

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW061224\  
 Data File : VW029109.D  
 Acq On : 12 Jun 2024 16:02  
 Operator : SY/MD  
 Sample : P2844-01DL 2X  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jun 13 00:51:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060324SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Thu Jun 13 00:47:39 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.843          | 114  | 301469     | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.629         | 117  | 281346     | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.556         | 152  | 126980     | 25.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 2.363          | 65   | 94231      | 19.676   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 78.720%  |        |          |
| 7) Chloroethane-d5            | 2.899          | 69   | 74418      | 20.235   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 80.960%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 4.021          | 65   | 42012      | 19.958   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 79.840%  |        |          |
| 21) 2-Butanone-d5             | 7.075          | 46   | 54905      | 56.111   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 112.220% |        |          |
| 24) Chloroform-d              | 7.654          | 84   | 202941     | 23.596   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 94.400%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.307          | 65   | 108605     | 23.985   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 95.960%  |        |          |
| 32) Benzene-d6                | 8.276          | 84   | 381754     | 22.107   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 88.440%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 9.270          | 67   | 120607     | 23.035   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 92.160%  |        |          |
| 41) Toluene-d8                | 10.319         | 98   | 339836     | 22.053   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 88.200%  |        |          |
| 43) trans-1,3-Dichloroprop... | 10.575         | 79   | 46201      | 22.964   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 91.840%  |        |          |
| 47) 2-Hexanone-d5             | 10.922         | 63   | 39017      | 56.471   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 112.940% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690         | 84   | 95322      | 26.207   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 104.840% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.848         | 152  | 113159     | 25.113   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 100.440% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 13) Acetone                   | 4.125          | 43   | 35883      | 34.993   | ug/L   | 99       |
| 16) Methylene chloride        | 4.923          | 84   | 175990     | 38.897   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 5.423          | 73   | 152889     | 26.389   | ug/L   | 99       |
| 22) 2-Butanone                | 7.167          | 43   | 97216      | 78.675   | ug/L   | 97       |
| 25) Chloroform                | 7.679          | 83   | 293075     | 36.941   | ug/L   | 98       |
| 31) Carbon tetrachloride      | 8.069          | 117  | 229508     | 38.653   | ug/L   | 97       |
| 33) Benzene                   | 8.325          | 78   | 209978     | 12.003   | ug/L   | 100      |
| 34) Trichloroethene           | 9.093          | 95   | 222744     | 48.431   | ug/L   | 91       |
| 38) Bromodichloromethane      | 9.642          | 83   | 284418     | 50.906   | ug/L # | 99       |
| 39) cis-1,3-Dichloropropene   | 10.075         | 75   | 51739      | 7.771    | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 10.209         | 43   | 125711     | 53.950   | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 10.605         | 75   | 156887     | 29.230   | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 10.782         | 97   | 129091     | 41.723   | ug/L   | 97       |
| 48) 2-Hexanone                | 10.922         | 43   | 5249       | 3.005    | ug/L # | 68       |
| 49) Dibromochloromethane      | 11.123         | 129  | 76059      | 23.275   | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 11.233         | 107  | 122065     | 43.218   | ug/L   | 99       |
| 51) Chlorobenzene             | 11.654         | 112  | 193243     | 16.833   | ug/L   | 95       |
| 52) Ethylbenzene              | 11.727         | 91   | 197109     | 9.707    | ug/L   | 99       |
| 53) m,p-Xylene                | 11.830         | 106  | 202445     | 26.918   | ug/L   | 89       |

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Sample : P2844-01DL 2X  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jun 13 00:51:12 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060324SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Jun 13 00:47:39 2024  
Response via : Initial Calibration

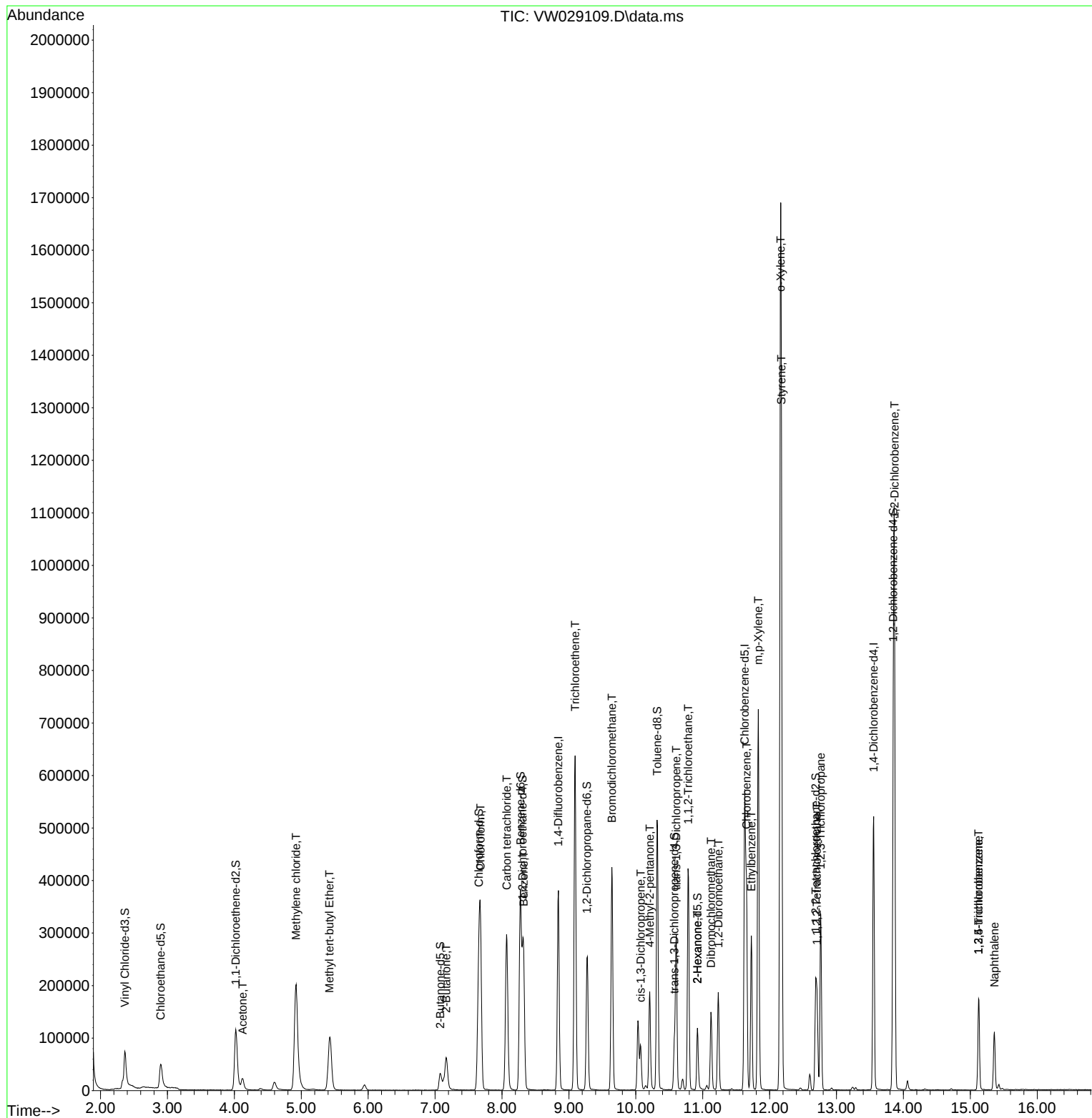
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 54) o-Xylene                  | 12.166 | 106  | 329220   | 47.275 | ug/L  | 99       |
| 55) Styrene                   | 12.178 | 104  | 400127   | 33.326 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 12.708 | 83   | 76767    | 21.979 | ug/L  | 98       |
| 61) 1,2,3-Trichloropropane    | 12.763 | 75   | 136583   | 57.023 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 13.867 | 146  | 353852   | 51.122 | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 15.123 | 180  | 53376    | 10.066 | ug/L  | 96       |
| 70) 1,2,4-trichlorobenzene    | 15.123 | 180  | 53376    | 12.420 | ug/L  | 98       |
| 71) Naphthalene               | 15.360 | 128  | 91037    | 12.433 | ug/L  | 98       |

