

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW093022\  
 Data File : VW028236.D  
 Acq On : 30 Sep 2022 19:03  
 Operator : SY/MD  
 Sample : N4873-06  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 EXZ54

Quant Time: Sep 30 23:02:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092222WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Sep 29 01:25:35 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.613  | 114   | 162633   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.847  | 117   | 162920   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.246 | 152   | 75453    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.301  | 65    | 63697    | 3.778    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 75.600%  |
| 7) Chloroethane-d5            | 1.561  | 69    | 56992    | 4.251    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 85.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.101  | 63    | 97210    | 3.324    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 66.400%  |
| 20) 2-Butanone-d5             | 3.896  | 46    | 130247   | 45.757   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 91.520%  |
| 24) Chloroform-d              | 4.339  | 84    | 124041   | 4.610    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 92.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.024  | 65    | 57571    | 4.497    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 90.000%  |
| 32) Benzene-d6                | 5.043  | 84    | 240310   | 4.499    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.063  | 67    | 72093    | 4.329    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.600%  |
| 41) Toluene-d8                | 7.310  | 98    | 204413   | 4.228    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.600%  |
| 43) trans-1,3-Dichloroprop... | 7.622  | 79    | 22437    | 3.730    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 74.600%  |
| 46) 2-Hexanone-d5             | 8.085  | 63    | 105156   | 41.882   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 83.760%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.214 | 84    | 51575    | 4.531    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.622 | 152   | 74856    | 5.058    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 101.200% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.233  | 50    | 642      | 0.040    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.304  | 62    | 726      | 0.058    | ug/L # | 1        |
| 6) Bromomethane               | 1.516  | 94    | 660      | 0.080    | ug/L # | 66       |
| 8) Chloroethane               | 1.446  | 64    | 138643   | 16.394   | ug/L # | 50       |
| 9) Trichlorofluoromethane     | 1.748  | 101   | 2537     | 0.127    | ug/L   | 90       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.101  | 101   | 1135     | 0.098    | ug/L # | 20       |
| 12) 1,1-Dichloroethene        | 2.111  | 96    | 6550     | 0.583    | ug/L # | 1        |
| 14) Carbon disulfide          | 2.288  | 76    | 2054     | 0.095    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 2.761  | 96    | 1129     | 0.115    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.182  | 63    | 64592    | 3.009    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 3.905  | 96    | 8079     | 0.626    | ug/L   | 89       |
| 25) Chloroform                | 4.365  | 83    | 3966     | 0.172    | ug/L # | 74       |
| 29) 1,1,1-Trichloroethane     | 4.600  | 97    | 66711    | 3.333    | ug/L   | 97       |
| 31) Carbon tetrachloride      | 4.606  | 117   | 9258     | 0.562    | ug/L   | 99       |
| 34) Trichloroethene           | 5.912  | 95    | 13770    | 1.223    | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.063  | 83    | 18400    | 1.191    | ug/L # | 17       |
| 37) 1,2-Dichloropropane       | 6.063  | 63    | 8062     | 0.636    | ug/L # | 87       |
| 38) Bromodichloromethane      | 6.523  | 83    | 791      | 0.051    | ug/L # | 84       |
| 39) cis-1,3-Dichloropropene   | 6.982  | 75    | 1517     | 0.096    | ug/L # | 37       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV093022\  
Data File : VV028236.D  
Acq On : 30 Sep 2022 19:03  
Operator : SY/MD  
Sample : N4873-06  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
EXZ54

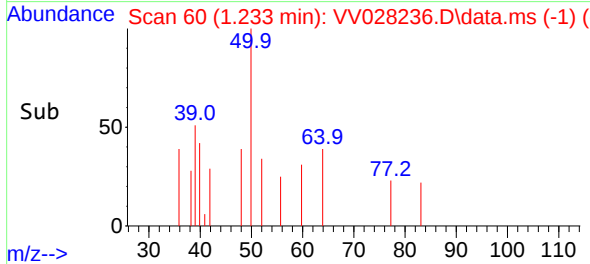
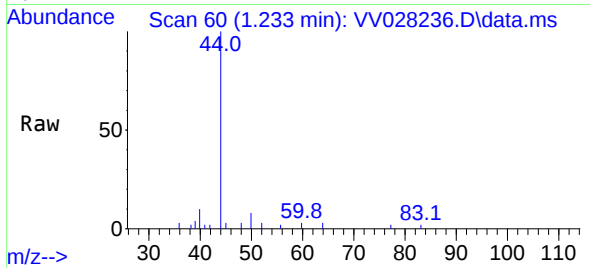
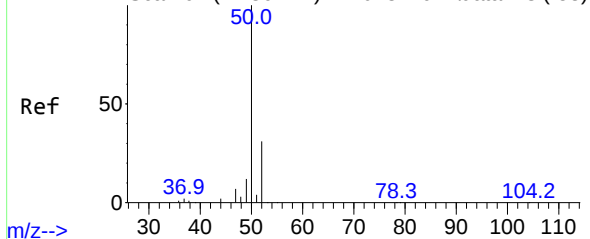
Quant Time: Sep 30 23:02:07 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092222WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Sep 29 01:25:35 2022  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 47) Tetrachloroethene      | 7.973  | 164  | 4112     | 0.457 | ug/L   | 89       |
| 61) 1,2,3-Trichloropropane | 11.246 | 75   | 6873     | 1.086 | ug/L # | 67       |

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



Abundance Scan 61 (1.236 min): VV028129.D\data.ms (-53)



#3

Chloromethane

Concen: 0.040 ug/L

RT: 1.233 min Scan# 60

Delta R.T. -0.003 min

Lab File: VV028236.D

Acq: 30 Sep 2022 19:03

Instrument :

MSVOA\_V

ClientSampleId :

