

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW112022\  
 Data File : VW029230.D  
 Acq On : 20 Nov 2022 17:15  
 Operator : SY/MD  
 Sample : N5652-07  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 21 00:59:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Nov 21 00:54:18 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| Internal Standards            |        |                |          |        |          |          |
| 1) 1,4-Difluorobenzene        | 5.612  | 114            | 306387   | 5.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.847  | 117            | 289220   | 5.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.242 | 152            | 126516   | 5.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 4) Vinyl Chloride-d3          | 1.307  | 65             | 91375    | 4.892  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 40 - 130 | Recovery | =      | 97.800%  |          |
| 7) Chloroethane-d5            | 1.568  | 69             | 78961    | 4.809  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 130 | Recovery | =      | 96.200%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.105  | 63             | 119650   | 3.515  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 125 | Recovery | =      | 70.200%  |          |
| 20) 2-Butanone-d5             | 3.899  | 46             | 182874   | 58.487 | ug/L     | 0.02     |
| Spiked Amount                 | 50.000 | Range 40 - 130 | Recovery | =      | 116.980% |          |
| 24) Chloroform-d              | 4.342  | 84             | 176801   | 4.610  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =      | 92.200%  |          |
| 26) 1,2-Dichloroethane-d4     | 5.030  | 65             | 83757    | 4.854  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =      | 97.000%  |          |
| 32) Benzene-d6                | 5.047  | 84             | 366305   | 4.243  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =      | 84.800%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.066  | 67             | 107668   | 4.466  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 140 | Recovery | =      | 89.400%  |          |
| 41) Toluene-d8                | 7.310  | 98             | 317023   | 4.080  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =      | 81.600%  |          |
| 43) trans-1,3-Dichloroprop... | 7.622  | 79             | 32967    | 4.193  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 55 - 130 | Recovery | =      | 83.800%  |          |
| 46) 2-Hexanone-d5             | 8.088  | 63             | 149973   | 44.689 | ug/L     | 0.00     |
| Spiked Amount                 | 50.000 | Range 45 - 130 | Recovery | =      | 89.380%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.207 | 84             | 77922    | 4.662  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 120 | Recovery | =      | 93.200%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.615 | 152            | 115143   | 5.087  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 80 - 120 | Recovery | =      | 101.800% |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 2) Dichlorodifluoromethane    | 1.130  | 85             | 70211    | 2.749  | ug/L     | 98       |
| 3) Chloromethane              | 1.240  | 50             | 3195     | 0.151  | ug/L     | 89       |
| 8) Chloroethane               | 1.474  | 64             | 24191    | 1.703  | ug/L #   | 51       |
| 9) Trichlorofluoromethane     | 1.751  | 101            | 125952   | 3.863  | ug/L     | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.111  | 101            | 3648     | 0.198  | ug/L #   | 66       |
| 12) 1,1-Dichloroethene        | 2.111  | 96             | 1811     | 0.098  | ug/L #   | 1        |
| 17) Methyl tert-butyl Ether   | 2.764  | 73             | 192877   | 4.850  | ug/L     | 99       |
| 19) 1,1-Dichloroethane        | 3.188  | 63             | 18322    | 0.521  | ug/L     | 99       |
| 22) cis-1,2-Dichloroethene    | 3.915  | 96             | 1731     | 0.079  | ug/L     | 88       |
| 25) Chloroform                | 4.375  | 83             | 16918    | 0.459  | ug/L     | 99       |
| 29) 1,1,1-Trichloroethane     | 4.603  | 97             | 1106     | 0.033  | ug/L #   | 40       |
| 34) Trichloroethene           | 5.915  | 95             | 36355    | 1.607  | ug/L     | 99       |
| 35) Methylcyclohexane         | 6.066  | 83             | 26652    | 0.670  | ug/L #   | 21       |
| 37) 1,2-Dichloropropane       | 6.066  | 63             | 11899    | 0.584  | ug/L #   | 86       |
| 38) Bromodichloromethane      | 6.516  | 83             | 2028     | 0.079  | ug/L #   | 73       |
| 47) Tetrachloroethene         | 7.973  | 164            | 7855     | 0.434  | ug/L     | 92       |
| 49) Dibromochloromethane      | 7.973  | 129            | 7224     | 0.448  | ug/L #   | 10       |
| 61) 1,2,3-Trichloropropane    | 11.242 | 75             | 13834    | 1.600  | ug/L #   | 65       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV112022\  
Data File : VV029230.D  
Acq On : 20 Nov 2022 17:15  
Operator : SY/MD  
Sample : N5652-07  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Nov 21 00:59:18 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Mon Nov 21 00:54:18 2022  
Response via : Initial Calibration

