

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051822\  
 Data File : VY008836.D  
 Acq On : 19 May 2022 00:38  
 Operator : KP/MD  
 Sample : N2869-09  
 Misc : 5.58g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 P029-SS001-1824-01

Quant Time: May 19 03:16:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 18 07:32:50 2022  
 Response via : Initial Calibration

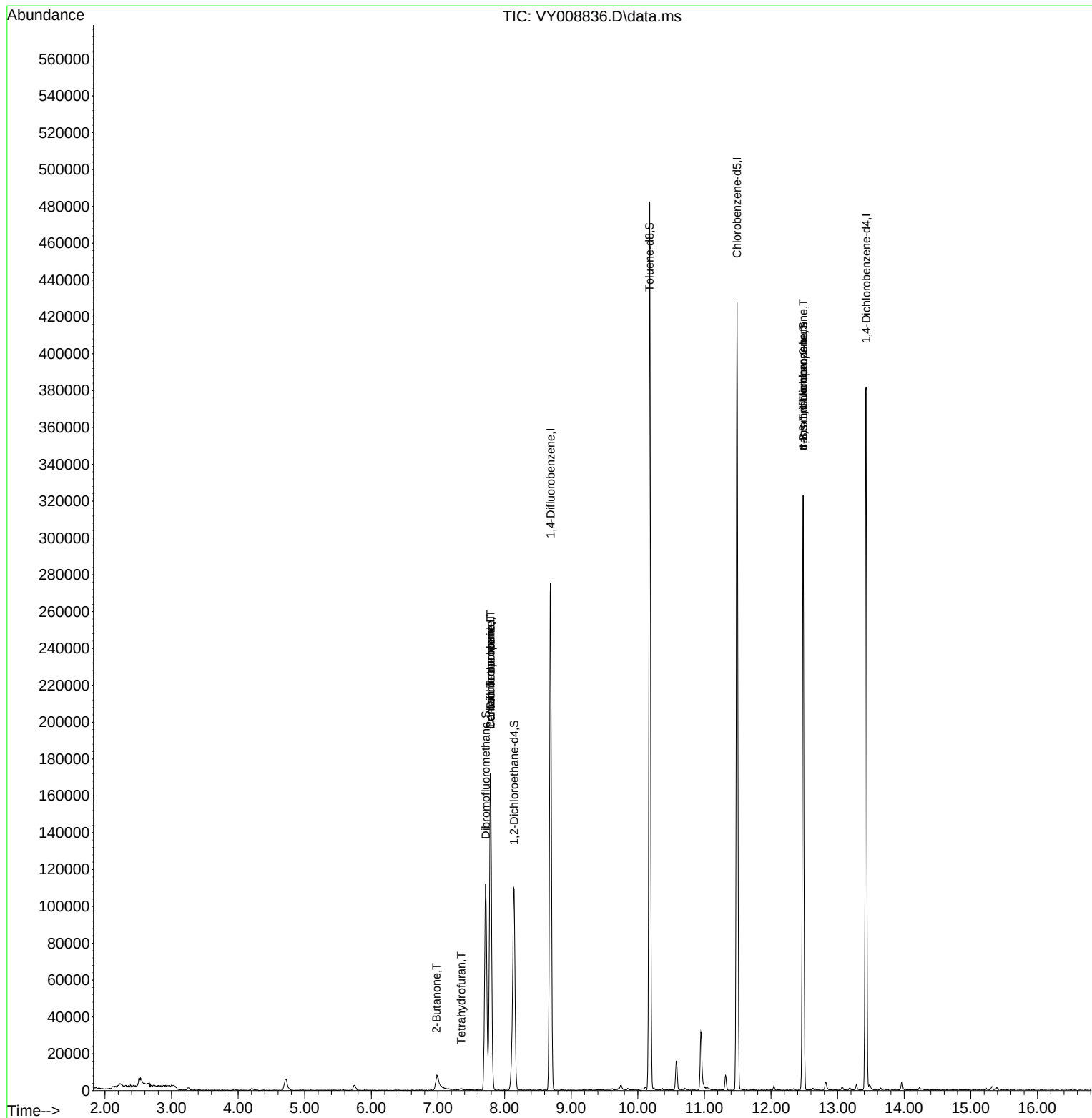
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 129947   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 231727   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 220084   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 94406    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 78498    | 65.115    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 130.240% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 74913    | 55.330    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 110.660% |          |
| 50) Toluene-d8                | 10.179 | 98    | 289335   | 48.199    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 96.400%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 83926    | 39.839    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 79.680%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.900  | 85    | 55       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.107  | 50    | 167      | Below Cal | #          | 44       |
| 4) Vinyl Chloride             | 2.247  | 62    | 56       | Below Cal | #          | 43       |
| 5) Bromomethane               | 2.644  | 94    | 120      | Below Cal | #          | 35       |
| 6) Chloroethane               | 2.692  | 64    | 26       | Below Cal | #          | 43       |
| 7) Trichlorofluoromethane     | 3.125  | 101   | 62       | Below Cal | #          | 21       |
| 16) Acetone                   | 3.942  | 43    | 929      | Below Cal | #          | 77       |
| 18) Methyl Acetate            | 4.210  | 43    | 431      | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.710  | 84    | 4480     | Below Cal | #          | 90       |
| 25) 2-Butanone                | 6.978  | 43    | 595      | 1.176     | ug/l #     | 54       |
| 29) Tetrahydrofuran           | 7.350  | 42    | 627      | 1.860     | ug/l #     | 55       |
| 31) Cyclohexane               | 7.795  | 56    | 3098     | Below Cal | #          | 26       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 10946    | 5.048     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 12881    | 5.543     | ug/l #     | 16       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 48258    | 44.252    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 48258    | 96.792    | ug/l #     | 7        |

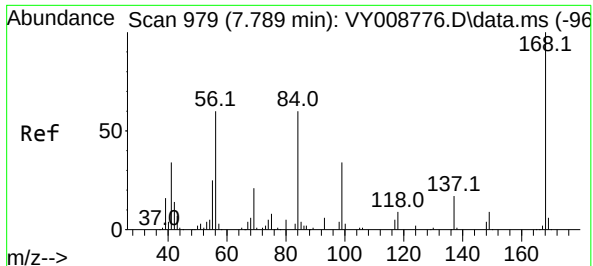
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
P029-SS001-1824-01

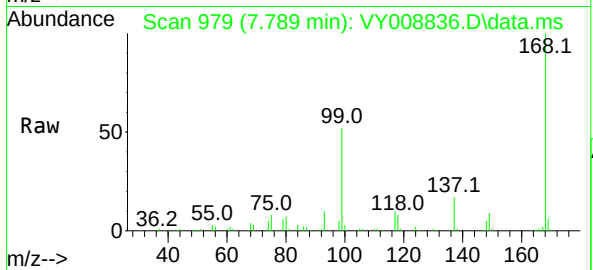
Quant Time: May 19 03:16:18 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051722S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 18 07:32:50 2022  
Response via : Initial Calibration



