

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072722\  
 Data File : VY009722.D  
 Acq On : 27 Jul 2022 14:18  
 Operator : KP/MD  
 Sample : N3891-01  
 Misc : 5.27g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 4553-E

Quant Time: Jul 28 02:45:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y072622S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 27 04:24:58 2022  
 Response via : Initial Calibration

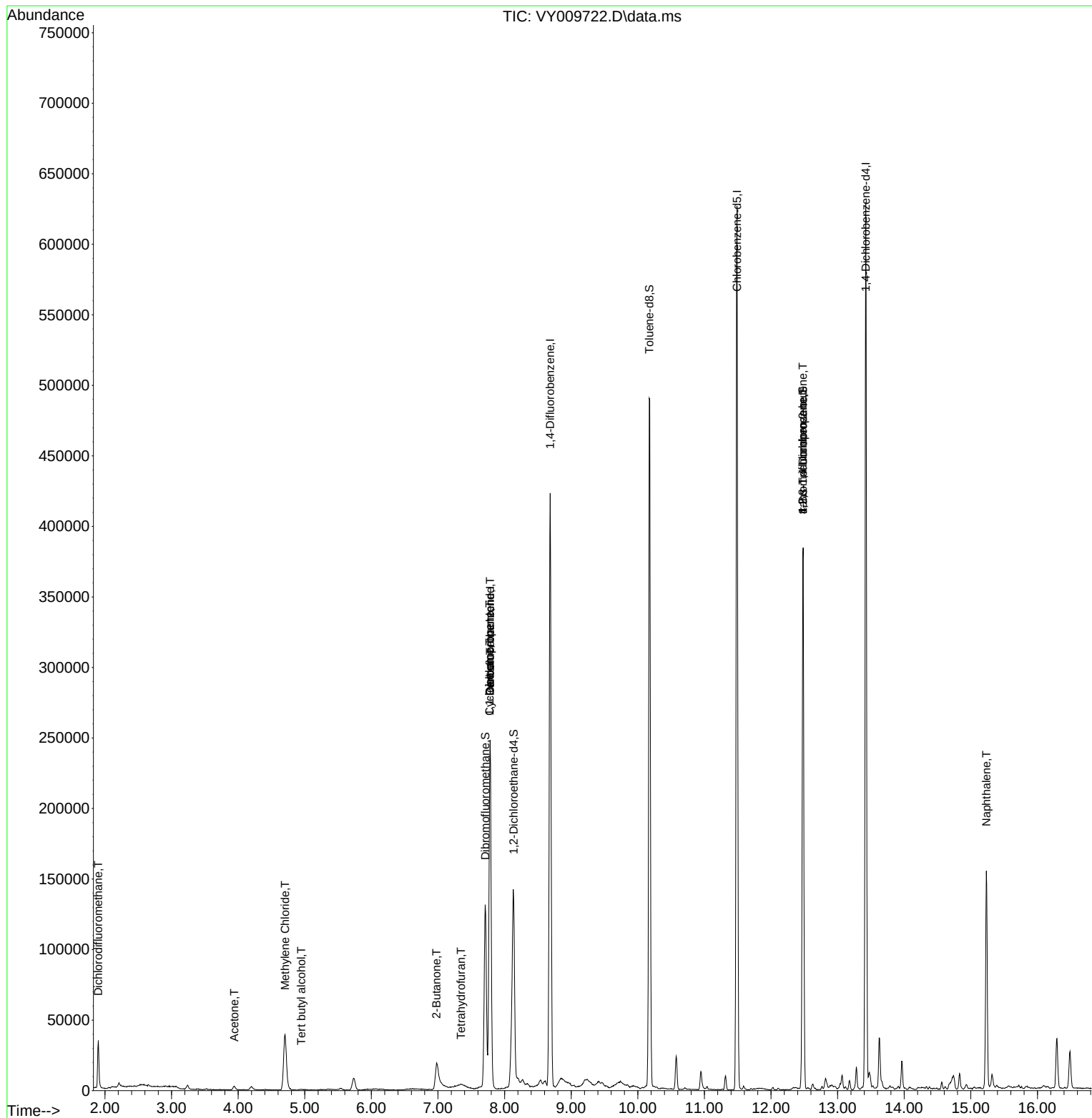
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 204187   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 368520   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 354256   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 167455   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 92355    | 70.021    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 140.040% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 89703    | 44.756    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 89.520%  |          |
| 50) Toluene-d8                | 10.173 | 98    | 327814   | 56.731    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 125 | Recovery  | = 113.460% |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 105691   | 39.769    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 146 | Recovery  | = 79.540%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.900  | 85    | 26558    | 14.610    | ug/l       | 98       |
| 11) Tert butyl alcohol        | 4.948  | 59    | 976      | 4.057     | ug/l #     | 83       |
| 16) Acetone                   | 3.942  | 43    | 4449     | 9.113     | ug/l       | 91       |
| 18) Methyl Acetate            | 4.466  | 43    | 252      | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.704  | 84    | 30137    | 3.939     | ug/l       | 83       |
| 25) 2-Butanone                | 6.978  | 43    | 1615     | 2.242     | ug/l #     | 83       |
| 29) Tetrahydrofuran           | 7.344  | 42    | 632      | 1.386     | ug/l       | 89       |
| 31) Cyclohexane               | 7.777  | 56    | 3559     | 1.095     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.777  | 75    | 13543    | 4.153     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 18454    | 5.281     | ug/l #     | 17       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 54173    | 34.829    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 54173    | 69.424    | ug/l #     | 7        |
| 95) Naphthalene               | 15.233 | 128   | 133658   | 22.662    | ug/l       | 99       |
| -----                         |        |       |          |           |            |          |