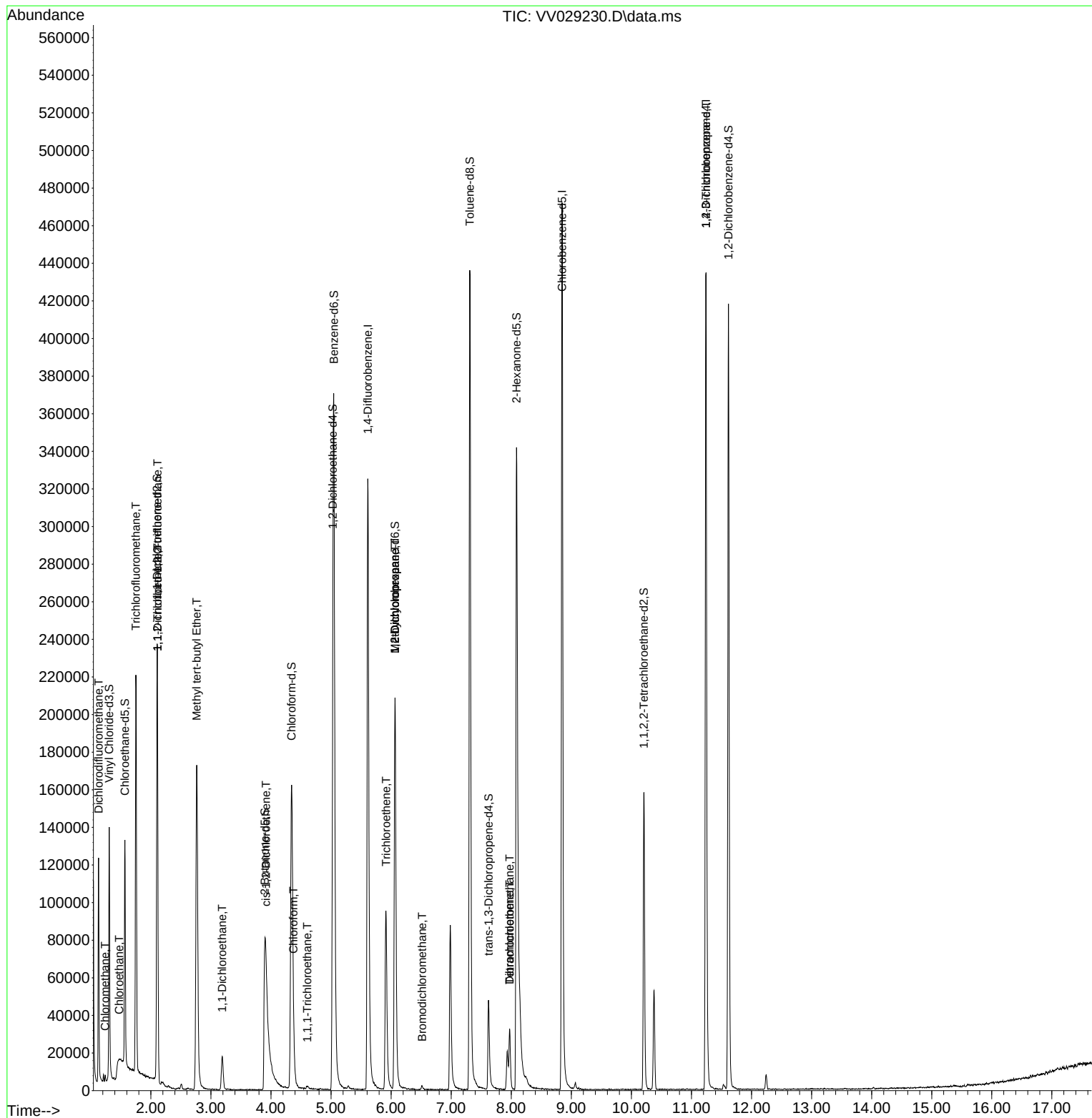
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

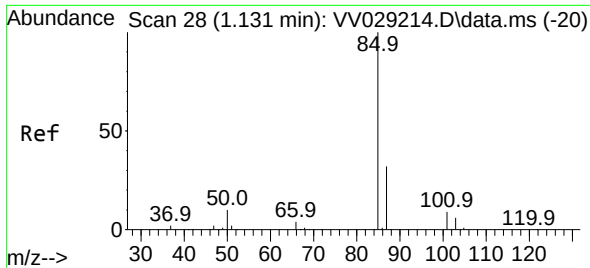
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV112022\  
Data File : VV029230.D  
Acq On : 20 Nov 2022 17:15  
Operator : SY/MD  
Sample : N5652-07  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Nov 21 00:59:18 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Mon Nov 21 00:54:18 2022  
Response via : Initial Calibration

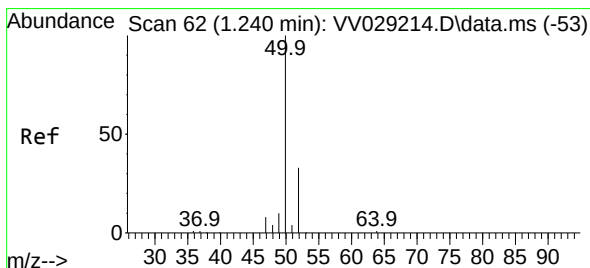
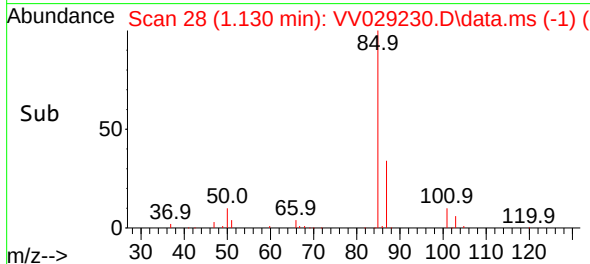
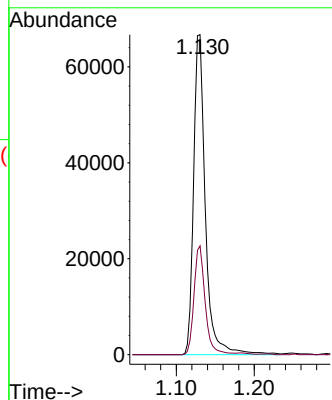
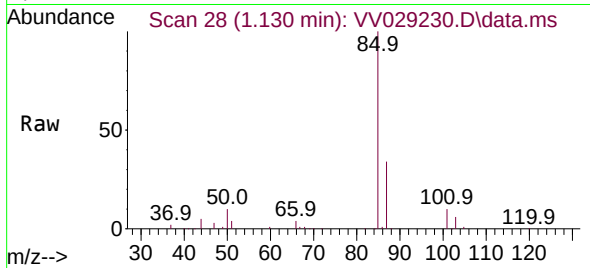




#2  
 Dichlorodifluoromethane  
 Concen: 2.749 ug/L  
 RT: 1.130 min Scan# 28  
 Delta R.T. -0.000 min  
 Lab File: VV029230.D  
 Acq: 20 Nov 2022 17:15

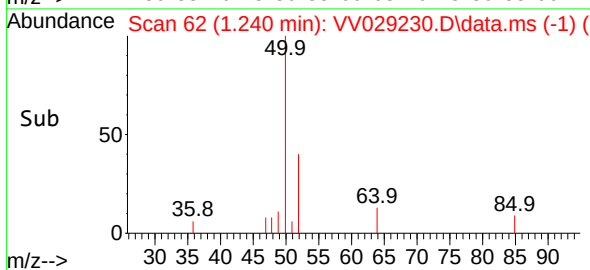
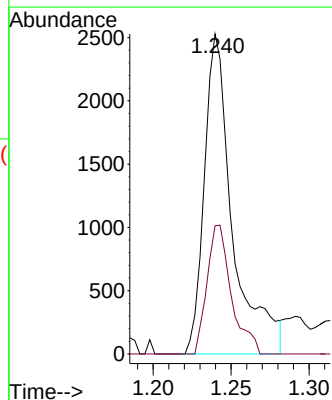
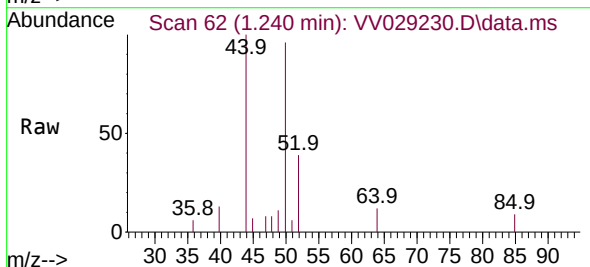
Instrument :  
 MSVOA\_V  
 ClientSampleId :

