

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053123\  
 Data File : VY013935.D  
 Acq On : 31 May 2023 15:04  
 Operator : KP/MD  
 Sample : VY0531SBL01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0531SBL01

Quant Time: May 31 17:32:12 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

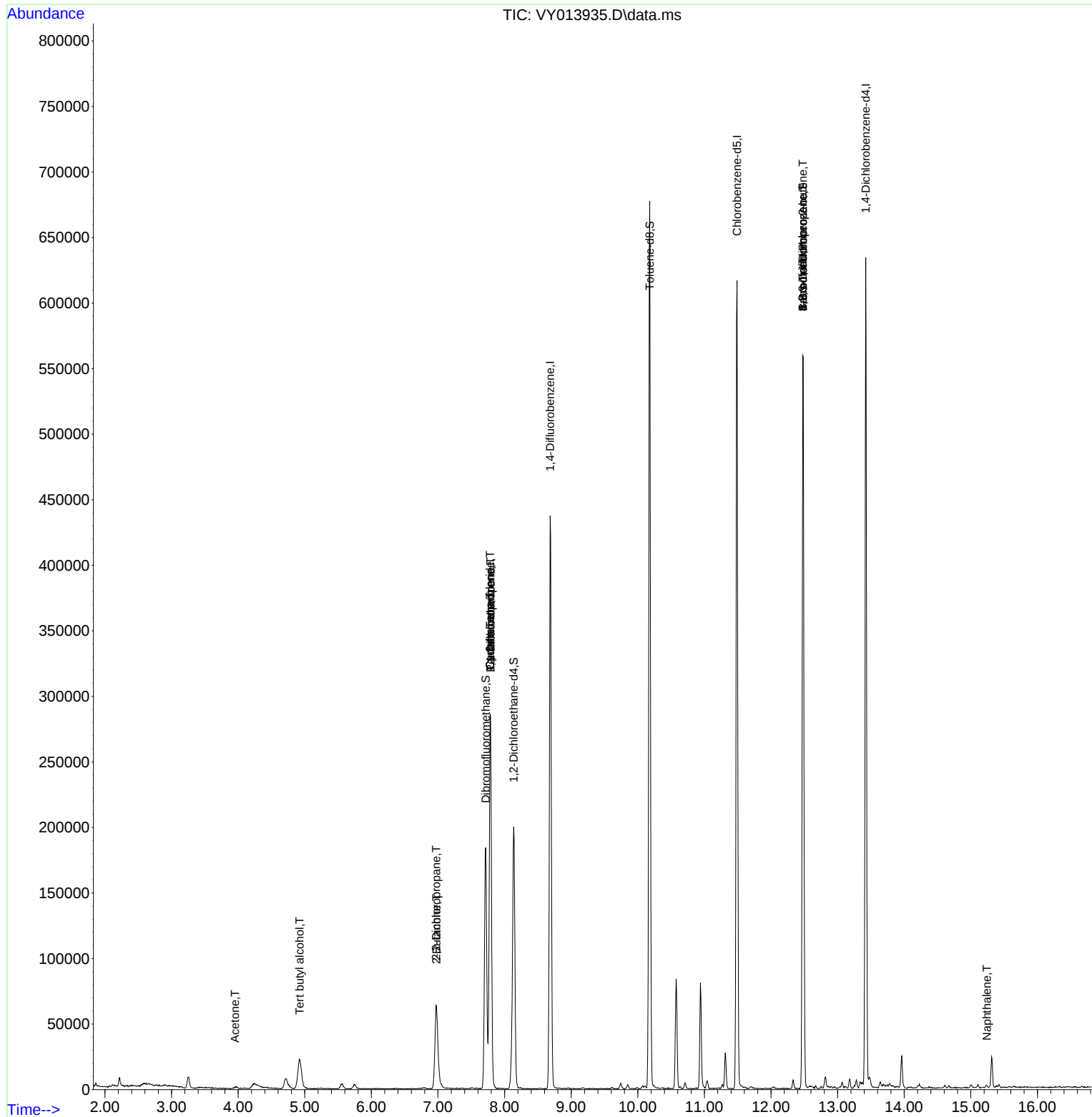
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 225111              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 353271              | 50.000    | ug/l   | -0.01    |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 331304              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 155661              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 157610              | 60.519    | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 121.040% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 126827              | 55.591    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 111.180% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 432420              | 49.869    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 99.740%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 144067              | 49.984    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 99.960%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.923          | 59   | 22401               | 112.281   | ug/l # | 76       |
| 16) Acetone                   | 3.954          | 43   | 2853                | 3.691     | ug/l # | 87       |
| 20) Methylene Chloride        | 4.710          | 84   | 5415                | Below Cal |        | 93       |
| 25) 2-Butanone                | 6.978          | 43   | 4770                | 5.057     | ug/l # | 78       |
| 26) 2,2-Dichloropropane       | 6.972          | 77   | 4737                | 1.161     | ug/l # | 53       |
| 31) Cyclohexane               | 7.783          | 56   | 5471                | 1.367     | ug/l # | 19       |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 17354               | 4.994     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 22130               | 5.600     | ug/l # | 20       |
| 71) Bromoform                 | 12.477         | 173  | 1804                | 1.030     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 80215               | 43.703    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 80215               | 94.866    | ug/l # | 10       |
| 95) Naphthalene               | 15.239         | 128  | 1894                | 4.808     | ug/l # | 93       |
| -----                         |                |      |                     |           |        |          |

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

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01

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Quant Title : SW846 8260  
QLast Update : Wed May 24 05:25:47 2023  
Response via : Initial Calibration