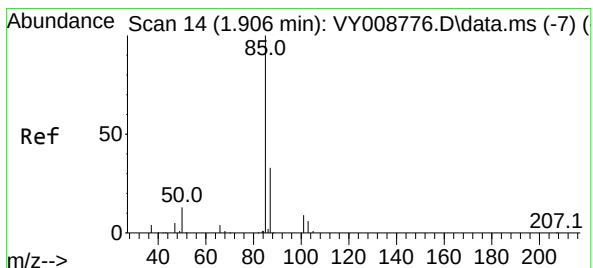
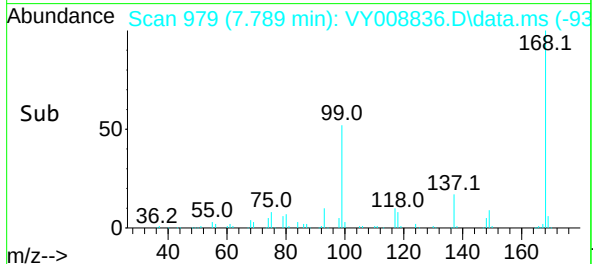
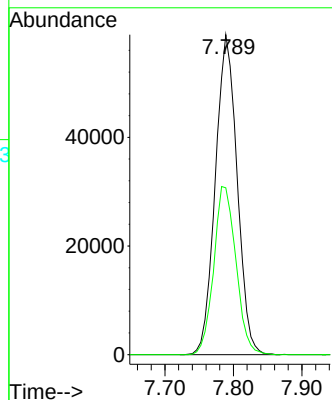


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

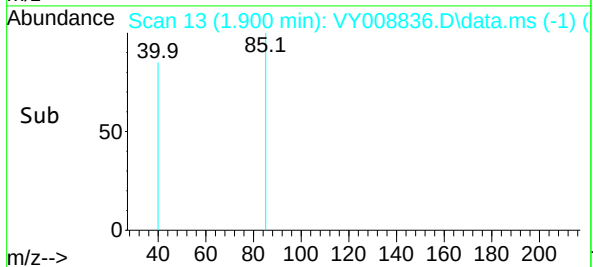
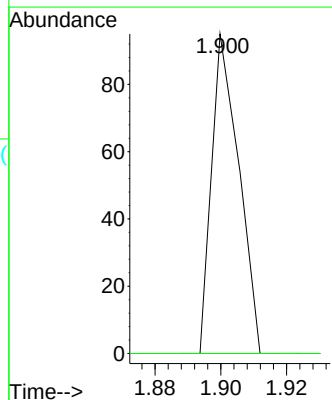
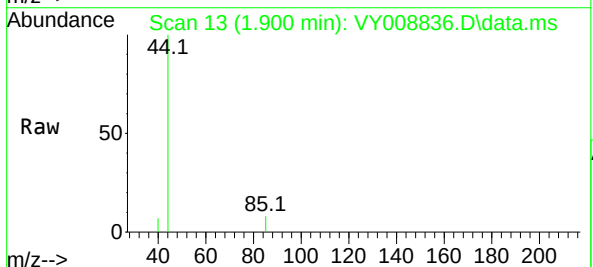


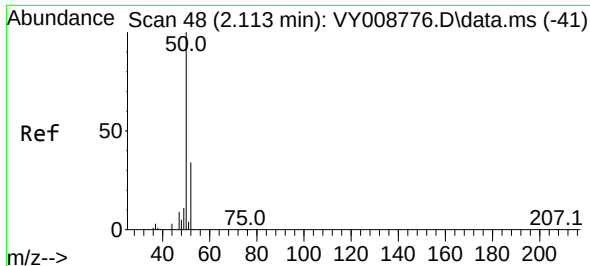
Tgt Ion:168 Resp: 129947  
Ion Ratio Lower Upper  
168 100  
99 52.2 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.006 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 85 Resp: 55  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#

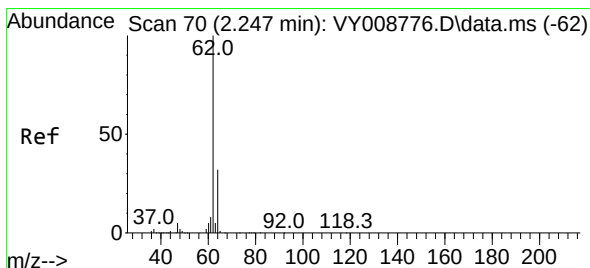
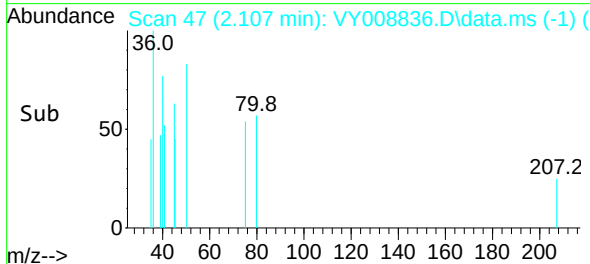
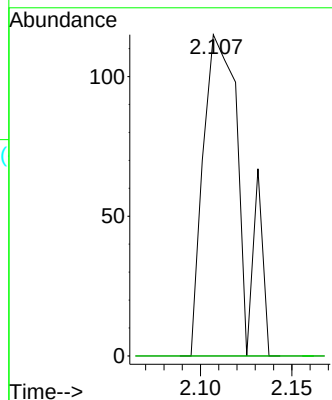
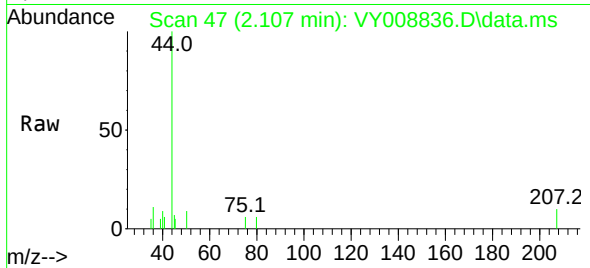




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.107 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

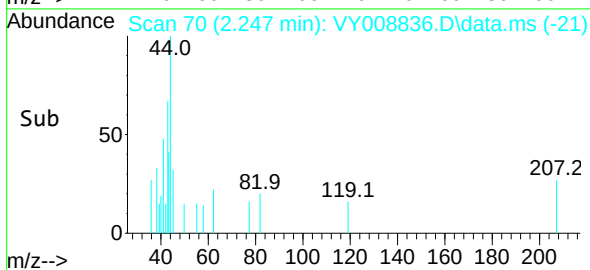
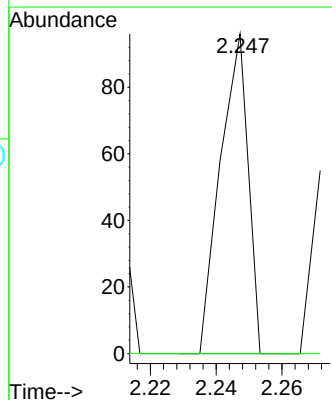
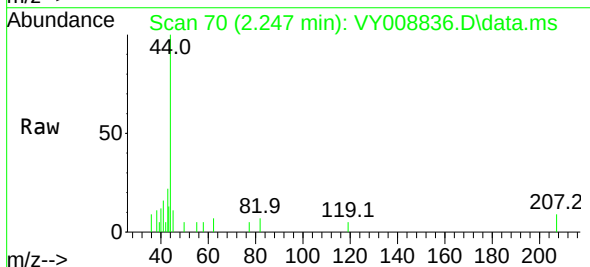
Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

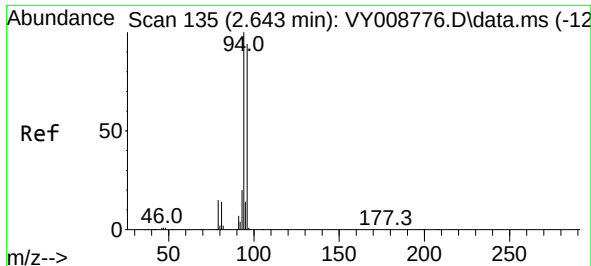
Tgt Ion: 50 Resp: 167  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.6 37.0#