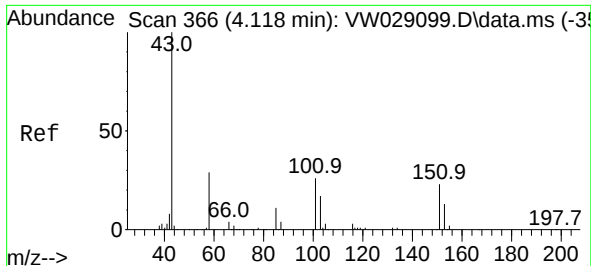
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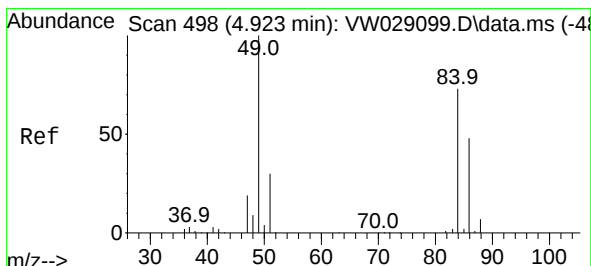
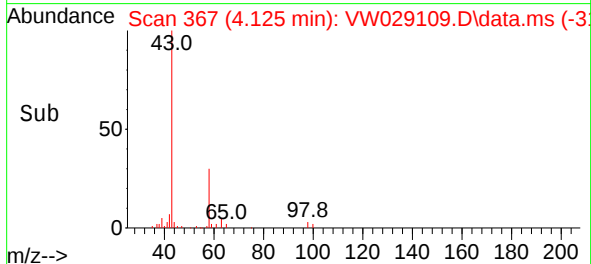
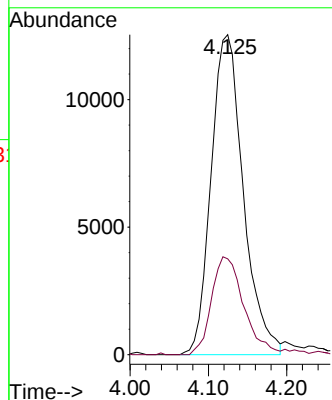
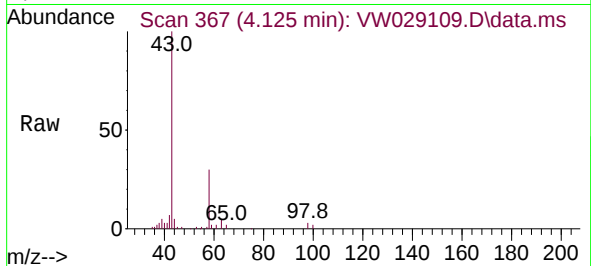




#13  
Acetone  
Concen: 34.993 ug/L  
RT: 4.125 min Scan# 366  
Delta R.T. 0.006 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

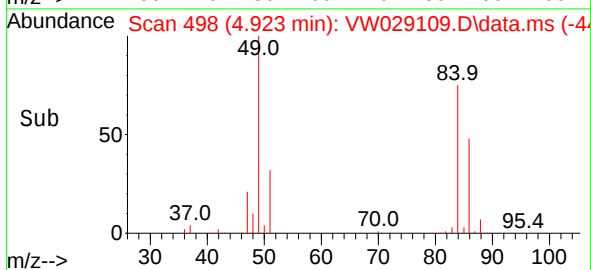
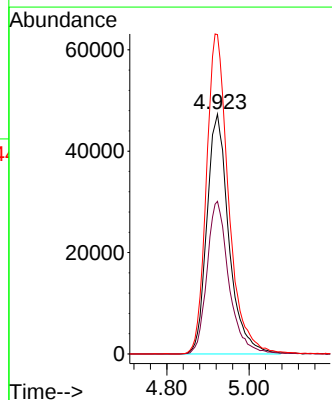
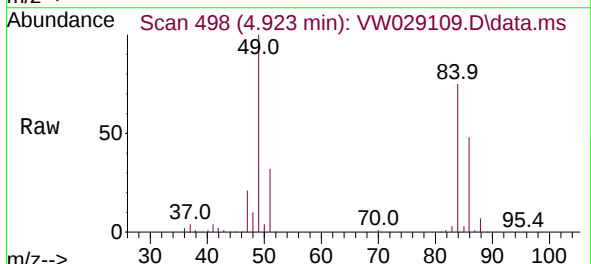
Instrument :  
MSVOA\_W  
ClientSampleId :

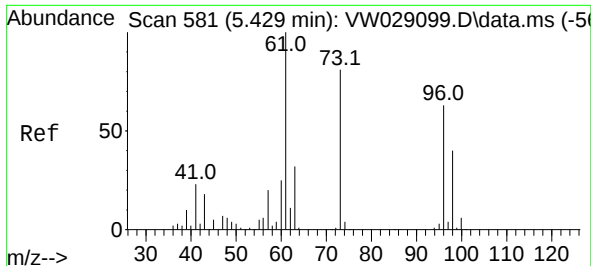
Tgt Ion: 43 Resp: 35883  
Ion Ratio Lower Upper  
43 100  
58 30.5 0.0 59.4



#16  
Methylene chloride  
Concen: 38.897 ug/L  
RT: 4.923 min Scan# 498  
Delta R.T. -0.000 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

Tgt Ion: 84 Resp: 175990  
Ion Ratio Lower Upper  
84 100  
86 63.6 43.8 81.4  
49 133.1 91.3 169.5





#18

Methyl tert-butyl Ether

Concen: 26.389 ug/L

RT: 5.423 min Scan# 581

Delta R.T. -0.006 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :

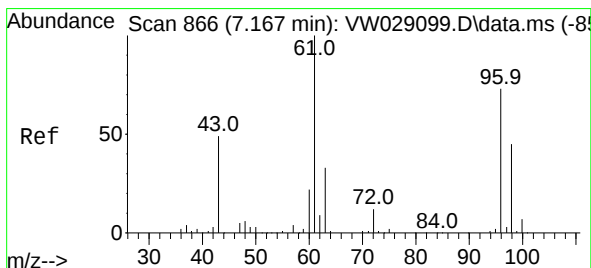
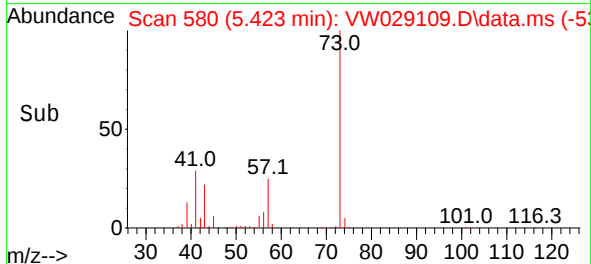
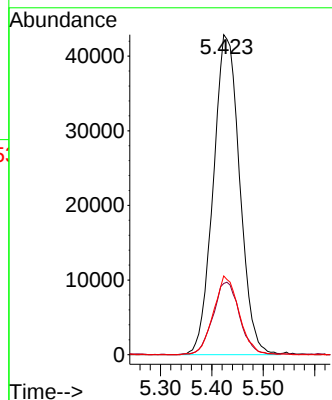
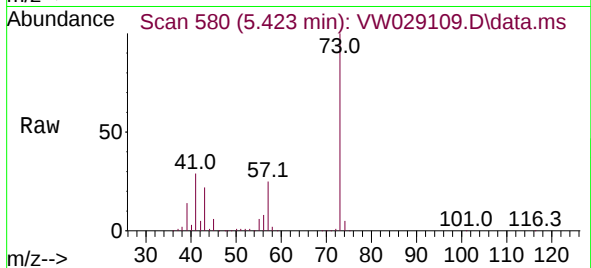
Tgt Ion: 73 Resp: 152889

Ion Ratio Lower Upper

73 100

43 22.3 17.8 26.6

57 23.8 18.4 27.6



#22

2-Butanone

Concen: 78.675 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.000 min

Lab File: VW029109.D

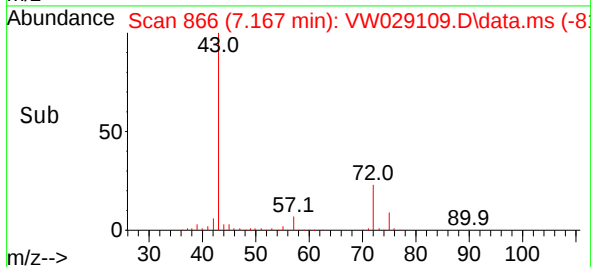
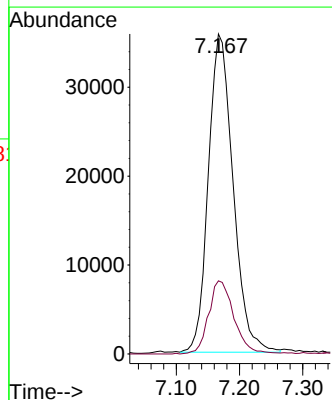
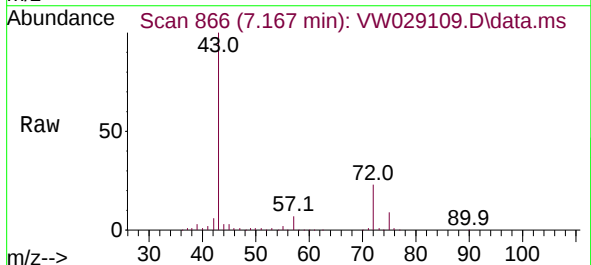
Acq: 12 Jun 2024 16:02