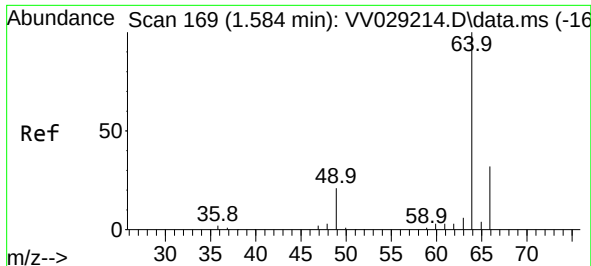
Tgt Ion: 85 Resp: 70211  
 Ion Ratio Lower Upper  
 85 100  
 87 32.2 25.0 37.4



#3  
 Chloromethane  
 Concen: 0.151 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. -0.000 min  
 Lab File: VV029230.D  
 Acq: 20 Nov 2022 17:15

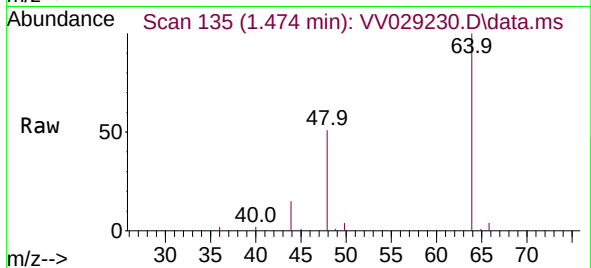
Tgt Ion: 50 Resp: 3195  
 Ion Ratio Lower Upper  
 50 100  
 52 40.1 23.7 43.9



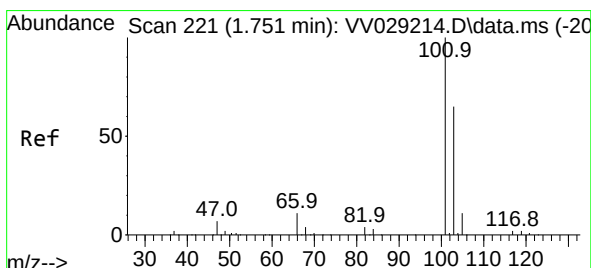
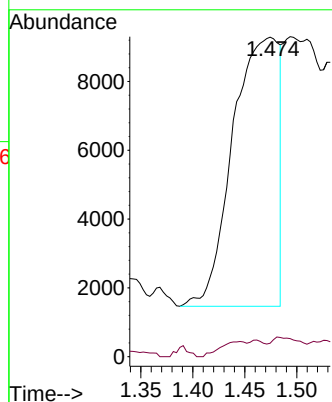
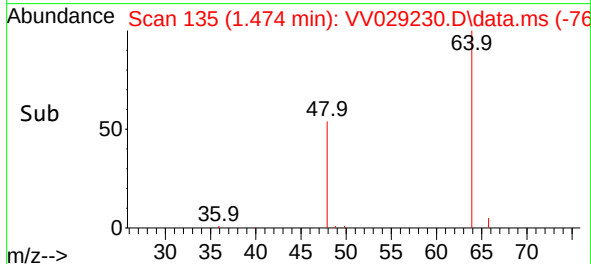


#8  
Chloroethane  
Concen: 1.703 ug/L  
RT: 1.474 min Scan# 11  
Delta R.T. -0.109 min  
Lab File: VV029230.D  
Acq: 20 Nov 2022 17:15

Instrument :  
MSVOA\_V  
ClientSampleId :

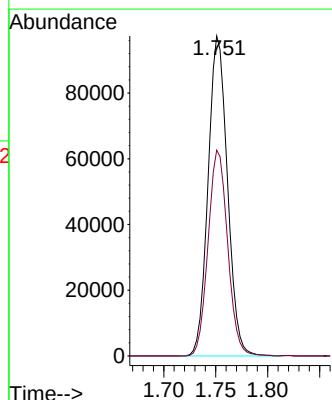
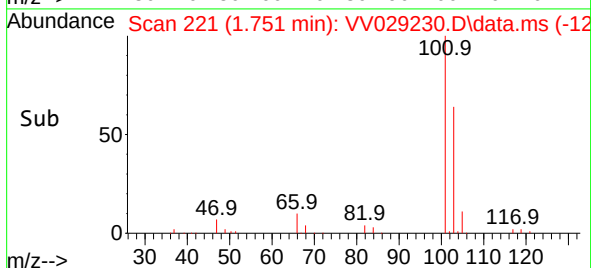
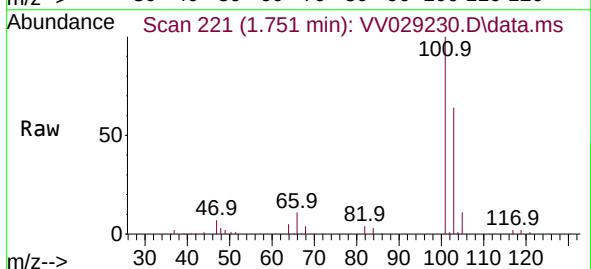


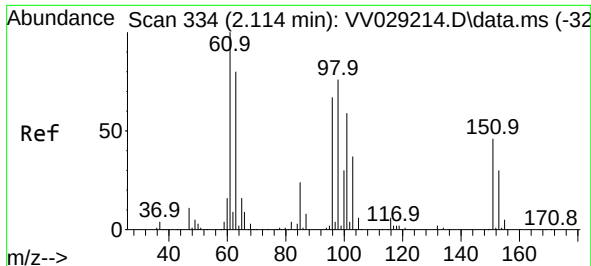
Tgt Ion: 64 Resp: 24191  
Ion Ratio Lower Upper  
64 100  
66 4.2 22.0 40.8#



#9  
Trichlorofluoromethane  
Concen: 3.863 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. -0.000 min  
Lab File: VV029230.D  
Acq: 20 Nov 2022 17:15

Tgt Ion:101 Resp: 125952  
Ion Ratio Lower Upper  
101 100  
103 65.0 51.3 76.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.198 ug/L