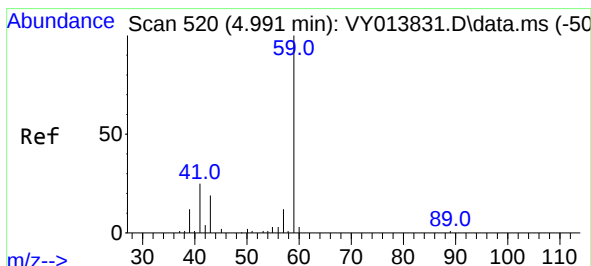
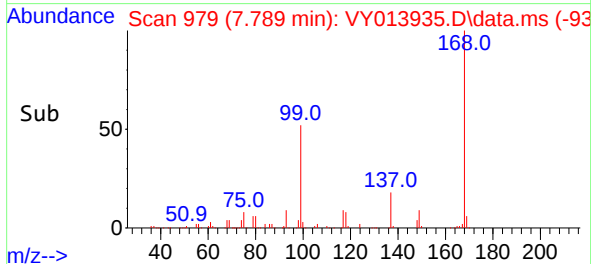
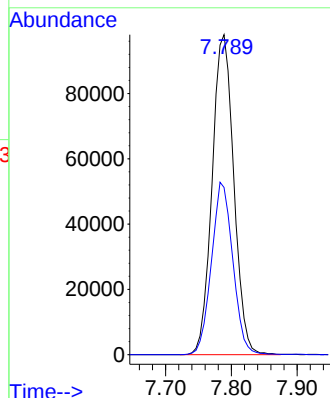
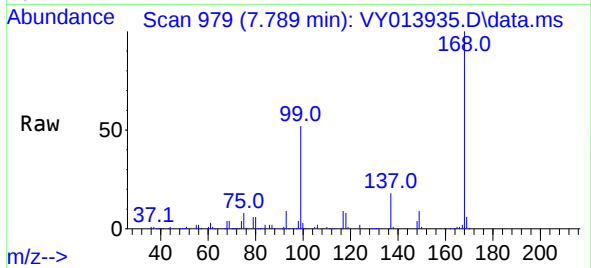




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

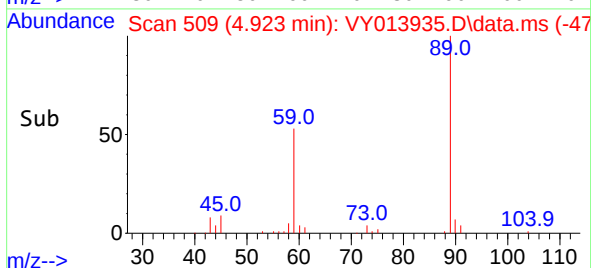
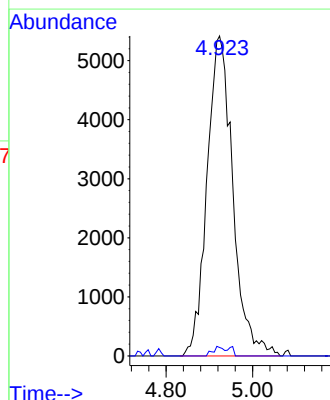
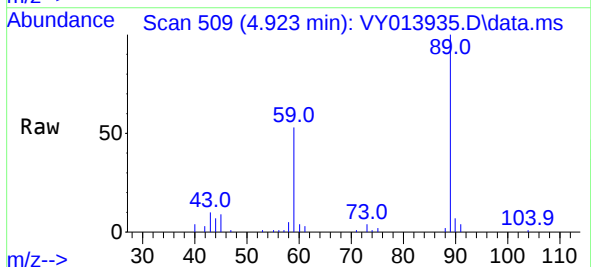
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01

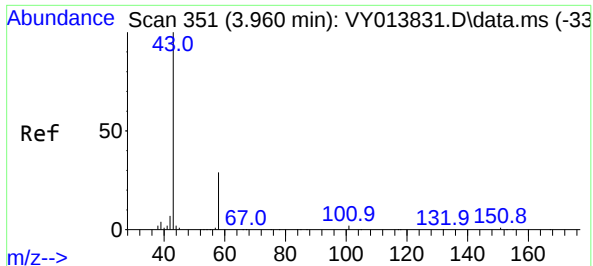
Tgt Ion:168 Resp: 225111  
Ion Ratio Lower Upper  
168 100  
99 52.2 43.4 65.2



#11  
Tert butyl alcohol  
Concen: 112.281 ug/l  
RT: 4.923 min Scan# 509  
Delta R.T. -0.067 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion: 59 Resp: 22401  
Ion Ratio Lower Upper  
59 100  
57 1.2 8.1 12.1#

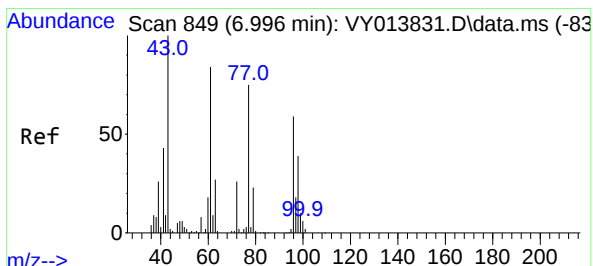
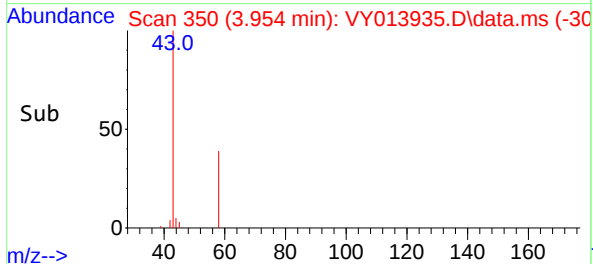
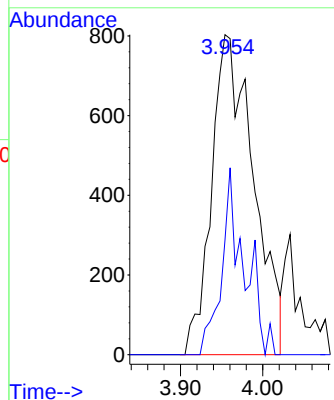
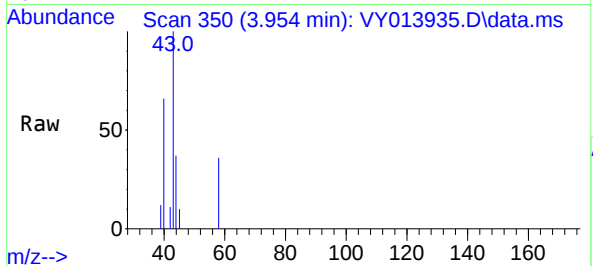