#4  
Vinyl Chloride  
Concen: Below Cal  
RT: 2.247 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 62 Resp: 56  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.0 37.6#

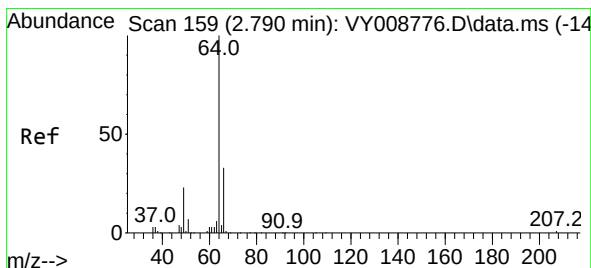
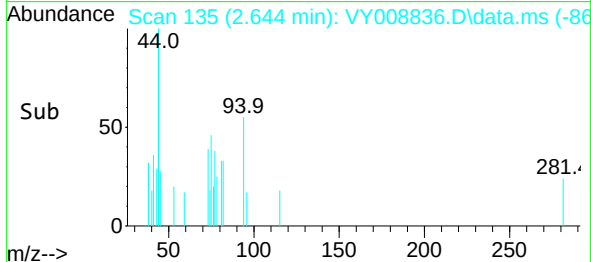
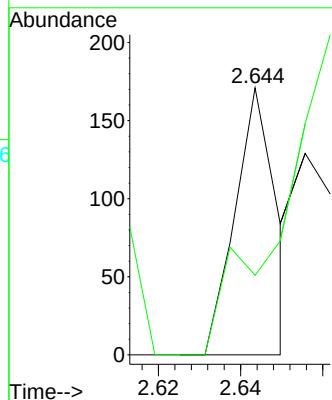
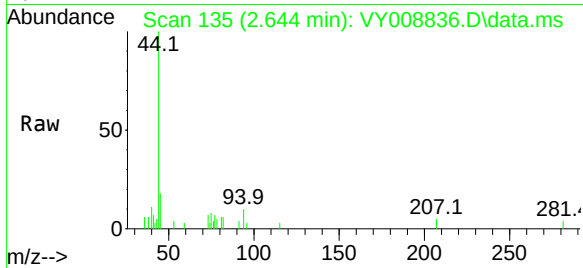




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.644 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

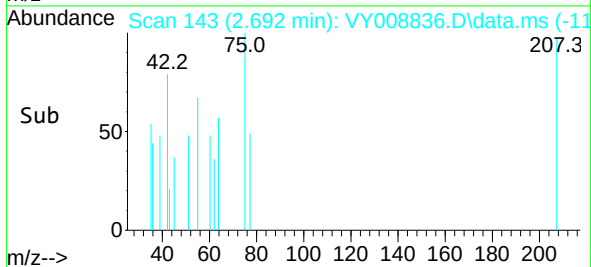
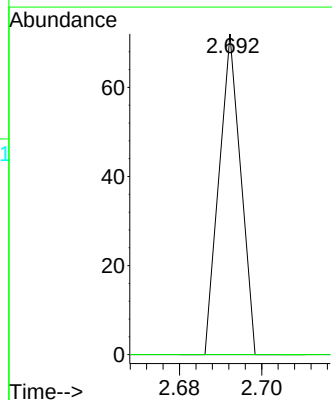
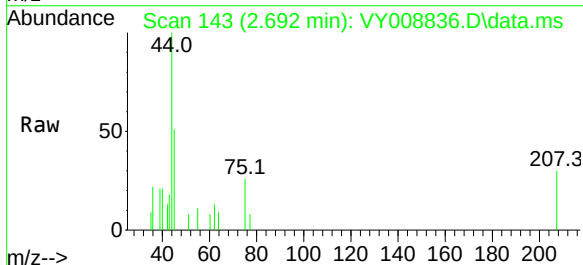
Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

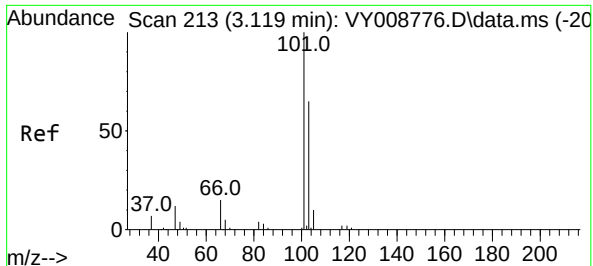
Tgt Ion: 94 Resp: 120  
Ion Ratio Lower Upper  
94 100  
96 29.8 73.5 110.3#



#6  
Chloroethane  
Concen: Below Cal  
RT: 2.692 min Scan# 143  
Delta R.T. -0.098 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 64 Resp: 26  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#

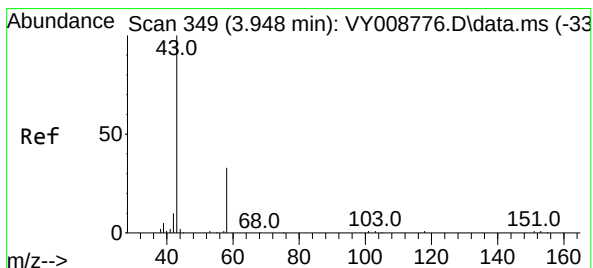
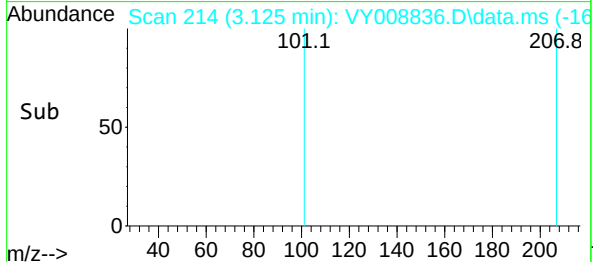
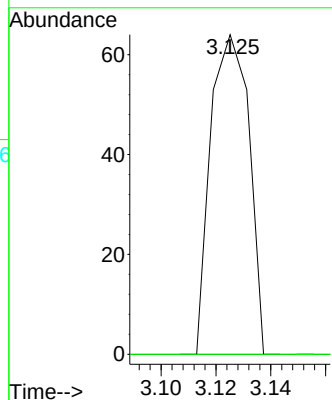
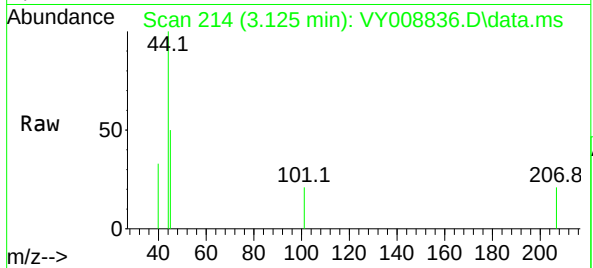




#7  
Trichlorofluoromethane  
Concen: Below Cal  
RT: 3.125 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

