

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW111522\  
 Data File : VV028985.D  
 Acq On : 15 Nov 2022 13:41  
 Operator : SY/MD  
 Sample : N5621-01  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BGCB8

Quant Time: Nov 16 03:18:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Nov 16 03:16:14 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.613  | 114   | 275953   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.847  | 117   | 250821   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.243 | 152   | 121737   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 50562    | 3.005    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 60.200%  |
| 7) Chloroethane-d5            | 1.568  | 69    | 55910    | 3.780    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 75.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.105  | 63    | 77632    | 2.532    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 50.600%# |
| 20) 2-Butanone-d5             | 3.905  | 46    | 131896   | 46.835   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 93.680%  |
| 24) Chloroform-d              | 4.343  | 84    | 149822   | 4.338    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.031  | 65    | 72540    | 4.668    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 93.400%  |
| 32) Benzene-d6                | 5.047  | 84    | 304034   | 4.061    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 81.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.066  | 67    | 90776    | 4.342    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.800%  |
| 41) Toluene-d8                | 7.310  | 98    | 258322   | 3.833    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 76.600%  |
| 43) trans-1,3-Dichloroprop... | 7.622  | 79    | 25682    | 3.767    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 75.400%  |
| 46) 2-Hexanone-d5             | 8.088  | 63    | 138716   | 47.662   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 95.320%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.211 | 84    | 71078    | 4.904    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 98.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.616 | 152   | 103667   | 4.760    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 95.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.240  | 50    | 2115     | 0.111    | ug/L   | 91       |
| 5) Vinyl chloride             | 1.311  | 62    | 947      | 0.043    | ug/L # | 1        |
| 6) Bromomethane               | 1.523  | 94    | 1861     | 0.143    | ug/L   | 89       |
| 8) Chloroethane               | 1.471  | 64    | 19237    | 1.503    | ug/L # | 51       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.108  | 101   | 1680     | 0.101    | ug/L # | 60       |
| 12) 1,1-Dichloroethene        | 2.111  | 96    | 1444     | 0.086    | ug/L # | 1        |
| 17) Methyl tert-butyl Ether   | 2.777  | 73    | 1728     | 0.048    | ug/L # | 65       |
| 18) trans-1,2-Dichloroethene  | 2.764  | 96    | 733      | 0.038    | ug/L   | 88       |
| 22) cis-1,2-Dichloroethene    | 3.905  | 96    | 835      | 0.042    | ug/L   | 83       |
| 25) Chloroform                | 4.375  | 83    | 3400     | 0.102    | ug/L   | 96       |
| 29) 1,1,1-Trichloroethane     | 4.606  | 97    | 1292     | 0.044    | ug/L # | 80       |
| 35) Methylcyclohexane         | 6.066  | 83    | 23046    | 0.668    | ug/L # | 21       |
| 38) Bromodichloromethane      | 6.516  | 83    | 895      | 0.040    | ug/L # | 86       |
| 47) Tetrachloroethene         | 7.976  | 164   | 947      | 0.060    | ug/L   | 89       |
| 49) Dibromochloromethane      | 8.243  | 129   | 360      | 0.026    | ug/L # | 65       |
| 51) Chlorobenzene             | 8.879  | 112   | 2257     | 0.044    | ug/L # | 80       |
| 52) Ethylbenzene              | 9.018  | 91    | 3901     | 0.045    | ug/L   | 91       |
| 53) m,p-Xylene                | 9.146  | 106   | 1767     | 0.052    | ug/L   | 90       |
| 60) Isopropylbenzene          | 9.931  | 105   | 3505     | 0.044    | ug/L # | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV111522\  
Data File : VV028985.D  
Acq On : 15 Nov 2022 13:41  
Operator : SY/MD  
Sample : N5621-01  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BGCB8

Quant Time: Nov 16 03:18:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Nov 16 03:16:14 2022  
Response via : Initial Calibration

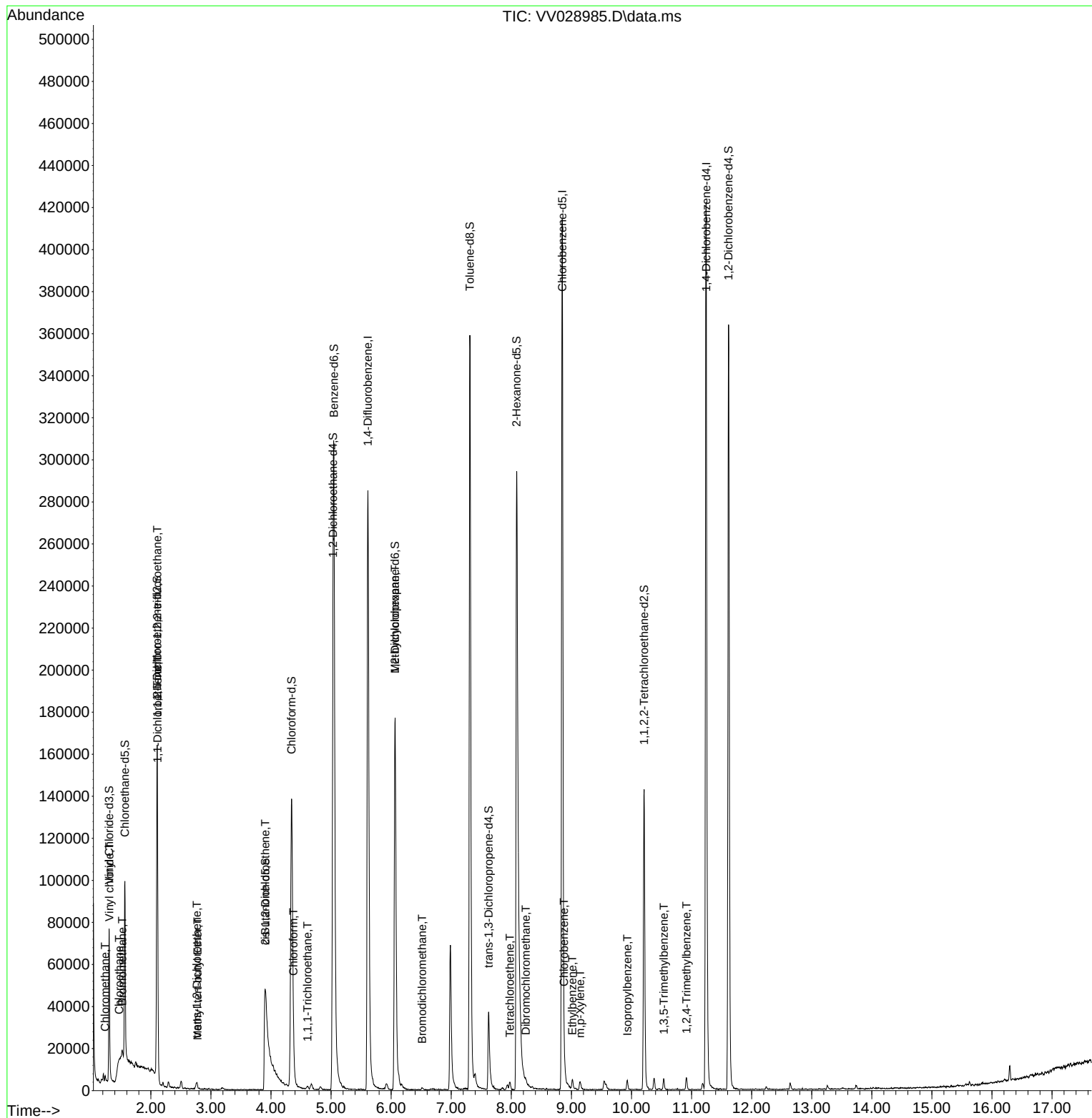
| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| 62) 1,3,5-Trimethylbenzene | 10.538 | 105  | 3516     | 0.053 | ug/L  | 95       |
| 63) 1,2,4-Trimethylbenzene | 10.915 | 105  | 4111     | 0.061 | ug/L  | 98       |