#16  
Acetone  
Concen: 3.691 ug/l  
RT: 3.954 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

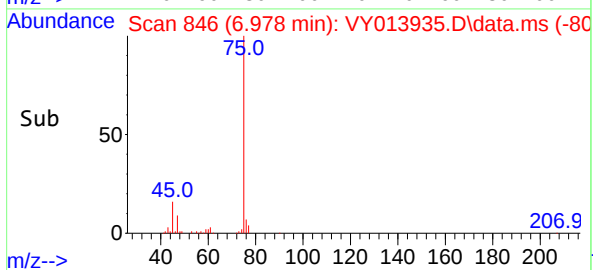
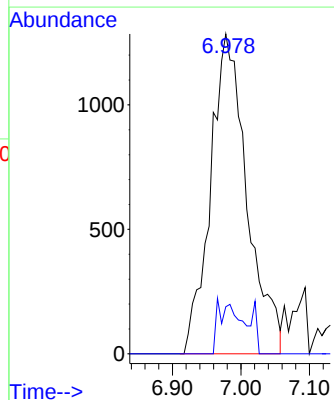
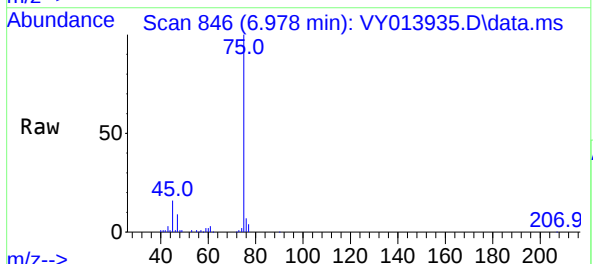
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01

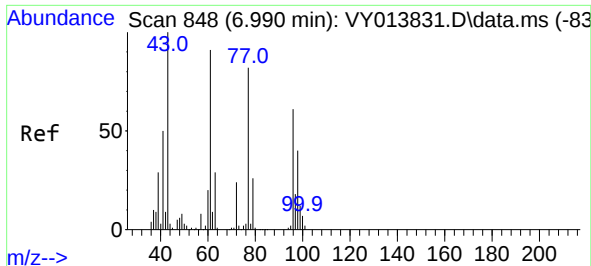
Tgt Ion: 43 Resp: 2853  
Ion Ratio Lower Upper  
43 100  
58 35.9 23.3 34.9#



#25  
2-Butanone  
Concen: 5.057 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.018 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion: 43 Resp: 4770  
Ion Ratio Lower Upper  
43 100  
72 14.7 20.5 30.7#

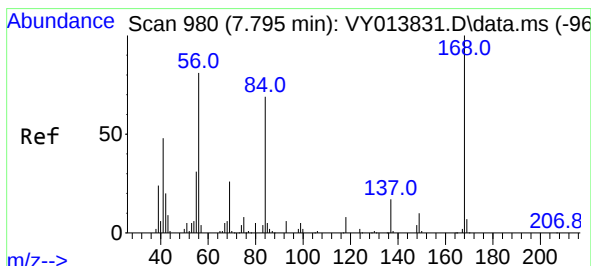
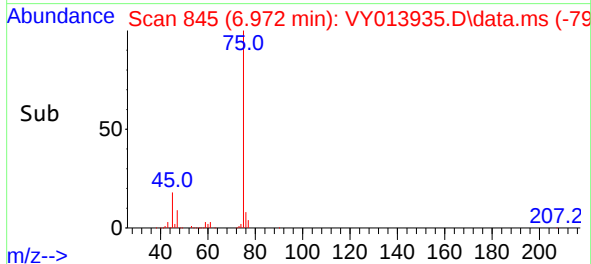
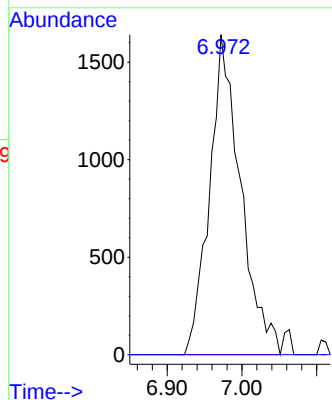
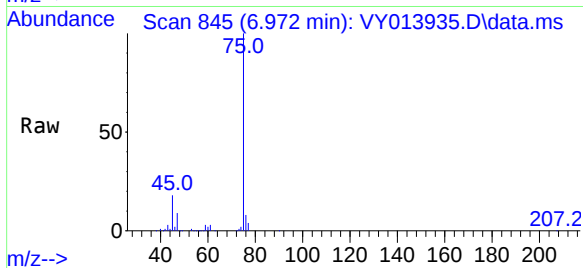




#26  
2,2-Dichloropropane  
Concen: 1.161 ug/l  
RT: 6.972 min Scan# 845  
Delta R.T. -0.018 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

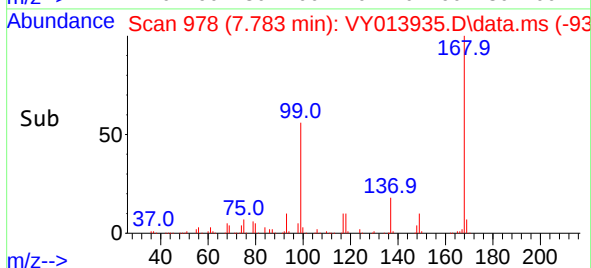
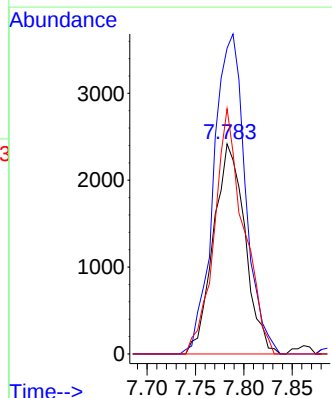
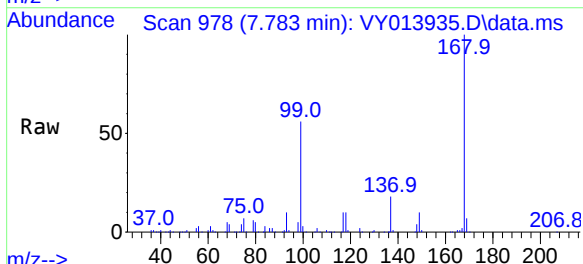
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01