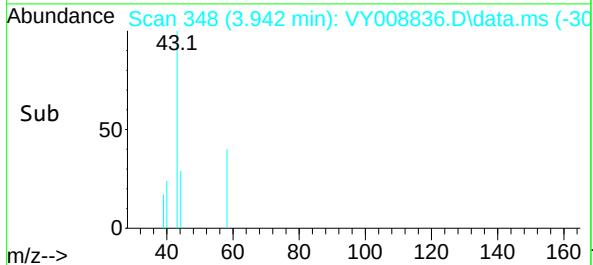
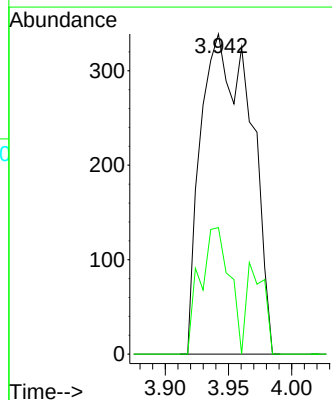
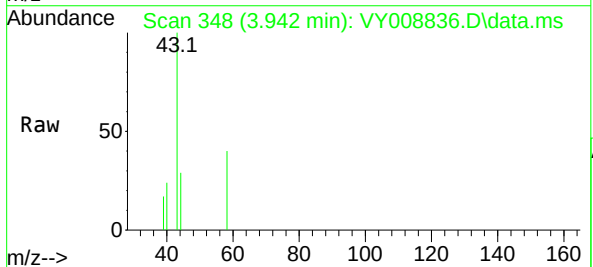
Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

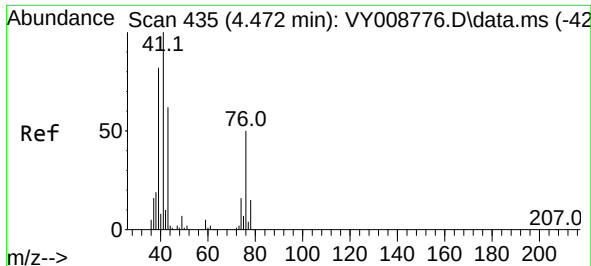
Tgt Ion:101 Resp: 62  
Ion Ratio Lower Upper  
101 100  
103 0.0 48.0 72.0#



#16  
Acetone  
Concen: Below Cal  
RT: 3.942 min Scan# 348  
Delta R.T. -0.006 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 43 Resp: 929  
Ion Ratio Lower Upper  
43 100  
58 39.5 22.0 33.0#

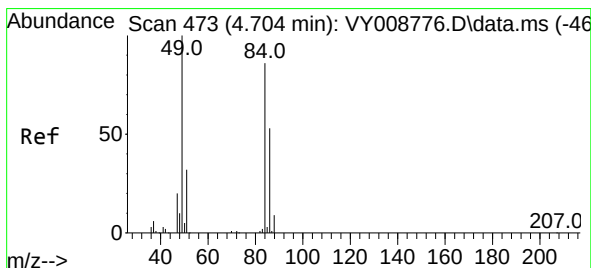
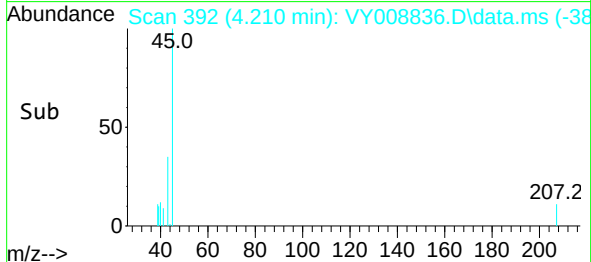
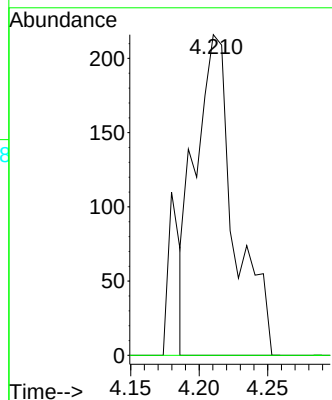
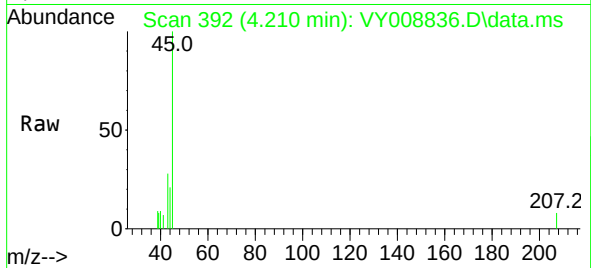




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.210 min Scan# 392  
Delta R.T. -0.262 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

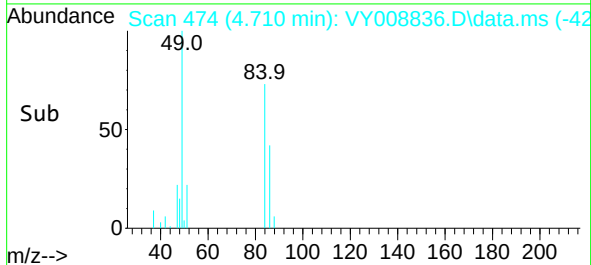
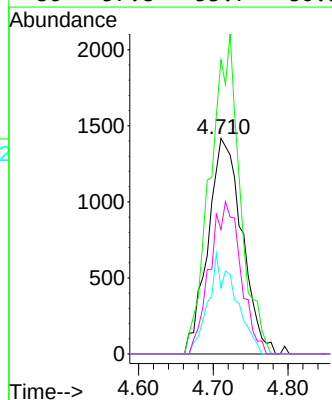
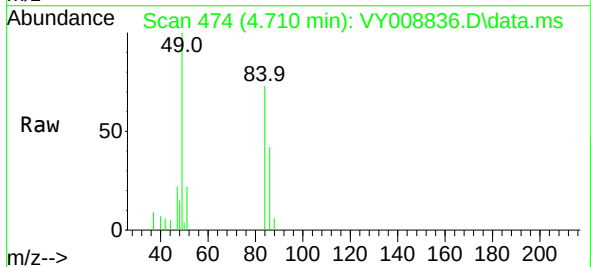
Instrument :  
MSVOA\_Y  
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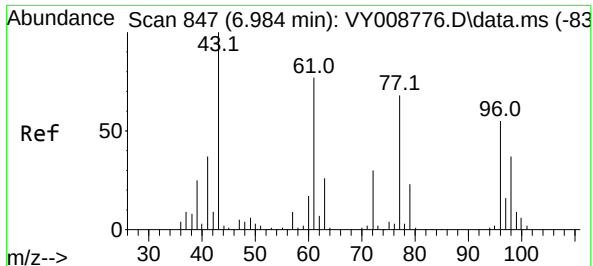
Tgt Ion: 43 Resp: 431  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.710 min Scan# 474  
Delta R.T. 0.006 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 84 Resp: 4480  
Ion Ratio Lower Upper  
84 100  
49 136.5 114.4 171.6  
51 30.6 35.3 52.9#  
86 57.8 53.7 80.5





#25

2-Butanone

Concen: 1.176 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY008836.D

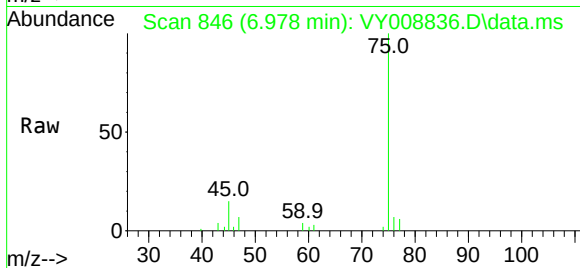
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Instrument :