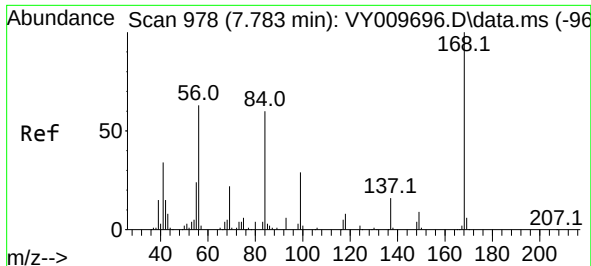
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072722\  
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Sample : N3891-01  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

Quant Time: Jul 28 02:45:27 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y072622S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 27 04:24:58 2022  
Response via : Initial Calibration

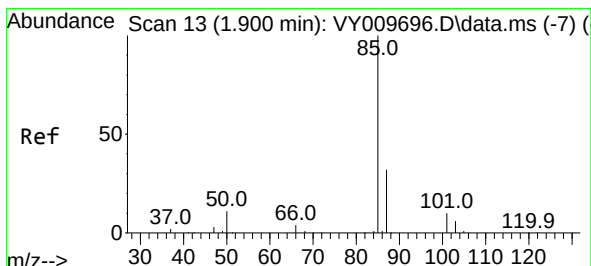
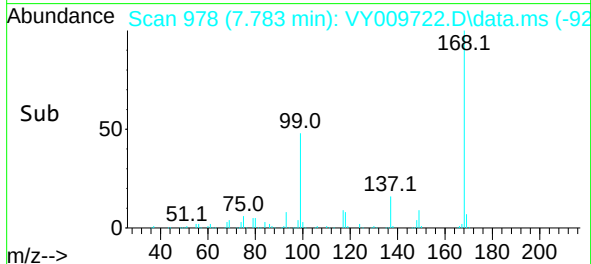
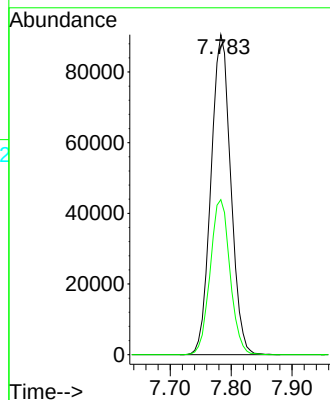
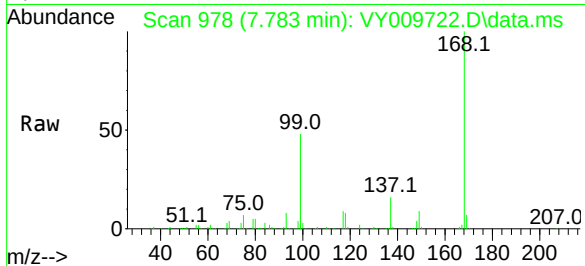