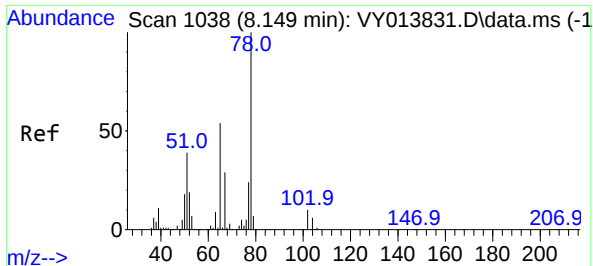
Tgt Ion: 77 Resp: 4737  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.2 33.6#



#31  
Cyclohexane  
Concen: 1.367 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.012 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion: 56 Resp: 5471  
Ion Ratio Lower Upper  
56 100  
69 145.6 25.8 38.8#  
84 116.7 68.2 102.2#





#33

1,2-Dichloroethane-d4

Concen: 60.519 ug/l

RT: 8.136 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY013935.D

Acq: 31 May 2023 15:04

Instrument :

MSVOA\_Y

ClientSampleId :

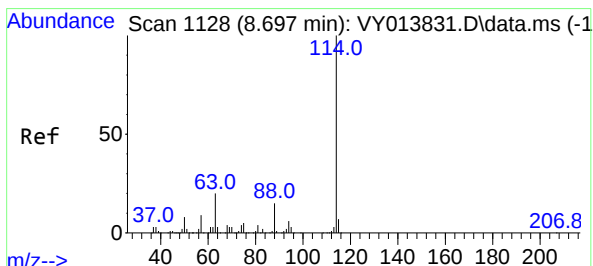
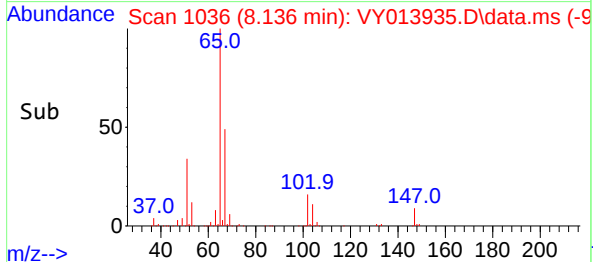
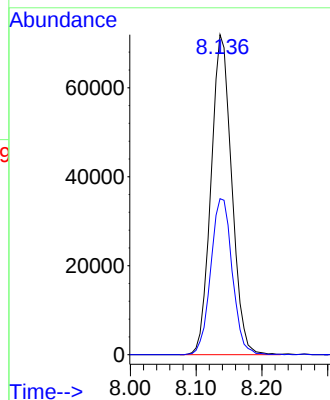
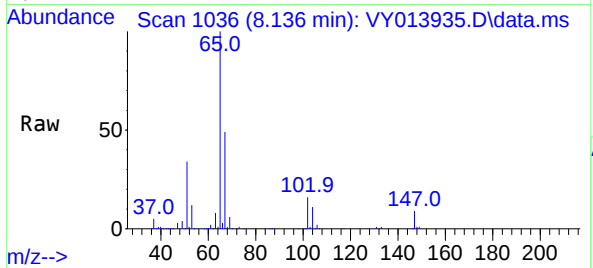
VY0531SBL01

Tgt Ion: 65 Resp: 157610

Ion Ratio Lower Upper

65 100

67 50.7 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: VY013935.D

Acq: 31 May 2023 15:04

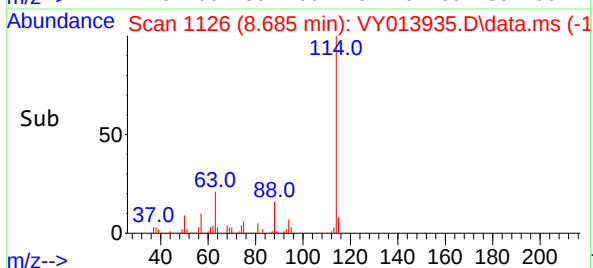
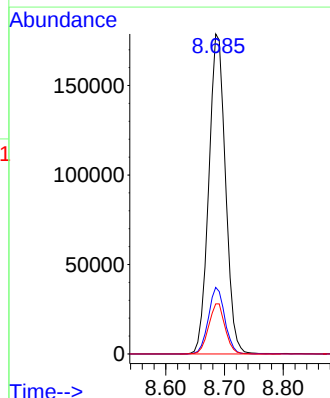
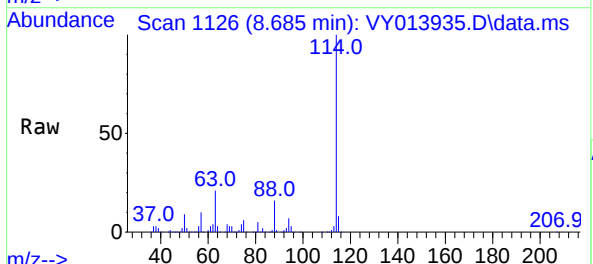
Tgt Ion: 114 Resp: 353271

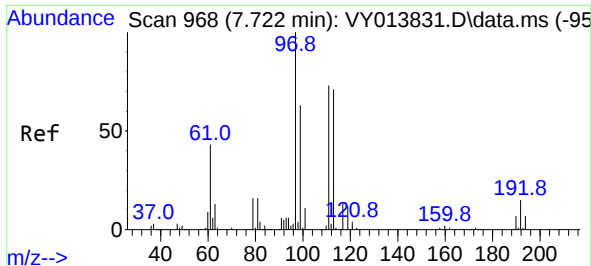
Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.2