MSVOA\_Y

ClientSampleId :

P029-SS001-1824-01

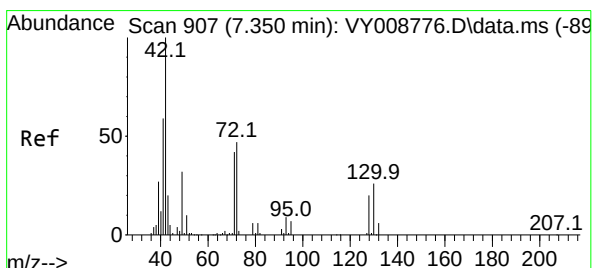
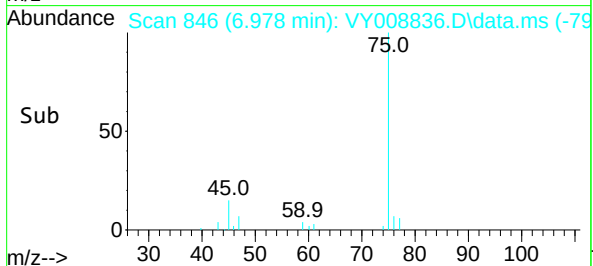
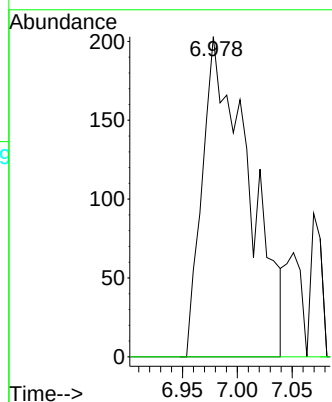


Tgt Ion: 43 Resp: 595

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#29

Tetrahydrofuran

Concen: 1.860 ug/l

RT: 7.350 min Scan# 907

Delta R.T. 0.000 min

Lab File: VY008836.D

Acq: 19 May 2022 00:38

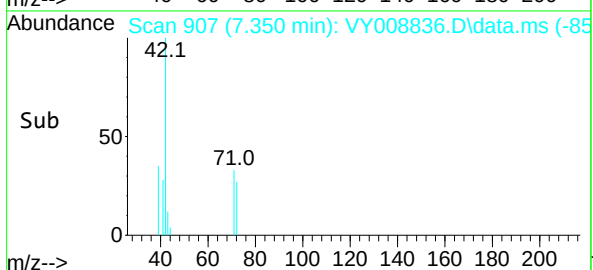
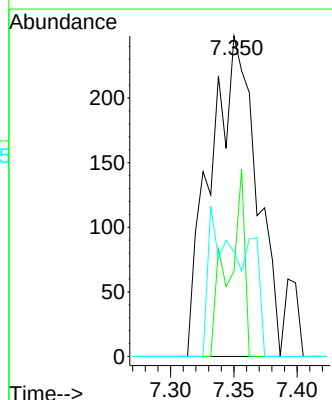
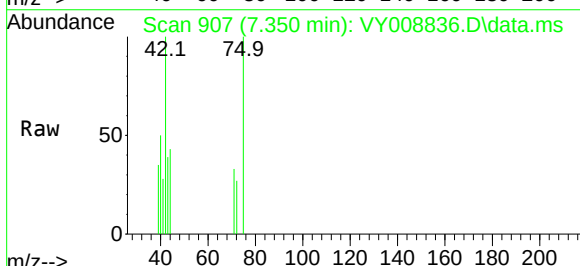
Tgt Ion: 42 Resp: 627

Ion Ratio Lower Upper

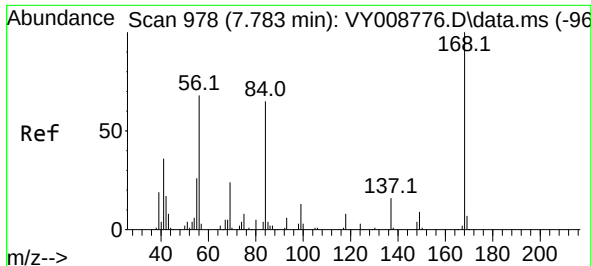
42 100

72 20.3 30.3 45.5#

71 0.0 29.0 43.4#



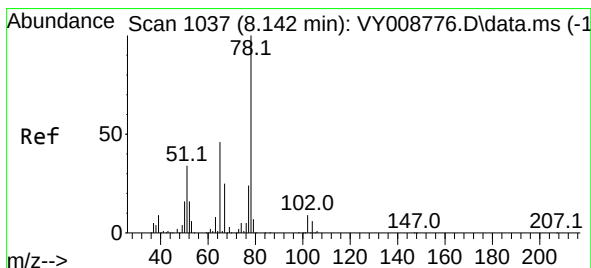
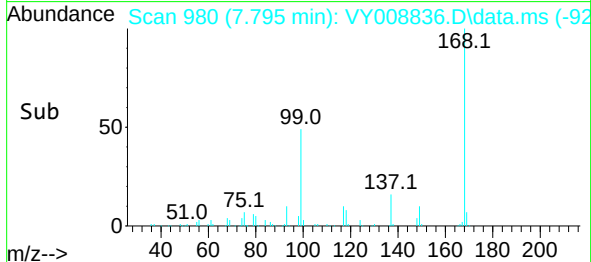
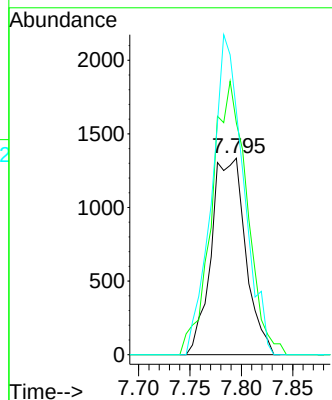
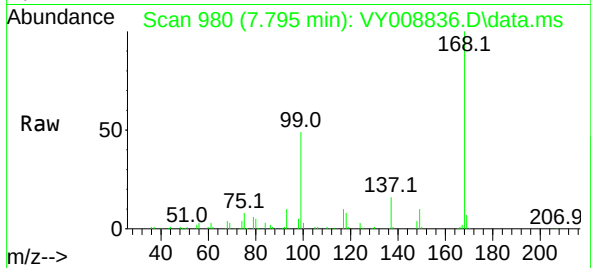




#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.795 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