RT: 2.111 min Scan# 333

Delta R.T. -0.003 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

Instrument :

MSVOA\_V

ClientSampleId :

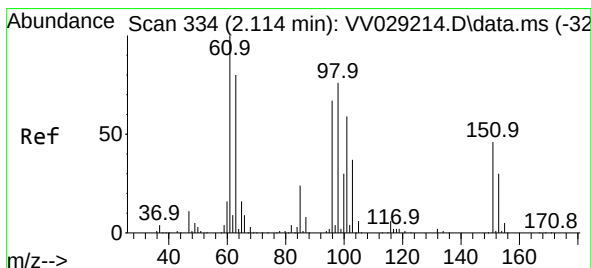
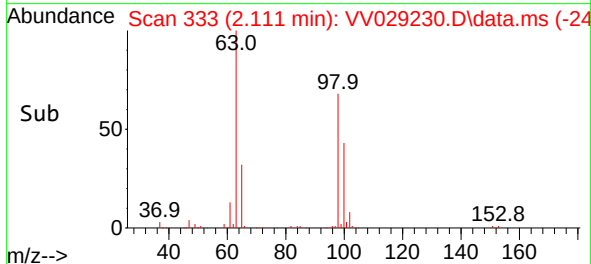
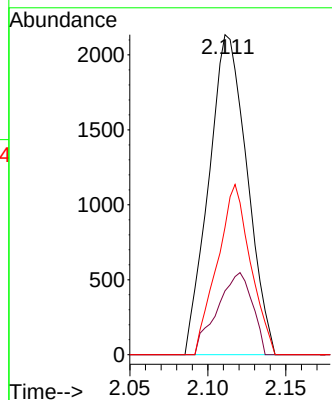
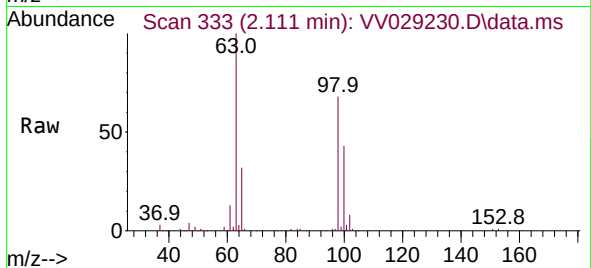
Tgt Ion:101 Resp: 3648

Ion Ratio Lower Upper

101 100

85 23.4 32.9 49.3#

151 46.2 62.5 93.7#



#12

1,1-Dichloroethene

Concen: 0.098 ug/L

RT: 2.111 min Scan# 333

Delta R.T. -0.003 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

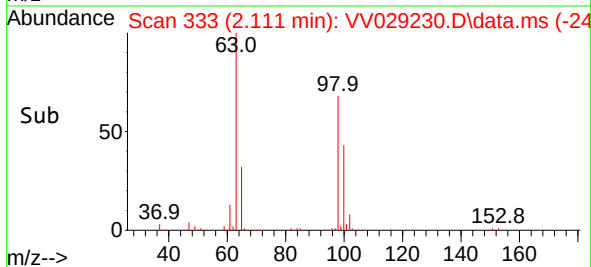
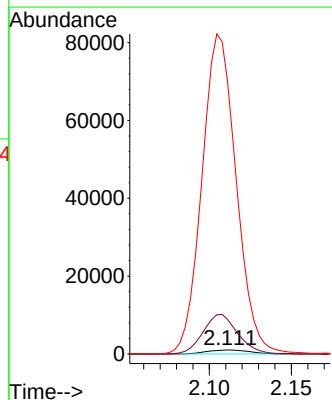
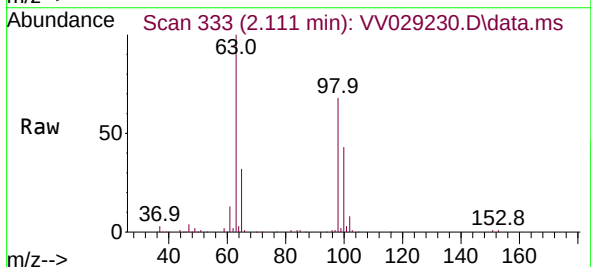
Tgt Ion: 96 Resp: 1811

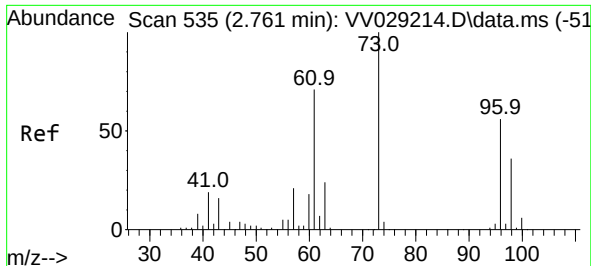
Ion Ratio Lower Upper

96 100

61 878.2 104.2 193.4#

63 6909.2 75.9 140.9#

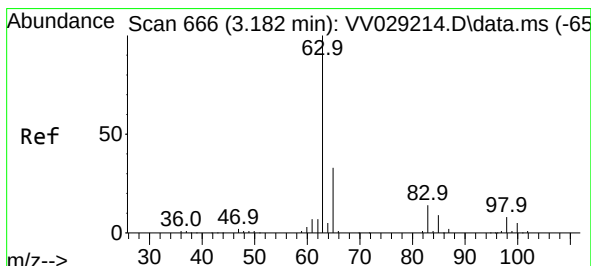
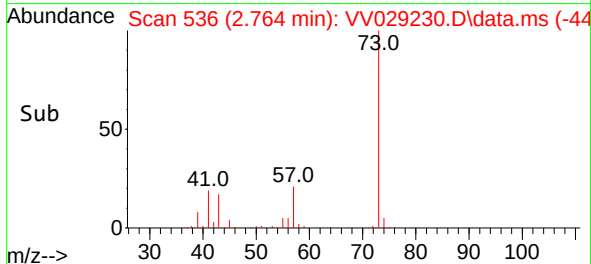
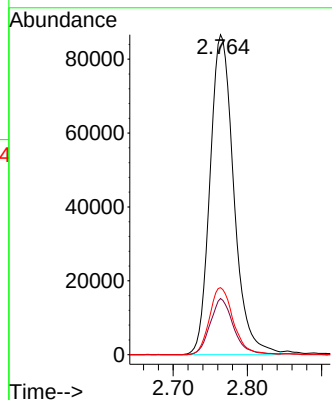
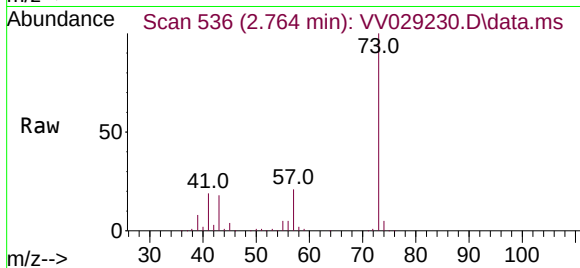