88 15.7 0.0 30.0

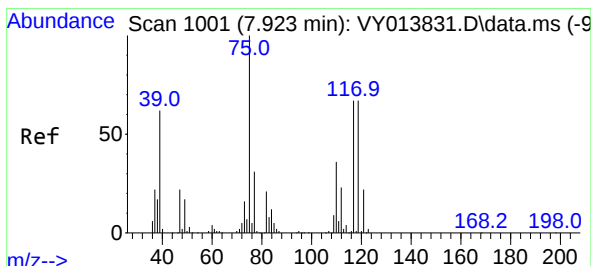
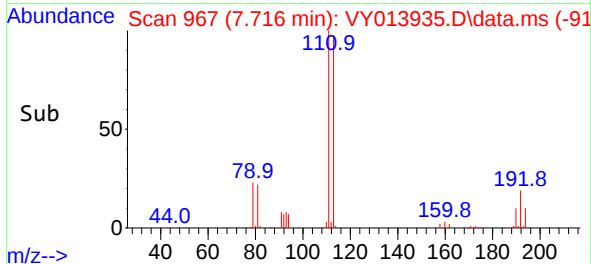
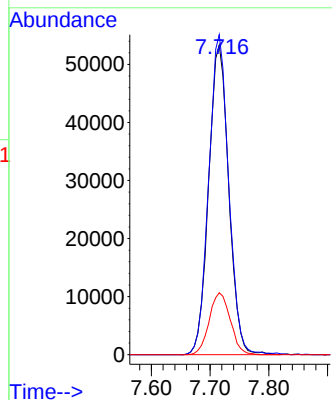
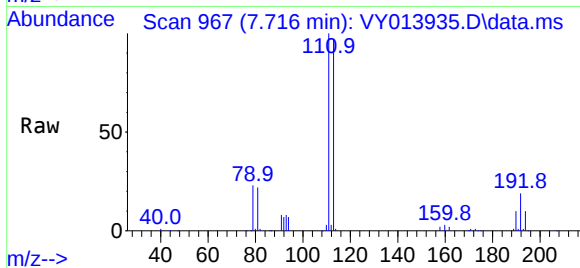




#35  
Dibromofluoromethane  
Concen: 55.591 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

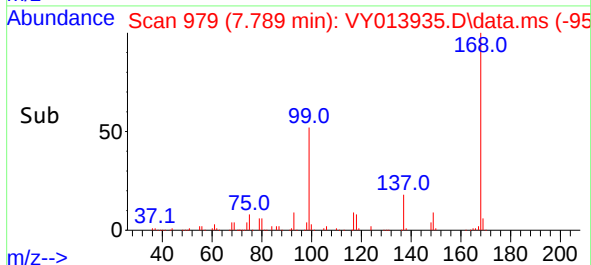
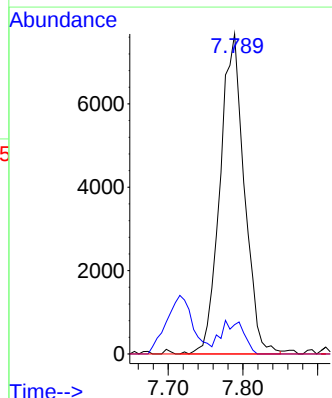
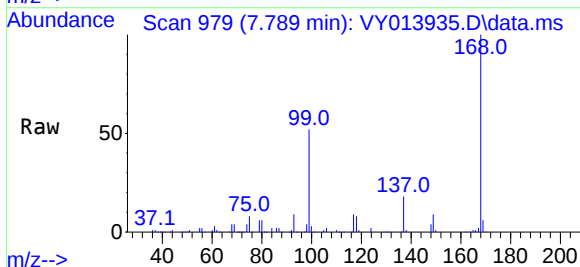
Instrument :  
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ClientSampleId :  
VY0531SBL01

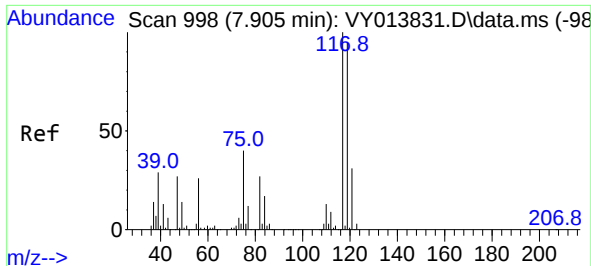
Tgt Ion:113 Resp: 126827  
Ion Ratio Lower Upper  
113 100  
111 102.6 80.4 120.6  
192 21.0 16.6 25.0



#36  
1,1-Dichloropropene  
Concen: 4.994 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.134 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion: 75 Resp: 17354  
Ion Ratio Lower Upper  
75 100  
110 9.7 17.5 52.6#  
77 0.0 24.4 36.6#

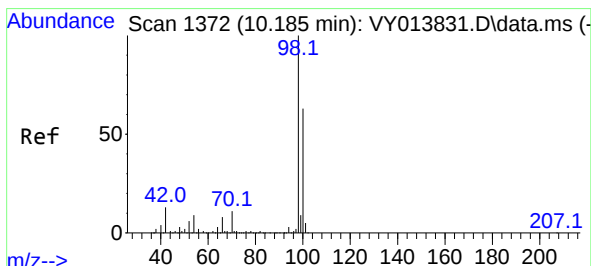
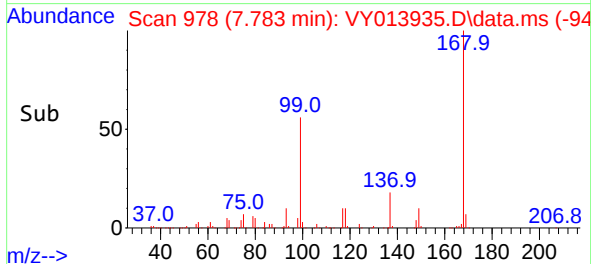
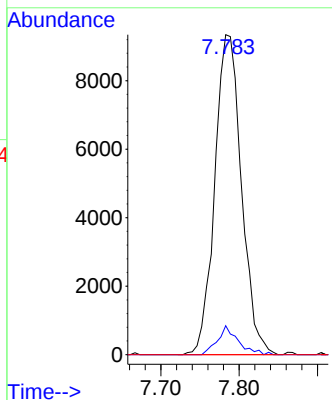
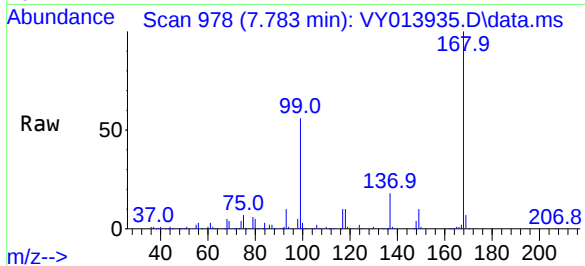