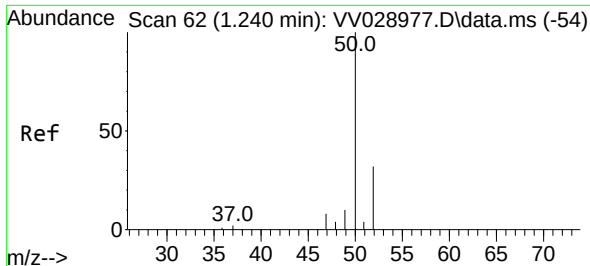
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV111522\  
Data File : VV028985.D  
Acq On : 15 Nov 2022 13:41  
Operator : SY/MD  
Sample : N5621-01  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BGCB8

Quant Time: Nov 16 03:18:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Nov 16 03:16:14 2022  
Response via : Initial Calibration

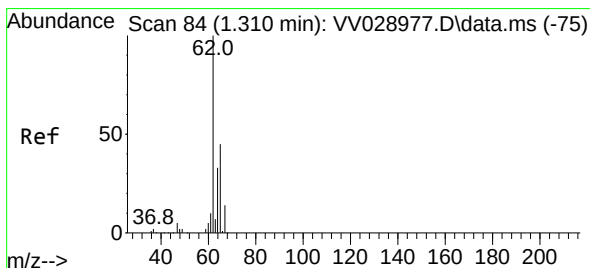
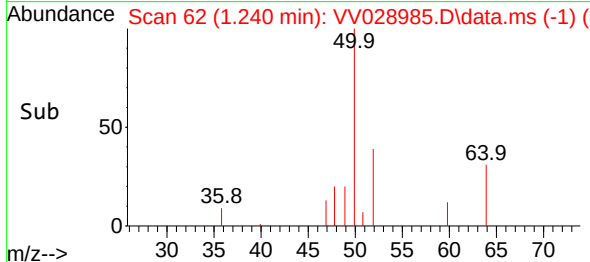
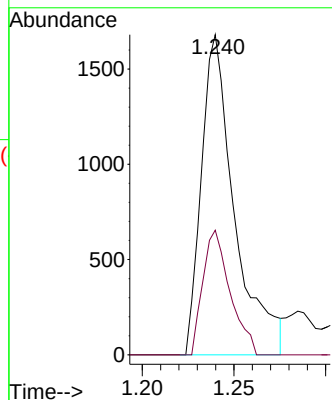
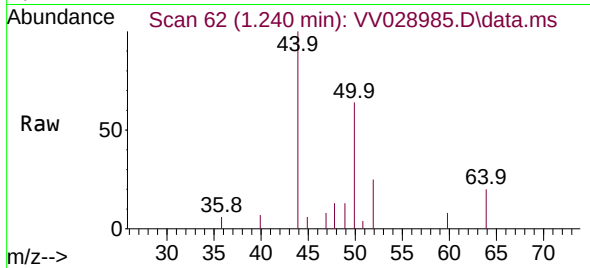




#3  
Chloromethane  
Concen: 0.111 ug/L  
RT: 1.240 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

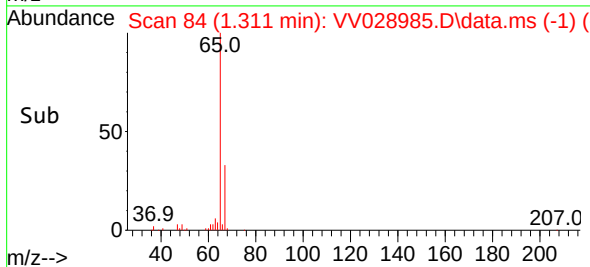
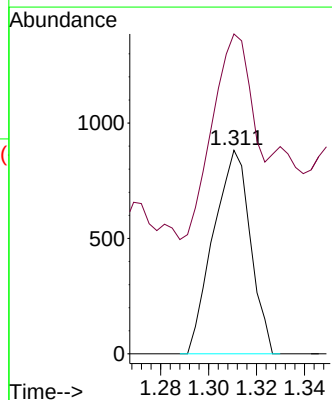
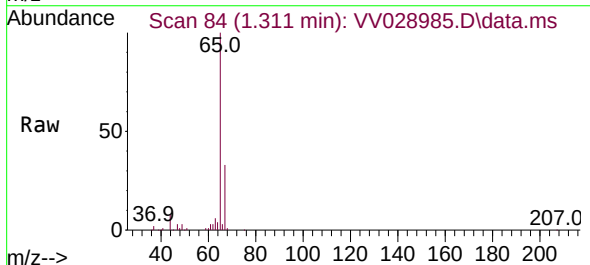
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGC8

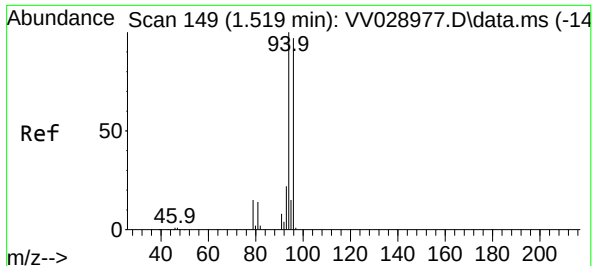
Tgt Ion: 50 Resp: 2115  
Ion Ratio Lower Upper  
50 100  
52 38.9 23.7 43.9



#5  
Vinyl chloride  
Concen: 0.043 ug/L  
RT: 1.311 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