#17  
Methyl tert-butyl Ether  
Concen: 4.850 ug/L  
RT: 2.764 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VV029230.D  
Acq: 20 Nov 2022 17:15

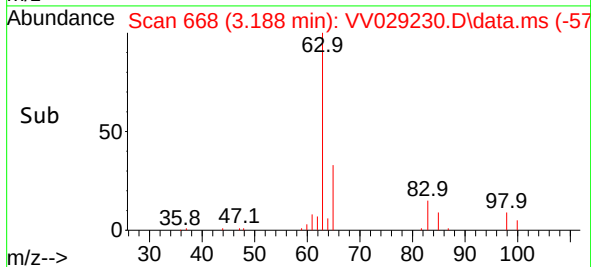
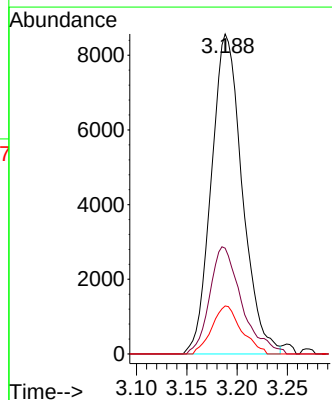
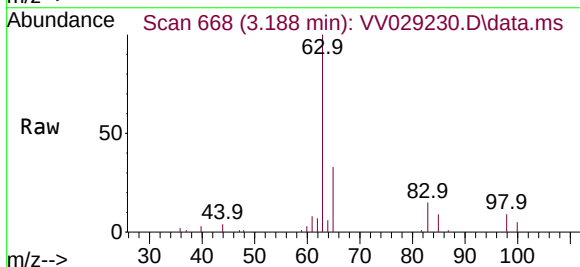
Instrument :  
MSVOA\_V  
ClientSampleId :

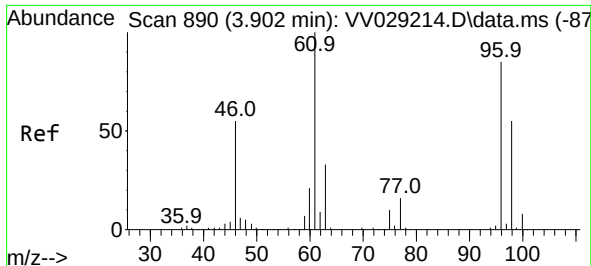
Tgt Ion: 73 Resp: 192877  
Ion Ratio Lower Upper  
73 100  
43 17.2 13.0 19.4  
57 21.0 16.6 24.8



#19  
1,1-Dichloroethane  
Concen: 0.521 ug/L  
RT: 3.188 min Scan# 668  
Delta R.T. 0.006 min  
Lab File: VV029230.D  
Acq: 20 Nov 2022 17:15

Tgt Ion: 63 Resp: 18322  
Ion Ratio Lower Upper  
63 100  
65 33.0 23.0 42.6  
83 15.0 9.4 17.6





#22

cis-1,2-Dichloroethene

Concen: 0.079 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.013 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

Instrument :

MSVOA\_V

ClientSampleId :

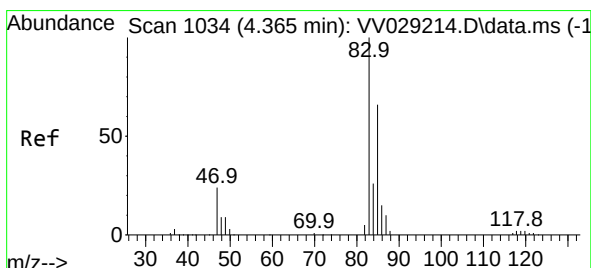
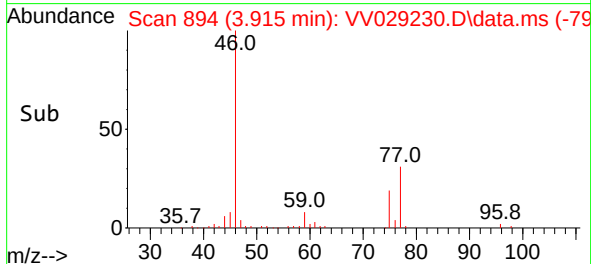
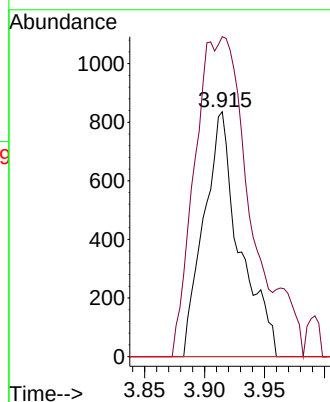
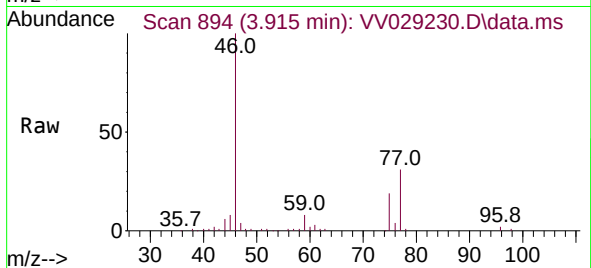
Tgt Ion: 96 Resp: 1731