#38  
Carbon Tetrachloride  
Concen: 5.600 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

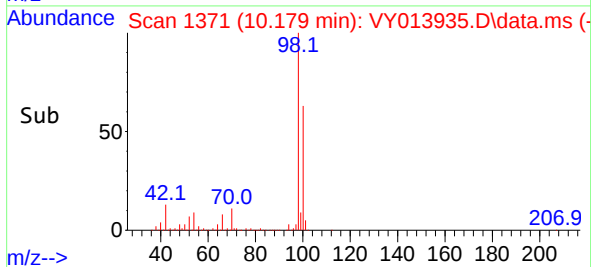
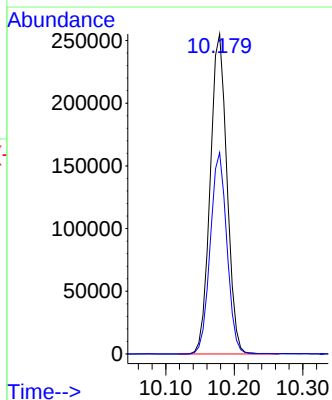
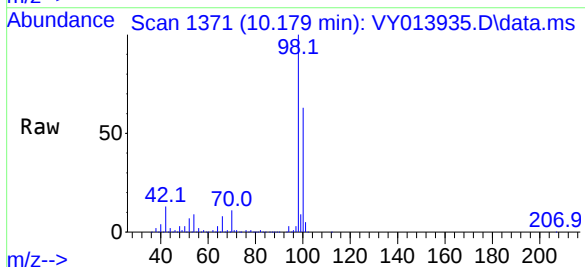
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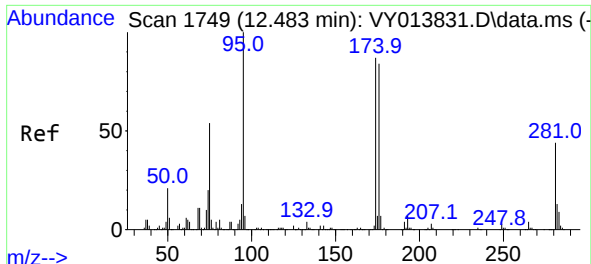
Tgt Ion:117 Resp: 22130  
Ion Ratio Lower Upper  
117 100  
119 9.1 75.6 113.4#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 49.869 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.006 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion: 98 Resp: 432420  
Ion Ratio Lower Upper  
98 100  
100 62.4 50.8 76.2

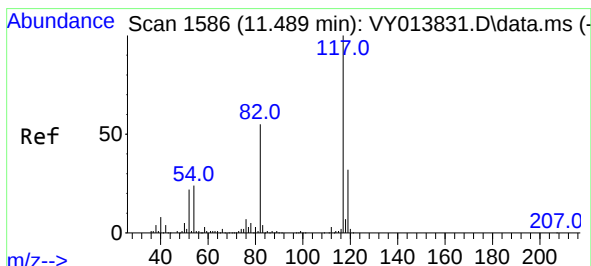
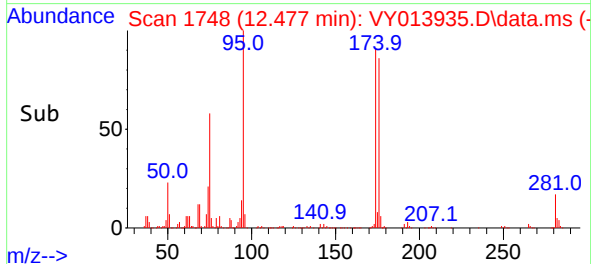
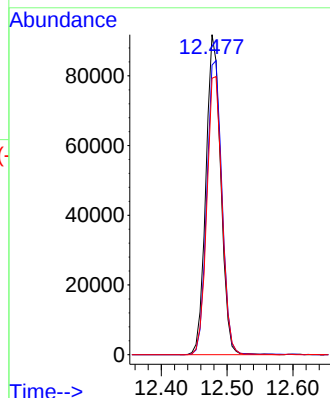
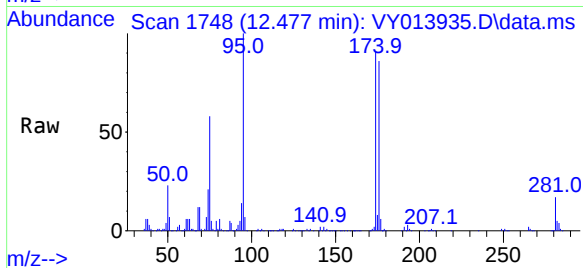




#62  
4-Bromofluorobenzene  
Concen: 49.984 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