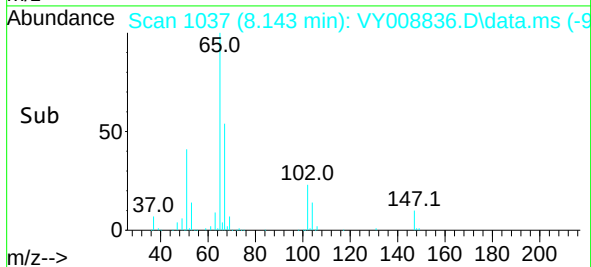
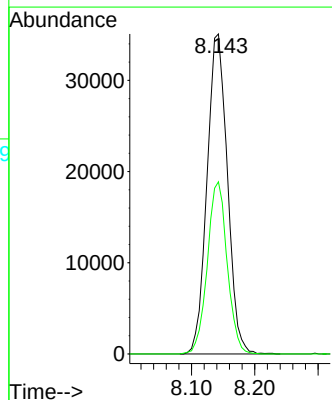
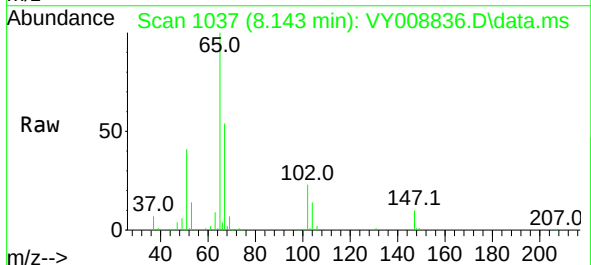
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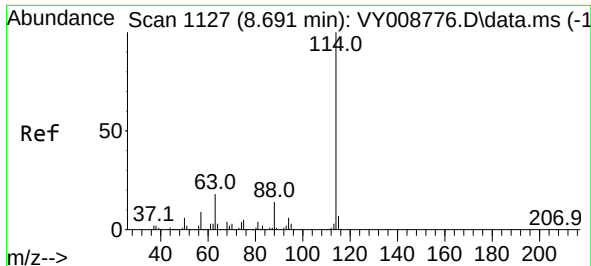
Tgt Ion: 56 Resp: 3098  
Ion Ratio Lower Upper  
56 100  
69 117.9 26.7 40.1#  
84 123.9 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 65.115 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.000 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 65 Resp: 78498  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY008836.D

Acq: 19 May 2022 00:38

Instrument :

MSVOA\_Y

ClientSampleId :

P029-SS001-1824-01

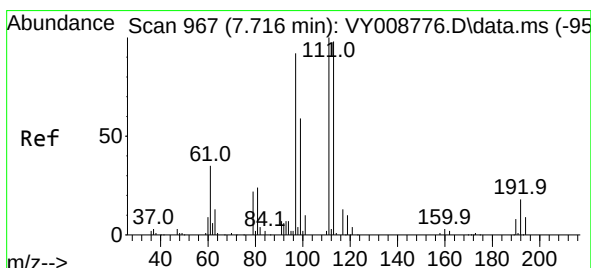
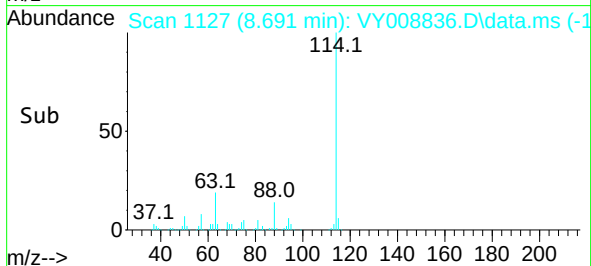
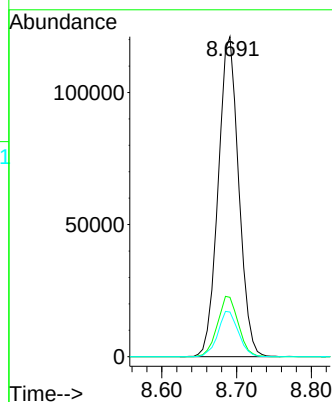
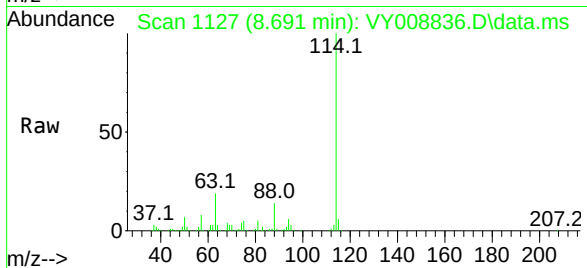
Tgt Ion:114 Resp: 231727

Ion Ratio Lower Upper

114 100

63 18.6 0.0 43.2

88 13.9 0.0 31.8



#35

Dibromofluoromethane

Concen: 55.330 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY008836.D

Acq: 19 May 2022 00:38

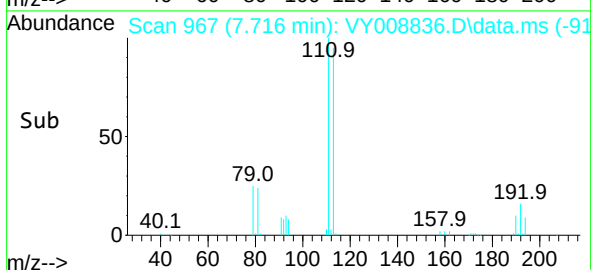
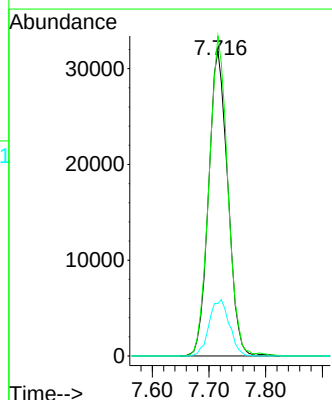
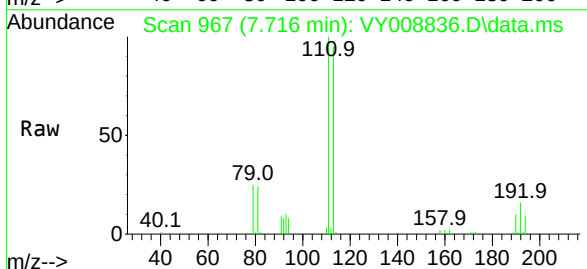
Tgt Ion:113 Resp: 74913

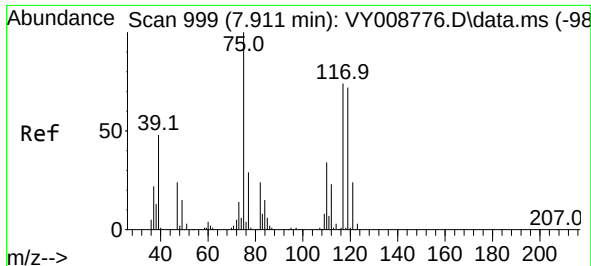
Ion Ratio Lower Upper

113 100

111 102.8 82.6 124.0

192 19.5 17.6 26.4

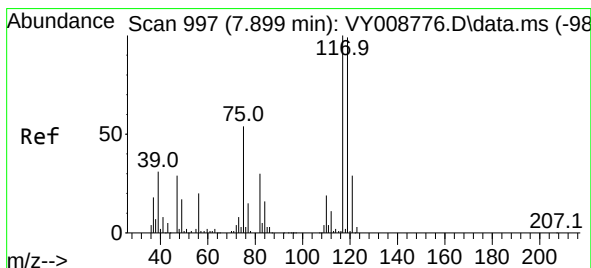
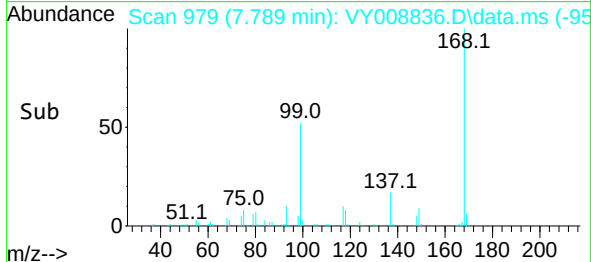
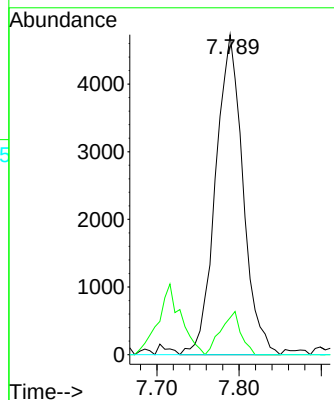
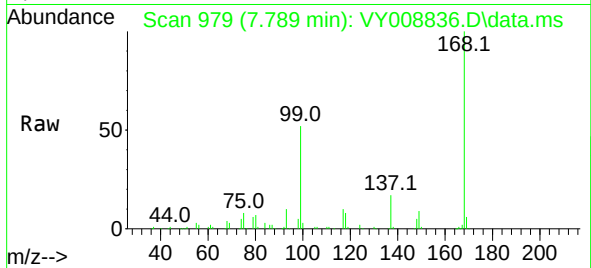