EXZ54

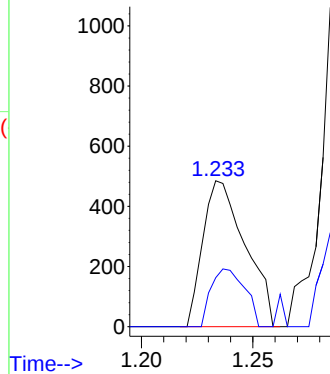
Tgt Ion: 50 Resp: 642

Ion Ratio Lower Upper

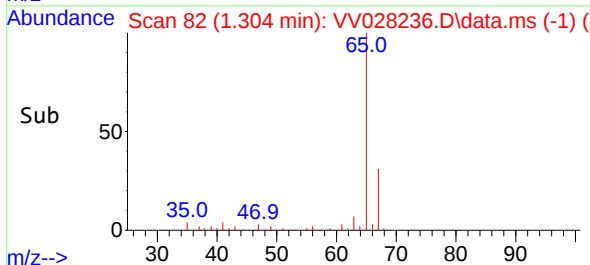
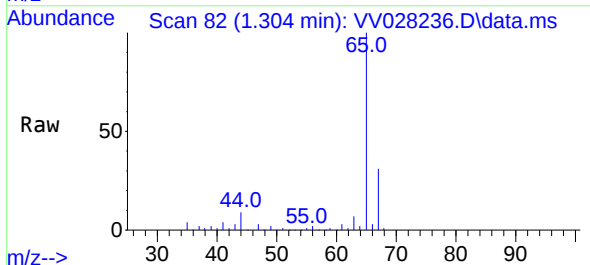
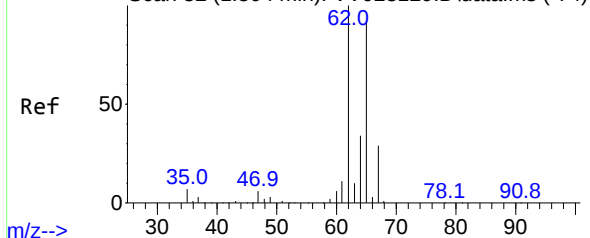
50 100

52 33.6 24.4 45.2

Abundance



Abundance Scan 82 (1.304 min): VV028129.D\data.ms (-74)



#5

Vinyl chloride

Concen: 0.058 ug/L

RT: 1.304 min Scan# 82

Delta R.T. 0.000 min

Lab File: VV028236.D

Acq: 30 Sep 2022 19:03

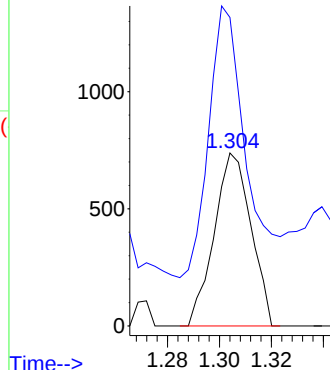
Tgt Ion: 62 Resp: 726

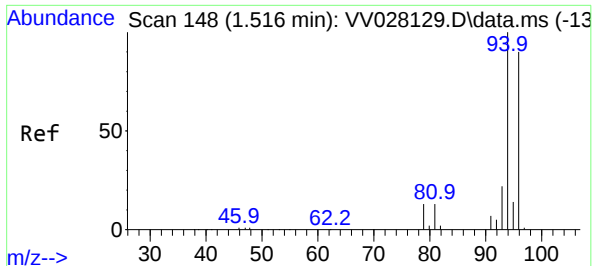
Ion Ratio Lower Upper

62 100

64 178.5 23.0 42.8#

Abundance

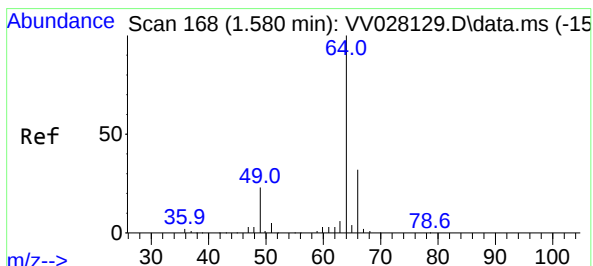
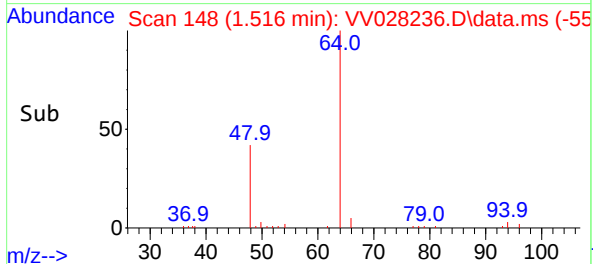
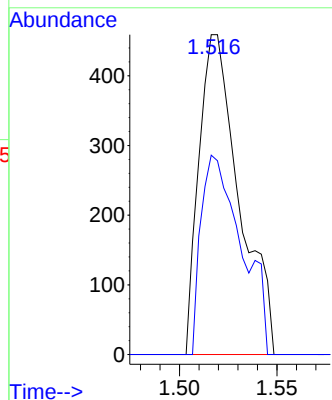
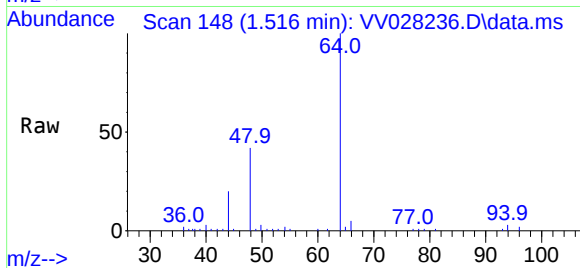




#6  
Bromomethane  
Concen: 0.080 ug/L  
RT: 1.516 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

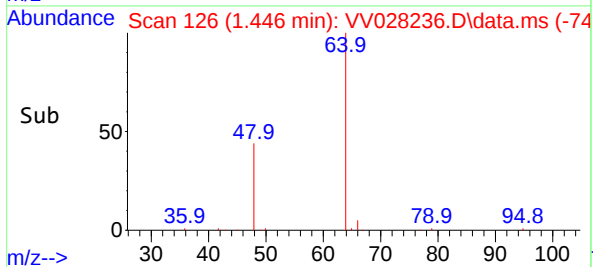
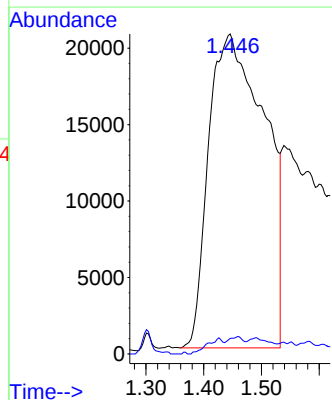
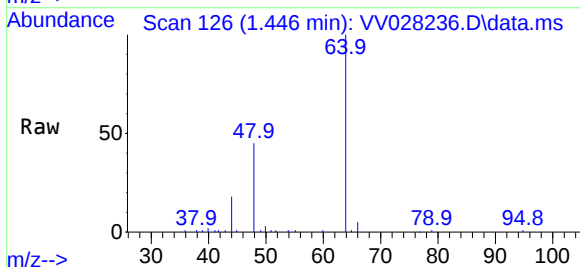
Instrument :  
MSVOA\_V  
ClientSampleId :  
EXZ54