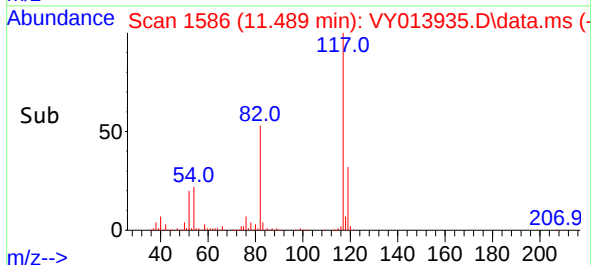
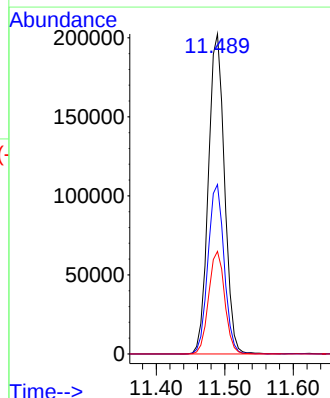
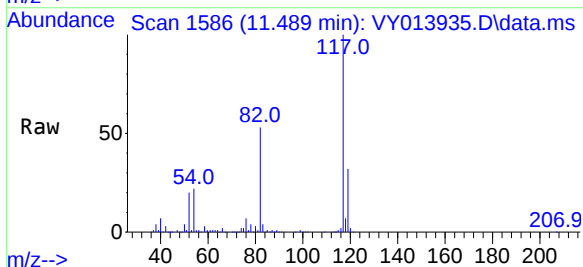
Instrument :  
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ClientSampleId :  
VY0531SBL01

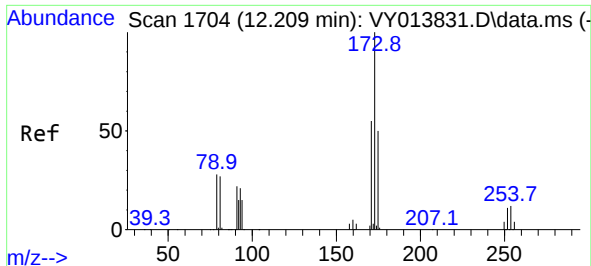
Tgt Ion: 95 Resp: 144067  
Ion Ratio Lower Upper  
95 100  
174 93.6 0.0 176.0  
176 89.0 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion: 117 Resp: 331304  
Ion Ratio Lower Upper  
117 100  
82 52.9 44.2 66.4  
119 32.1 25.7 38.5

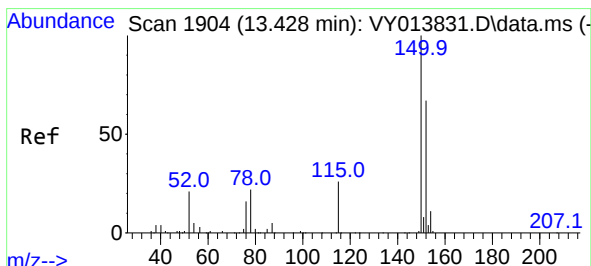
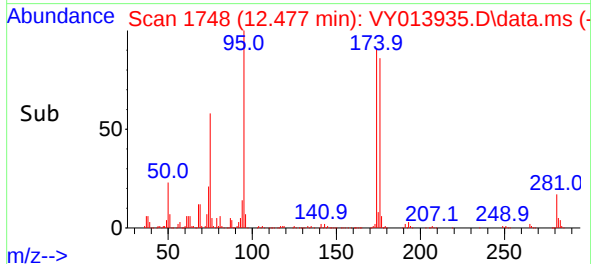
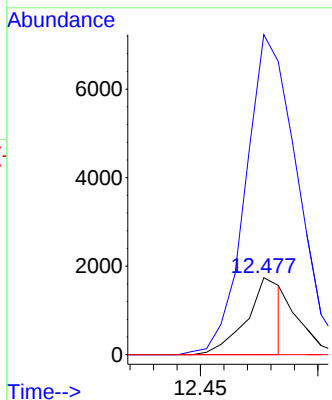
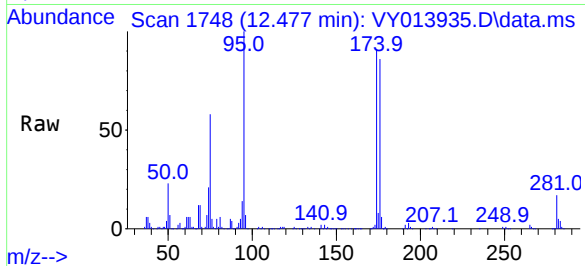




#71  
Bromoform  
Concen: 1.030 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.268 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

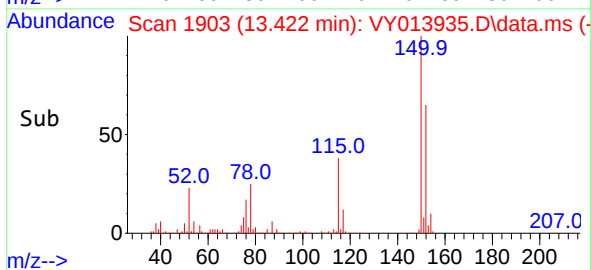
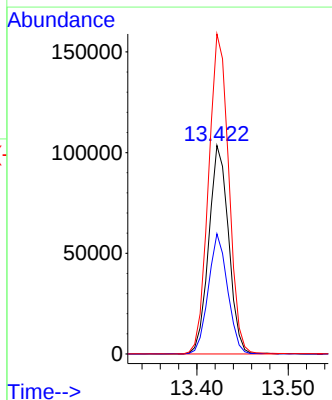
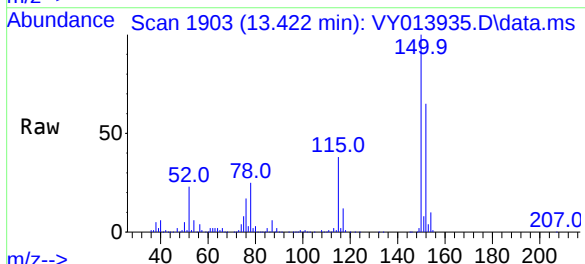
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01

