

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053023\  
 Data File : VY013923.D  
 Acq On : 30 May 2023 16:42  
 Operator : KP/MD  
 Sample : 02852-09  
 Misc : 6.83g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CB-32-G3-SO-50.5-051823

Quant Time: May 31 03:27:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:25:47 2023  
 Response via : Initial Calibration

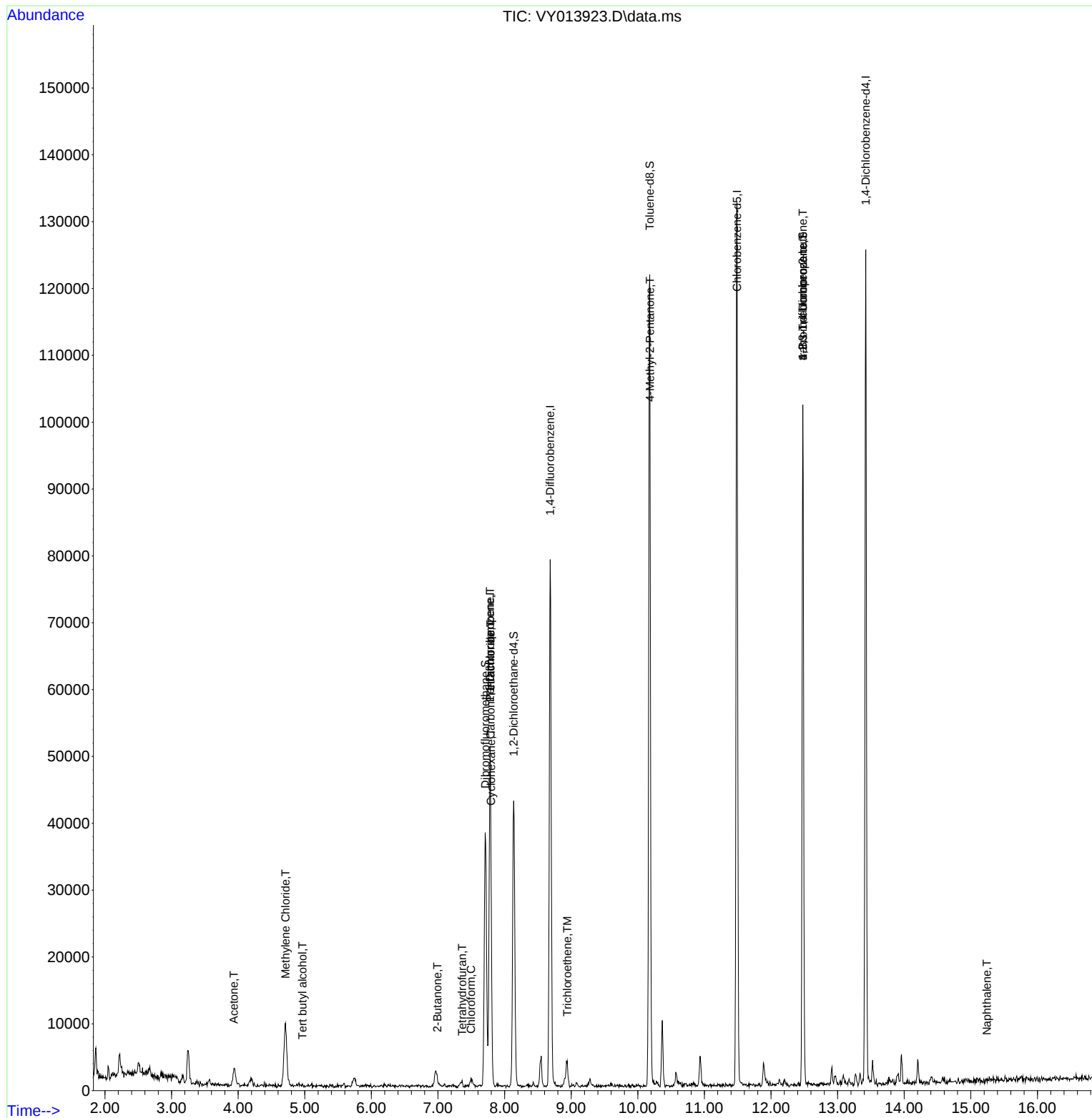
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 38048    | 50.000   | ug/l        | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 65763    | 50.000   | ug/l        | -0.01    |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 71449    | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 31366    | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 36450    | 82.807   | ug/l        | -0.01    |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 165.620%# |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 25858    | 60.885   | ug/l        | -0.01    |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 121.780%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 82676    | 51.219   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 102.440%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 27508    | 51.269   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 102.540%  |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 11) Tert butyl alcohol        | 4.966  | 59    | 135      | 4.003    | ug/l #      | 73       |
| 16) Acetone                   | 3.936  | 43    | 4812     | 36.833   | ug/l #      | 84       |
| 20) Methylene Chloride        | 4.710  | 84    | 6683     | 12.523   | ug/l        | 92       |
| 25) 2-Butanone                | 6.990  | 43    | 510      | 3.199    | ug/l #      | 49       |
| 29) Tetrahydrofuran           | 7.362  | 42    | 419      | 4.402    | ug/l #      | 71       |
| 30) Chloroform                | 7.496  | 83    | 899      | 1.158    | ug/l #      | 74       |
| 31) Cyclohexane               | 7.795  | 56    | 885      | 1.309    | ug/l #      | 12       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 2926     | 4.523    | ug/l #      | 53       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 3820     | 5.193    | ug/l #      | 16       |
| 44) Trichloroethene           | 8.941  | 130   | 1170     | 2.337    | ug/l        | 63       |
| 51) 4-Methyl-2-Pentanone      | 10.185 | 43    | 462      | 1.206    | ug/l #      | 1        |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 14496    | 39.195   | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 14496    | 85.079   | ug/l #      | 10       |
| 95) Naphthalene               | 15.239 | 128   | 234      | 4.708    | ug/l #      | 68       |
| -----                         |        |       |          |          |             |          |

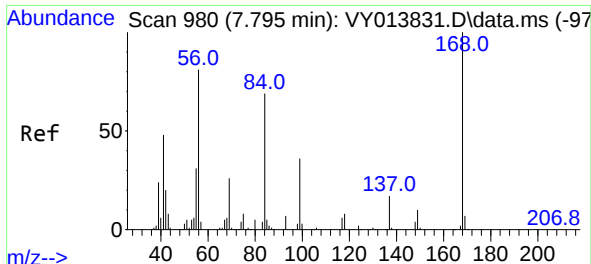
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053023\  
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CB-32-G3-SO-50.5-051823

