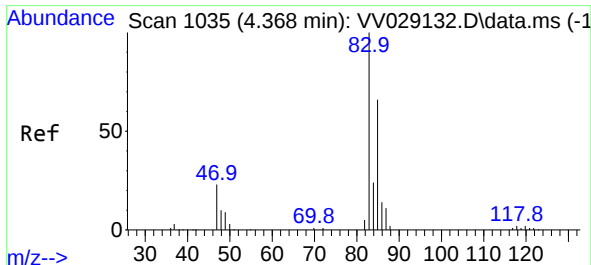
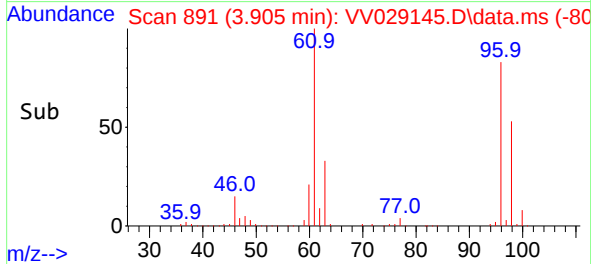
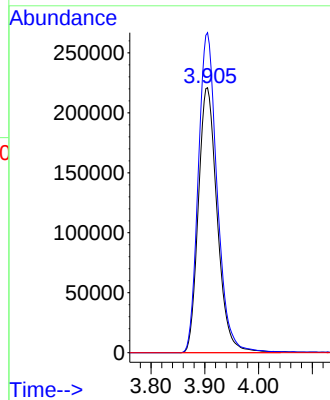
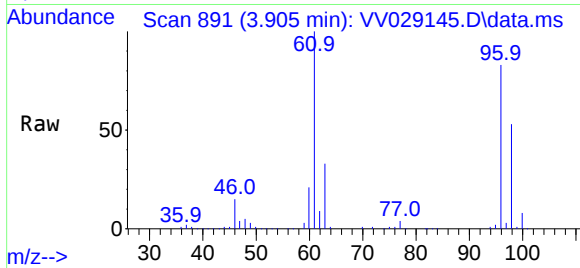
Tgt Ion: 96 Resp: 539455

Ion Ratio Lower Upper

96 100

61 120.8 82.3 152.9

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.246 ug/L

RT: 4.371 min Scan# 1036

Delta R.T. -0.003 min

Lab File: VV029145.D

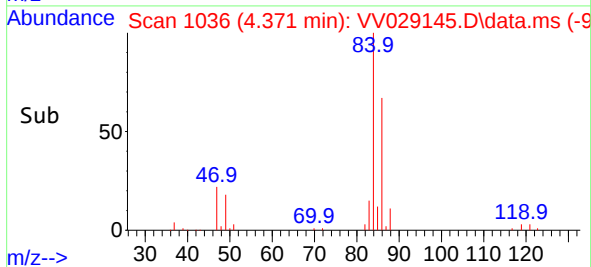
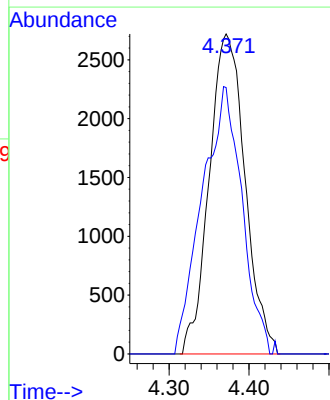
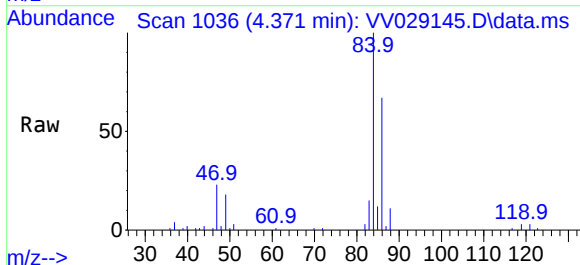
Acq: 19 Nov 2022 02:51