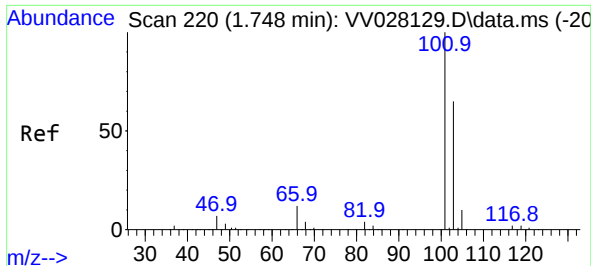
Tgt Ion: 94 Resp: 660  
Ion Ratio Lower Upper  
94 100  
96 62.3 66.7 123.9#



#8  
Chloroethane  
Concen: 16.394 ug/L  
RT: 1.446 min Scan# 126  
Delta R.T. -0.132 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Tgt Ion: 64 Resp: 138643  
Ion Ratio Lower Upper  
64 100  
66 4.8 23.0 42.8#

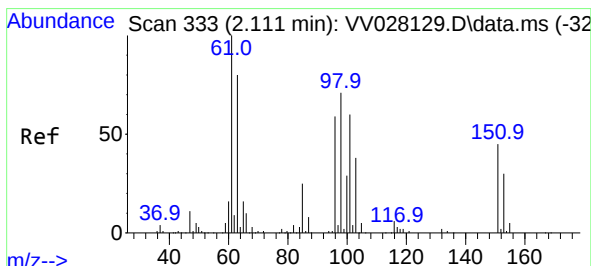
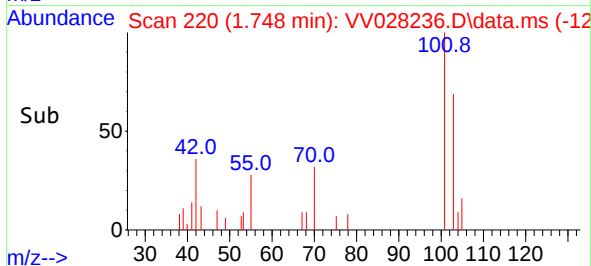
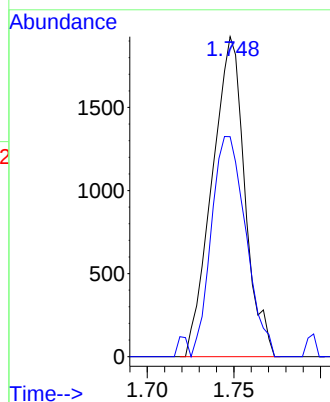
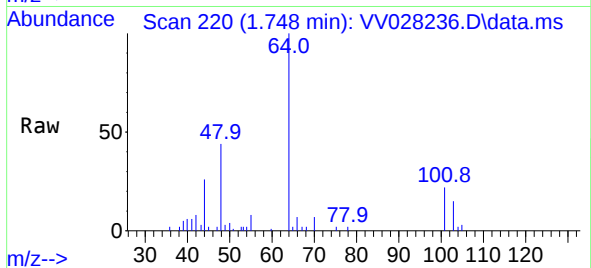




#9  
Trichlorofluoromethane  
Concen: 0.127 ug/L  
RT: 1.748 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

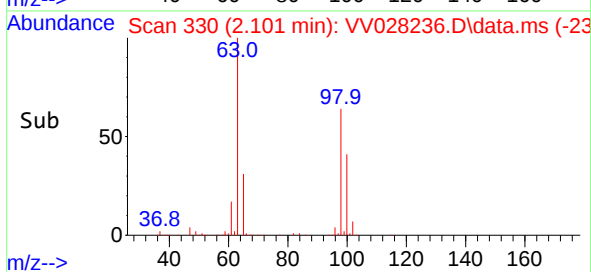
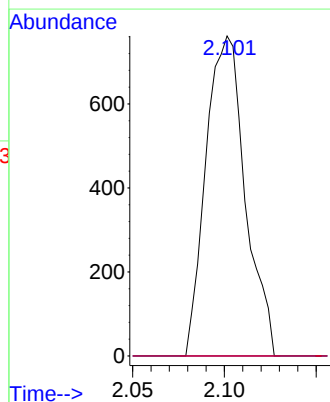
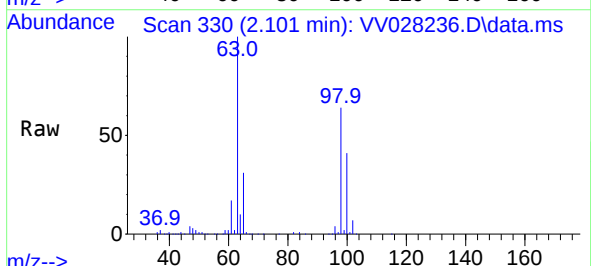
Instrument :  
MSVOA\_V  
ClientSampleId :  
EXZ54

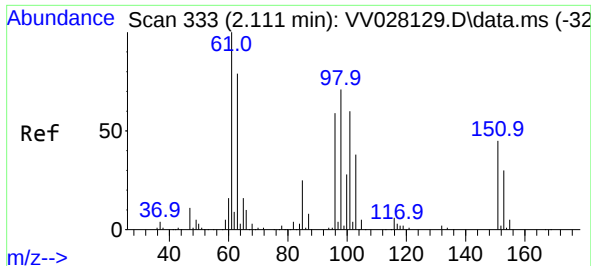
Tgt Ion:101 Resp: 2537  
Ion Ratio Lower Upper  
101 100  
103 72.3 51.4 77.0



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.098 ug/L  
RT: 2.101 min Scan# 330  
Delta R.T. -0.006 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Tgt Ion:101 Resp: 1135  
Ion Ratio Lower Upper  
101 100  
85 1.9 34.4 51.6#  
151 0.0 61.1 91.7#





#12

1,1-Dichloroethene

Concen: 0.583 ug/L

RT: 2.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VV028236.D

Acq: 30 Sep 2022 19:03

Instrument :

MSVOA\_V

ClientSampleId :