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Quant Title : SW846 8260  
QLast Update : Wed May 24 05:25:47 2023  
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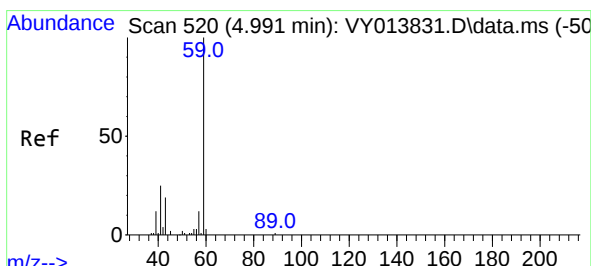
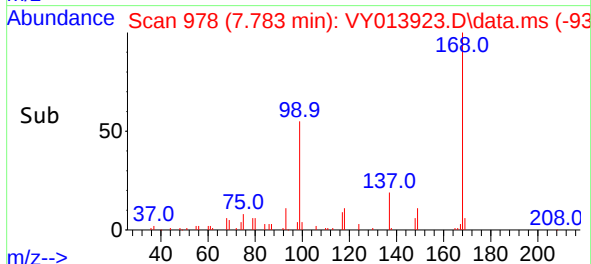
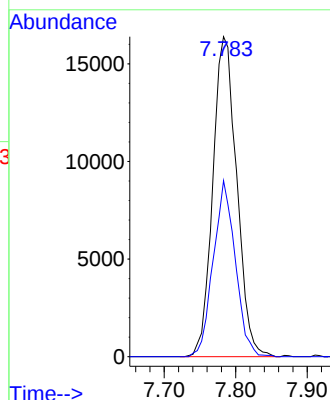
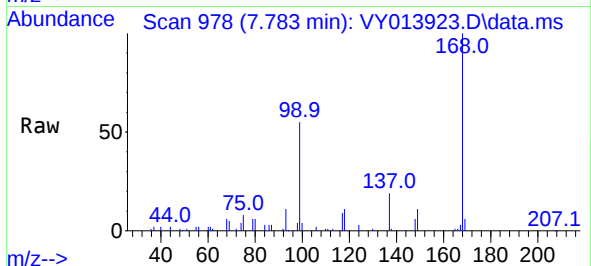




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

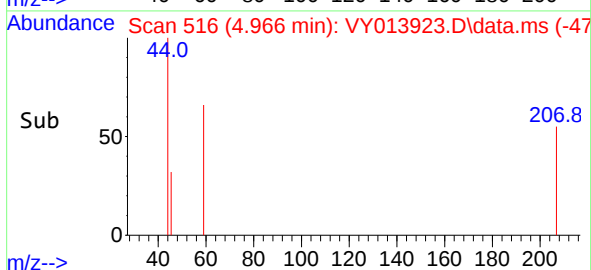
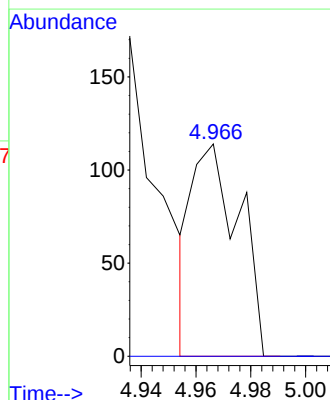
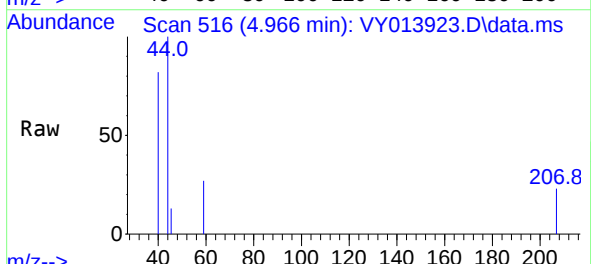
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

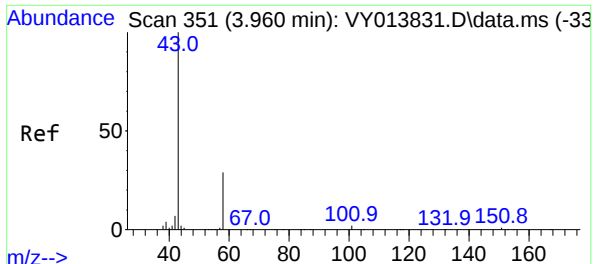
Tgt Ion:168 Resp: 38048  
Ion Ratio Lower Upper  
168 100  
99 55.0 43.4 65.2



#11  
Tert butyl alcohol  
Concen: 4.003 ug/l  
RT: 4.966 min Scan# 516  
Delta R.T. -0.024 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion: 59 Resp: 135  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#





#16

Acetone

Concen: 36.833 ug/l

RT: 3.936 min Scan# 34

Delta R.T. -0.024 min

Lab File: VY013923.D

Acq: 30 May 2023 16:42

Instrument :

MSVOA\_Y

ClientSampleId :

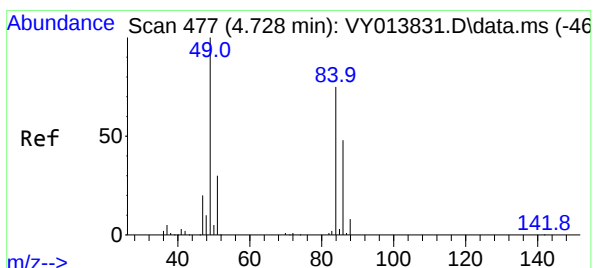
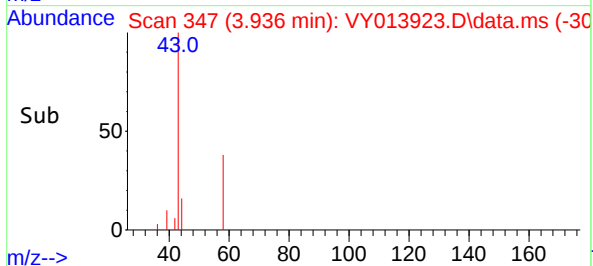
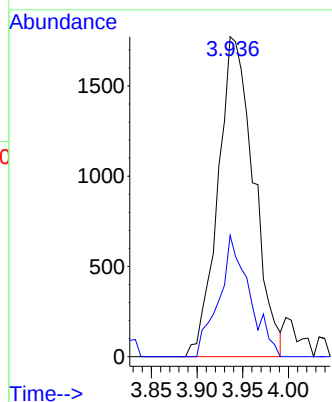
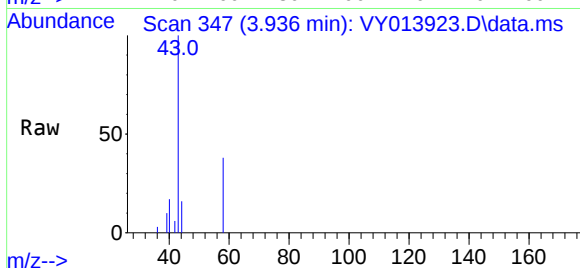
CB-32-G3-SO-50.5-051823