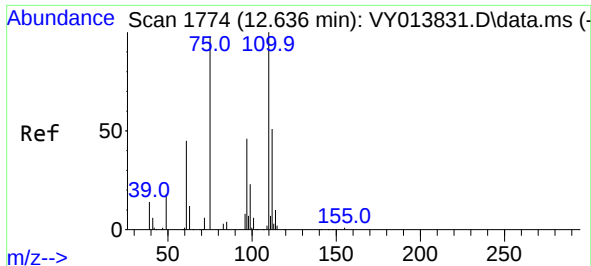
Tgt Ion:173 Resp: 1804  
Ion Ratio Lower Upper  
173 100  
175 431.3 25.1 75.4#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Tgt Ion:152 Resp: 155661  
Ion Ratio Lower Upper  
152 100  
115 56.3 28.8 86.5  
150 156.6 0.0 353.4

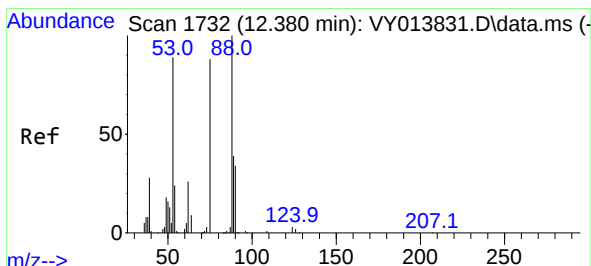
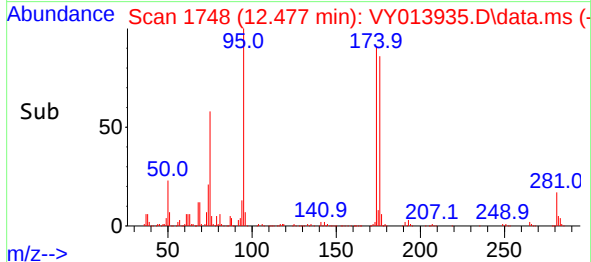
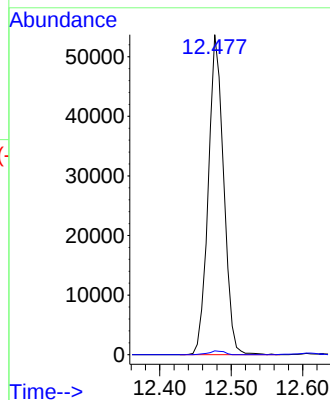
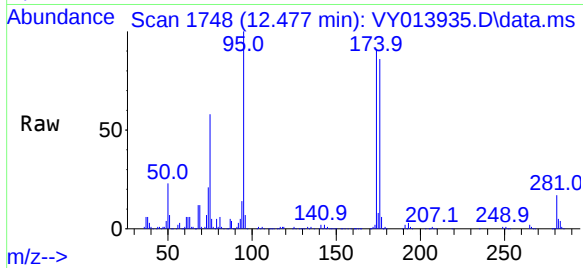




#76  
1,2,3-Trichloropropane  
Concen: 43.703 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.159 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

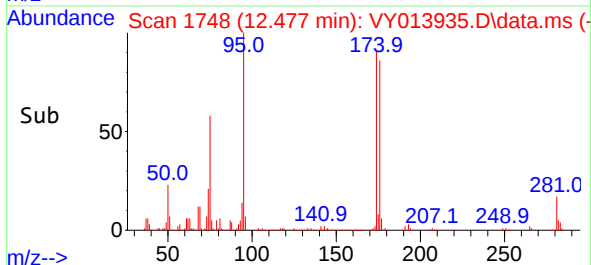
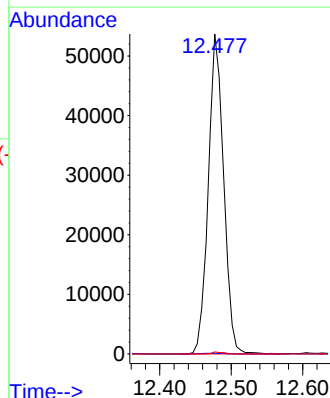
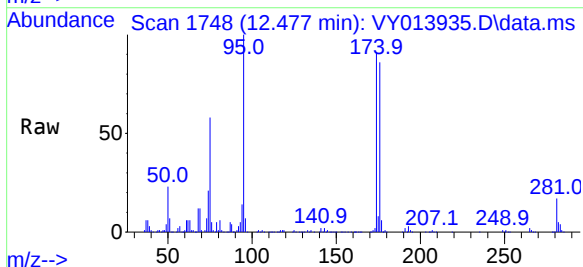
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01

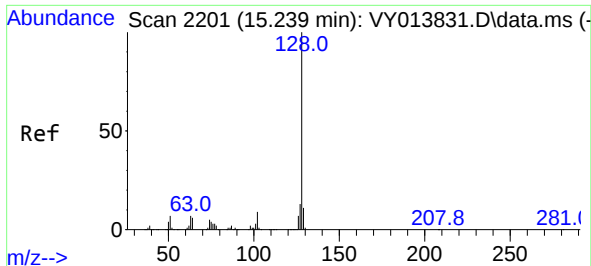
Tgt Ion: 75 Resp: 80215  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.866 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

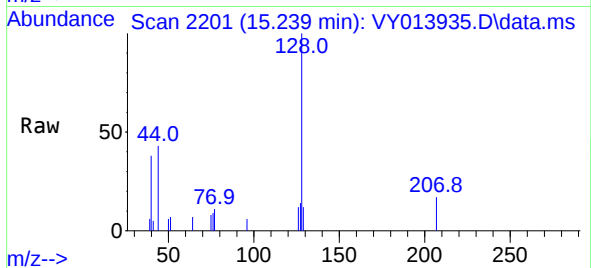
Tgt Ion: 75 Resp: 80215  
Ion Ratio Lower Upper  
75 100  
53 0.4 79.7 119.5#  
89 0.4 36.4 54.6#





#95  
Naphthalene  
Concen: 4.808 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY013935.D  
Acq: 31 May 2023 15:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0531SBL01



Tgt Ion:128 Resp: 1894  
Ion Ratio Lower Upper  
128 100  
127 9.3 10.7 16.1#  
129 10.1 9.0 13.4