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

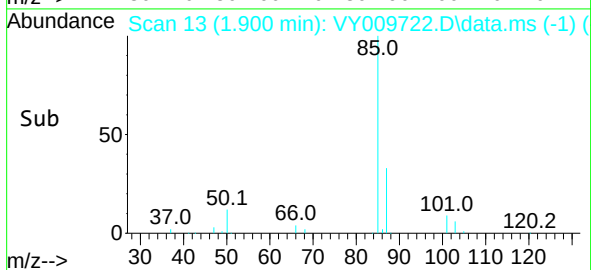
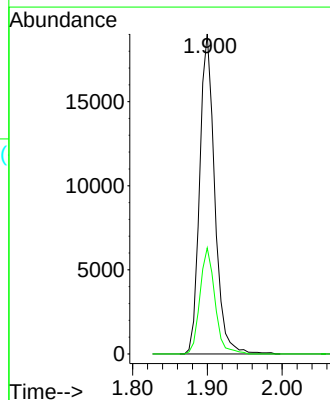
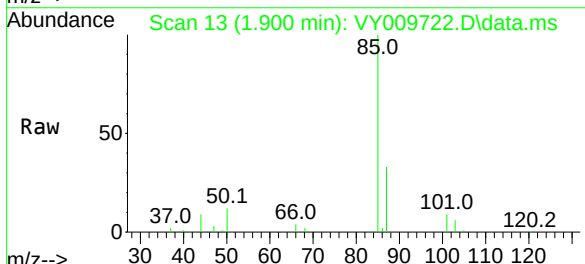
Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

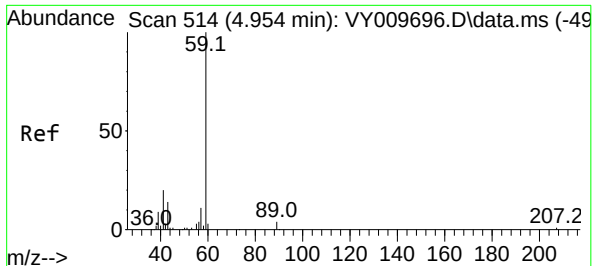
Tgt Ion:168 Resp: 204187  
Ion Ratio Lower Upper  
168 100  
99 48.4 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: 14.610 ug/l  
RT: 1.900 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 85 Resp: 26558  
Ion Ratio Lower Upper  
85 100  
87 33.1 16.1 48.2