Tgt Ion: 43 Resp: 4812

Ion Ratio Lower Upper

43 100

58 37.9 23.3 34.9#



#20

Methylene Chloride

Concen: 12.523 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.018 min

Lab File: VY013923.D

Acq: 30 May 2023 16:42

Tgt Ion: 84 Resp: 6683

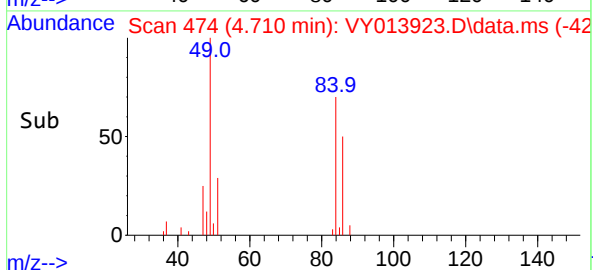
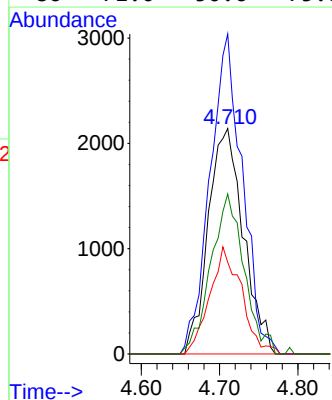
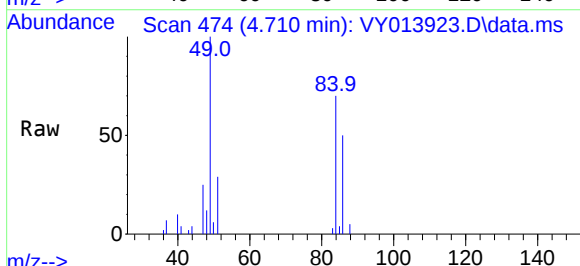
Ion Ratio Lower Upper

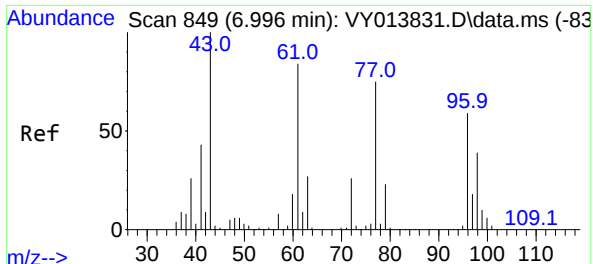
84 100

49 141.9 106.2 159.2

51 40.7 31.4 47.0

86 71.0 50.6 75.8

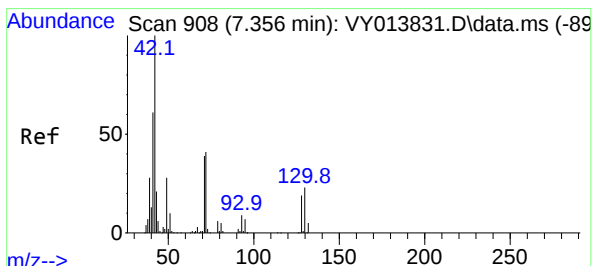
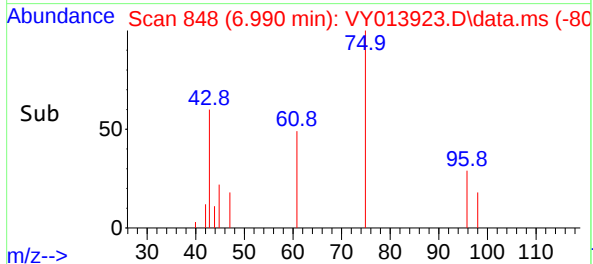
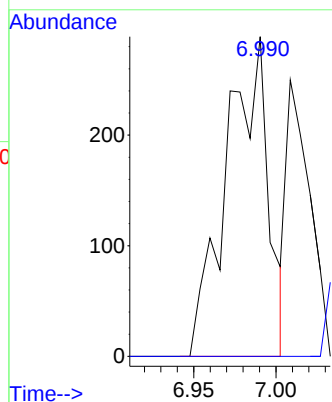
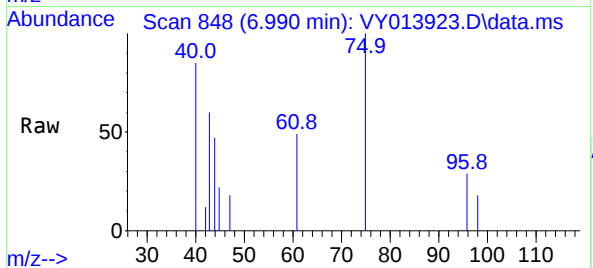




#25  
2-Butanone  
Concen: 3.199 ug/l  
RT: 6.990 min Scan# 849  
Delta R.T. -0.006 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

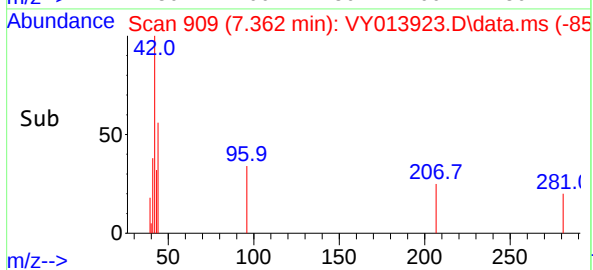
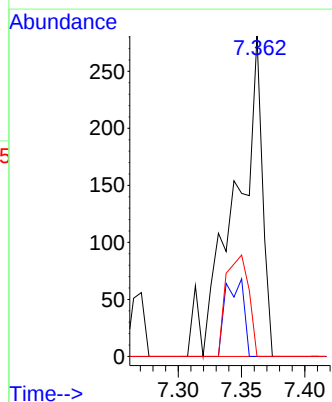
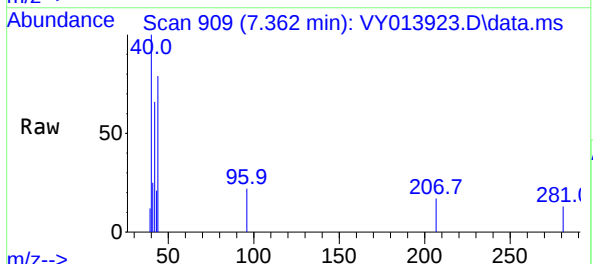
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

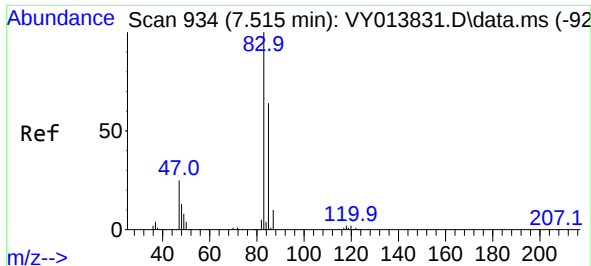
Tgt Ion: 43 Resp: 510  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.5 30.7#



#29  
Tetrahydrofuran  
Concen: 4.402 ug/l  
RT: 7.362 min Scan# 909  
Delta R.T. 0.006 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion: 42 Resp: 419  
Ion Ratio Lower Upper  
42 100  
72 16.0 31.7 47.5#  
71 26.3 30.6 45.8#