#36  
1,1-Dichloropropene  
Concen: 5.048 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

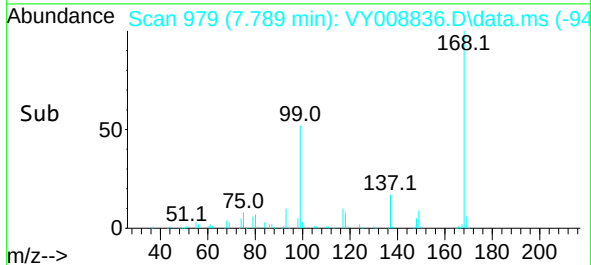
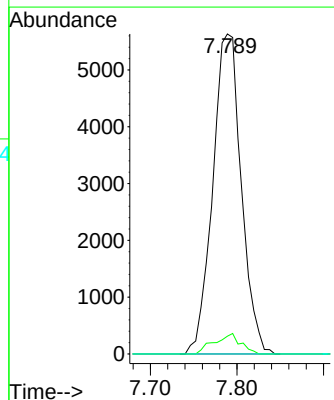
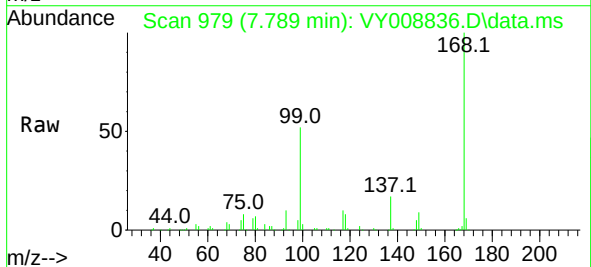
Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

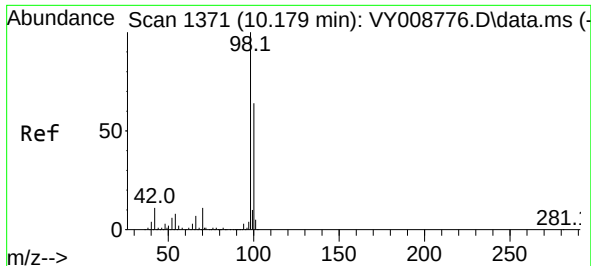
Tgt Ion: 75 Resp: 10946  
Ion Ratio Lower Upper  
75 100  
110 9.9 17.1 51.2#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.543 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.110 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 117 Resp: 12881  
Ion Ratio Lower Upper  
117 100  
119 5.6 77.9 116.9#  
121 0.0 24.8 37.2#

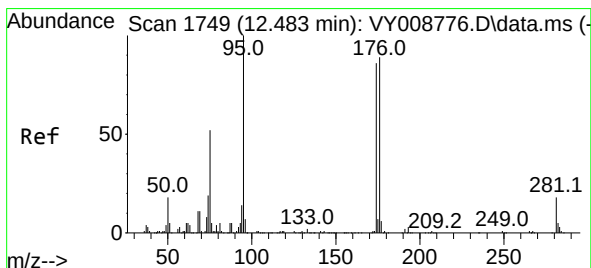
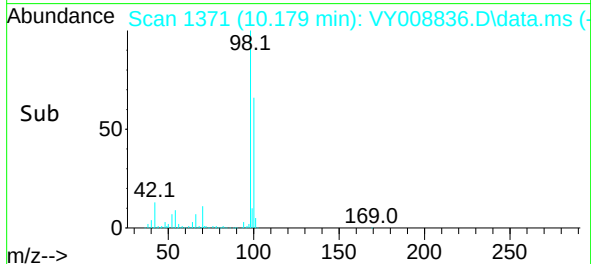
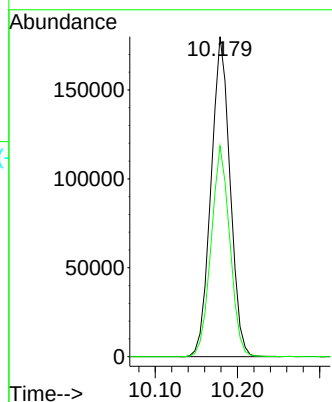
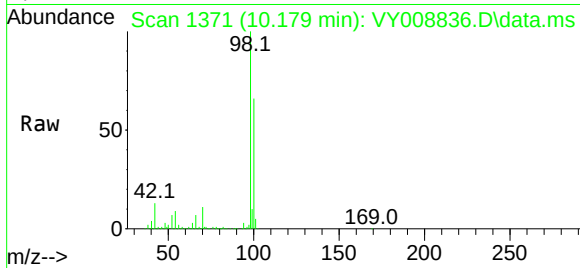




#50  
Toluene-d8  
Concen: 48.199 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

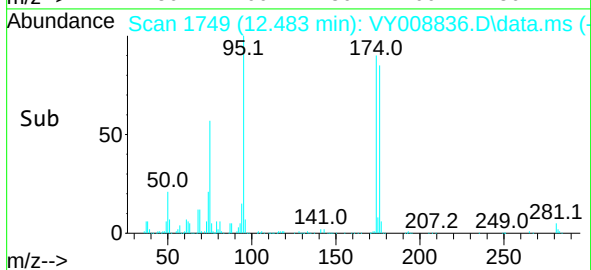
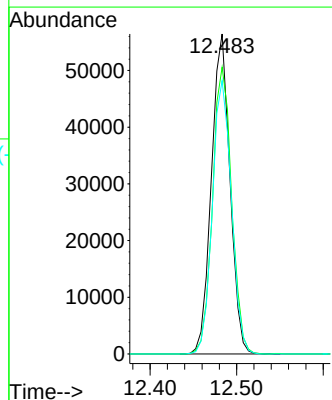
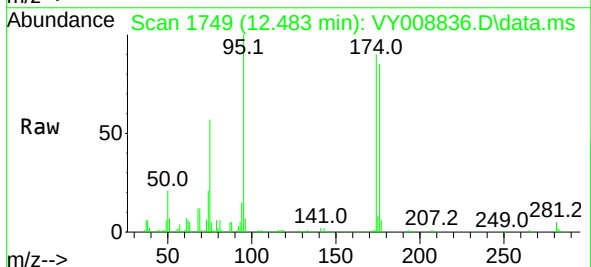
Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

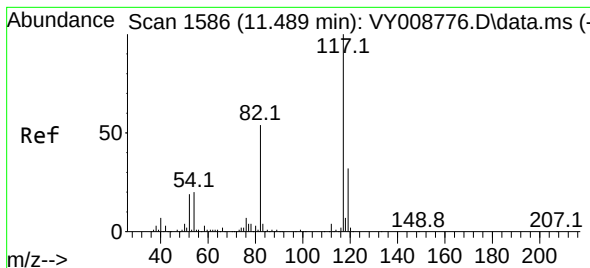
Tgt Ion: 98 Resp: 289335  
Ion Ratio Lower Upper  
98 100  
100 64.7 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 39.839 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 95 Resp: 83926  
Ion Ratio Lower Upper  
95 100  
174 92.2 0.0 177.0  
176 87.7 0.0 175.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY008836.D