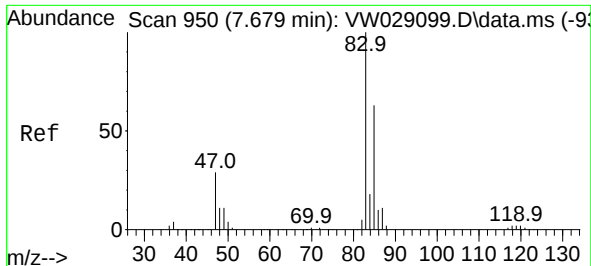
Tgt Ion: 43 Resp: 97216

Ion Ratio Lower Upper

43 100

72 23.5 12.5 37.5





#25

Chloroform

Concen: 36.941 ug/L

RT: 7.679 min Scan# 9

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

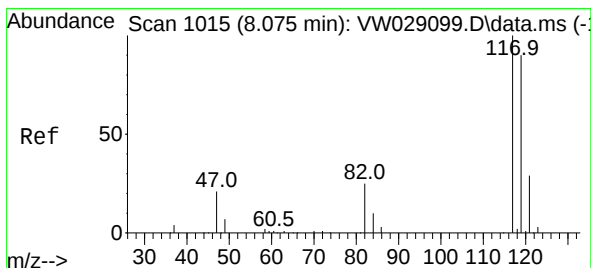
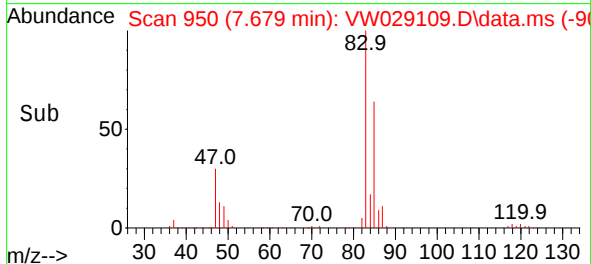
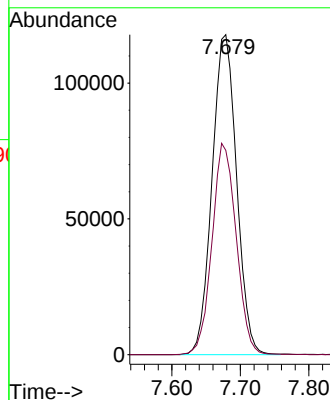
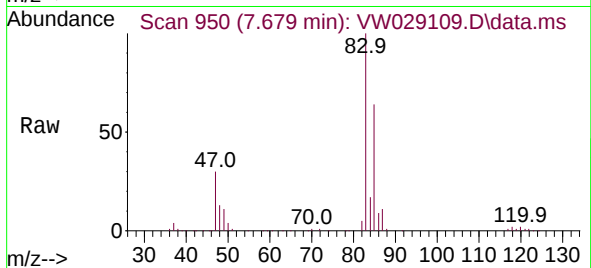
ClientSampleId :

Tgt Ion: 83 Resp: 293075

Ion Ratio Lower Upper

83 100

85 63.8 45.8 85.2



#31

Carbon tetrachloride

Concen: 38.653 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. -0.006 min

Lab File: VW029109.D

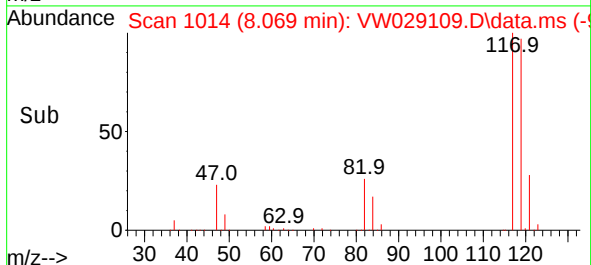
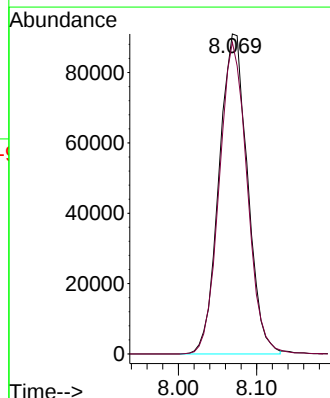
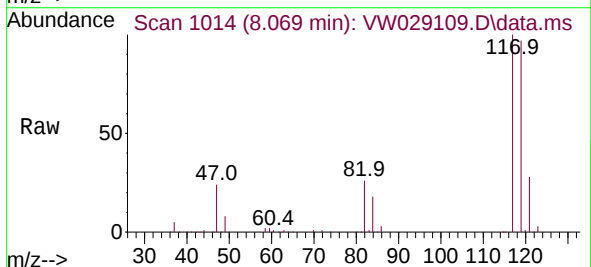
Acq: 12 Jun 2024 16:02

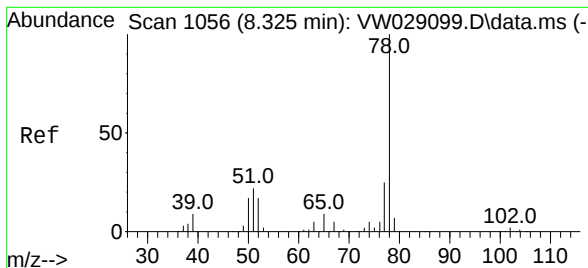
Tgt Ion: 117 Resp: 229508

Ion Ratio Lower Upper

117 100

119 95.5 78.8 118.2





#33

Benzene

Concen: 12.003 ug/L

RT: 8.325 min Scan# 110

Delta R.T. -0.000 min

Lab File: VW029109.D

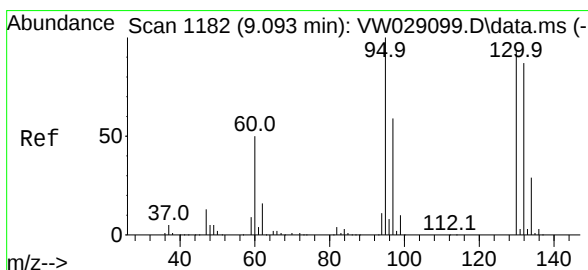
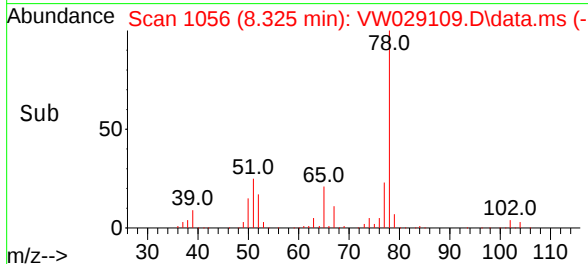
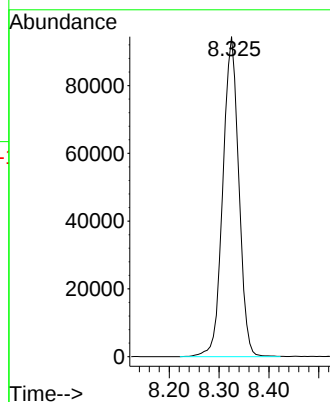
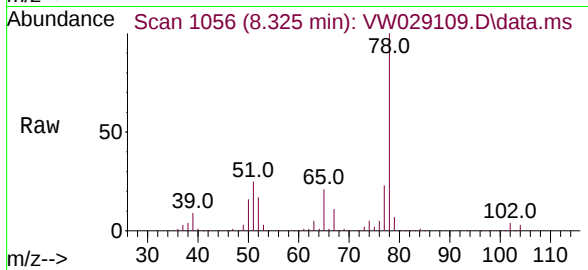
Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :

Tgt Ion: 78 Resp: 209978



#34

Trichloroethene

Concen: 48.431 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Tgt Ion: 95 Resp: 222744

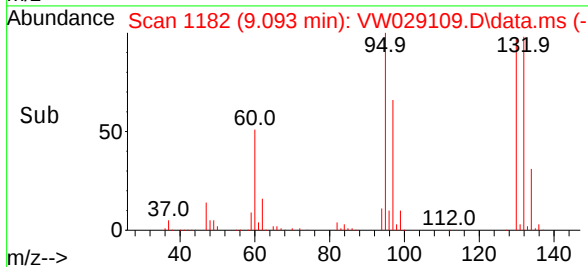
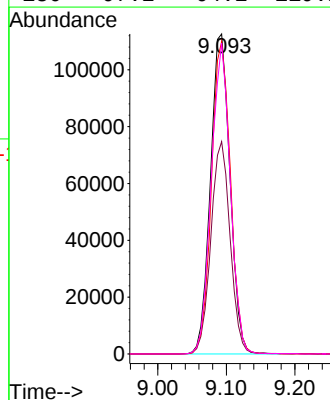
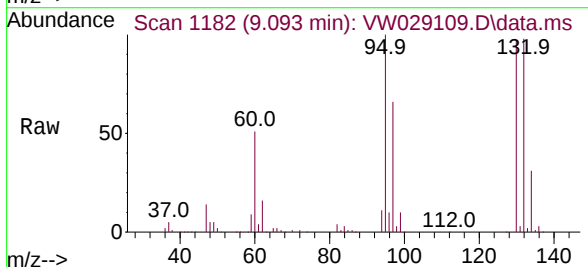
Ion Ratio Lower Upper