EXZ54

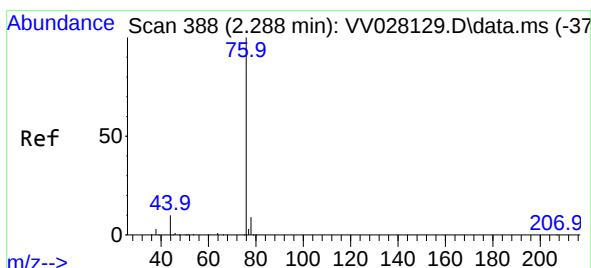
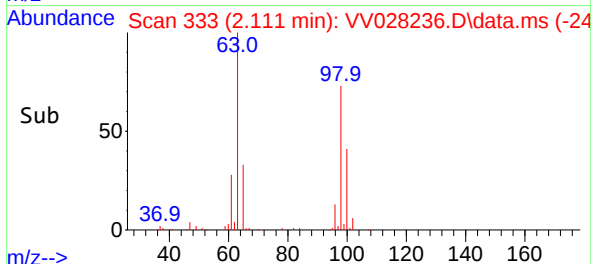
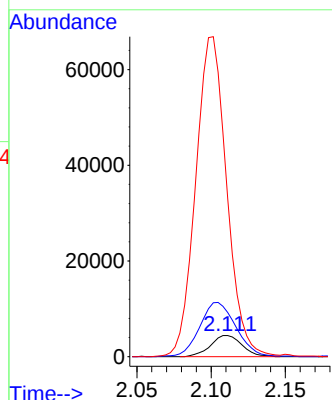
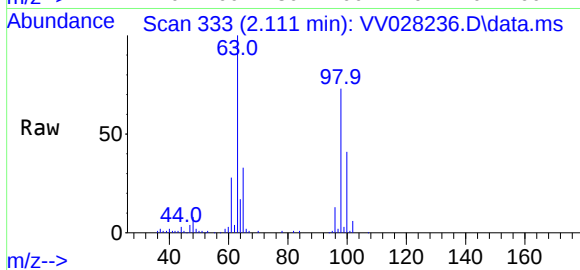
Tgt Ion: 96 Resp: 6550

Ion Ratio Lower Upper

96 100

61 208.0 128.3 238.3

63 745.1 112.7 209.3#



#14

Carbon disulfide

Concen: 0.095 ug/L

RT: 2.288 min Scan# 388

Delta R.T. 0.003 min

Lab File: VV028236.D

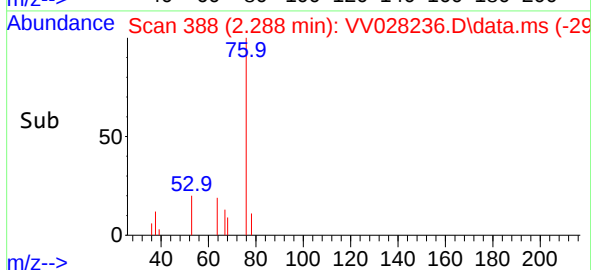
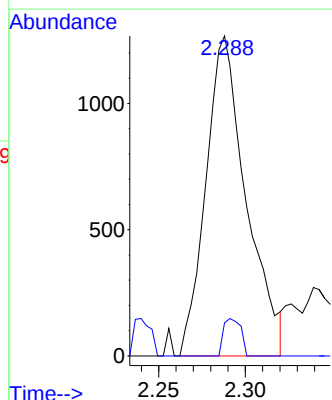
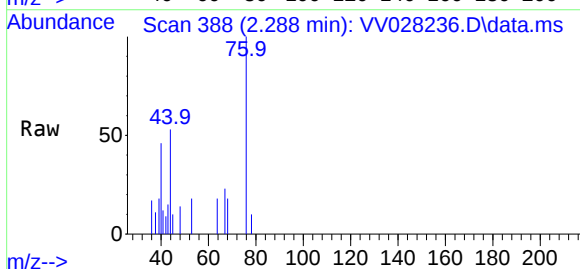
Acq: 30 Sep 2022 19:03

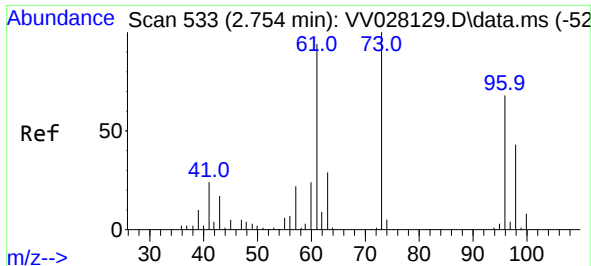
Tgt Ion: 76 Resp: 2054

Ion Ratio Lower Upper

76 100

78 10.3 7.6 11.4

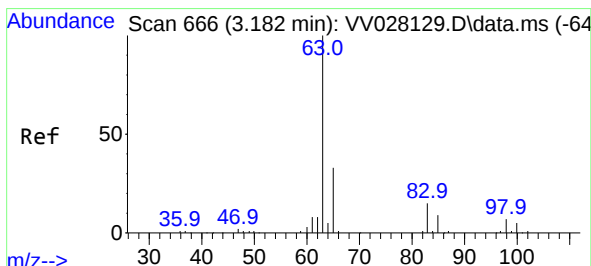
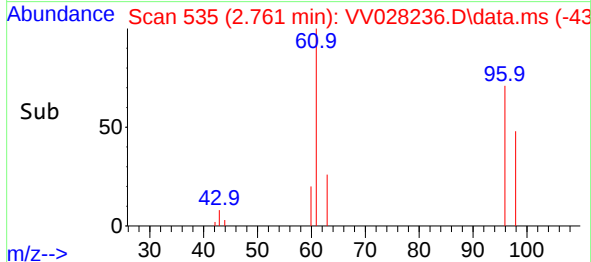
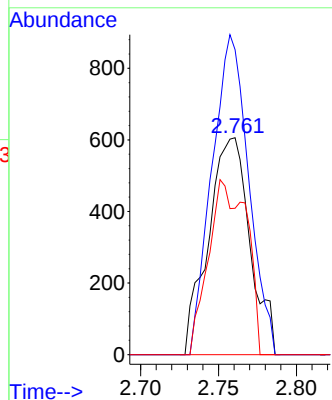
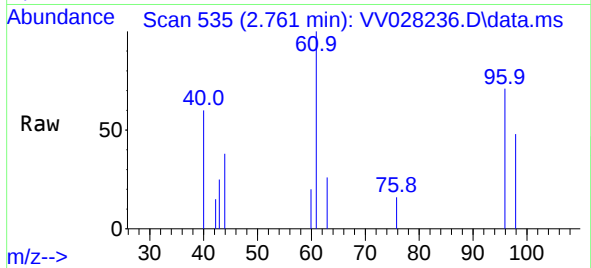




#18  
trans-1,2-Dichloroethene  
Concen: 0.115 ug/L  
RT: 2.761 min Scan# 511  
Delta R.T. 0.010 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