Acq: 19 May 2022 00:38

Instrument :

MSVOA\_Y

ClientSampleId :

P029-SS001-1824-01

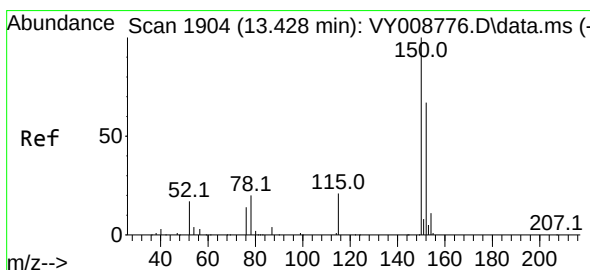
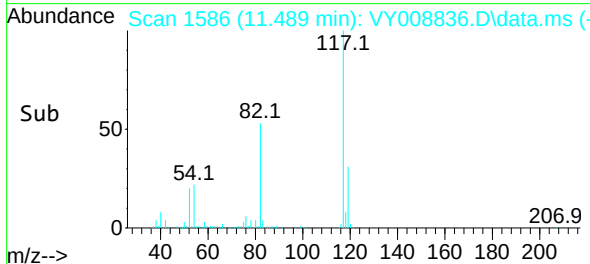
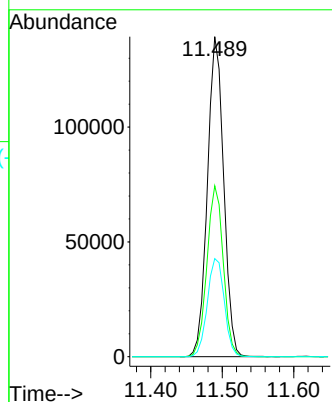
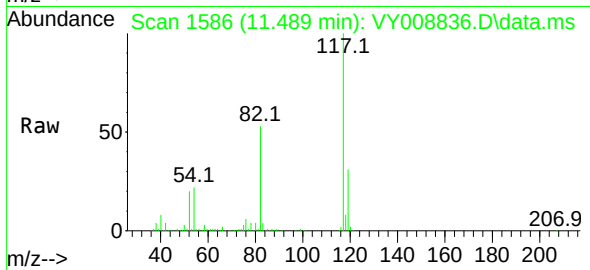
Tgt Ion:117 Resp: 220084

Ion Ratio Lower Upper

117 100

82 53.4 43.0 64.4

119 30.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY008836.D

Acq: 19 May 2022 00:38

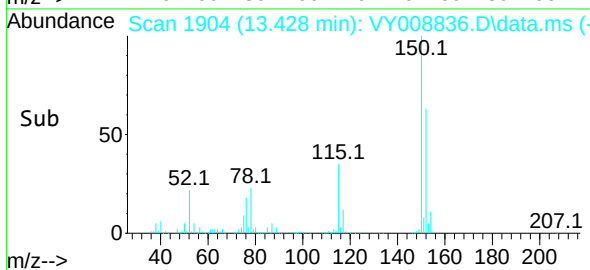
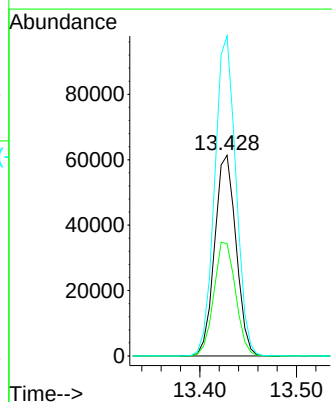
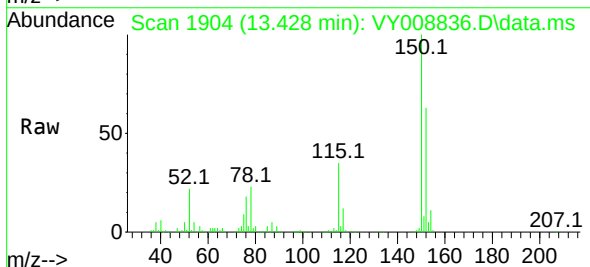
Tgt Ion:152 Resp: 94406

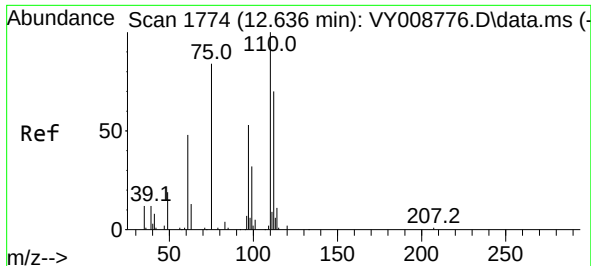
Ion Ratio Lower Upper

152 100

115 57.5 28.2 84.7

150 157.7 0.0 347.6

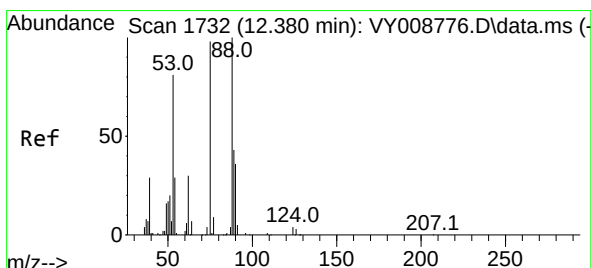
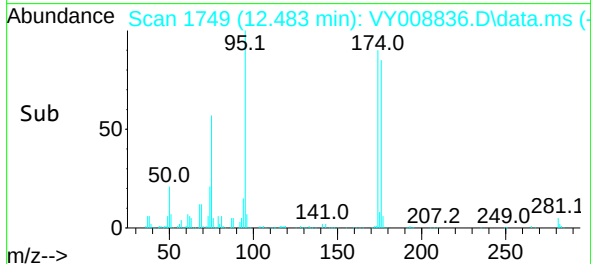
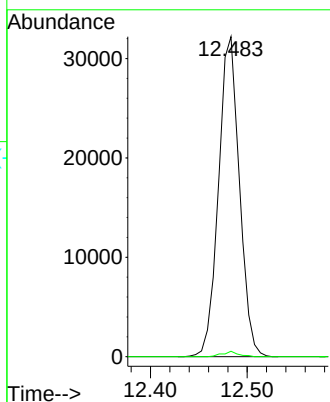
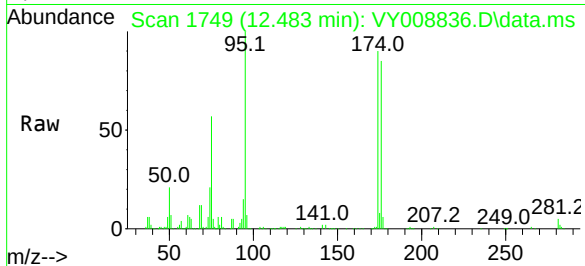




#76  
1,2,3-Trichloropropane  
Concen: 44.252 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Instrument :  
MSVOA\_Y  
ClientSampleId :  
P029-SS001-1824-01

Tgt Ion: 75 Resp: 48258  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.792 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY008836.D  
Acq: 19 May 2022 00:38

Tgt Ion: 75 Resp: 48258  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#