Tgt Ion: 62 Resp: 947  
Ion Ratio Lower Upper  
62 100  
64 157.1 22.8 42.4#

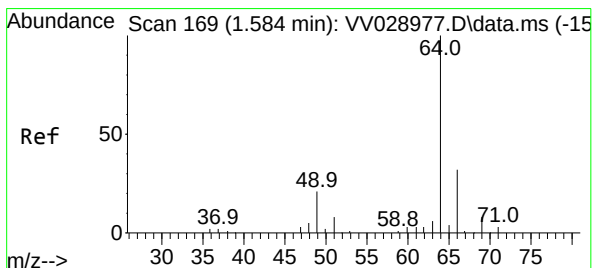
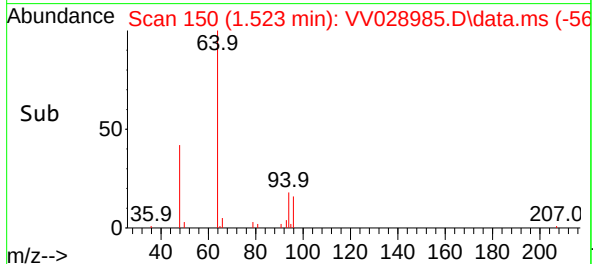
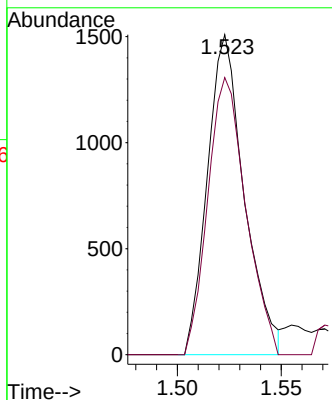
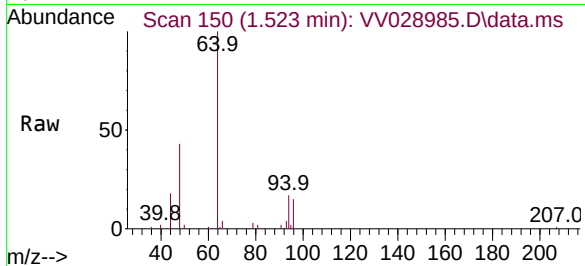




#6  
Bromomethane  
Concen: 0.143 ug/L  
RT: 1.523 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

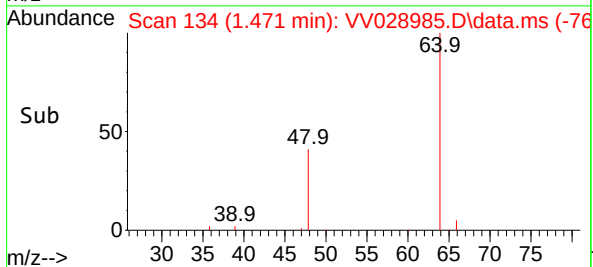
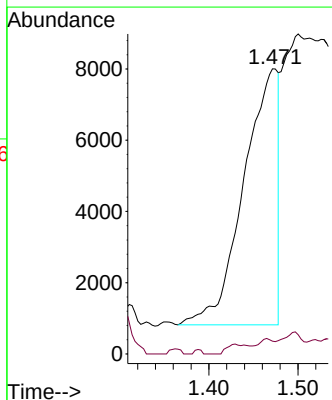
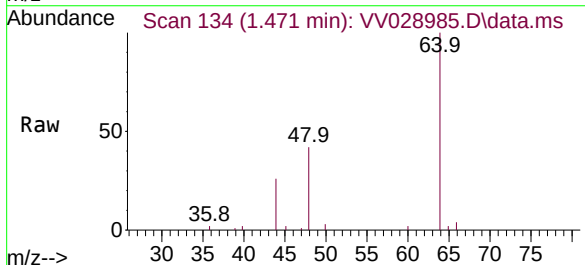
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGC8

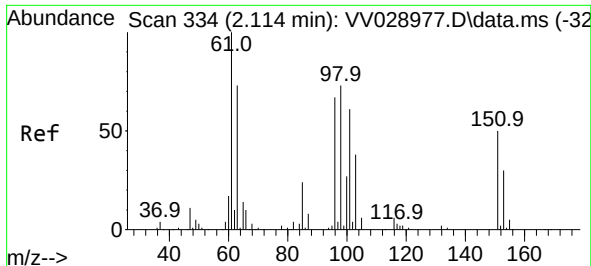
Tgt Ion: 94 Resp: 1861  
Ion Ratio Lower Upper  
94 100  
96 86.6 68.5 127.3



#8  
Chloroethane  
Concen: 1.503 ug/L  
RT: 1.471 min Scan# 134  
Delta R.T. -0.112 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

Tgt Ion: 64 Resp: 19237  
Ion Ratio Lower Upper  
64 100  
66 4.5 22.0 40.8#

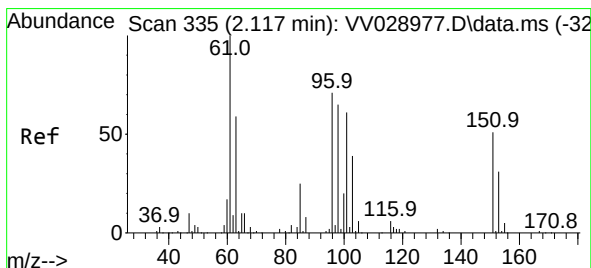
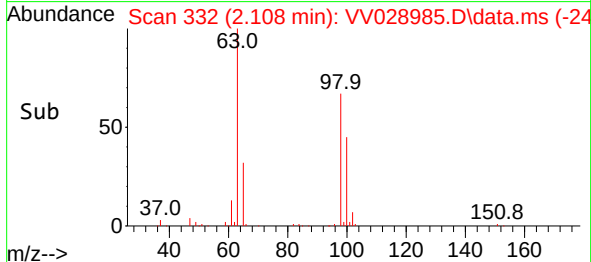
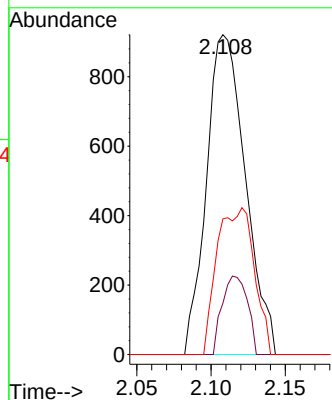
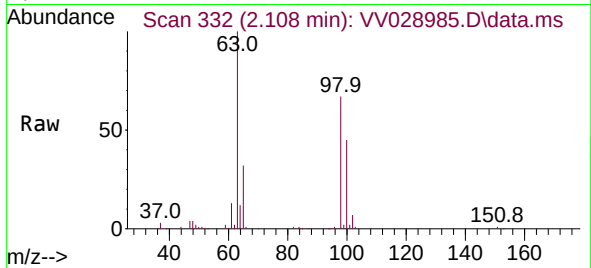




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.101 ug/L  
 RT: 2.108 min Scan# 31  
 Delta R.T. -0.006 min  
 Lab File: VV028985.D  
 Acq: 15 Nov 2022 13:41

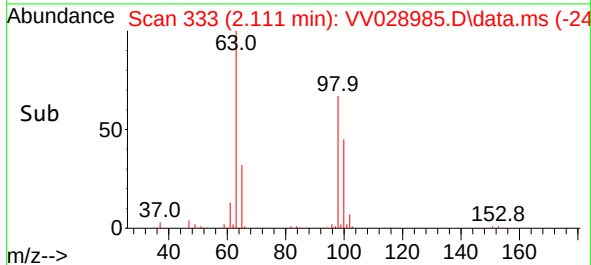
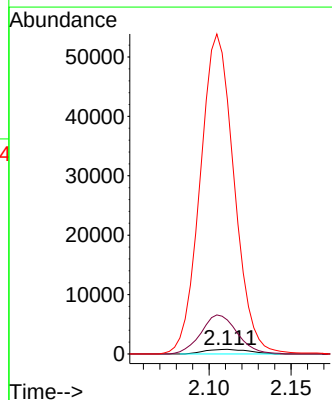
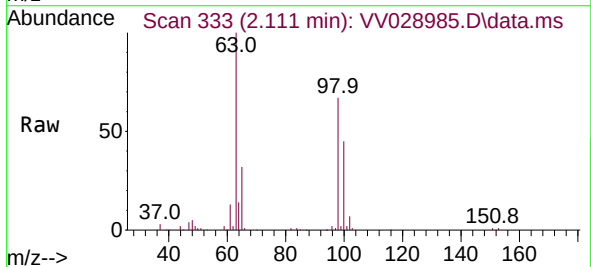
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BGCB8