Ion Ratio Lower Upper

96 100

61 130.6 82.3 152.9

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.459 ug/L

RT: 4.375 min Scan# 1037

Delta R.T. 0.009 min

Lab File: VV029230.D

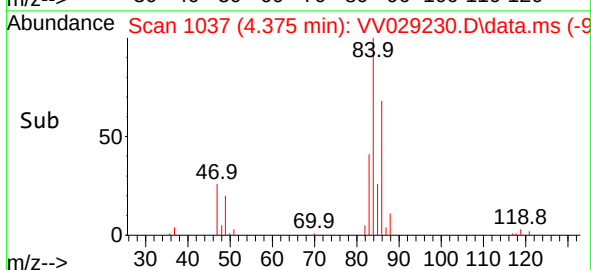
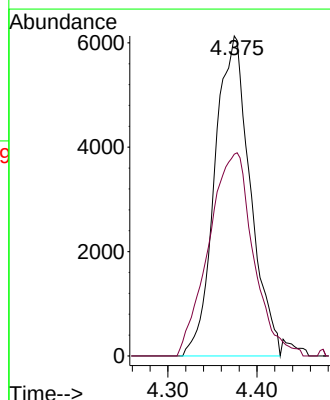
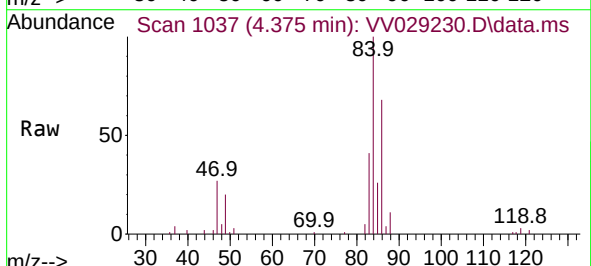
Acq: 20 Nov 2022 17:15

Tgt Ion: 83 Resp: 16918

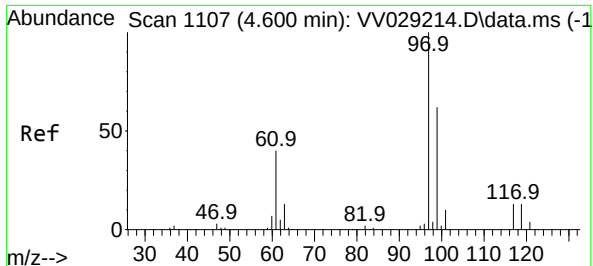
Ion Ratio Lower Upper

83 100

85 63.0 43.7 81.1







#29

1,1,1-Trichloroethane

Concen: 0.033 ug/L

RT: 4.603 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

Instrument :

MSVOA\_V

ClientSampleId :

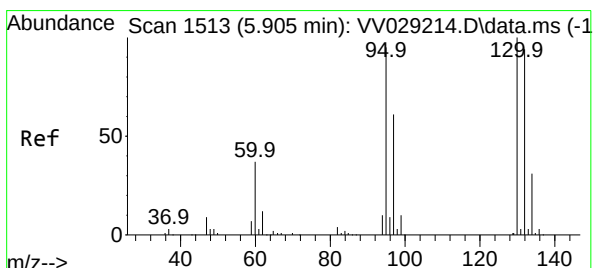
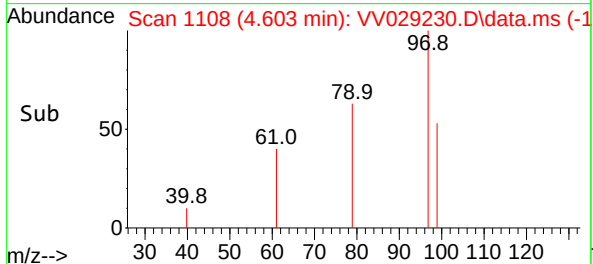
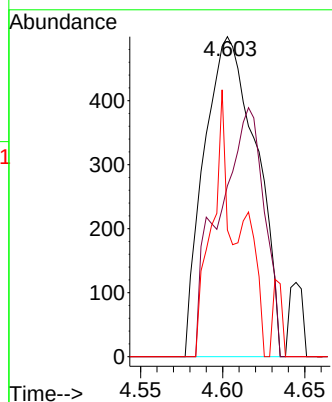
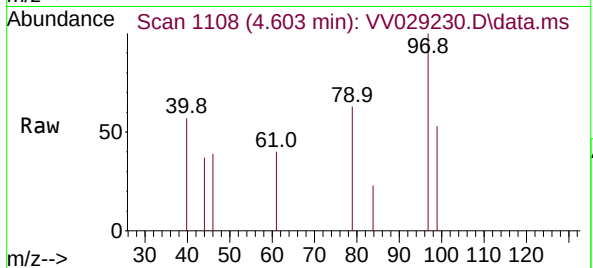
Tgt Ion: 97 Resp: 1106

Ion Ratio Lower Upper

97 100

99 0.0 52.7 79.1#

61 26.5 33.8 50.6#



#34

Trichloroethene

Concen: 1.607 ug/L

RT: 5.915 min Scan# 1516

Delta R.T. 0.009 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

Tgt Ion: 95 Resp: 36355

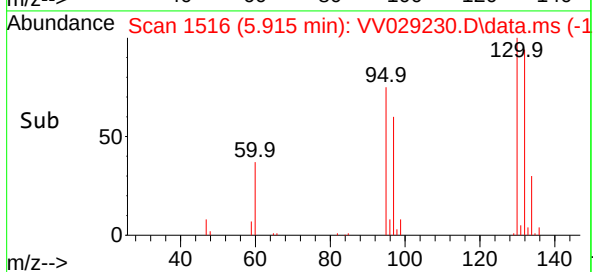
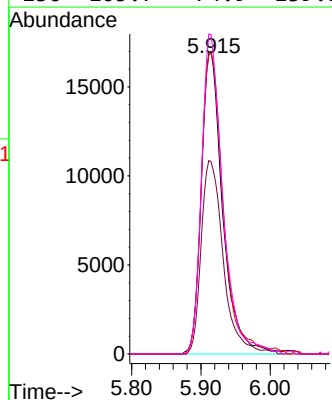
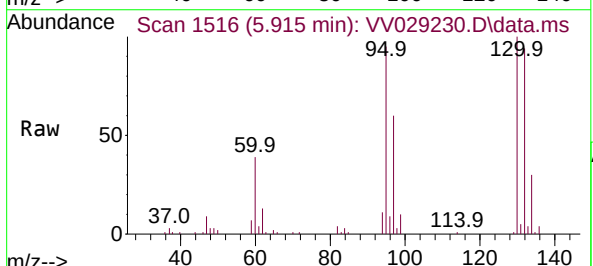
Ion Ratio Lower Upper