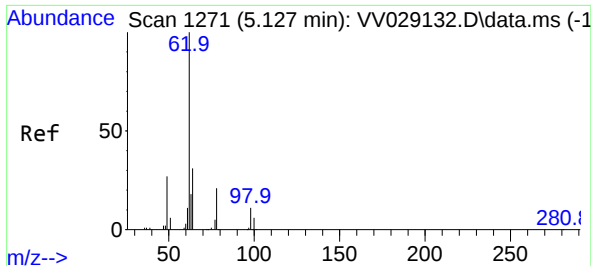
Tgt Ion: 83 Resp: 8465

Ion Ratio Lower Upper

83 100

85 83.2 43.7 81.1#

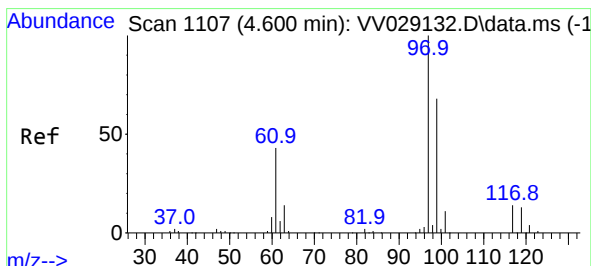
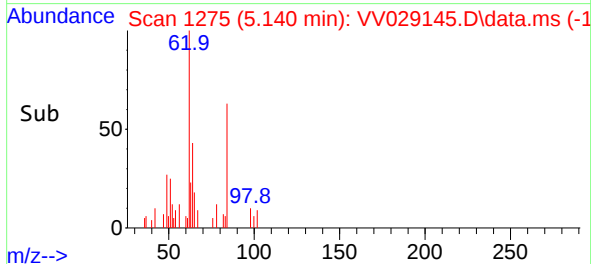
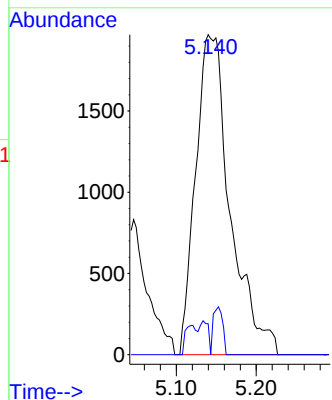
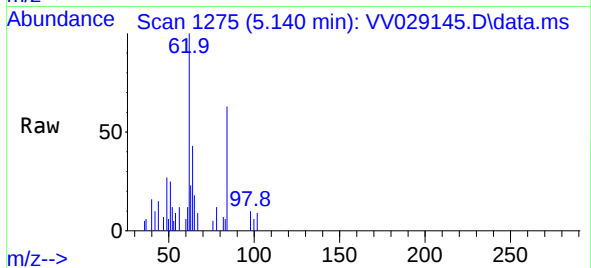




#27  
1,2-Dichloroethane  
Concen: 0.335 ug/L  
RT: 5.140 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

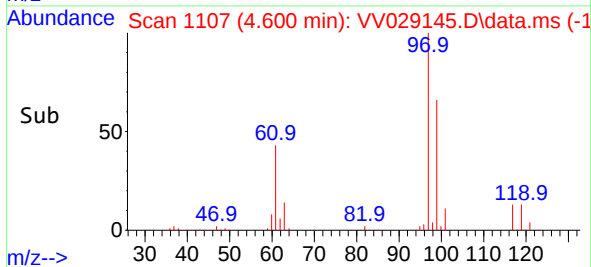
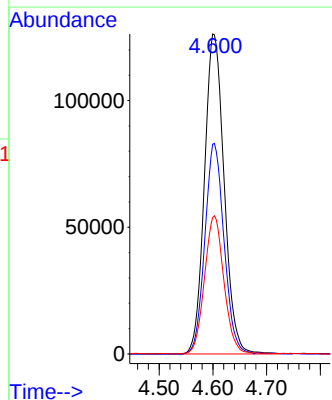
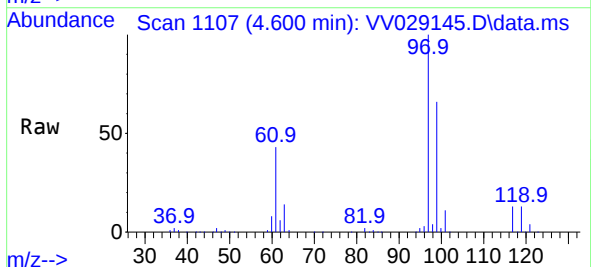
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGXP4