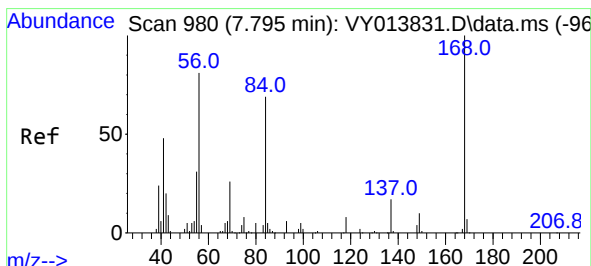
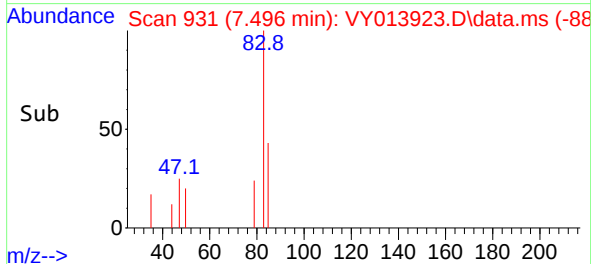
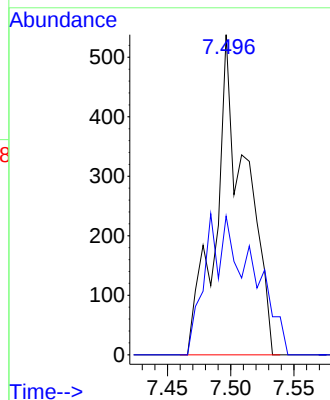
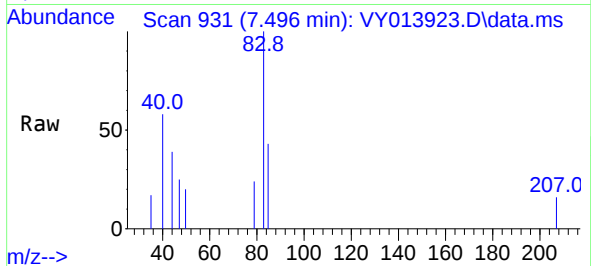




#30  
Chloroform  
Concen: 1.158 ug/l  
RT: 7.496 min Scan# 91  
Delta R.T. -0.018 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

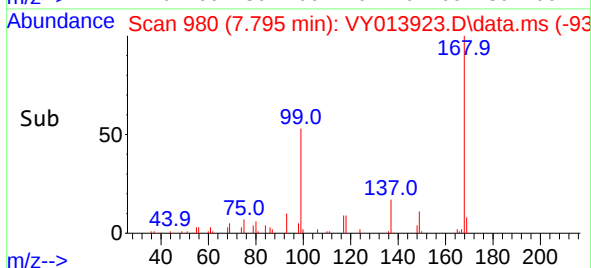
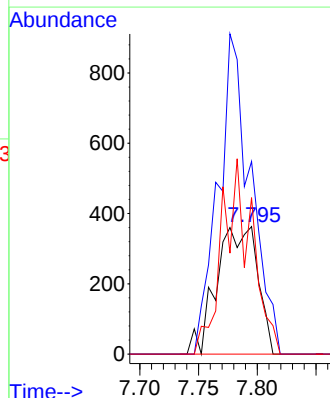
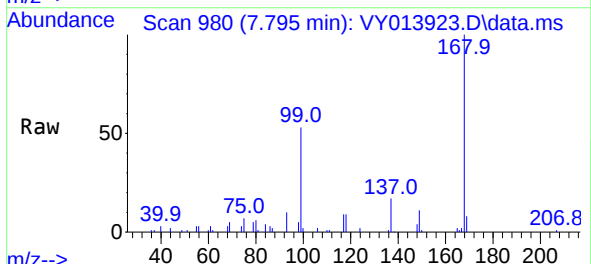
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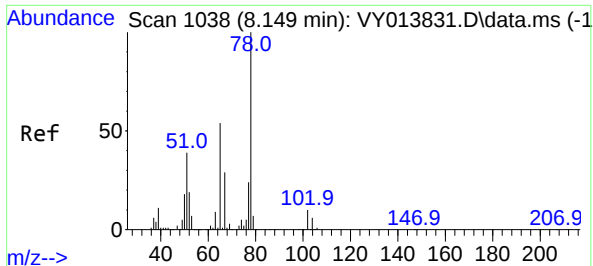
Tgt Ion: 83 Resp: 899  
Ion Ratio Lower Upper  
83 100  
85 43.3 51.0 76.6#



#31  
Cyclohexane  
Concen: 1.309 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. 0.000 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion: 56 Resp: 885  
Ion Ratio Lower Upper  
56 100  
69 151.0 25.8 38.8#  
84 122.6 68.2 102.2#





#33

1,2-Dichloroethane-d4

Concen: 82.807 ug/l

RT: 8.136 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY013923.D

Acq: 30 May 2023 16:42

Instrument :

MSVOA\_Y

ClientSampleId :

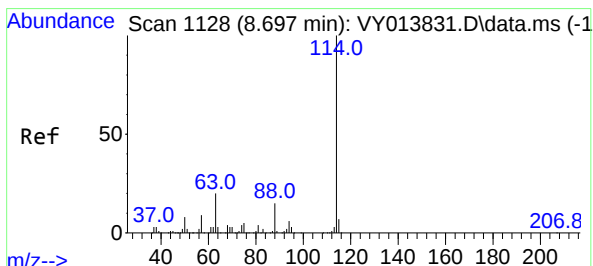
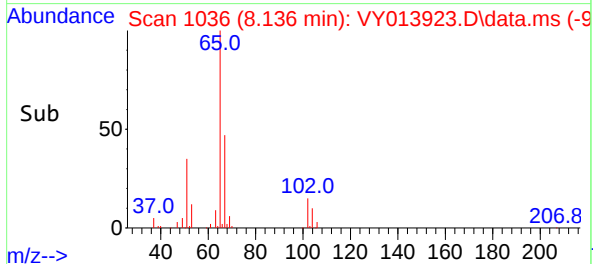
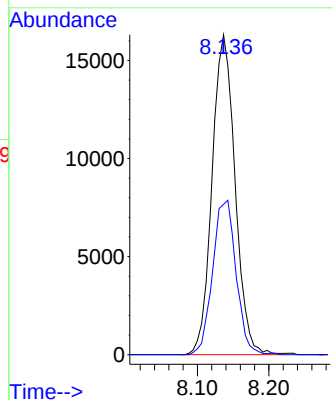
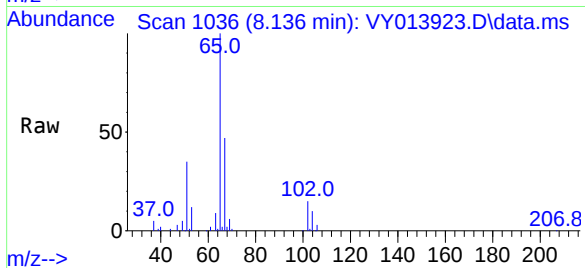
CB-32-G3-SO-50.5-051823