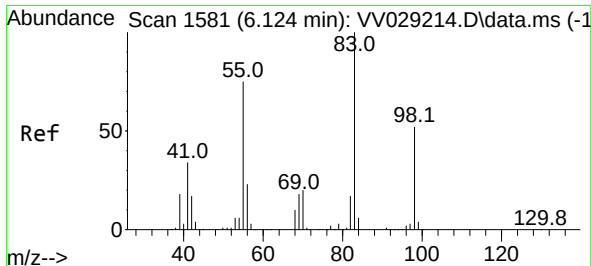
95 100

97 63.6 45.6 84.8

132 99.6 69.1 128.3

130 105.7 74.9 139.1





#35

Methylcyclohexane

Concen: 0.670 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.058 min

Lab File: VV029230.D

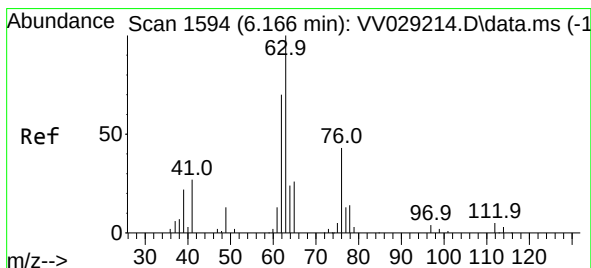
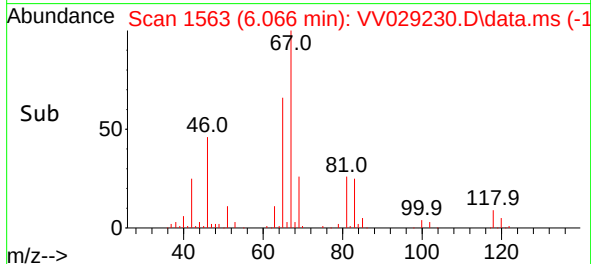
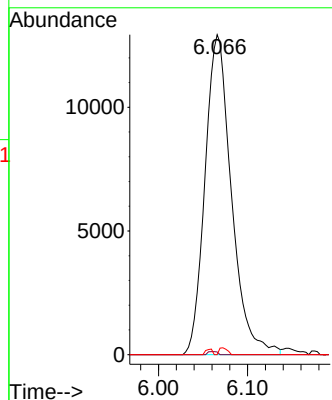
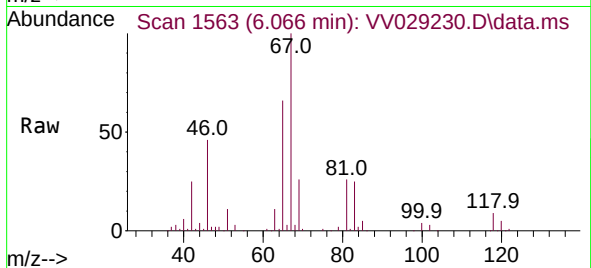
Acq: 20 Nov 2022 17:15

Instrument :

MSVOA\_V

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 26652 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.0   | 55.8  | 83.6# |
| 98       | 0.7   | 38.2  | 57.2# |



#37

1,2-Dichloropropane

Concen: 0.584 ug/L

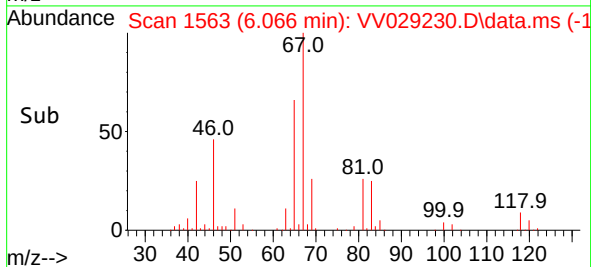
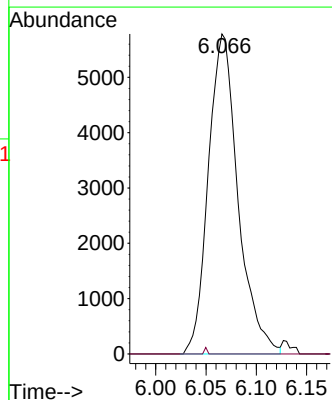
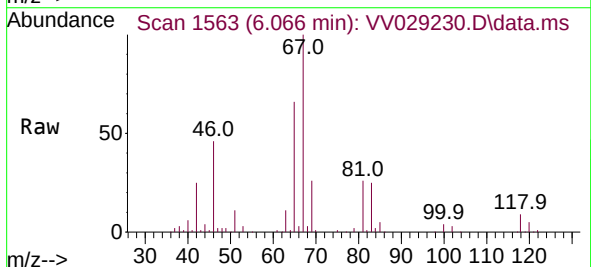
RT: 6.066 min Scan# 1563

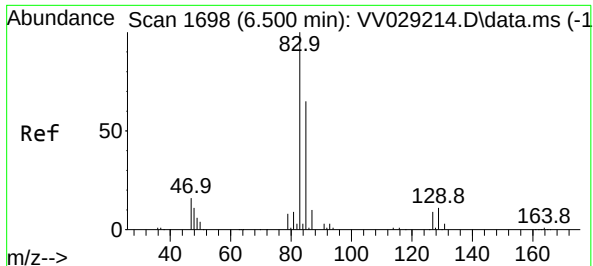
Delta R.T. -0.100 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

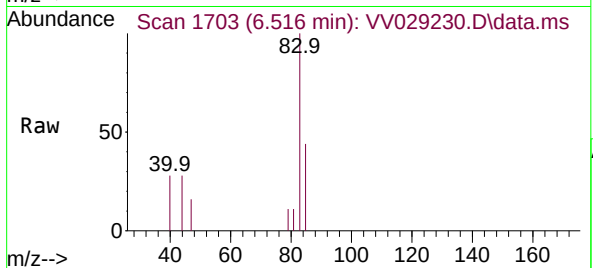
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 11899 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 112      | 0.2   | 4.0   | 6.0#  |



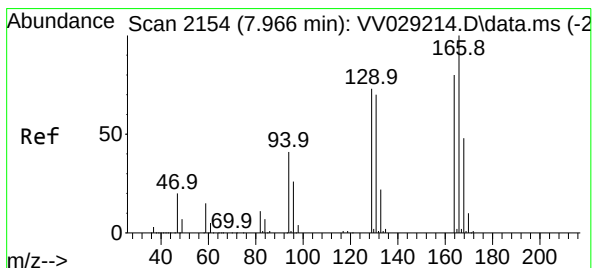
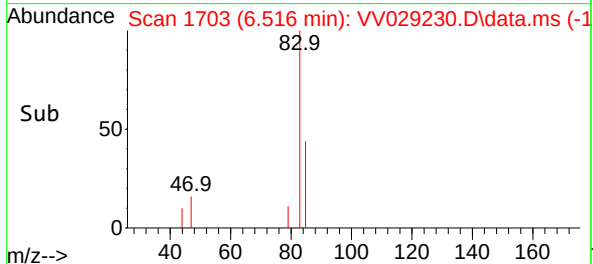
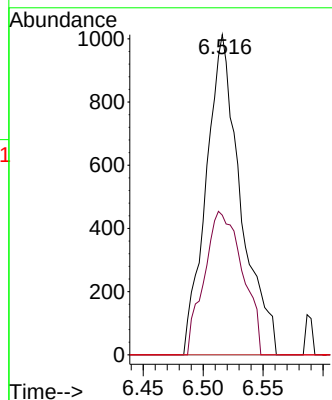