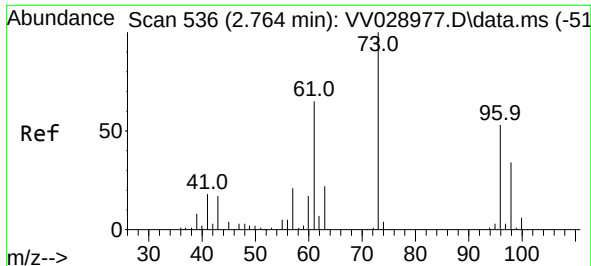
Tgt Ion:101 Resp: 1680  
 Ion Ratio Lower Upper  
 101 100  
 85 15.8 32.9 49.3#  
 151 43.8 62.5 93.7#



#12  
 1,1-Dichloroethene  
 Concen: 0.086 ug/L  
 RT: 2.111 min Scan# 333  
 Delta R.T. -0.006 min  
 Lab File: VV028985.D  
 Acq: 15 Nov 2022 13:41

Tgt Ion: 96 Resp: 1444  
 Ion Ratio Lower Upper  
 96 100  
 61 735.6 104.2 193.4#  
 63 5523.6 75.9 140.9#

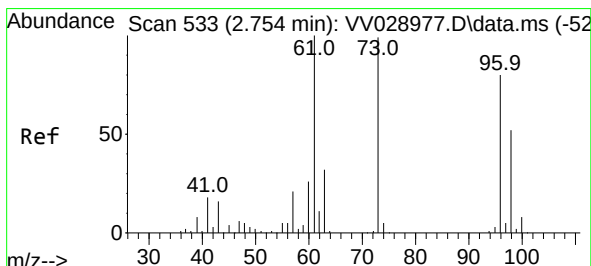
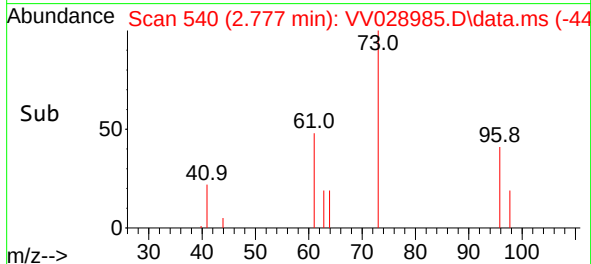
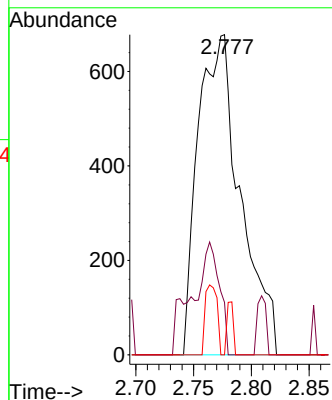
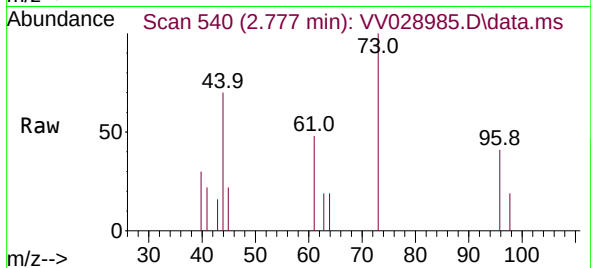




#17  
Methyl tert-butyl Ether  
Concen: 0.048 ug/L  
RT: 2.777 min Scan# 540  
Delta R.T. 0.013 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

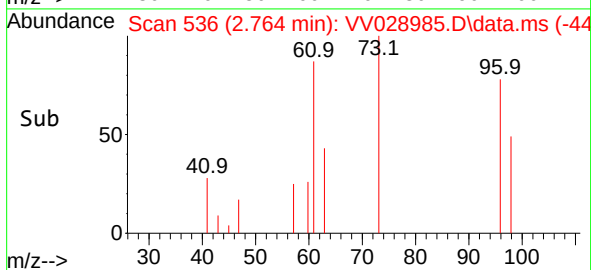
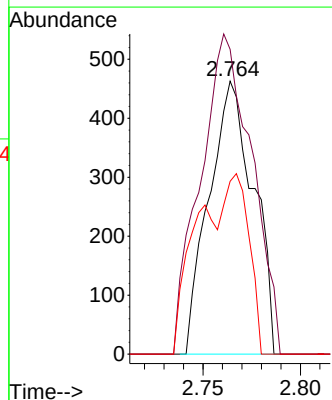
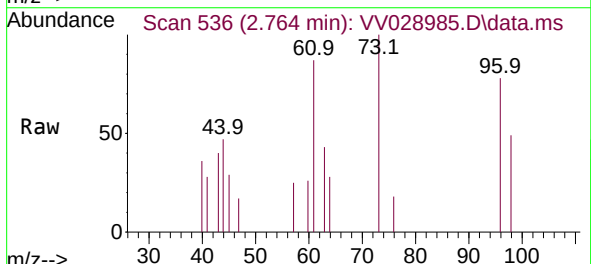
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGC8

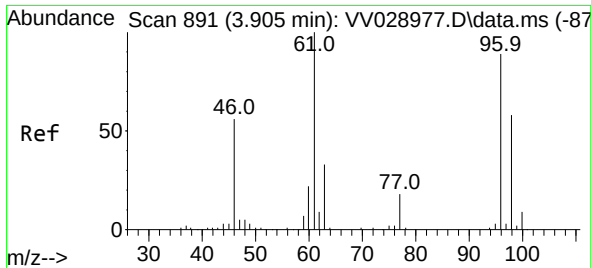
Tgt Ion: 73 Resp: 1728  
Ion Ratio Lower Upper  
73 100  
43 3.8 13.0 19.4#  
57 2.5 16.6 24.8#



#18  
trans-1,2-Dichloroethene  
Concen: 0.038 ug/L  
RT: 2.764 min Scan# 536  
Delta R.T. 0.010 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

Tgt Ion: 96 Resp: 733  
Ion Ratio Lower Upper  
96 100  
61 111.7 91.8 170.6  
98 63.3 46.4 86.2





#22

cis-1,2-Dichloroethene

Concen: 0.042 ug/L

RT: 3.905 min Scan# 891

Delta R.T. 0.000 min

Lab File: VV028985.D

Acq: 15 Nov 2022 13:41

Instrument :

MSVOA\_V

ClientSampleId :