Tgt Ion: 65 Resp: 36450

Ion Ratio Lower Upper

65 100

67 49.2 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.012 min

Lab File: VY013923.D

Acq: 30 May 2023 16:42

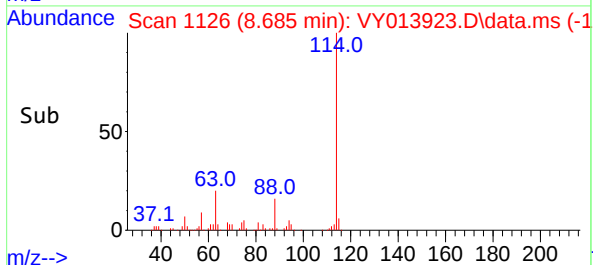
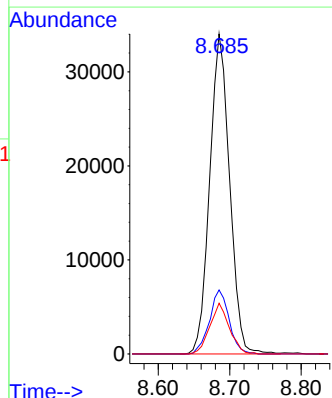
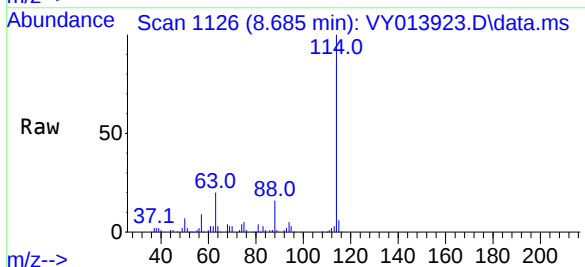
Tgt Ion: 114 Resp: 65763

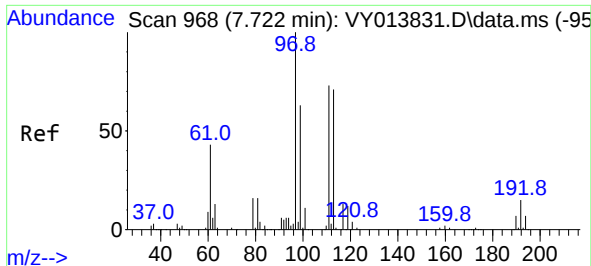
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 15.9 0.0 30.0

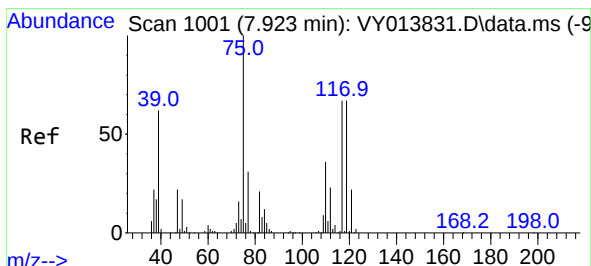
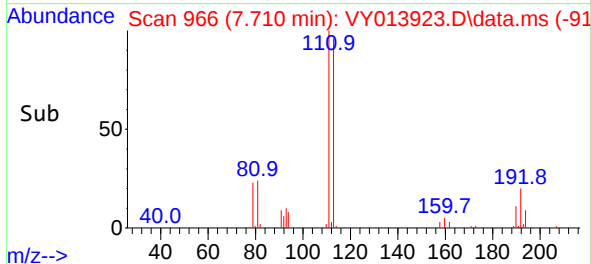
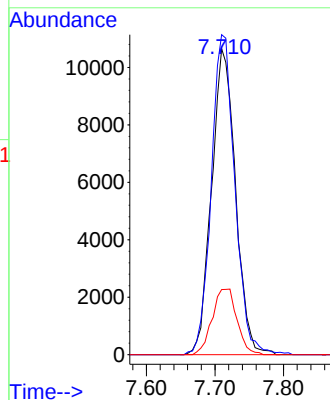
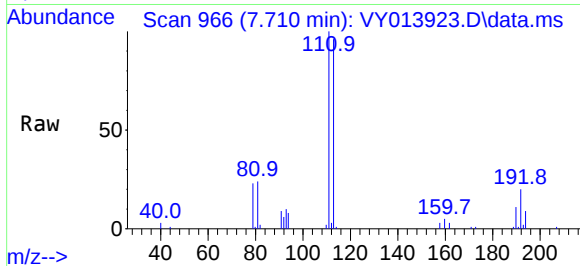




#35  
Dibromofluoromethane  
Concen: 60.885 ug/l  
RT: 7.710 min Scan# 910  
Delta R.T. -0.012 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

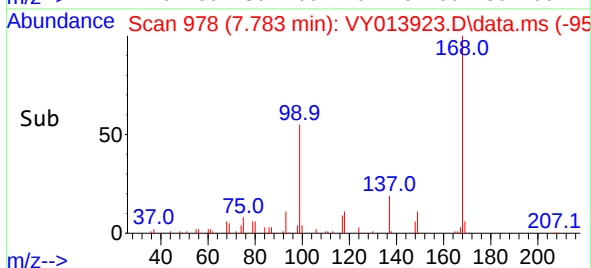
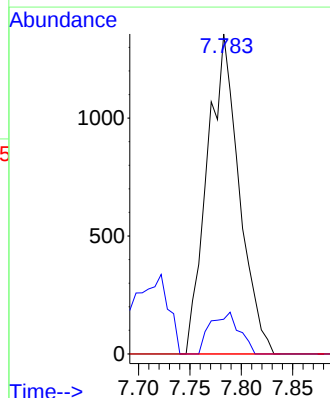
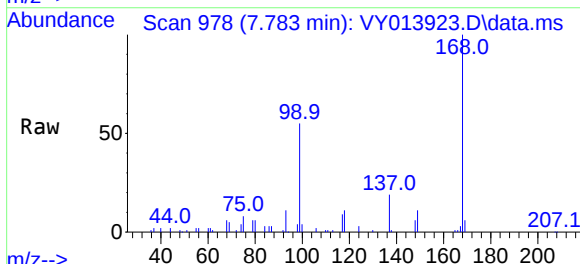
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

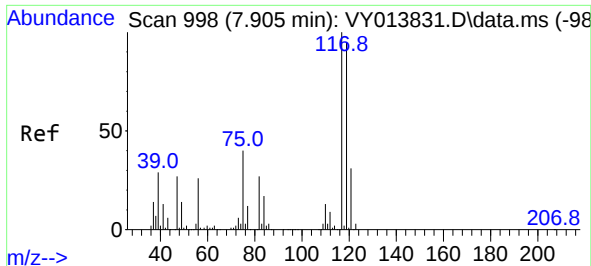
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|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 25858 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.3 | 80.4  | 120.6 |
| 192      | 22.2  | 16.6  | 25.0  |