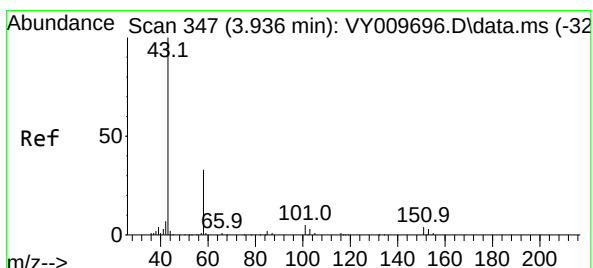
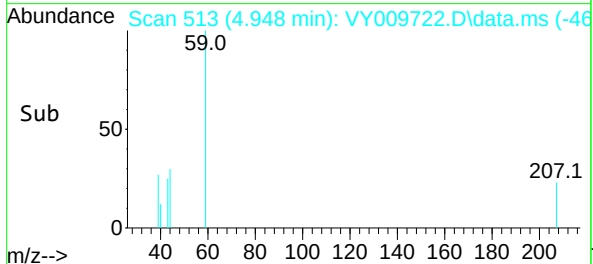
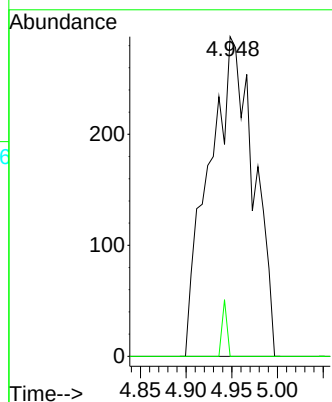
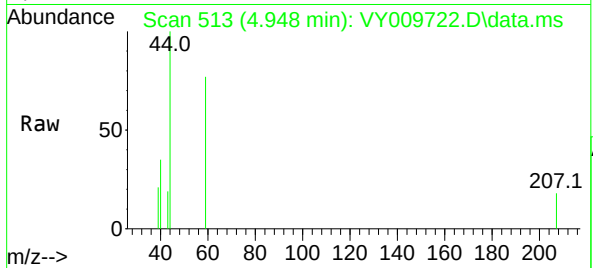




#11  
Tert butyl alcohol  
Concen: 4.057 ug/l  
RT: 4.948 min Scan# 514  
Delta R.T. -0.006 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

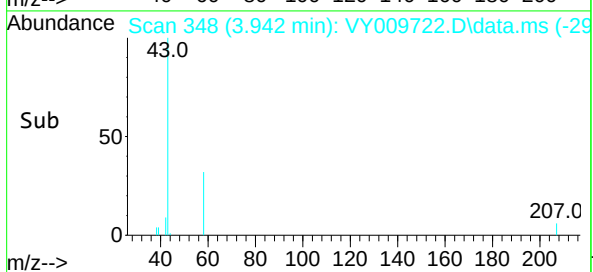
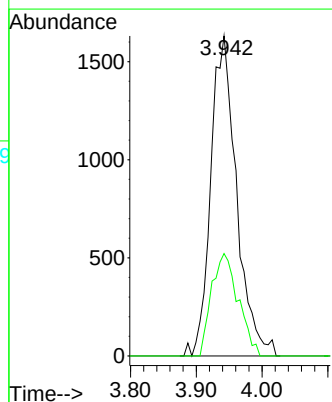
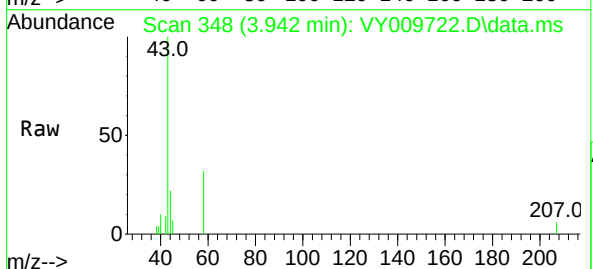
Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

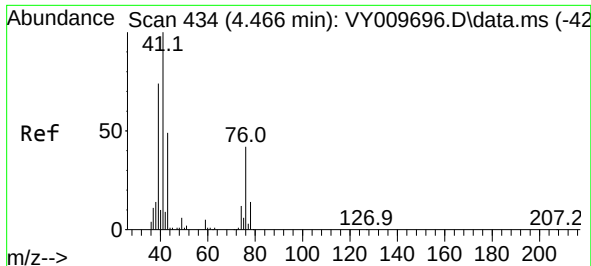
Tgt Ion: 59 Resp: 976  
Ion Ratio Lower Upper  
59 100  
57 1.9 6.4 9.6#



#16  
Acetone  
Concen: 9.113 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. 0.006 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 43 Resp: 4449  
Ion Ratio Lower Upper  
43 100  
58 32.0 22.0 33.0