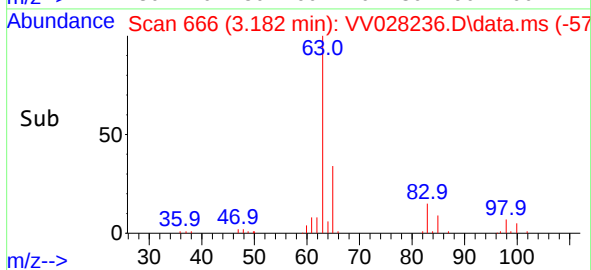
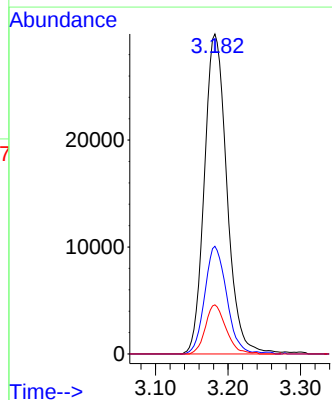
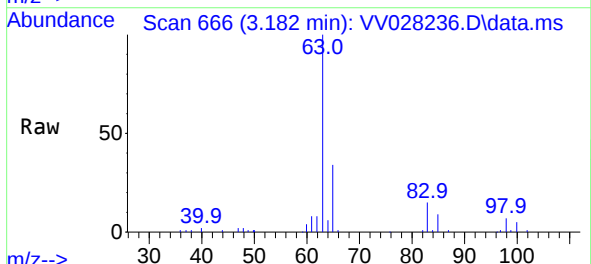
Instrument :  
MSVOA\_V  
ClientSampleId :  
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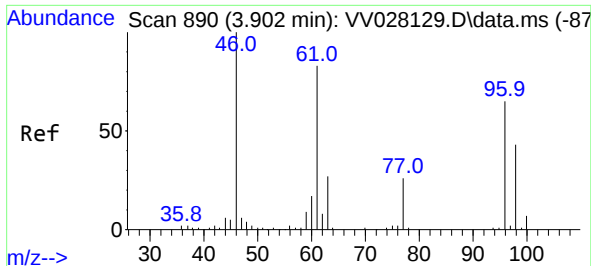
Tgt Ion: 96 Resp: 1129  
Ion Ratio Lower Upper  
96 100  
61 140.6 96.2 178.6  
98 67.5 45.7 84.9



#19  
1,1-Dichloroethane  
Concen: 3.009 ug/L  
RT: 3.182 min Scan# 666  
Delta R.T. 0.000 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Tgt Ion: 63 Resp: 64592  
Ion Ratio Lower Upper  
63 100  
65 33.7 23.0 42.8  
83 15.4 9.2 17.2

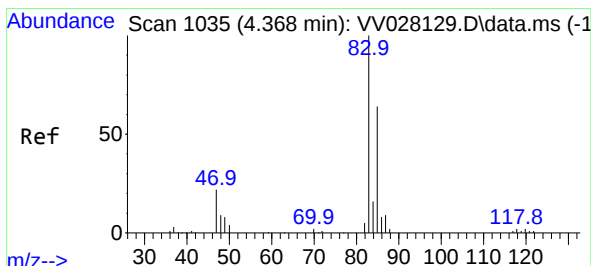
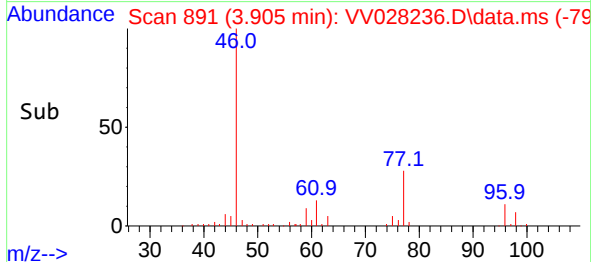
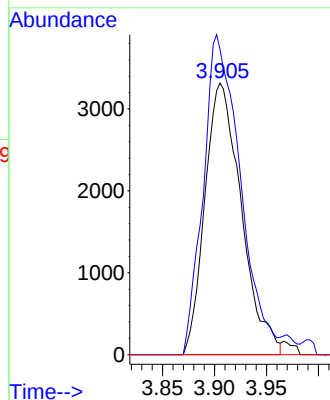
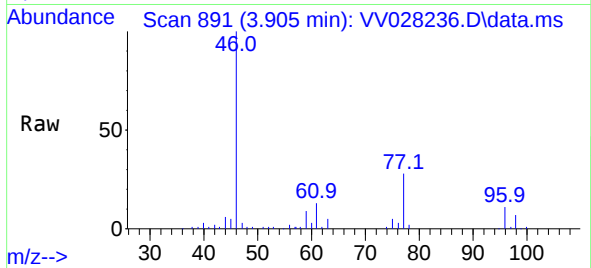




#22  
cis-1,2-Dichloroethene  
Concen: 0.626 ug/L  
RT: 3.905 min Scan# 891  
Delta R.T. 0.006 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

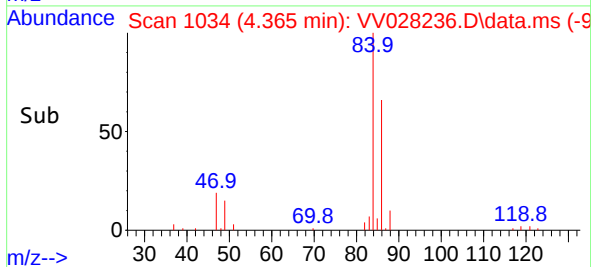
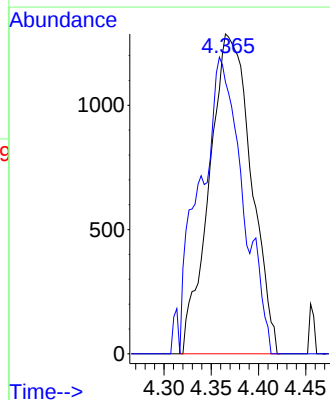
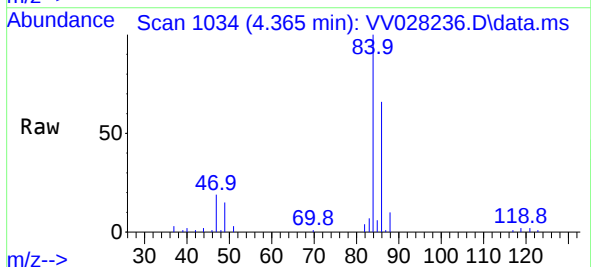
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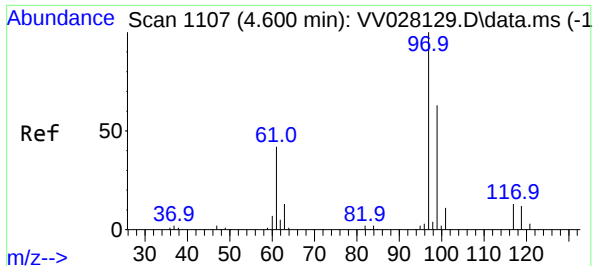
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Ion Ratio Lower Upper  
96 100  
61 112.4 87.2 161.9  
68 0.0 0.0 0.0



#25  
Chloroform  
Concen: 0.172 ug/L  
RT: 4.365 min Scan# 1034  
Delta R.T. 0.003 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Tgt Ion: 83 Resp: 3966  
Ion Ratio Lower Upper  
83 100  
85 84.9 45.1 83.7#