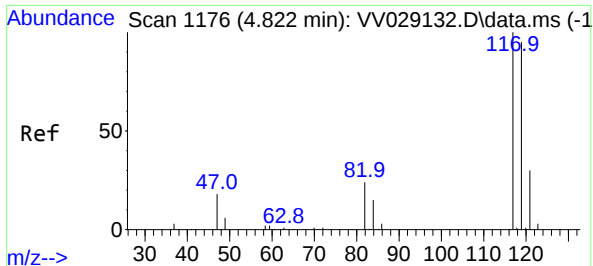
Tgt Ion: 62 Resp: 5932  
Ion Ratio Lower Upper  
62 100  
98 9.6 9.0 13.6



#29  
1,1,1-Trichloroethane  
Concen: 10.481 ug/L  
RT: 4.600 min Scan# 1107  
Delta R.T. -0.007 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

Tgt Ion: 97 Resp: 321333  
Ion Ratio Lower Upper  
97 100  
99 64.2 52.7 79.1  
61 42.7 33.8 50.6

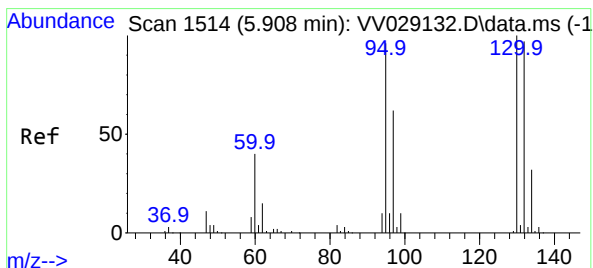
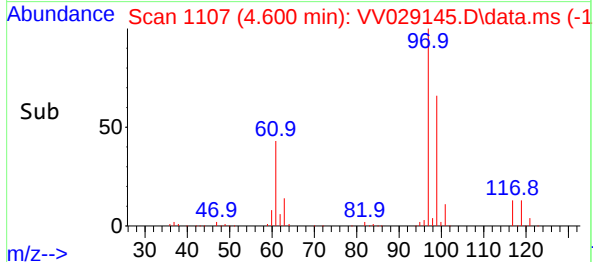
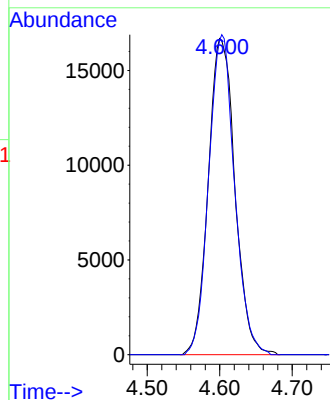
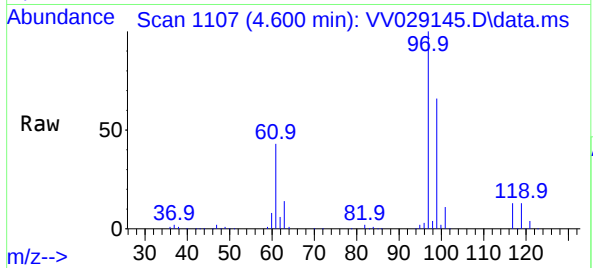




#31  
Carbon tetrachloride  
Concen: 1.615 ug/L  
RT: 4.600 min Scan# 1176  
Delta R.T. -0.228 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