#38  
Bromodichloromethane  
Concen: 0.079 ug/L  
RT: 6.516 min Scan# 11  
Delta R.T. 0.016 min  
Lab File: VV029230.D  
Acq: 20 Nov 2022 17:15

Instrument :  
MSVOA\_V  
ClientSampleId :

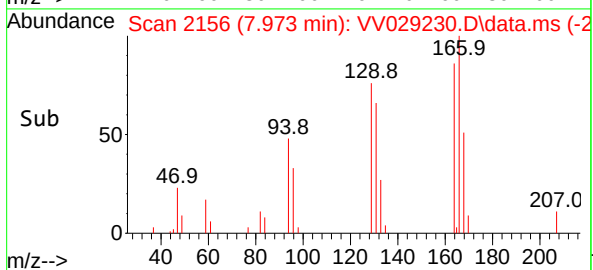
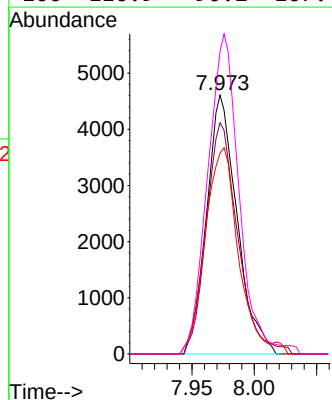
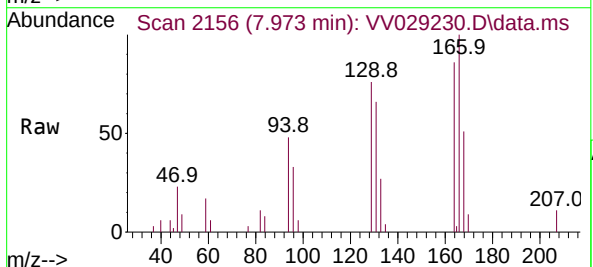


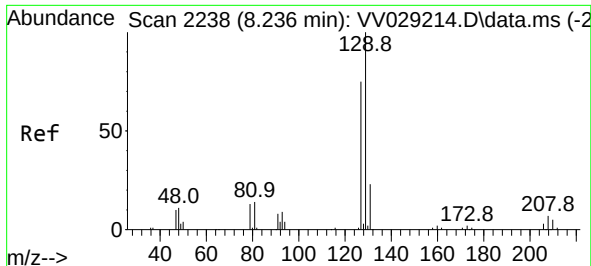
Tgt Ion: 83 Resp: 2028  
Ion Ratio Lower Upper  
83 100  
85 43.6 46.1 85.5#  
127 0.0 6.7 10.1#



#47  
Tetrachloroethene  
Concen: 0.434 ug/L  
RT: 7.973 min Scan# 2156  
Delta R.T. 0.006 min  
Lab File: VV029230.D  
Acq: 20 Nov 2022 17:15

Tgt Ion: 164 Resp: 7855  
Ion Ratio Lower Upper  
164 100  
129 89.3 63.9 118.7  
131 77.6 61.8 114.8  
166 116.9 90.2 167.4





#49

Dibromochloromethane

Concen: 0.448 ug/L

RT: 7.973 min Scan# 2156

Delta R.T. -0.264 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

Instrument :

MSVOA\_V

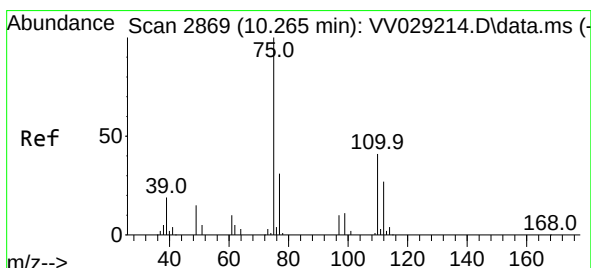
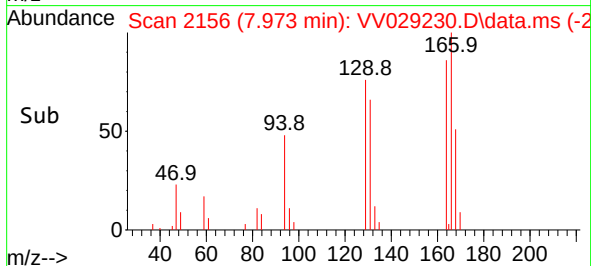
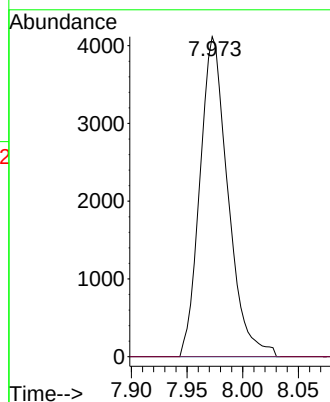
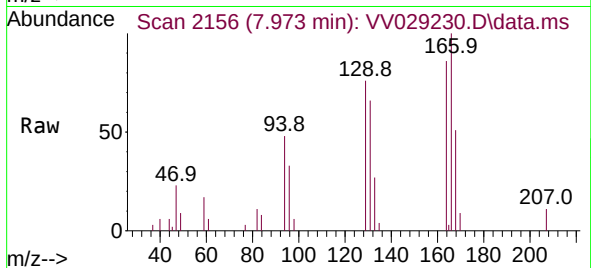
ClientSampleId :

Tgt Ion:129 Resp: 7224

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#



#61

1,2,3-Trichloropropane

Concen: 1.600 ug/L

RT: 11.242 min Scan# 3173

Delta R.T. 0.977 min

Lab File: VV029230.D

Acq: 20 Nov 2022 17:15

Tgt Ion: 75 Resp: 13834

Ion Ratio Lower Upper

75 100

77 32.9 26.2 39.2

110 2.1 32.6 48.8#