#29

1,1,1-Trichloroethane

Concen: 3.333 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. 0.000 min

Lab File: VV028236.D

Acq: 30 Sep 2022 19:03

Instrument :

MSVOA\_V

ClientSampleId :

EXZ54

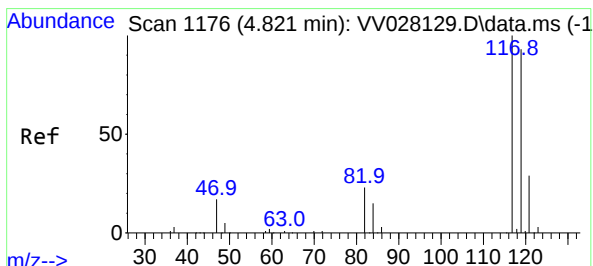
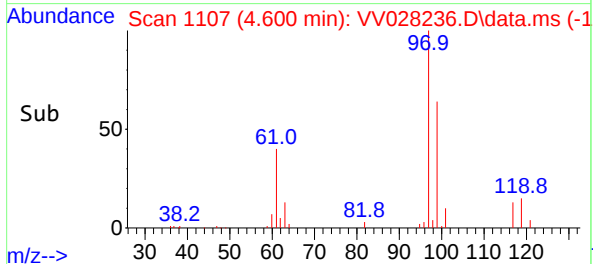
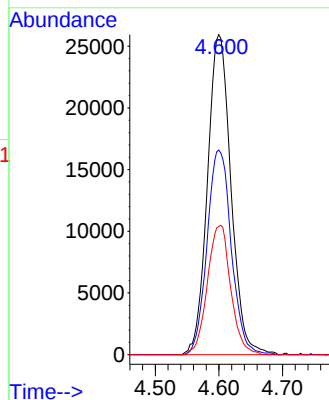
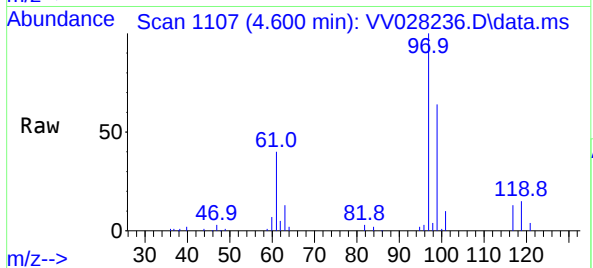
Tgt Ion: 97 Resp: 66711

Ion Ratio Lower Upper

97 100

99 65.7 51.9 77.9

61 40.0 34.8 52.2



#31

Carbon tetrachloride

Concen: 0.562 ug/L

RT: 4.606 min Scan# 1109

Delta R.T. -0.212 min

Lab File: VV028236.D

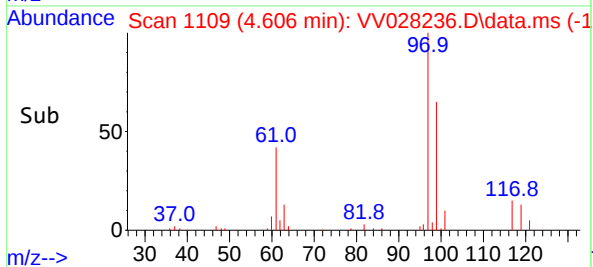
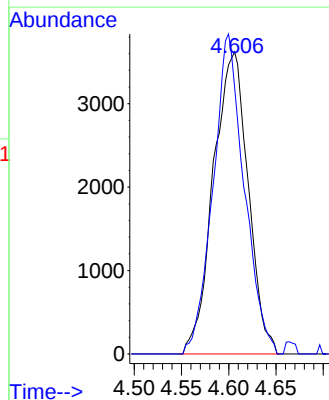
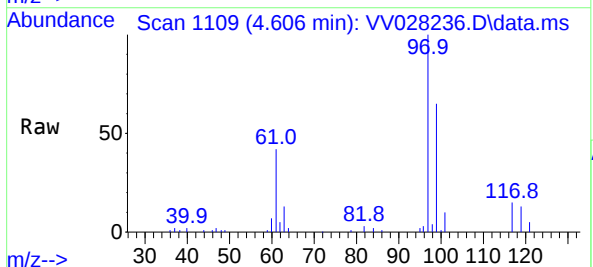
Acq: 30 Sep 2022 19:03

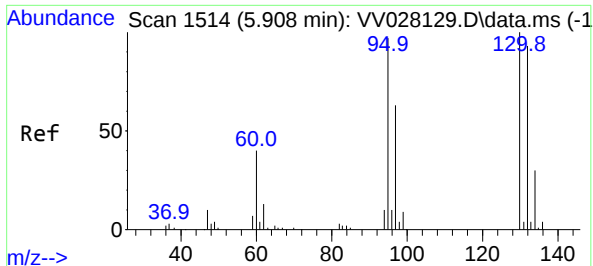
Tgt Ion: 117 Resp: 9258

Ion Ratio Lower Upper

117 100

119 94.9 76.9 115.3

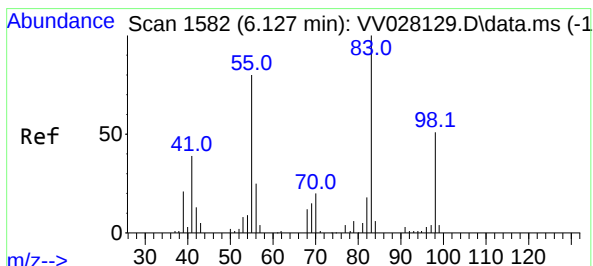
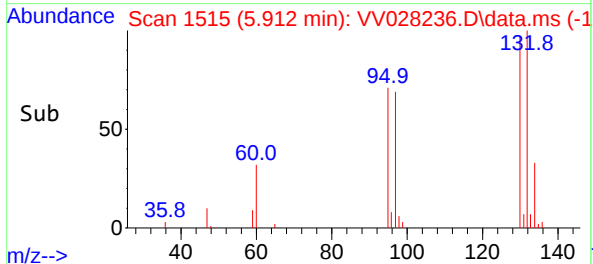
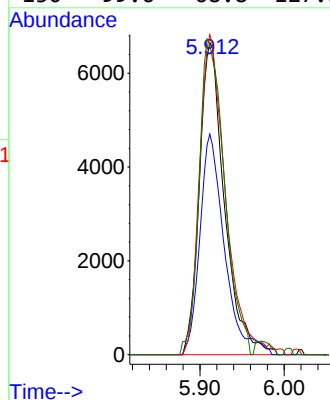
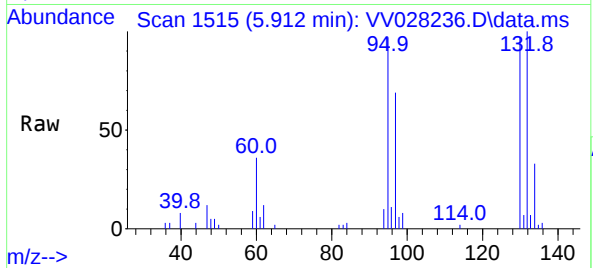