BGCB8

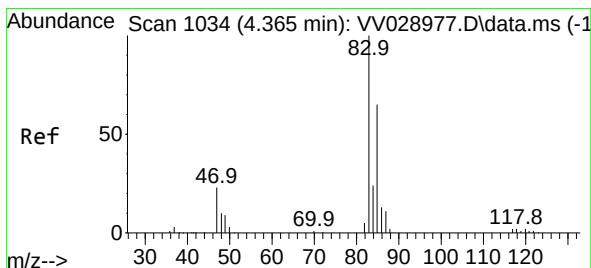
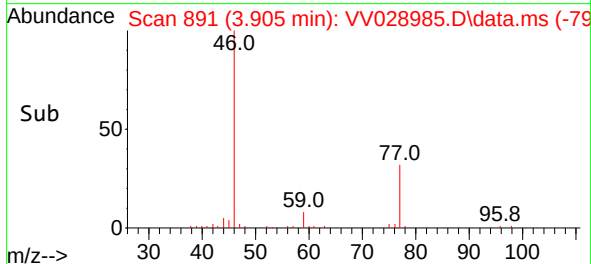
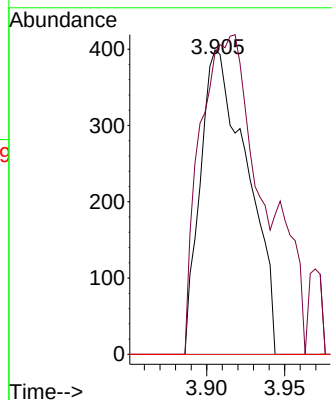
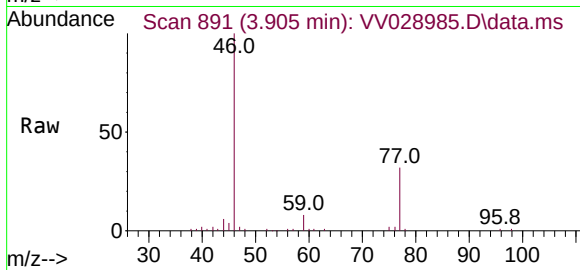
Tgt Ion: 96 Resp: 835

Ion Ratio Lower Upper

96 100

61 99.2 82.3 152.9

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.102 ug/L

RT: 4.375 min Scan# 1037

Delta R.T. 0.010 min

Lab File: VV028985.D

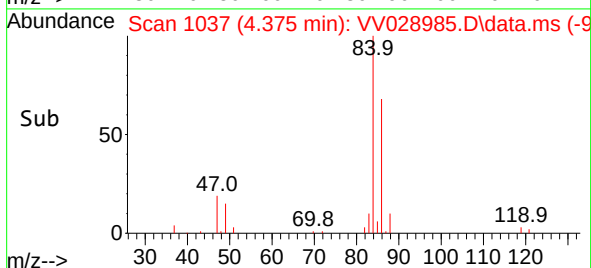
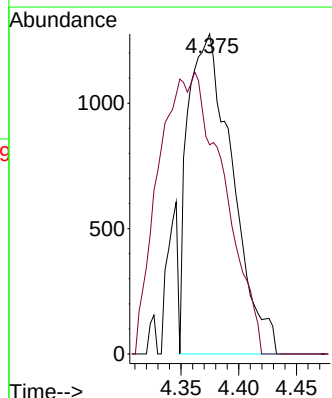
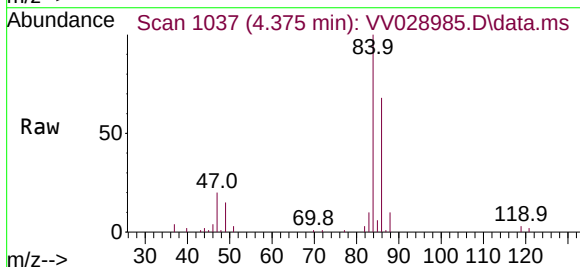
Acq: 15 Nov 2022 13:41

Tgt Ion: 83 Resp: 3400

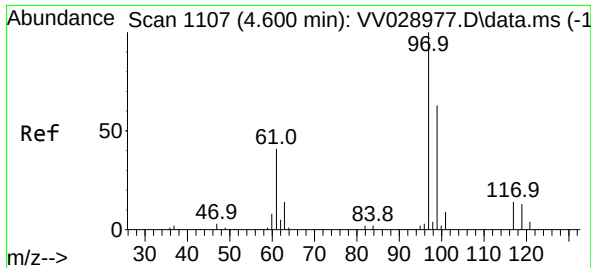
Ion Ratio Lower Upper

83 100

85 65.4 43.7 81.1



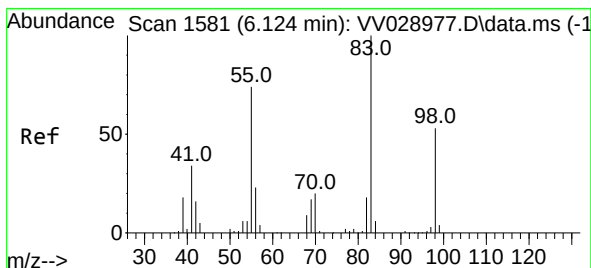
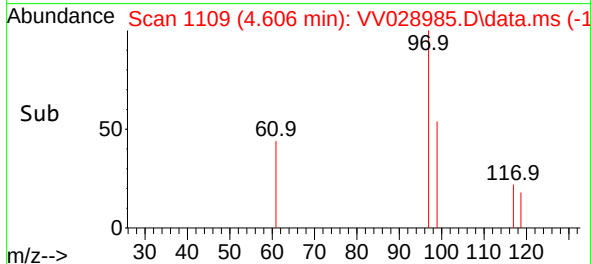
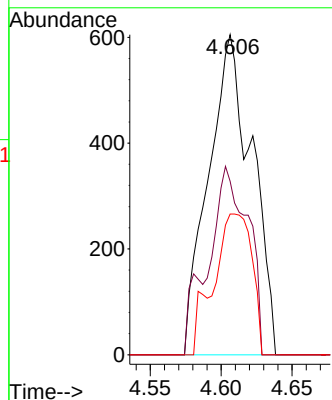
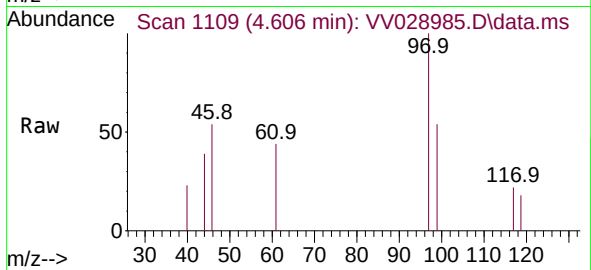




#29  
1,1,1-Trichloroethane  
Concen: 0.044 ug/L  
RT: 4.606 min Scan# 1107  
Delta R.T. 0.007 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

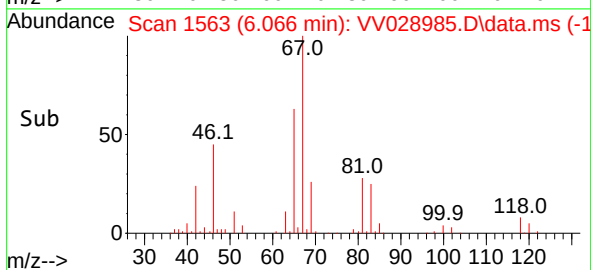
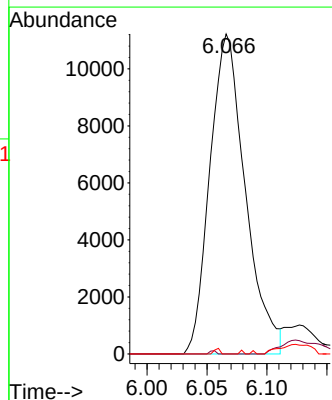
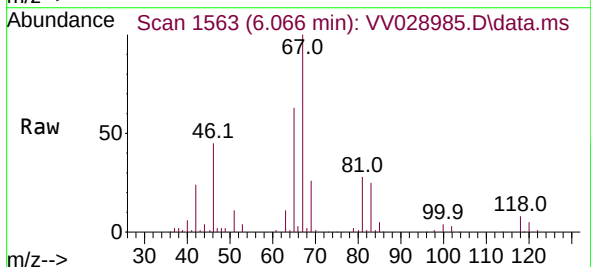
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGC8