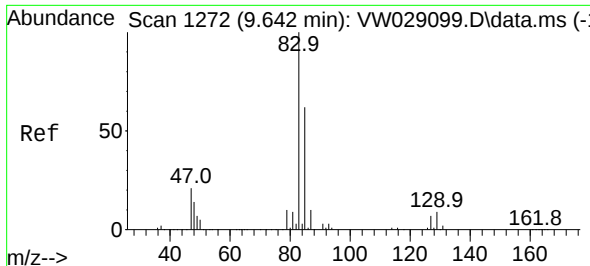
95 100

97 66.3 41.9 77.7

132 97.7 60.1 111.5

130 97.2 64.2 119.2

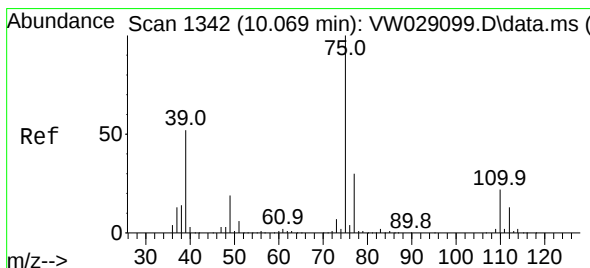
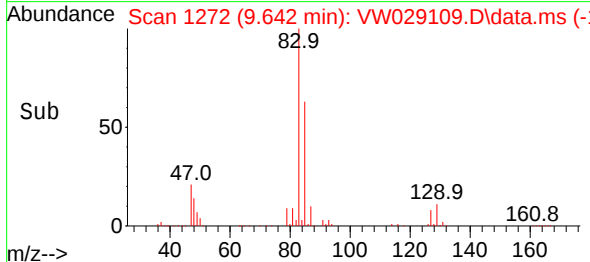
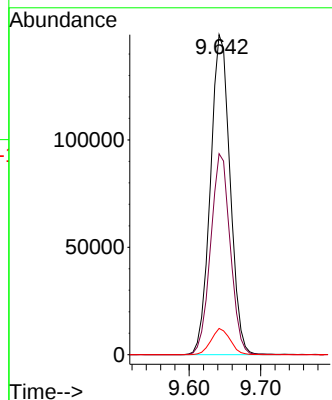
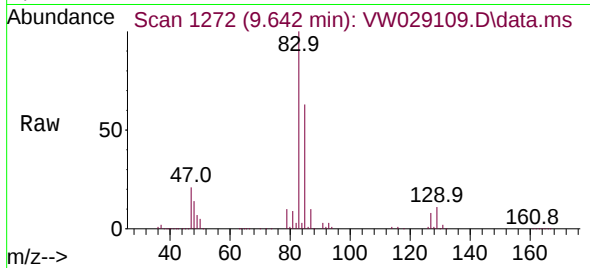




#38  
Bromodichloromethane  
Concen: 50.906 ug/L  
RT: 9.642 min Scan# 1272  
Delta R.T. -0.000 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

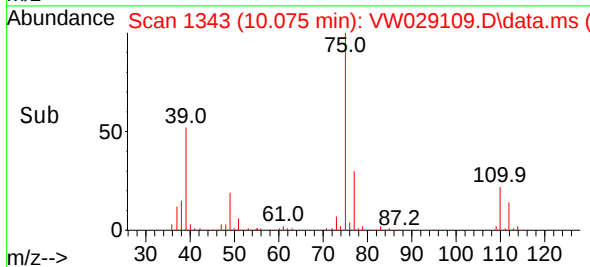
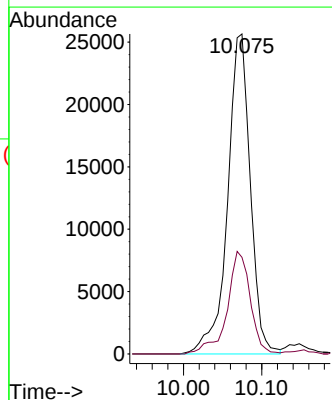
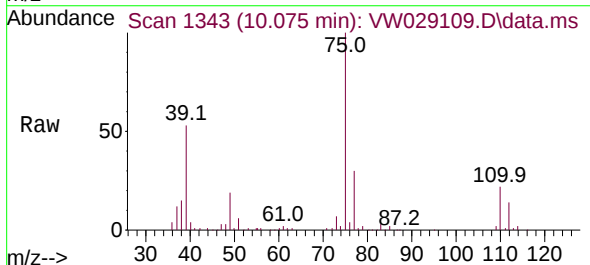
Instrument :  
MSVOA\_W  
ClientSampleId :

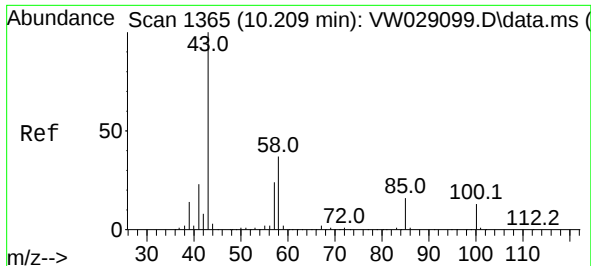
Tgt Ion: 83 Resp: 284418  
Ion Ratio Lower Upper  
83 100  
85 62.8 43.9 81.5  
127 8.2 5.4 8.2#



#39  
cis-1,3-Dichloropropene  
Concen: 7.771 ug/L  
RT: 10.075 min Scan# 1343  
Delta R.T. 0.006 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

Tgt Ion: 75 Resp: 51739  
Ion Ratio Lower Upper  
75 100  
77 30.2 21.0 39.0





#40

4-Methyl-2-pentanone

Concen: 53.950 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :

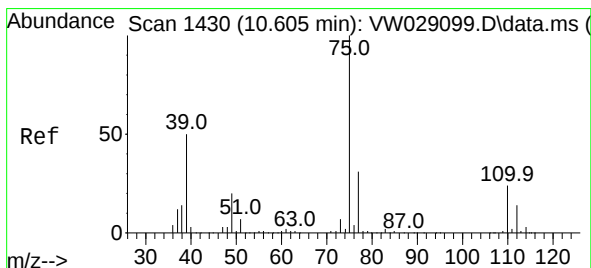
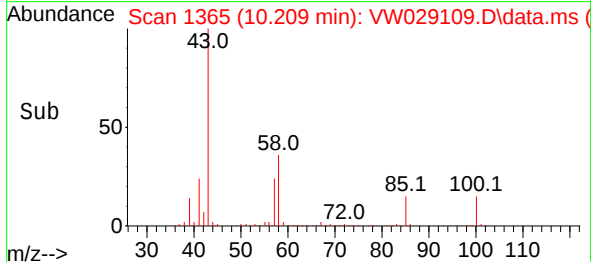
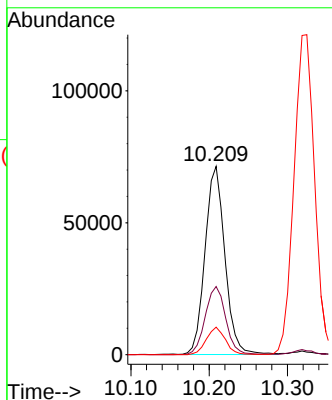
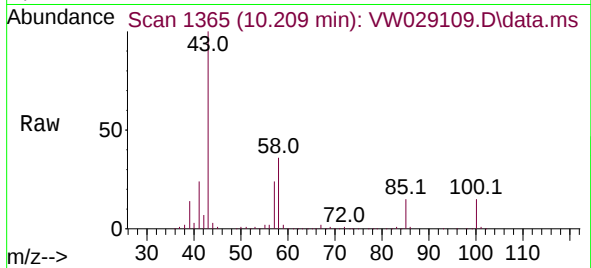
Tgt Ion: 43 Resp: 125711