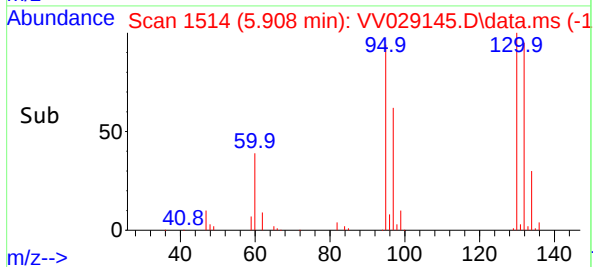
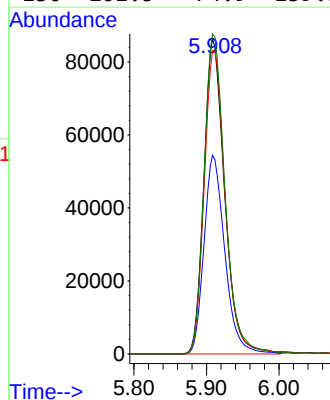
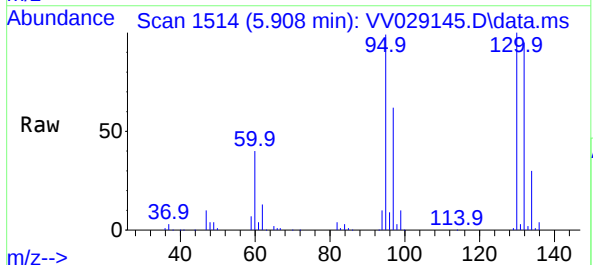
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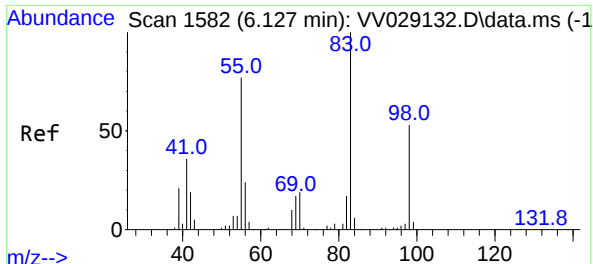
Tgt Ion:117 Resp: 42633  
Ion Ratio Lower Upper  
117 100  
119 97.9 77.0 115.6



#34  
Trichloroethene  
Concen: 8.383 ug/L  
RT: 5.908 min Scan# 1514  
Delta R.T. -0.007 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

Tgt Ion: 95 Resp: 171348  
Ion Ratio Lower Upper  
95 100  
97 63.0 45.6 84.8  
132 96.2 69.1 128.3  
130 101.5 74.9 139.1





#35

Methylcyclohexane

Concen: 0.716 ug/L

RT: 6.066 min Scan# 11

Delta R.T. -0.064 min

Lab File: VV029145.D

Acq: 19 Nov 2022 02:51

Instrument :

MSVOA\_V

ClientSampleId :

BGXP4

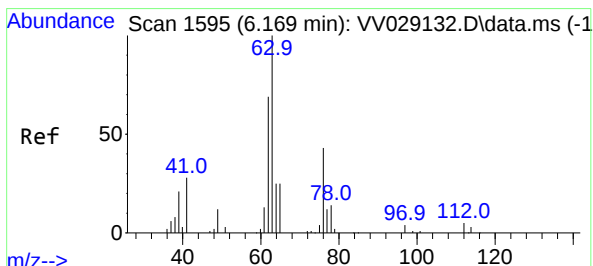
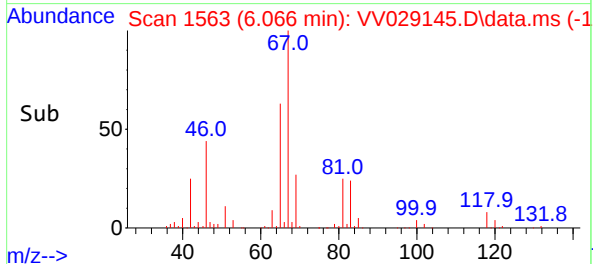
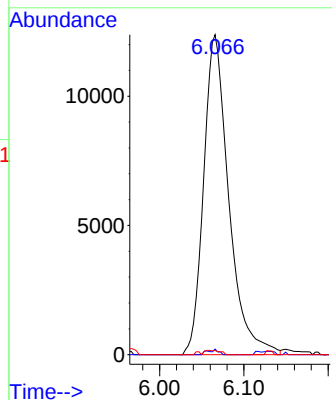
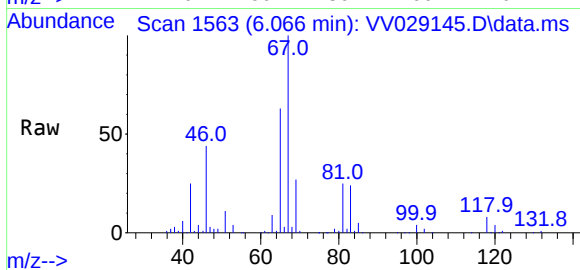
Tgt Ion: 83 Resp: 25704