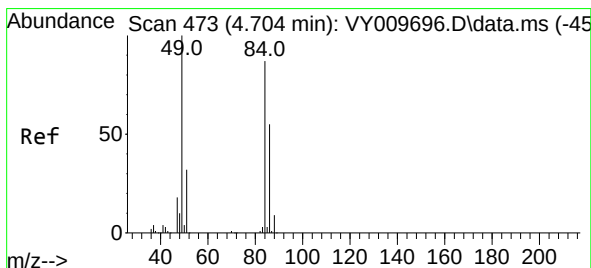
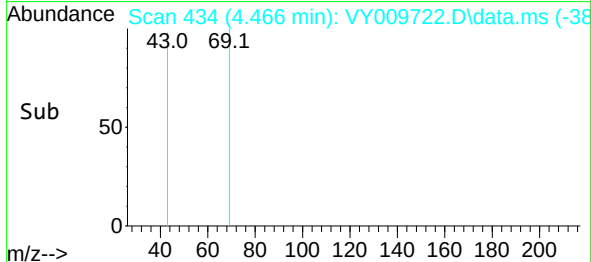
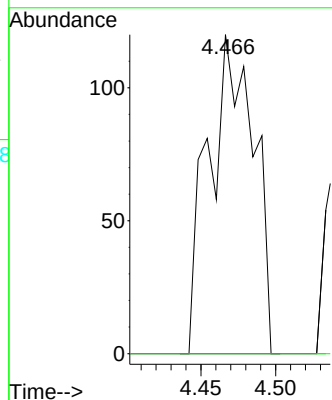
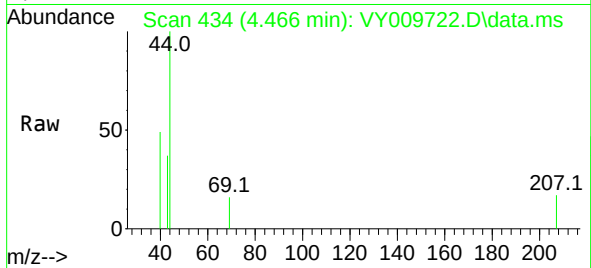




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.466 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

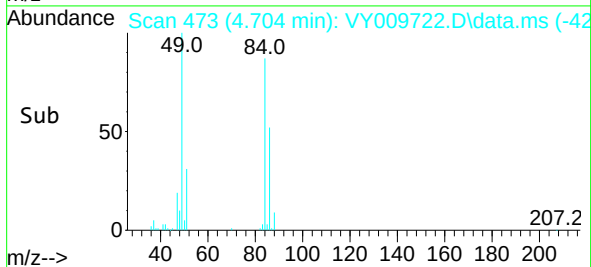
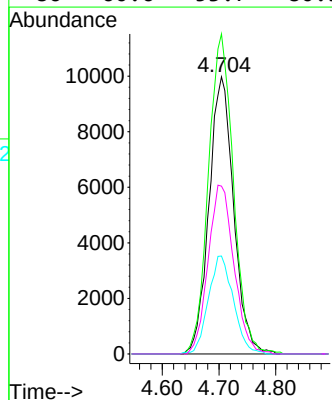
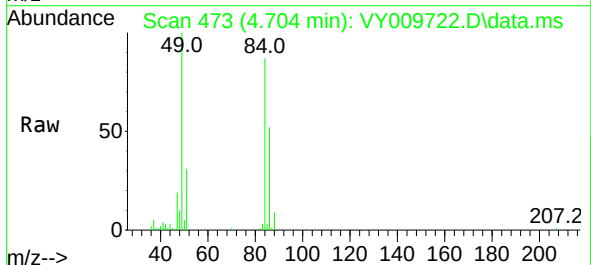
Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

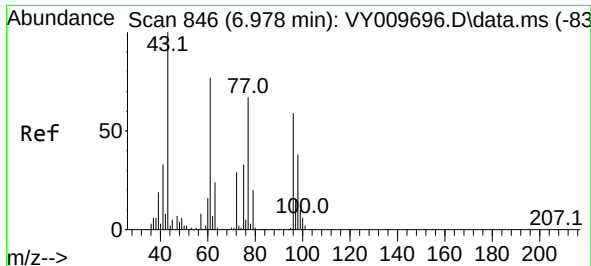
Tgt Ion: 43 Resp: 252  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