Ion Ratio Lower Upper

43 100

58 37.3 30.3 45.5

100 14.0 10.7 16.1



#44

trans-1,3-Dichloropropene

Concen: 29.230 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW029109.D

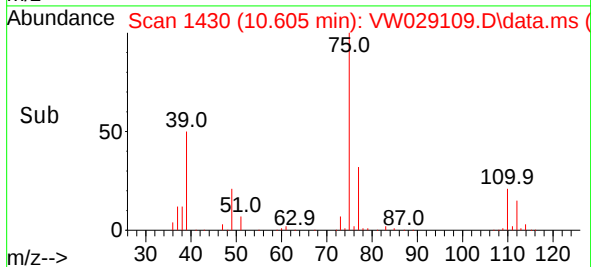
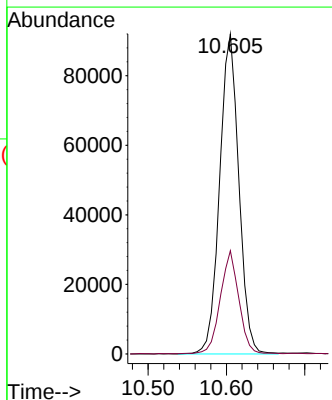
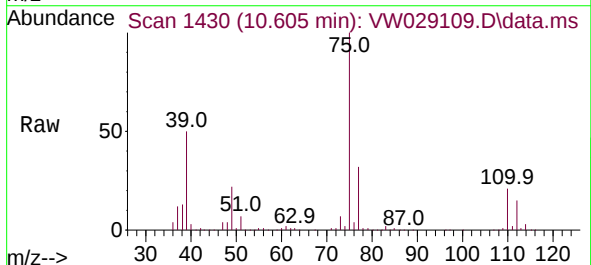
Acq: 12 Jun 2024 16:02

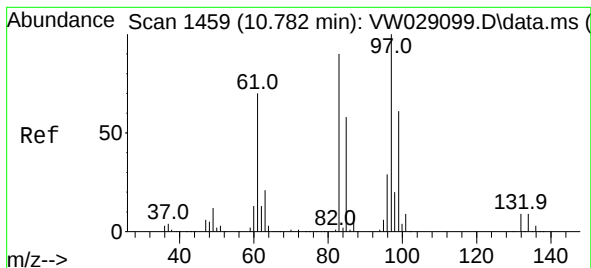
Tgt Ion: 75 Resp: 156887

Ion Ratio Lower Upper

75 100

77 32.3 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 41.723 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

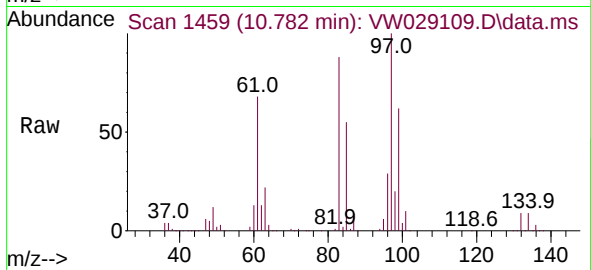
Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion: 97 Resp: 129091

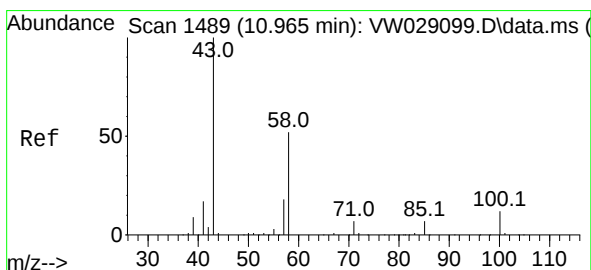
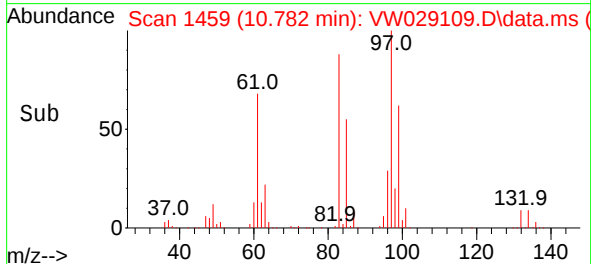
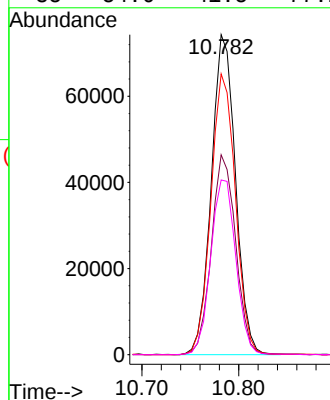
Ion Ratio Lower Upper

97 100

99 62.5 41.8 77.6

83 87.8 62.4 115.8

85 54.6 41.5 77.1



#48

2-Hexanone

Concen: 3.005 ug/L

RT: 10.922 min Scan# 1482

Delta R.T. -0.043 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Tgt Ion: 43 Resp: 5249

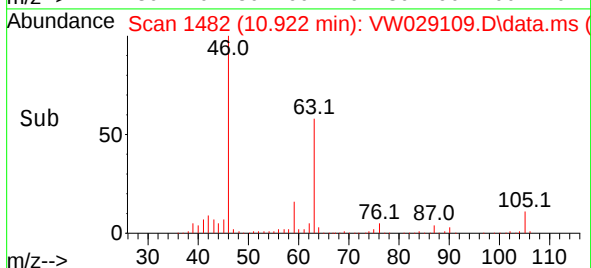
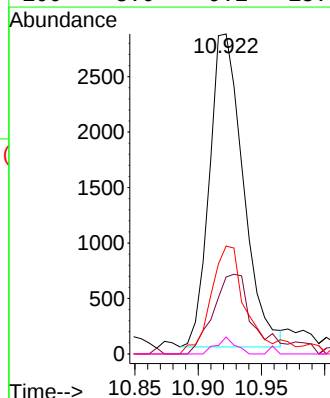
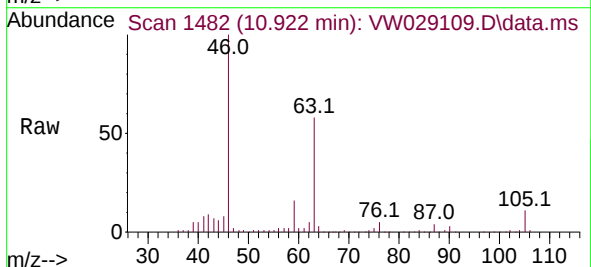
Ion Ratio Lower Upper

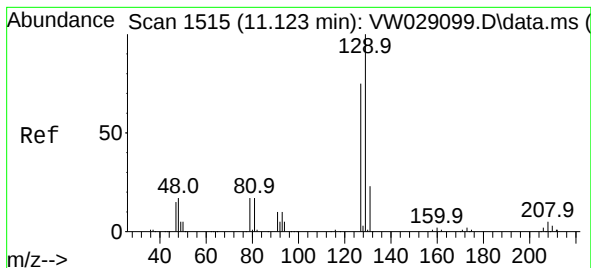
43 100

58 29.5 41.4 62.0#

57 34.2 14.2 21.4#

100 3.0 9.1 13.7#





#49

Dibromochloromethane

Concen: 23.275 ug/L

RT: 11.123 min Scan# 1515

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

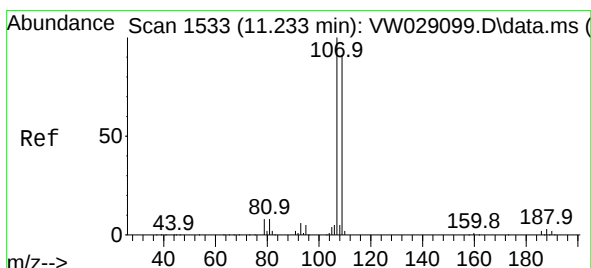
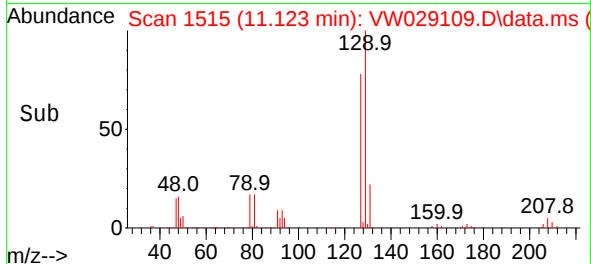
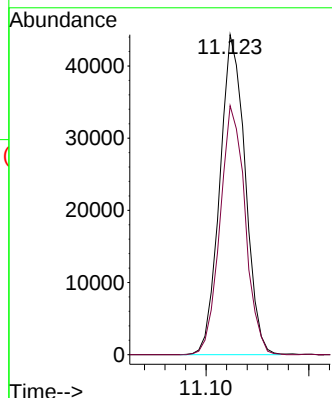
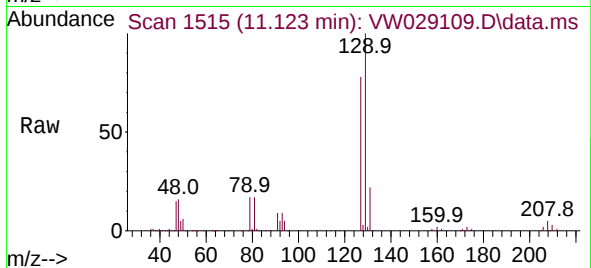
ClientSampleId :