#34  
Trichloroethene  
Concen: 1.223 ug/L  
RT: 5.912 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

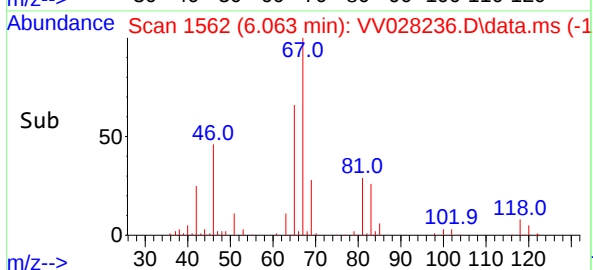
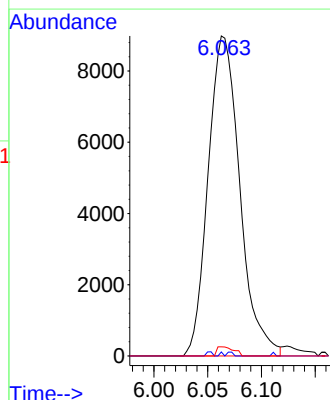
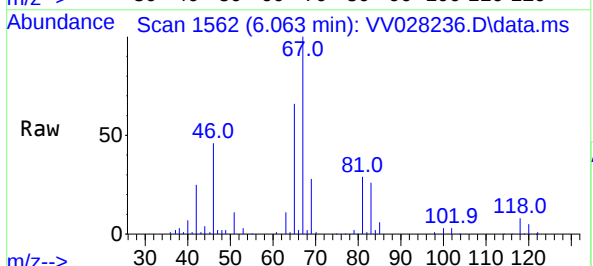
Instrument :  
MSVOA\_V  
ClientSampleId :  
EXZ54

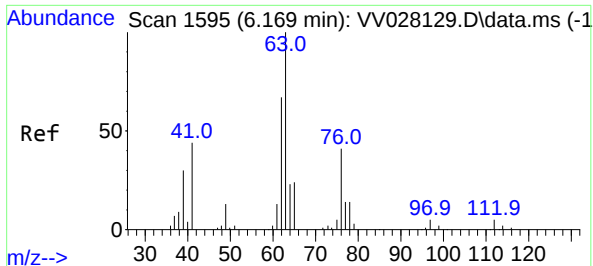
Tgt Ion: 95 Resp: 13770  
Ion Ratio Lower Upper  
95 100  
97 70.7 44.2 82.0  
132 102.6 67.8 126.0  
130 99.6 68.8 127.8



#35  
Methylcyclohexane  
Concen: 1.191 ug/L  
RT: 6.063 min Scan# 1562  
Delta R.T. -0.058 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Tgt Ion: 83 Resp: 18400  
Ion Ratio Lower Upper  
83 100  
55 0.3 64.7 97.1#  
98 1.5 39.5 59.3#

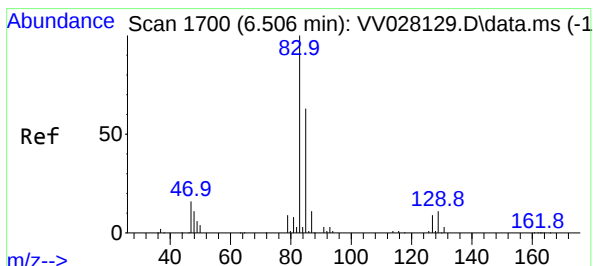
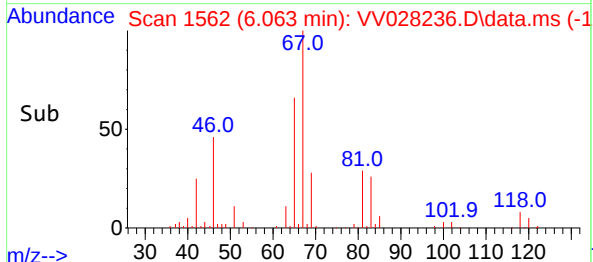
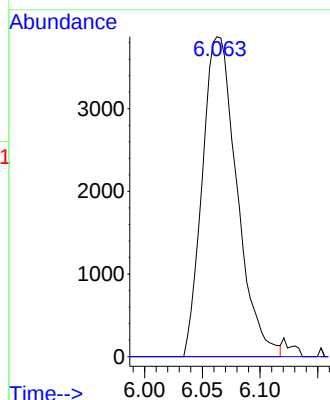
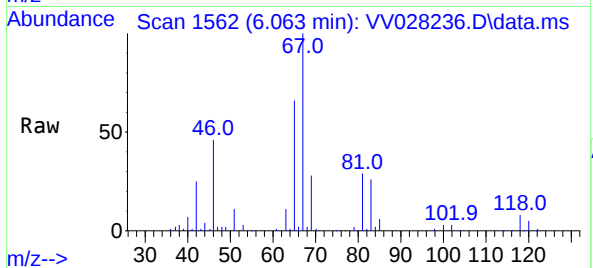




#37  
1,2-Dichloropropane  
Concen: 0.636 ug/L  
RT: 6.063 min Scan# 11  
Delta R.T. -0.103 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

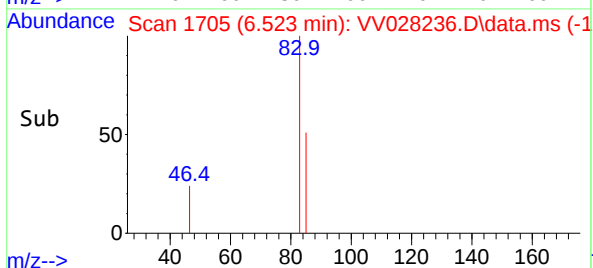
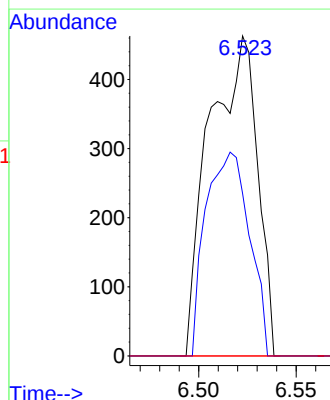
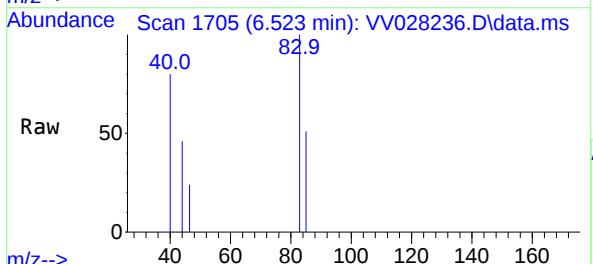
Instrument :  
MSVOA\_V  
ClientSampleId :  
EXZ54