#36  
1,1-Dichloropropene  
Concen: 4.523 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 2926  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 11.8  | 17.5  | 52.6# |
| 77       | 0.0   | 24.4  | 36.6# |

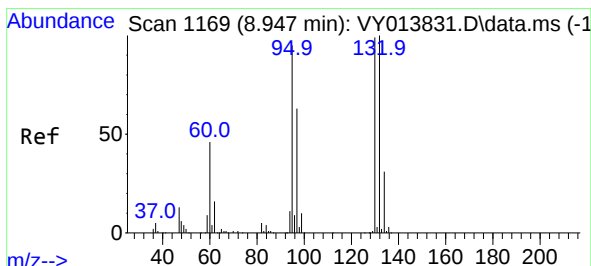
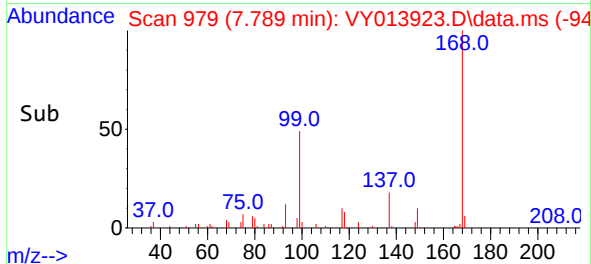
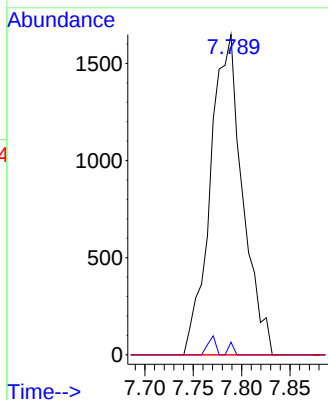
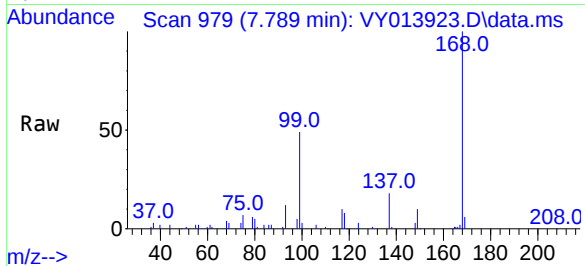




#38  
Carbon Tetrachloride  
Concen: 5.193 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

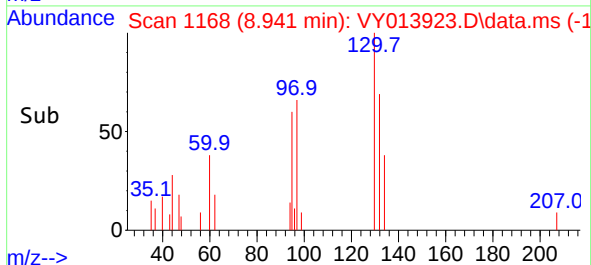
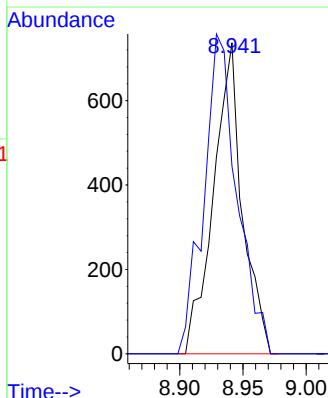
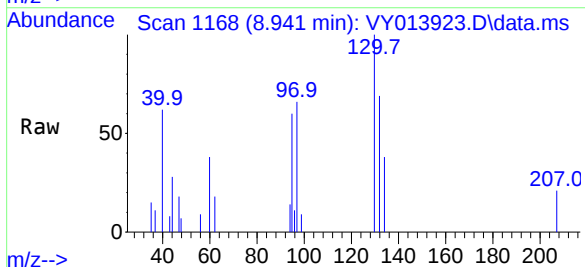
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

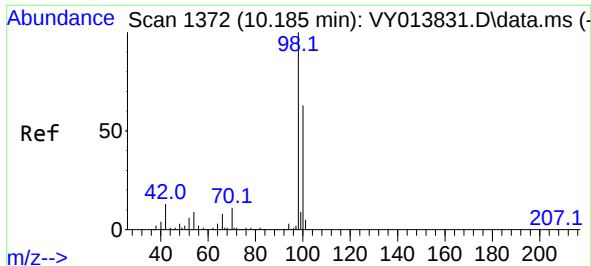
Tgt Ion:117 Resp: 3820  
Ion Ratio Lower Upper  
117 100  
119 3.9 75.6 113.4#  
121 0.0 24.8 37.2#



#44  
Trichloroethene  
Concen: 2.337 ug/l  
RT: 8.941 min Scan# 1168  
Delta R.T. -0.006 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion:130 Resp: 1170  
Ion Ratio Lower Upper  
130 100  
95 60.4 0.0 192.8

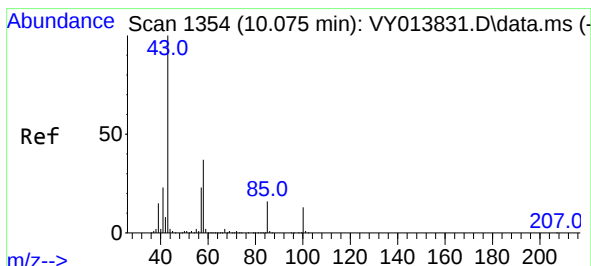
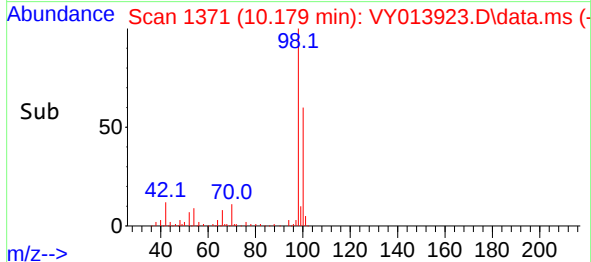
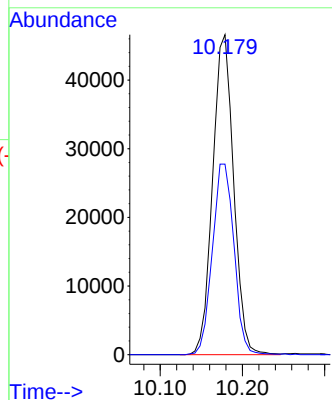
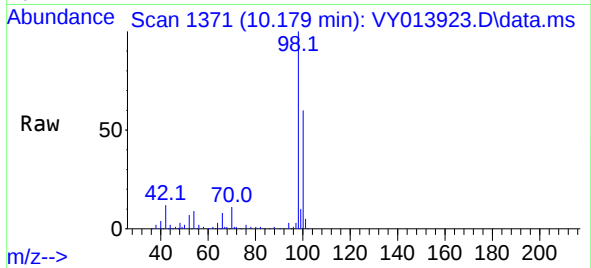




#50  
Toluene-d8  
Concen: 51.219 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