Tgt Ion:129 Resp: 76059

Ion Ratio Lower Upper

129 100

127 77.8 56.5 104.9



#50

1,2-Dibromoethane

Concen: 43.218 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

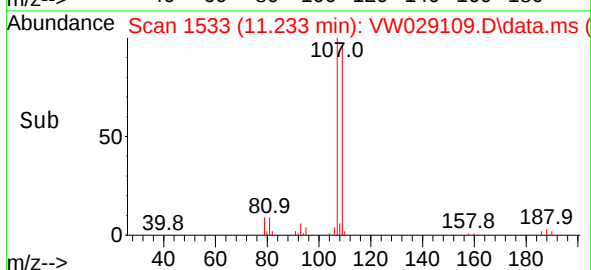
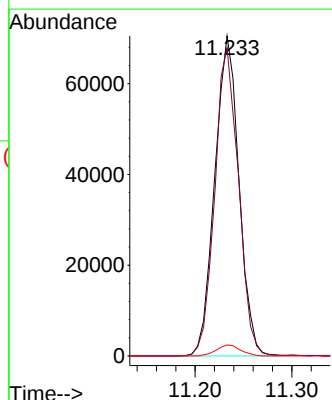
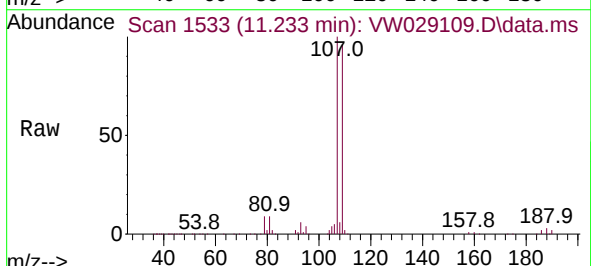
Tgt Ion:107 Resp: 122065

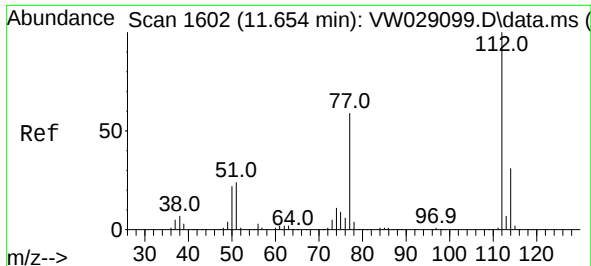
Ion Ratio Lower Upper

107 100

109 96.3 67.9 126.1

188 3.4 3.0 4.4





#51

Chlorobenzene

Concen: 16.833 ug/L

RT: 11.654 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :

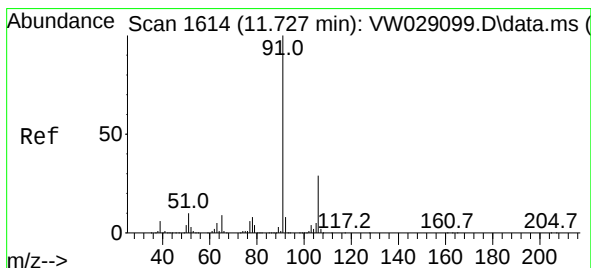
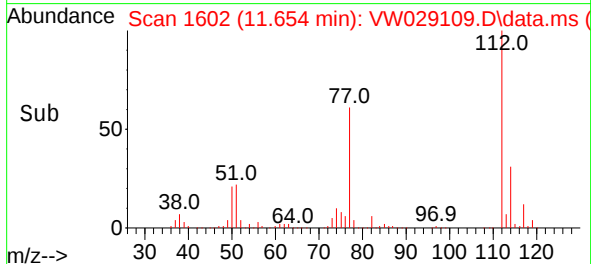
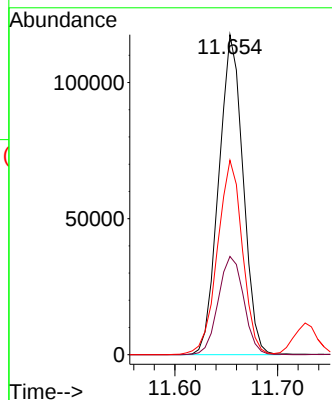
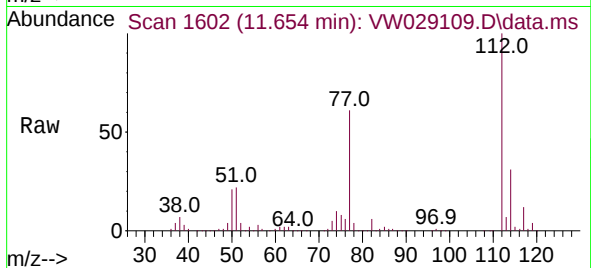
Tgt Ion:112 Resp: 193243

Ion Ratio Lower Upper

112 100

114 30.7 23.7 44.1

77 60.7 51.7 77.5



#52

Ethylbenzene

Concen: 9.707 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. -0.000 min

Lab File: VW029109.D

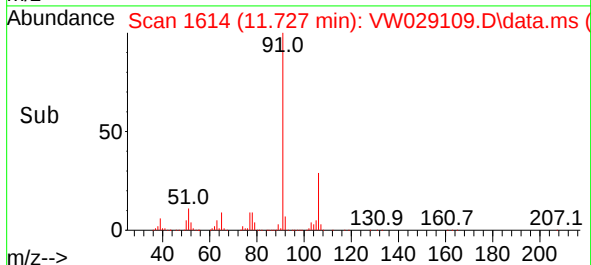
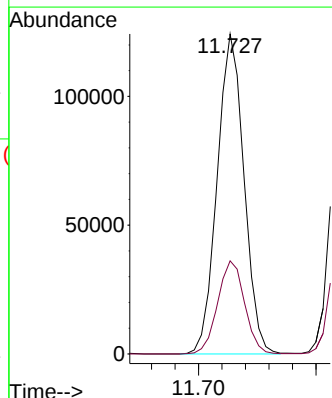
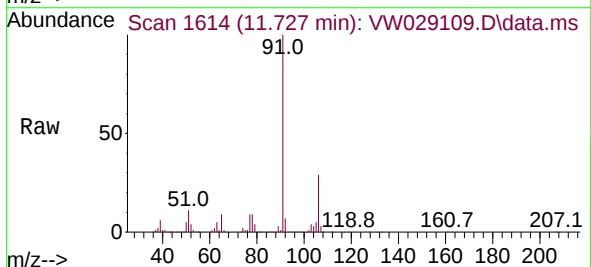
Acq: 12 Jun 2024 16:02

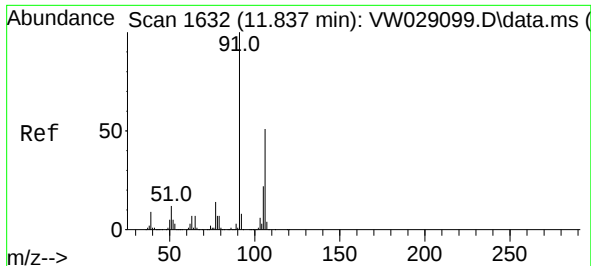
Tgt Ion: 91 Resp: 197109

Ion Ratio Lower Upper

91 100

106 29.1 19.9 37.0

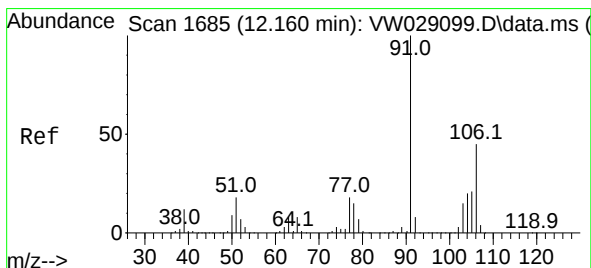
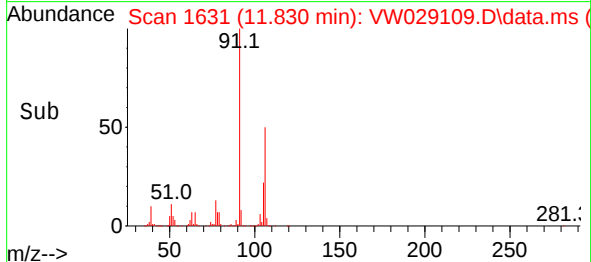
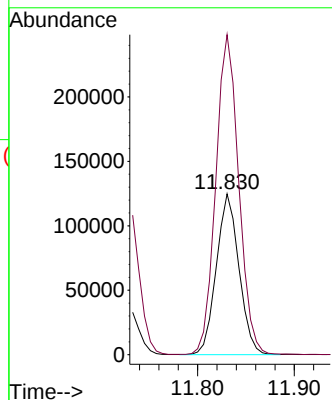
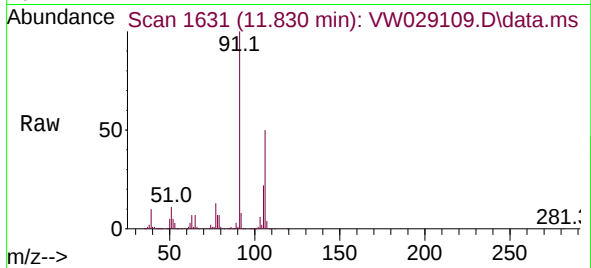