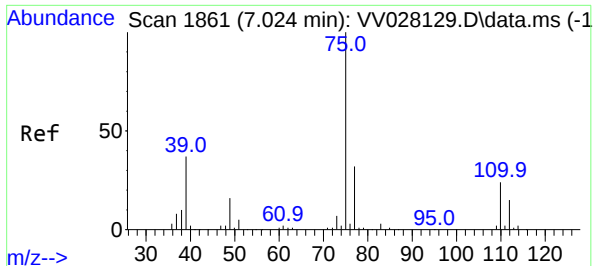
Tgt Ion: 63 Resp: 8062  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.5 5.3#



#38  
Bromodichloromethane  
Concen: 0.051 ug/L  
RT: 6.523 min Scan# 1705  
Delta R.T. 0.019 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Tgt Ion: 83 Resp: 791  
Ion Ratio Lower Upper  
83 100  
85 50.8 43.8 81.4  
127 0.0 6.3 9.5#





#39

cis-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 6.982 min Scan# 11

Delta R.T. -0.039 min

Lab File: VV028236.D

Acq: 30 Sep 2022 19:03

Instrument :

MSVOA\_V

ClientSampleId :

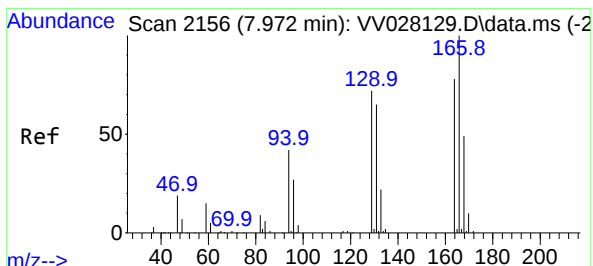
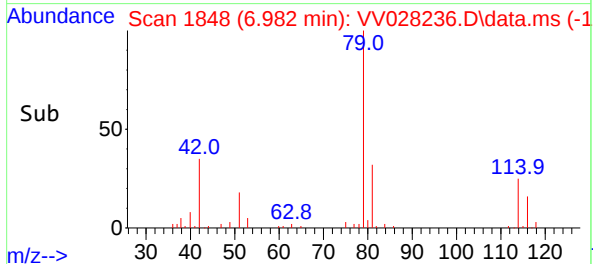
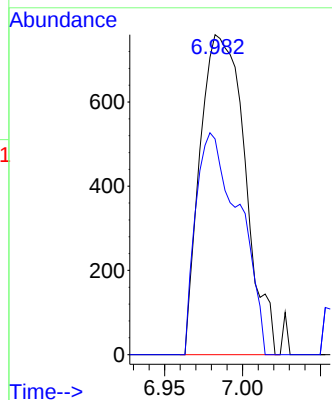
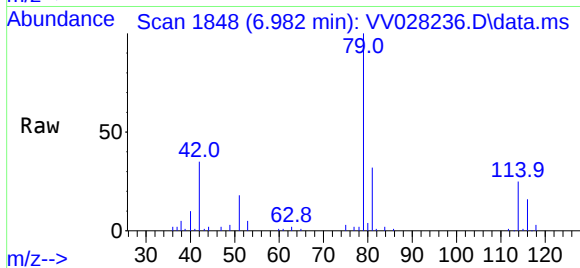
EXZ54

Tgt Ion: 75 Resp: 1517

Ion Ratio Lower Upper

75 100

77 67.4 22.4 41.6#



#47

Tetrachloroethene

Concen: 0.457 ug/L

RT: 7.973 min Scan# 2156

Delta R.T. 0.003 min

Lab File: VV028236.D

Acq: 30 Sep 2022 19:03

Tgt Ion:164 Resp: 4112

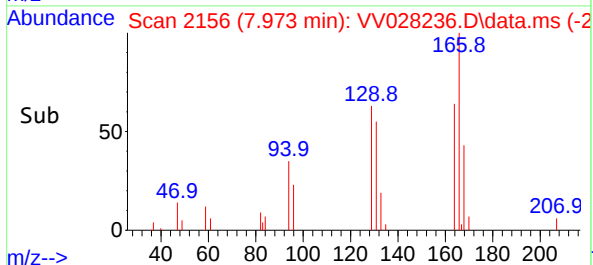
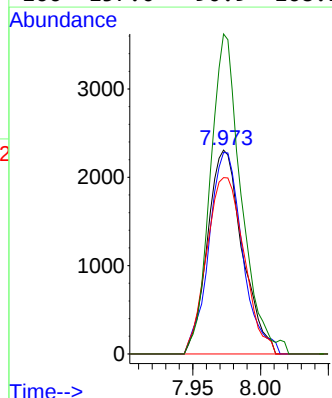
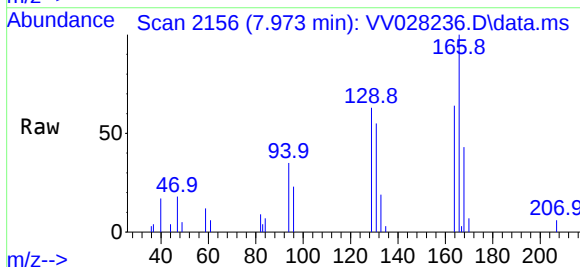
Ion Ratio Lower Upper

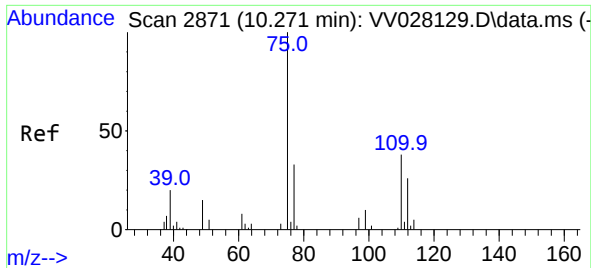
164 100

129 98.8 66.7 123.9

131 86.5 61.7 114.5

166 157.0 90.9 168.9





#61  
1,2,3-Trichloropropane  
Concen: 1.086 ug/L  
RT: 11.246 min Scan# 31  
Delta R.T. 0.977 min  
Lab File: VV028236.D  
Acq: 30 Sep 2022 19:03

Instrument :  
MSVOA\_V  
ClientSampleId :  
EXZ54

Tgt Ion: 75 Resp: 6873  
Ion Ratio Lower Upper  
75 100  
77 34.4 26.7 40.1  
110 1.7 30.1 45.1#