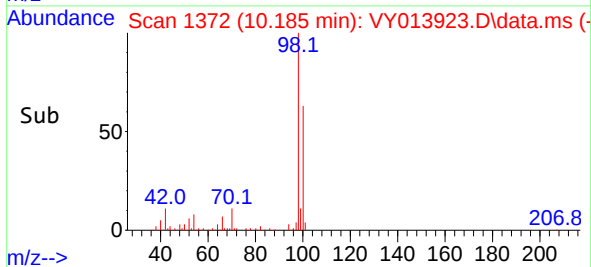
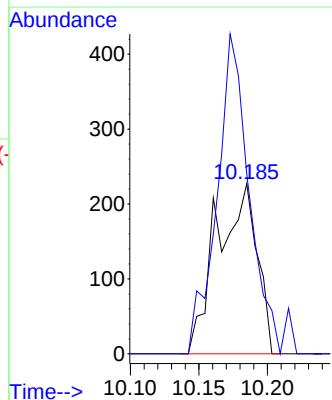
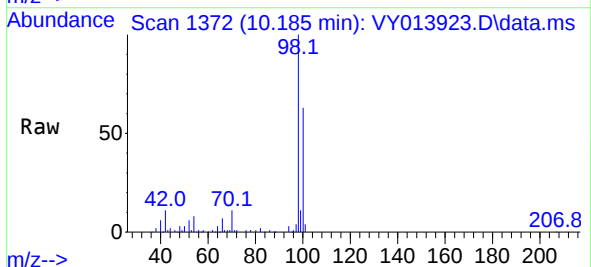
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

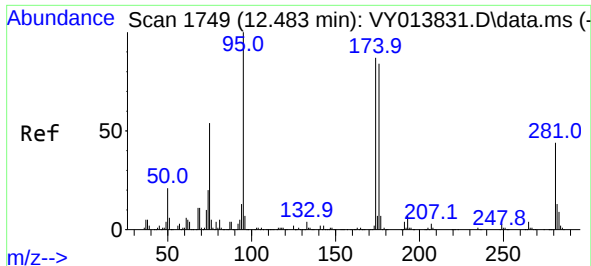
Tgt Ion: 98 Resp: 82676  
Ion Ratio Lower Upper  
98 100  
100 61.3 50.8 76.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.206 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. 0.110 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion: 43 Resp: 462  
Ion Ratio Lower Upper  
43 100  
58 155.8 29.1 43.7#

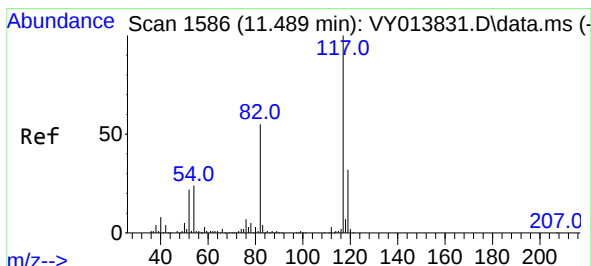
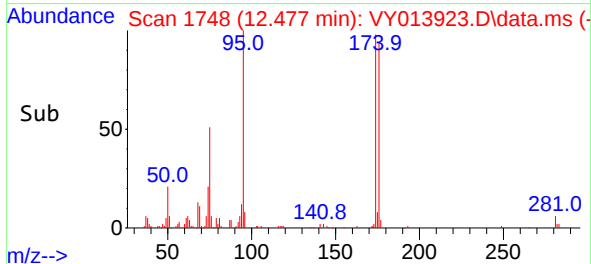
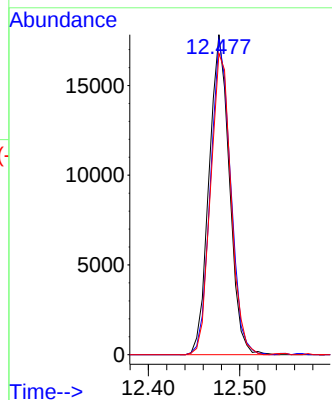
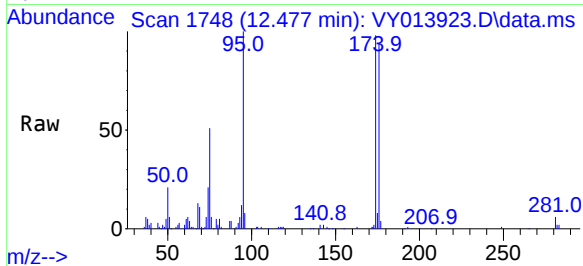




#62  
4-Bromofluorobenzene  
Concen: 51.269 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

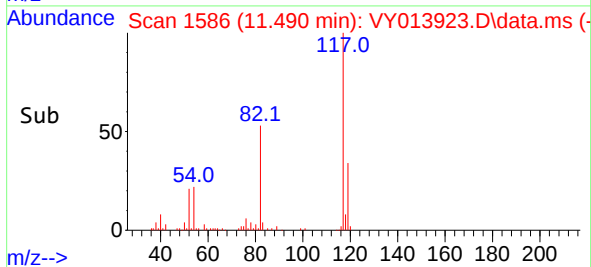
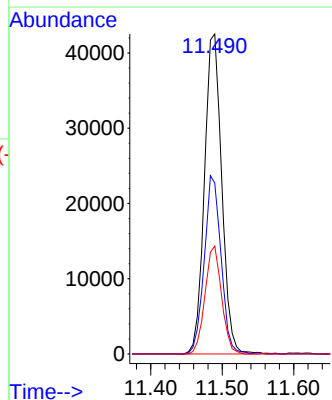
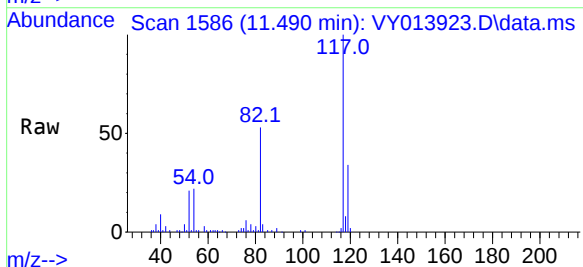
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

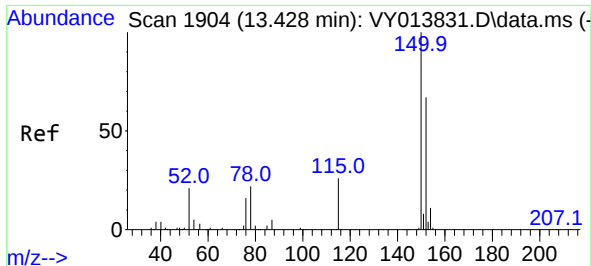
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 27508 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 97.2  | 0.0   | 176.0 |
| 176      | 94.2  | 0.0   | 170.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 71449 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 53.4  | 44.2  | 66.4  |
| 119      | 33.7  | 25.7  | 38.5  |