#20  
Methylene Chloride  
Concen: 3.939 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. 0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 84 Resp: 30137  
Ion Ratio Lower Upper  
84 100  
49 115.5 114.4 171.6  
51 35.3 35.3 52.9  
86 60.6 53.7 80.5

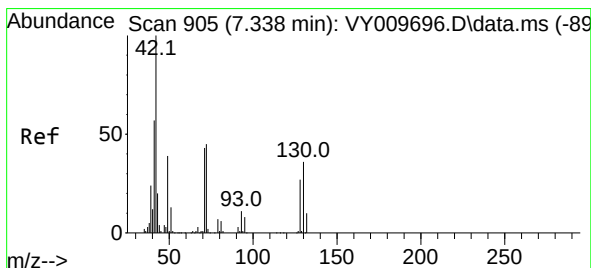
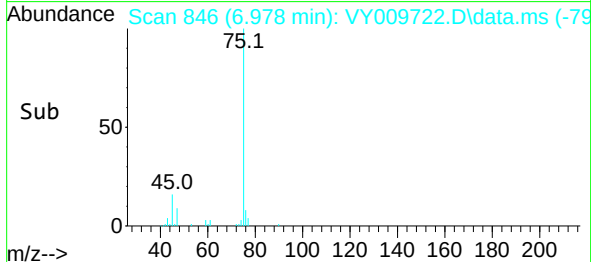
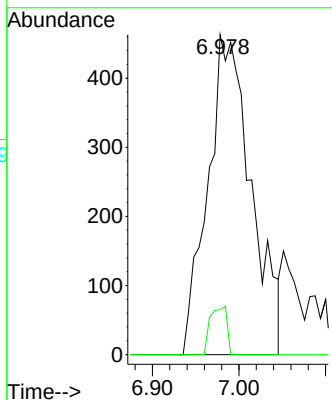
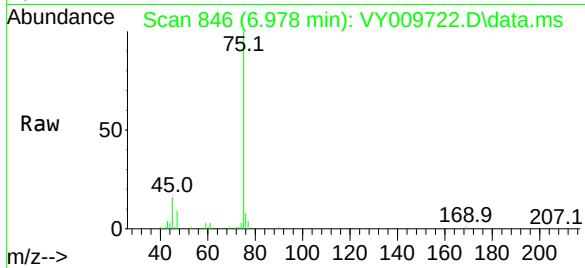




#25  
2-Butanone  
Concen: 2.242 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

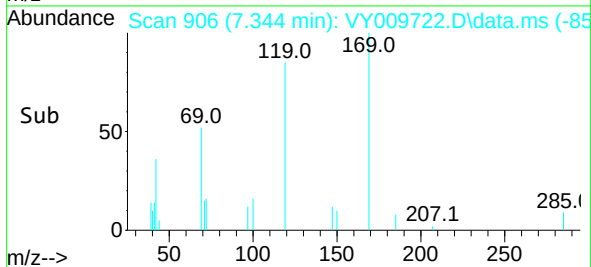
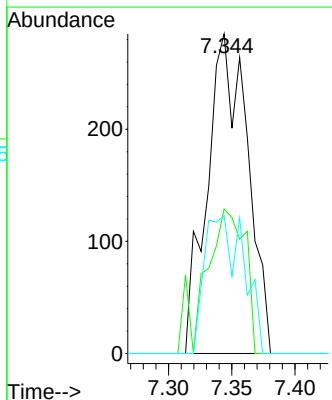
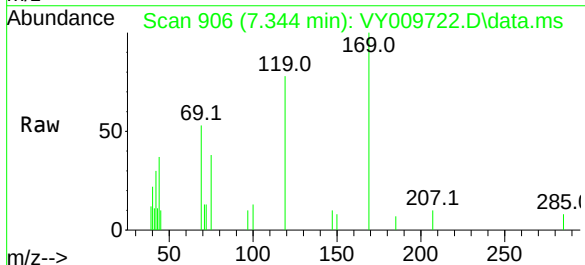
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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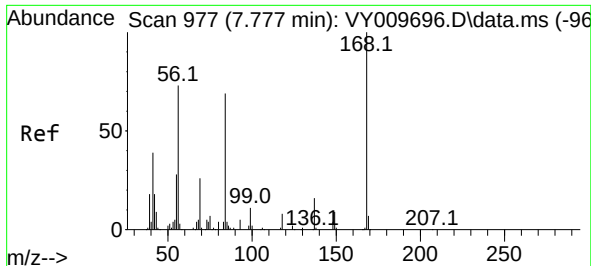
Tgt Ion: 43 Resp: 1615  
Ion Ratio Lower Upper  
43 100  
72 14.0 17.7 26.5#