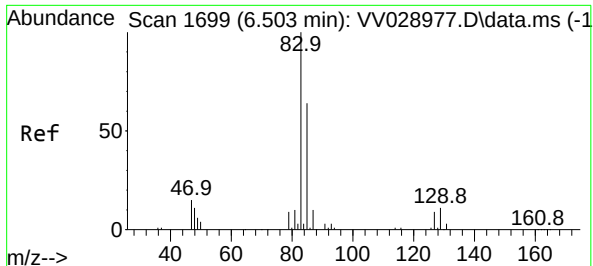
Tgt Ion: 97 Resp: 1292  
Ion Ratio Lower Upper  
97 100  
99 46.0 52.7 79.1#  
61 33.8 33.8 50.6



#35  
Methylcyclohexane  
Concen: 0.668 ug/L  
RT: 6.066 min Scan# 1563  
Delta R.T. -0.058 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

Tgt Ion: 83 Resp: 23046  
Ion Ratio Lower Upper  
83 100  
55 0.2 55.8 83.6#  
98 0.3 38.2 57.2#

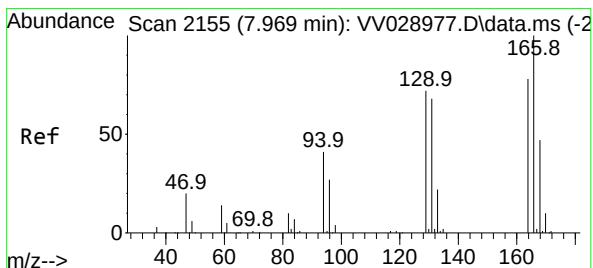
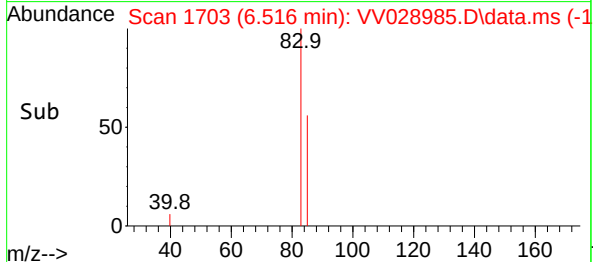
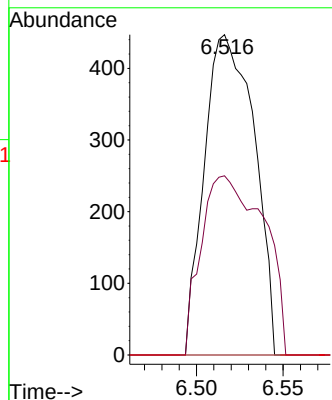
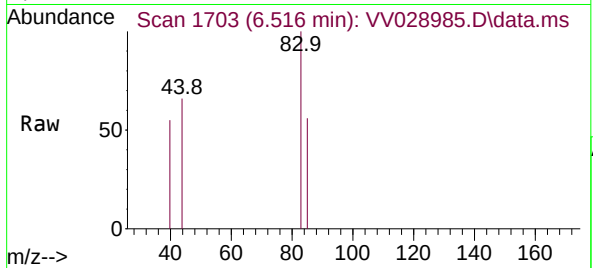




#38  
Bromodichloromethane  
Concen: 0.040 ug/L  
RT: 6.516 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

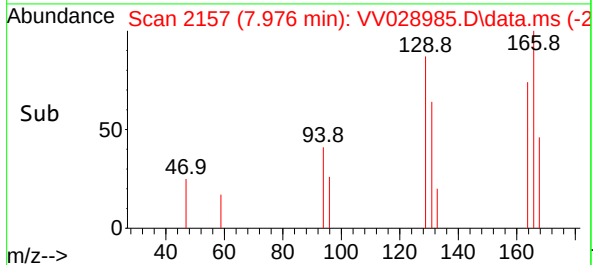
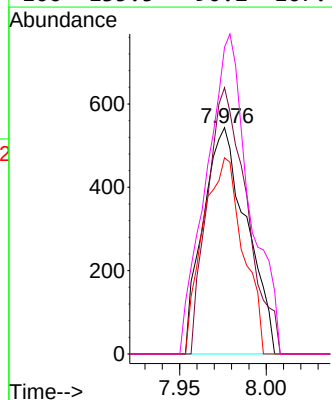
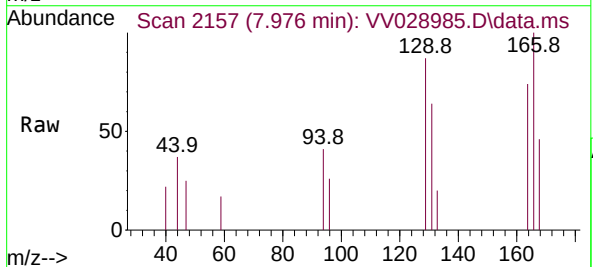
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGCB8

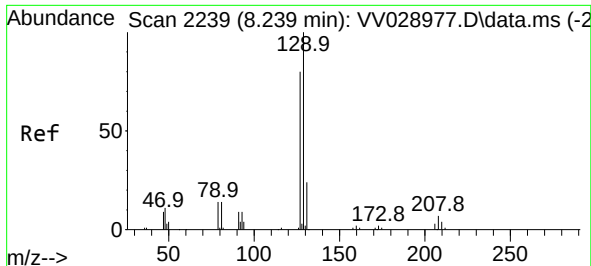
Tgt Ion: 83 Resp: 895  
Ion Ratio Lower Upper  
83 100  
85 55.9 46.1 85.5  
127 0.0 6.7 10.1#



#47  
Tetrachloroethene  
Concen: 0.060 ug/L  
RT: 7.976 min Scan# 2157  
Delta R.T. 0.007 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

Tgt Ion: 164 Resp: 947  
Ion Ratio Lower Upper  
164 100  
129 117.7 63.9 118.7  
131 86.7 61.8 114.8  
166 135.5 90.2 167.4





#49

Dibromochloromethane

Concen: 0.026 ug/L

RT: 8.243 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV028985.D

Acq: 15 Nov 2022 13:41

Instrument :

MSVOA\_V

ClientSampleId :