#53  
m,p-Xylene  
Concen: 26.918 ug/L  
RT: 11.830 min Scan# 1632  
Delta R.T. -0.006 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

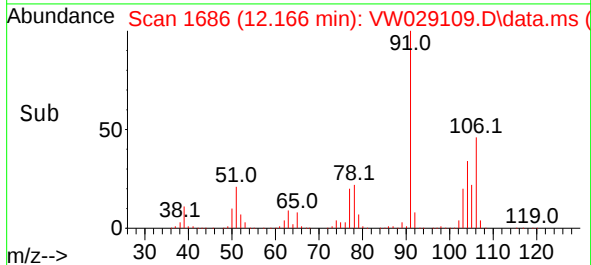
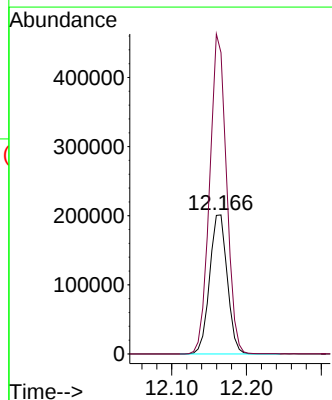
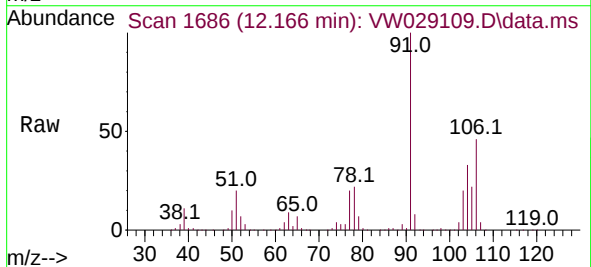
Instrument :  
MSVOA\_W  
ClientSampleId :

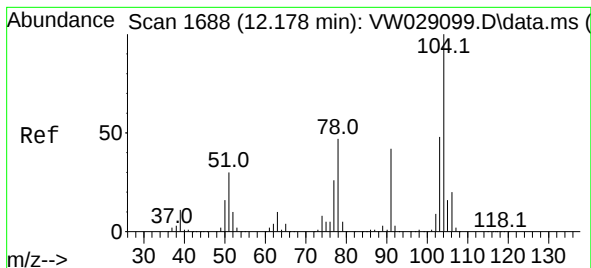
Tgt Ion:106 Resp: 202445  
Ion Ratio Lower Upper  
106 100  
91 199.0 152.0 282.2



#54  
o-Xylene  
Concen: 47.275 ug/L  
RT: 12.166 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

Tgt Ion:106 Resp: 329220  
Ion Ratio Lower Upper  
106 100  
91 216.6 152.5 283.3





#55

Styrene

Concen: 33.326 ug/L

RT: 12.178 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

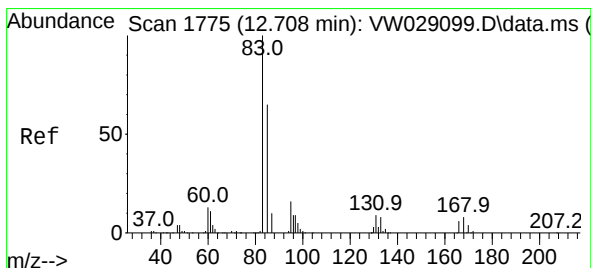
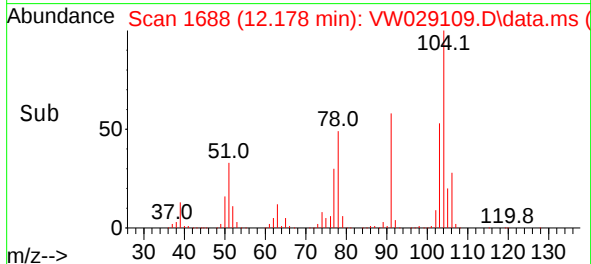
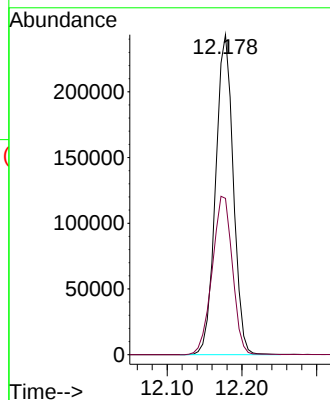
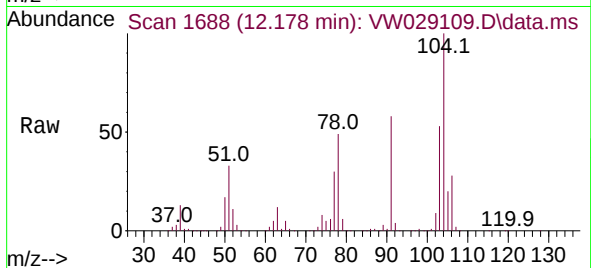
ClientSampleId :

Tgt Ion:104 Resp: 400127

Ion Ratio Lower Upper

104 100

78 48.8 33.3 61.9



#57

1,1,2,2-Tetrachloroethane

Concen: 21.979 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

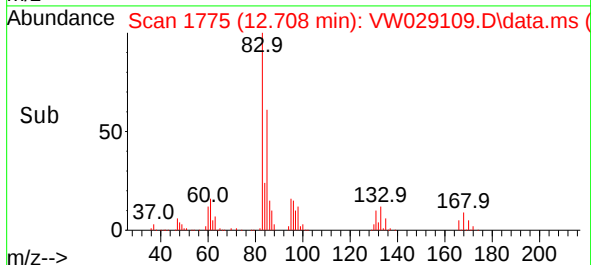
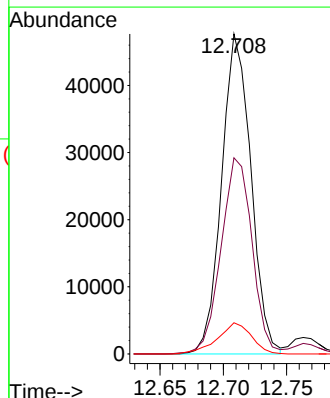
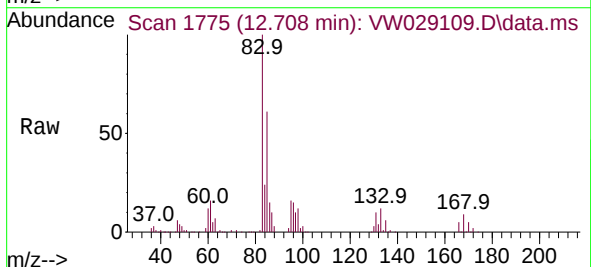
Tgt Ion: 83 Resp: 76767

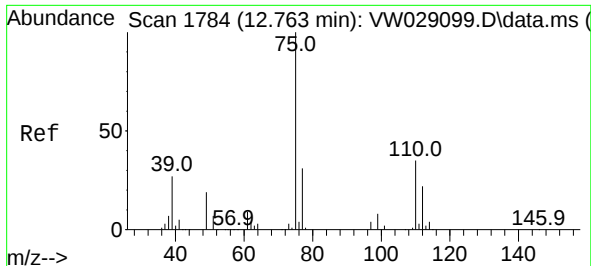
Ion Ratio Lower Upper

83 100

85 61.3 43.8 81.3

131 9.8 7.3 10.9





#61

1,2,3-Trichloropropane

Concen: 57.023 ug/L

RT: 12.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :

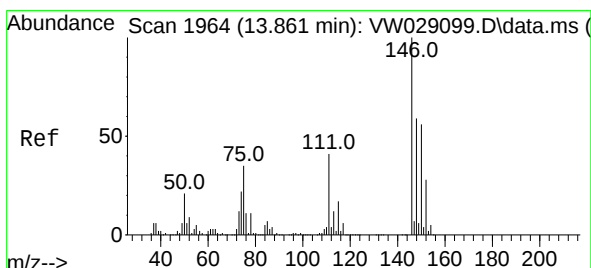
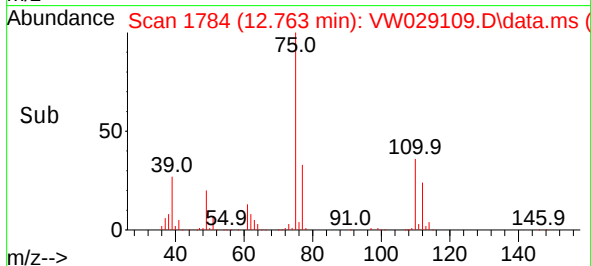
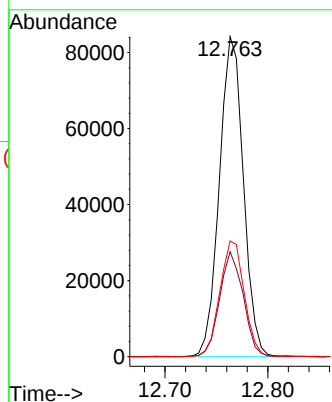
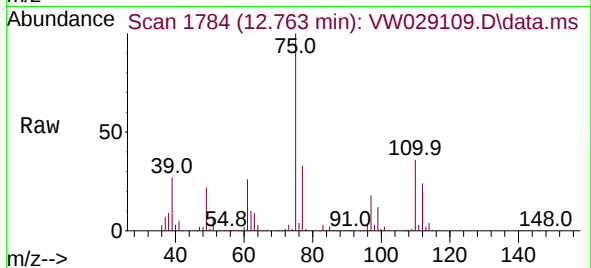
Tgt Ion: 75 Resp: 136583