Ion Ratio Lower Upper

83 100

55 0.3 55.8 83.6#

98 0.0 38.2 57.2#



#37

1,2-Dichloropropane

Concen: 0.579 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.100 min

Lab File: VV029145.D

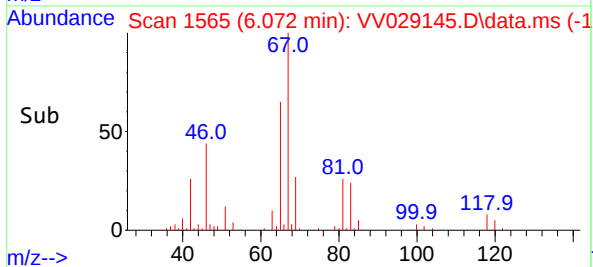
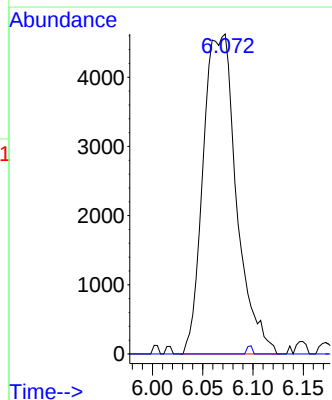
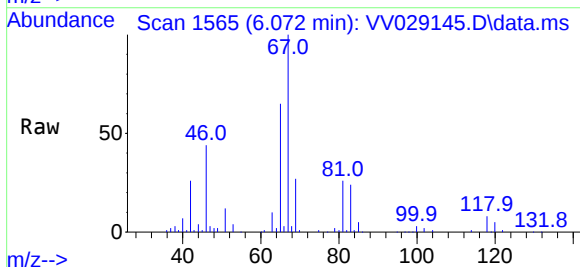
Acq: 19 Nov 2022 02:51

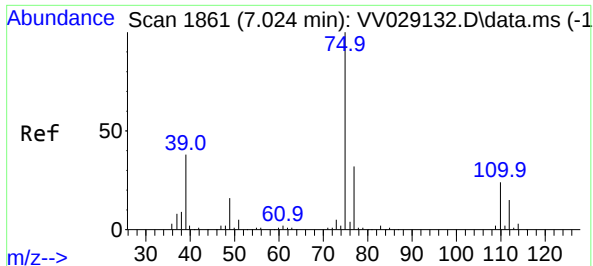
Tgt Ion: 63 Resp: 10654

Ion Ratio Lower Upper

63 100

112 0.4 4.0 6.0#





#39

cis-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 6.982 min Scan# 11

Delta R.T. -0.045 min

Lab File: VV029145.D

Acq: 19 Nov 2022 02:51

Instrument :

MSVOA\_V

ClientSampleId :

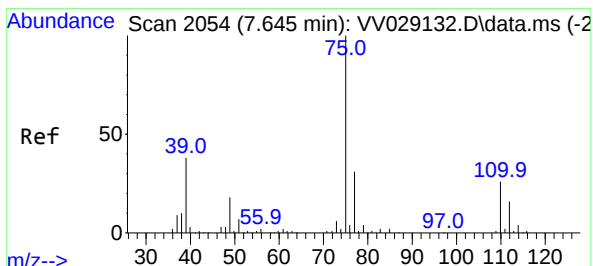
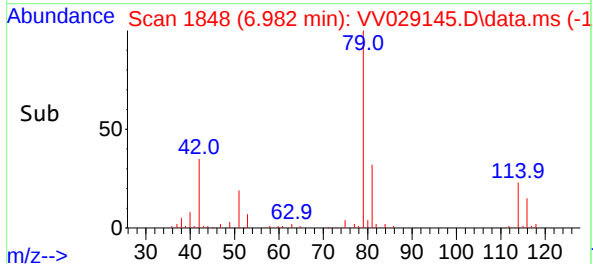
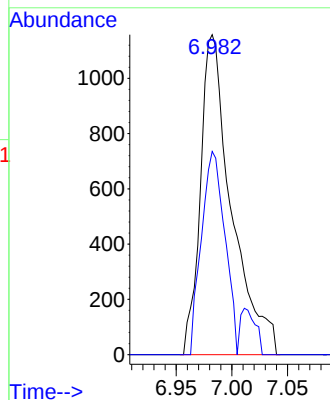
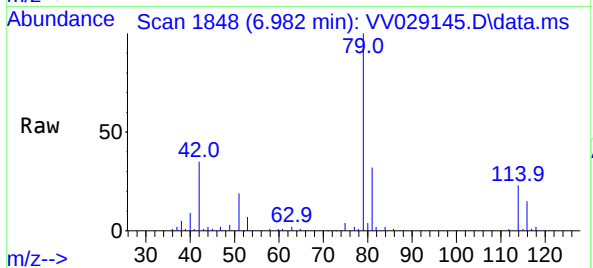
BGXP4