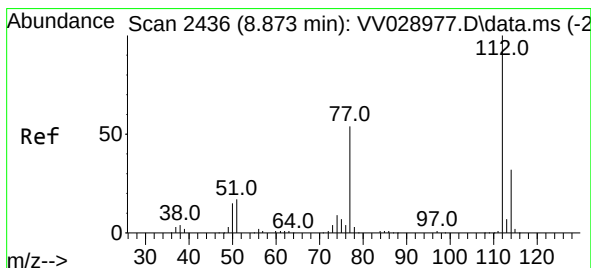
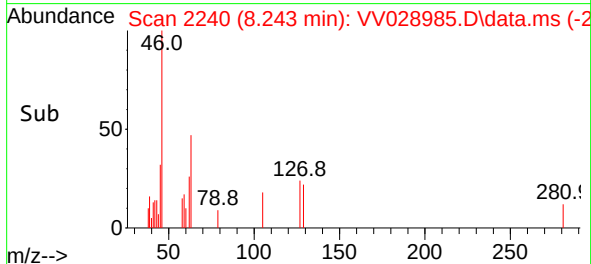
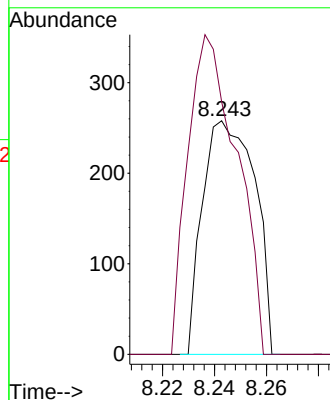
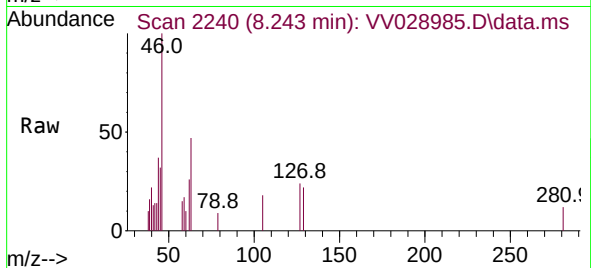
BGCB8

Tgt Ion:129 Resp: 360

Ion Ratio Lower Upper

129 100

127 108.1 54.5 101.1#



#51

Chlorobenzene

Concen: 0.044 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.007 min

Lab File: VV028985.D

Acq: 15 Nov 2022 13:41

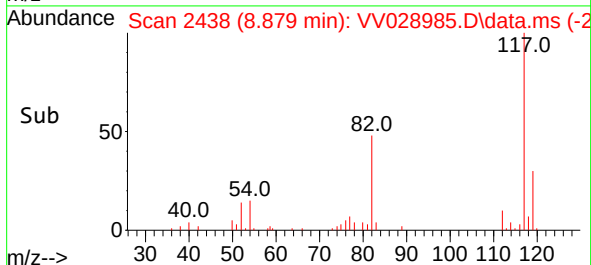
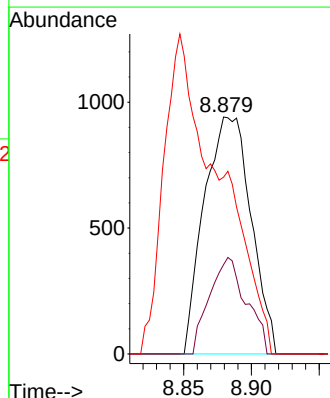
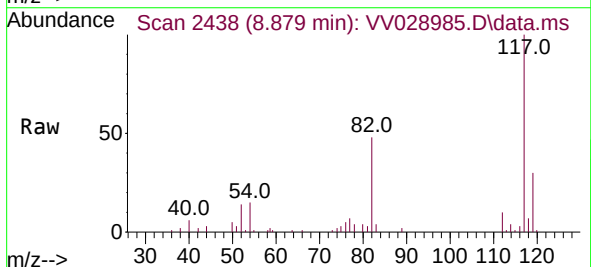
Tgt Ion:112 Resp: 2257

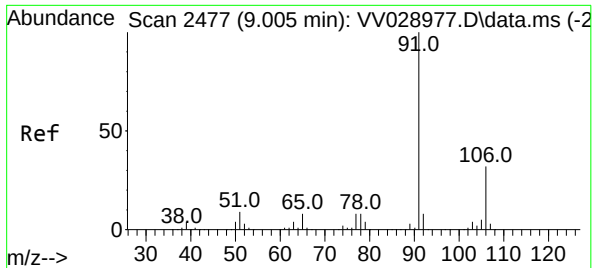
Ion Ratio Lower Upper

112 100

114 37.7 22.4 41.6

77 74.6 44.4 66.6#





#52

Ethylbenzene

Concen: 0.045 ug/L

RT: 9.018 min Scan# 2477

Delta R.T. 0.013 min

Lab File: VV028985.D

Acq: 15 Nov 2022 13:41

Instrument :

MSVOA\_V

ClientSampleId :

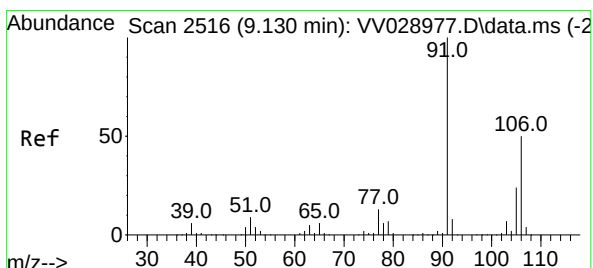
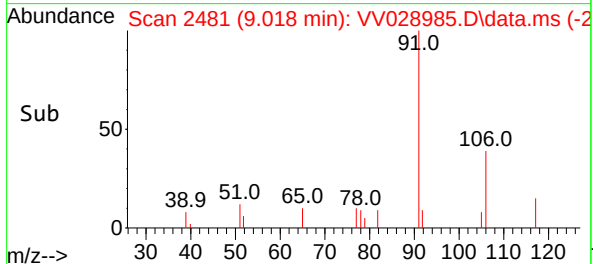
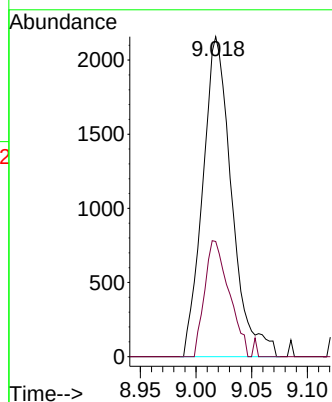
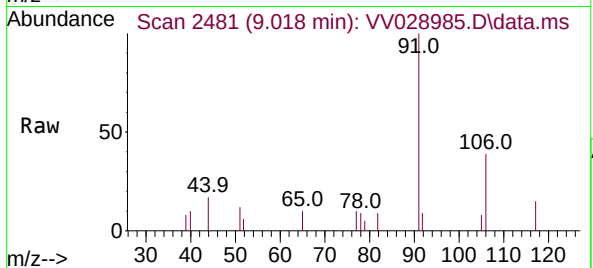
BGCB8