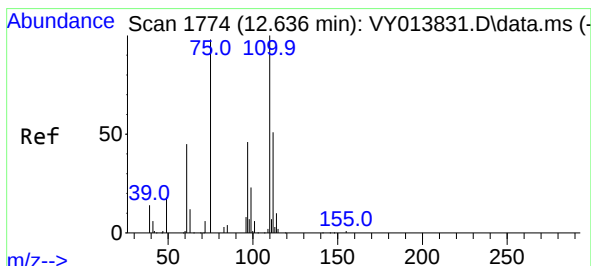
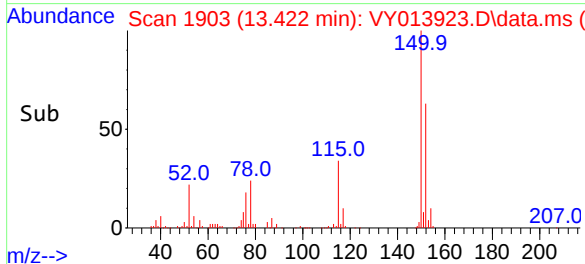
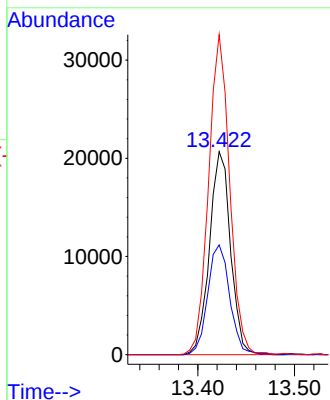
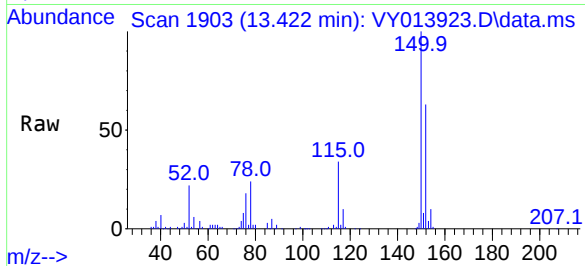




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1904  
Delta R.T. -0.006 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

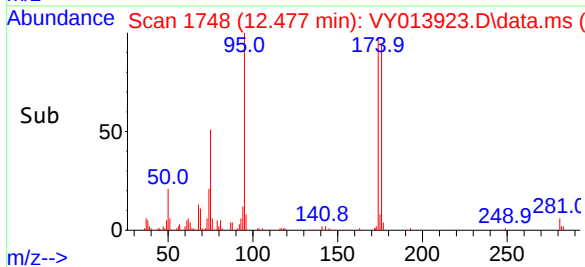
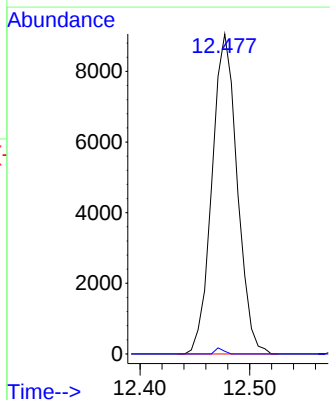
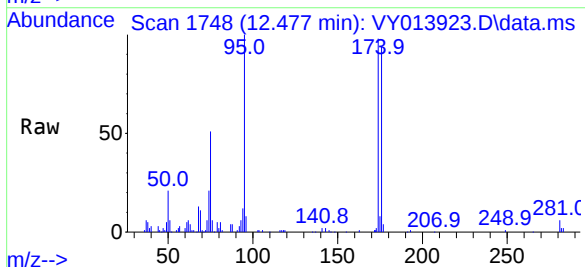
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

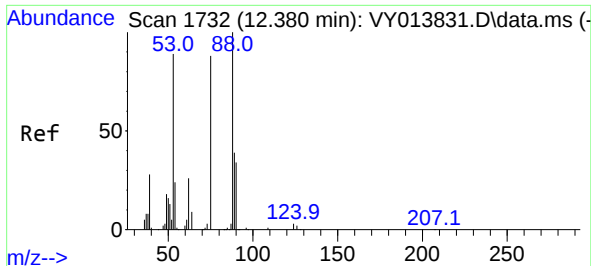
Tgt Ion:152 Resp: 31366  
Ion Ratio Lower Upper  
152 100  
115 56.5 28.8 86.5  
150 157.3 0.0 353.4



#76  
1,2,3-Trichloropropane  
Concen: 39.195 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.158 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion: 75 Resp: 14496  
Ion Ratio Lower Upper  
75 100  
77 0.6 0.0 0.0#

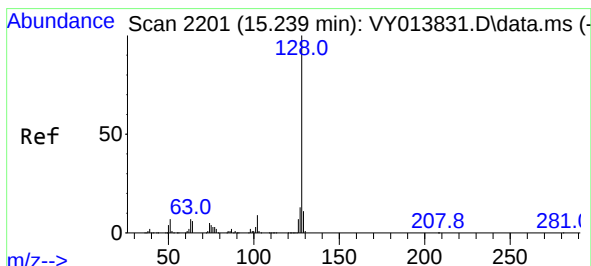
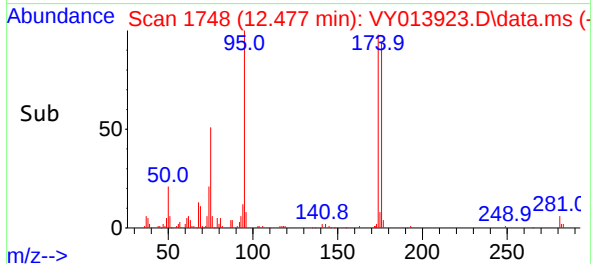
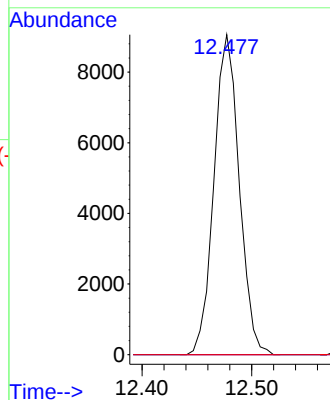
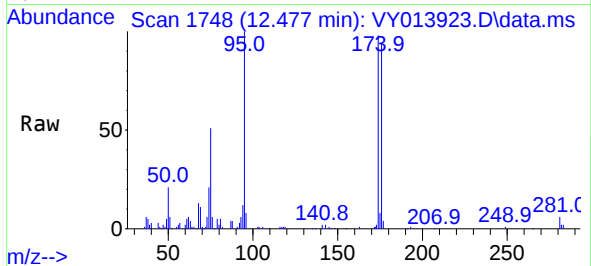




#81  
trans-1,4-Dichloro-2-butene  
Concen: 85.079 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823

Tgt Ion: 75 Resp: 14496  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.7 119.5#  
89 0.0 36.4 54.6#



#95  
Naphthalene  
Concen: 4.708 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY013923.D  
Acq: 30 May 2023 16:42

Tgt Ion:128 Resp: 234  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 9.0 13.4#