Ion Ratio Lower Upper

75 100

77 32.3 26.3 39.5

110 36.8 29.4 44.0



#67

1,2-Dichlorobenzene

Concen: 51.122 ug/L

RT: 13.867 min Scan# 1965

Delta R.T. 0.006 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

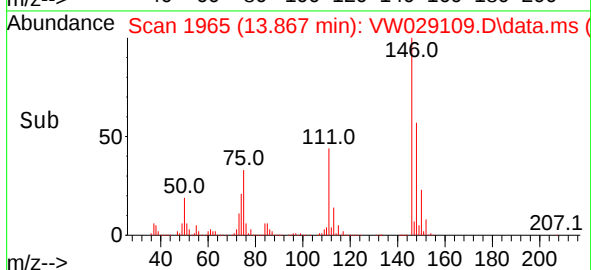
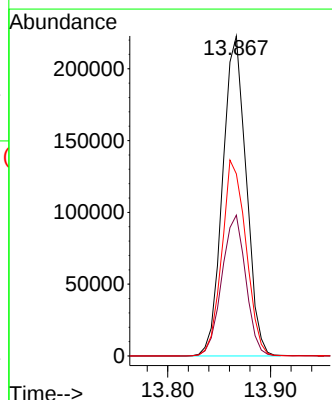
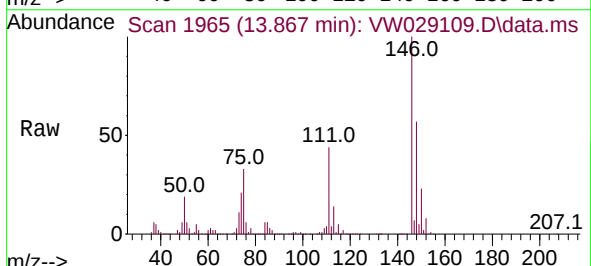
Tgt Ion:146 Resp: 353852

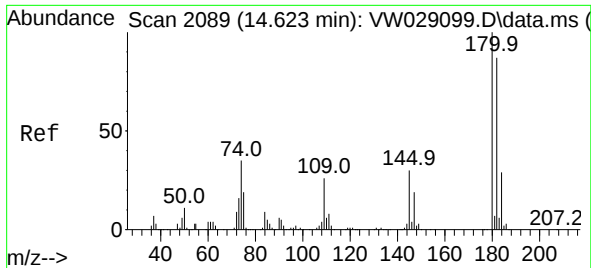
Ion Ratio Lower Upper

146 100

111 44.0 32.8 49.2

148 56.9 48.2 72.4





#69

1,3,5-Trichlorobenzene

Concen: 10.066 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. 0.500 min

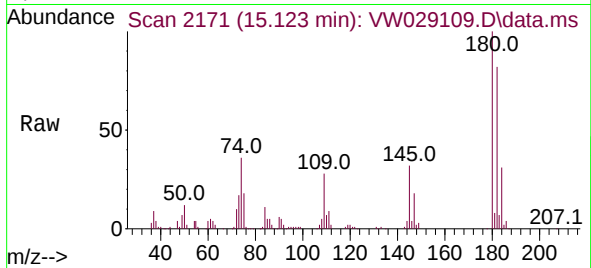
Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion:180 Resp: 53376

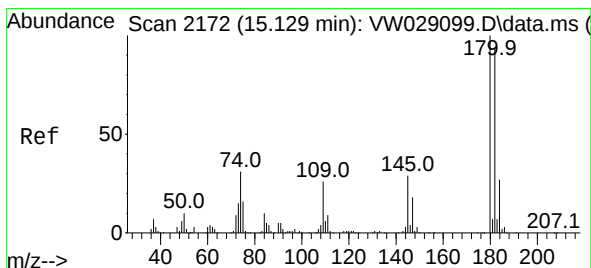
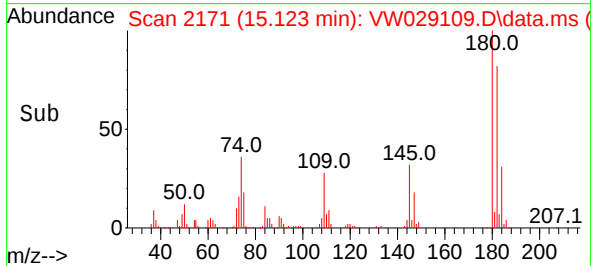
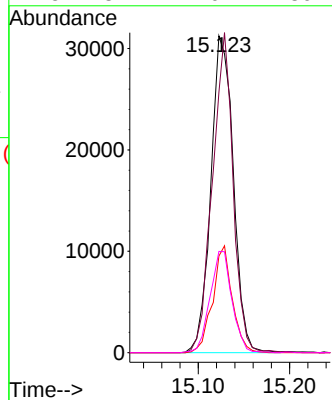
Ion Ratio Lower Upper

180 100

182 92.4 77.4 116.0

184 29.4 24.6 36.8

145 31.2 26.1 39.1



#70

1,2,4-trichlorobenzene

Concen: 12.420 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.006 min

Lab File: VW029109.D

Acq: 12 Jun 2024 16:02

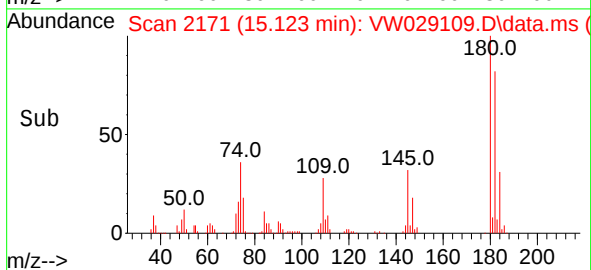
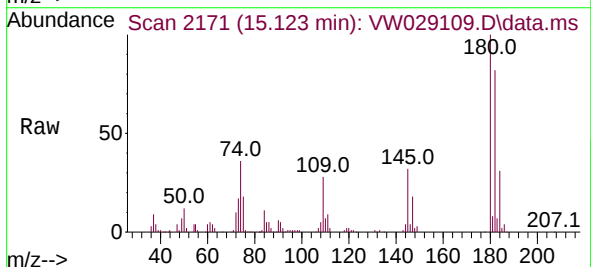
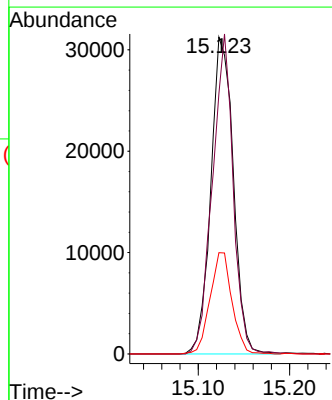
Tgt Ion:180 Resp: 53376

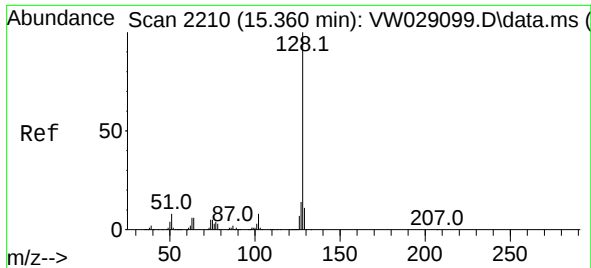
Ion Ratio Lower Upper

180 100

182 92.4 75.3 112.9

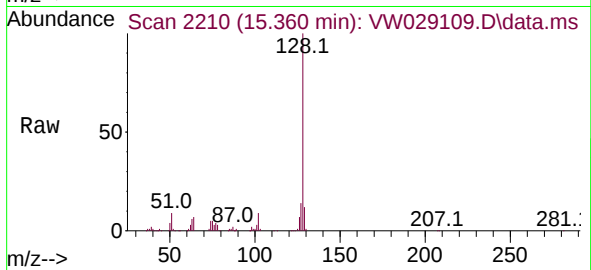
145 31.2 26.2 39.2





#71  
Naphthalene  
Concen: 12.433 ug/L  
RT: 15.360 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VW029109.D  
Acq: 12 Jun 2024 16:02

Instrument :  
MSVOA\_W  
ClientSampleId :



Tgt Ion:128 Resp: 91037  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.2 15.2  
129 11.2 8.6 12.8