Tgt Ion: 91 Resp: 3901

Ion Ratio Lower Upper

91 100

106 36.0 21.6 40.2



#53

m,p-Xylene

Concen: 0.052 ug/L

RT: 9.146 min Scan# 2521

Delta R.T. 0.016 min

Lab File: VV028985.D

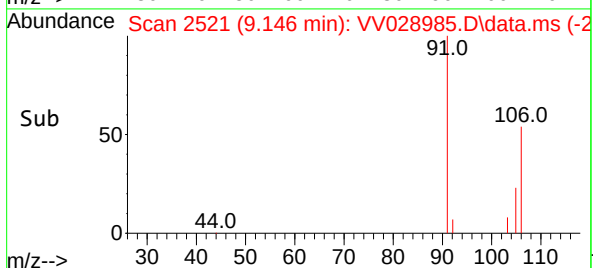
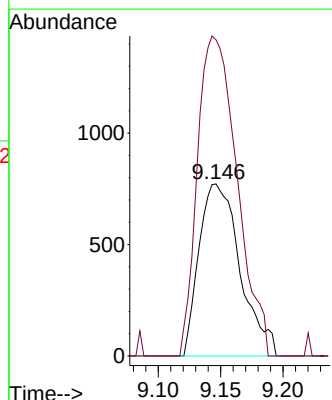
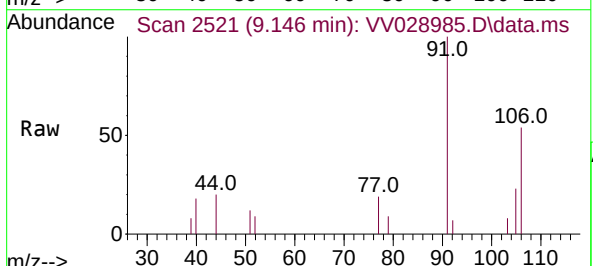
Acq: 15 Nov 2022 13:41

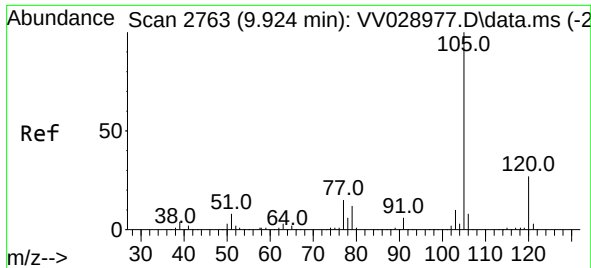
Tgt Ion: 106 Resp: 1767

Ion Ratio Lower Upper

106 100

91 183.8 139.1 258.3

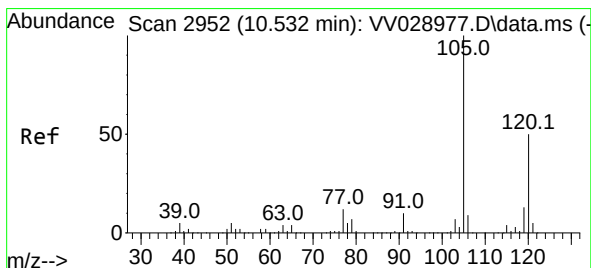
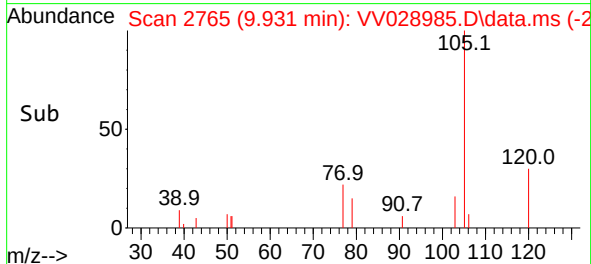
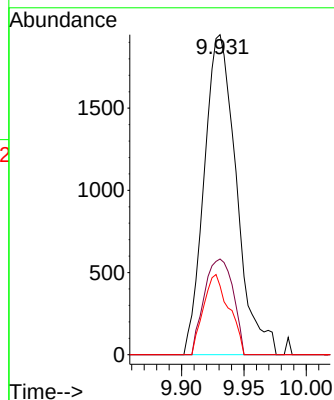
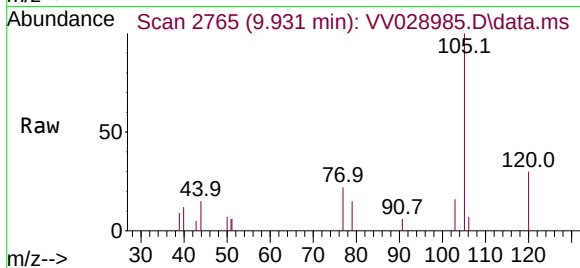




#60  
Isopropylbenzene  
Concen: 0.044 ug/L  
RT: 9.931 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

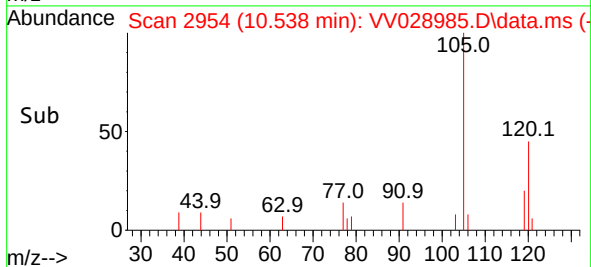
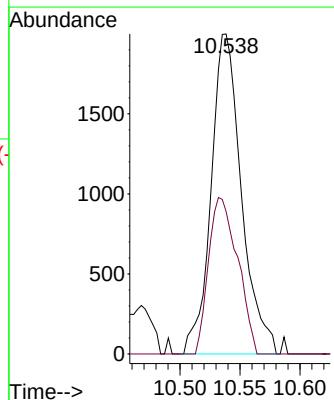
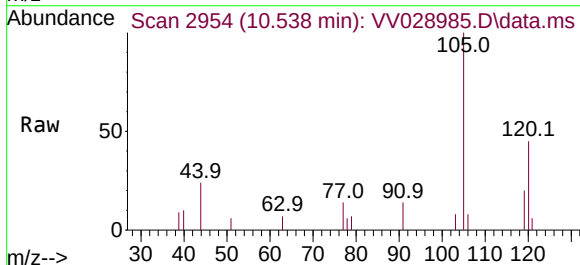
Instrument :  
MSVOA\_V  
ClientSampleId :  
BGC8

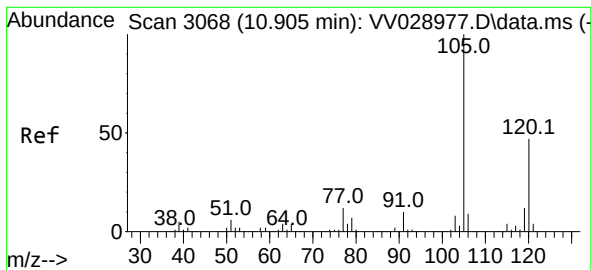
Tgt Ion:105 Resp: 3505  
Ion Ratio Lower Upper  
105 100  
120 26.8 21.3 31.9  
77 19.8 11.8 17.8#



#62  
1,3,5-Trimethylbenzene  
Concen: 0.053 ug/L  
RT: 10.538 min Scan# 2954  
Delta R.T. 0.007 min  
Lab File: VV028985.D  
Acq: 15 Nov 2022 13:41

Tgt Ion:105 Resp: 3516  
Ion Ratio Lower Upper  
105 100  
120 46.7 39.9 59.9





#63

1,2,4-Trimethylbenzene

Concen: 0.061 ug/L

RT: 10.915 min Scan# 30

Delta R.T. 0.010 min

Lab File: VV028985.D

Acq: 15 Nov 2022 13:41

Instrument :

MSVOA\_V

ClientSampleId :

BGCB8

Tgt Ion:105 Resp: 4111

Ion Ratio Lower Upper

105 100

120 48.4 37.8 56.8