Tgt Ion: 75 Resp: 2249

Ion Ratio Lower Upper

75 100

77 63.5 21.8 40.6#



#44

trans-1,3-Dichloropropene

Concen: 0.073 ug/L

RT: 7.622 min Scan# 2047

Delta R.T. -0.029 min

Lab File: VV029145.D

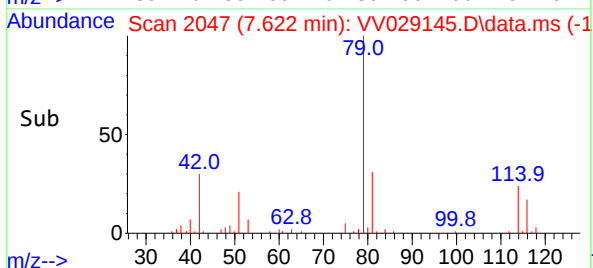
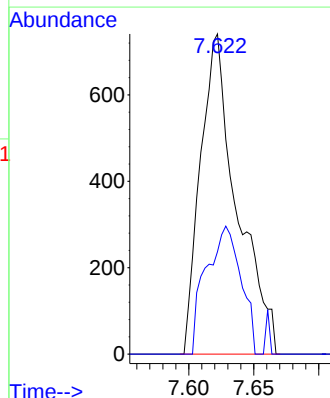
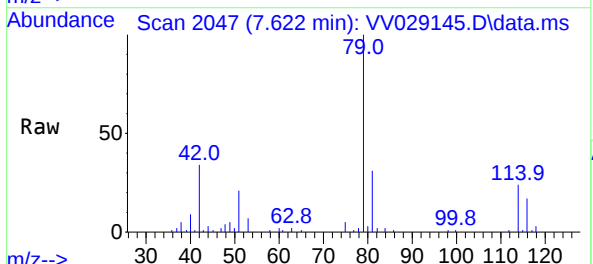
Acq: 19 Nov 2022 02:51

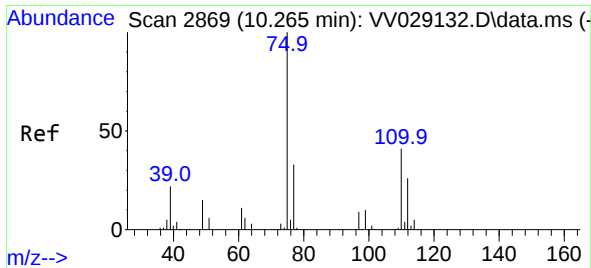
Tgt Ion: 75 Resp: 1450

Ion Ratio Lower Upper

75 100

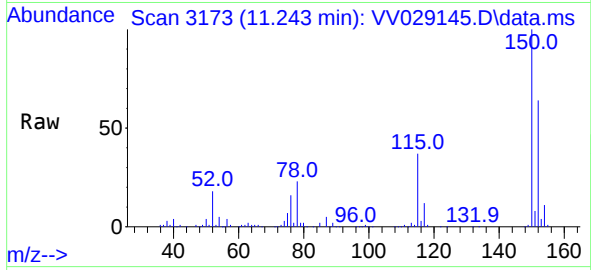
77 32.0 22.2 41.2





#61  
1,2,3-Trichloropropane  
Concen: 1.630 ug/L  
RT: 11.243 min Scan# 31  
Delta R.T. 0.974 min  
Lab File: VV029145.D  
Acq: 19 Nov 2022 02:51

Instrument :  
MSVOA\_V  
ClientSampleId :  
BGXP4



Tgt Ion: 75 Resp: 13346  
Ion Ratio Lower Upper  
75 100  
77 33.4 26.2 39.2  
110 1.7 32.6 48.8#