#29  
Tetrahydrofuran  
Concen: 1.386 ug/l  
RT: 7.344 min Scan# 906  
Delta R.T. 0.006 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 42 Resp: 632  
Ion Ratio Lower Upper  
42 100  
72 44.8 30.3 45.5  
71 42.1 29.0 43.4

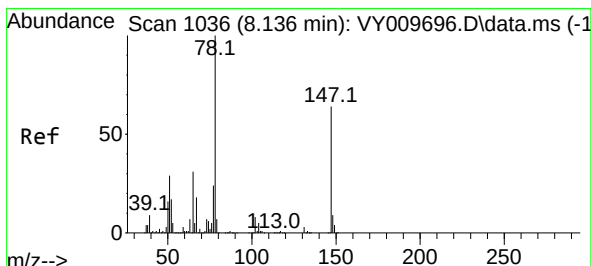
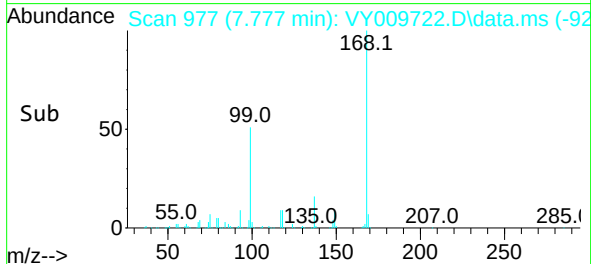
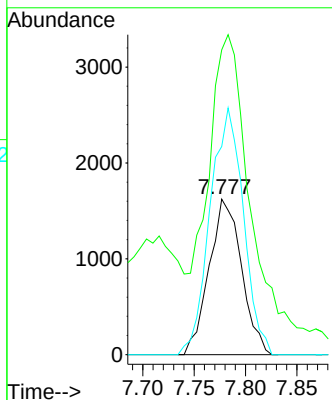
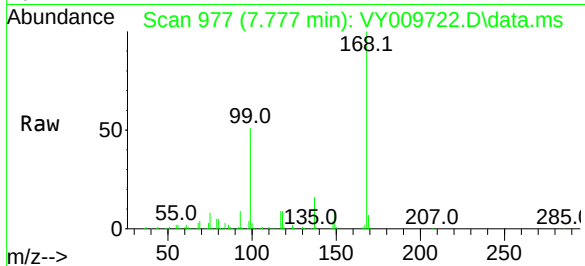




#31  
Cyclohexane  
Concen: 1.095 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

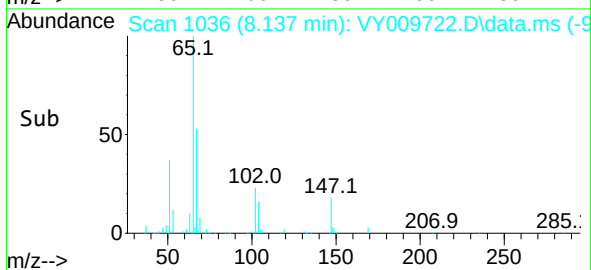
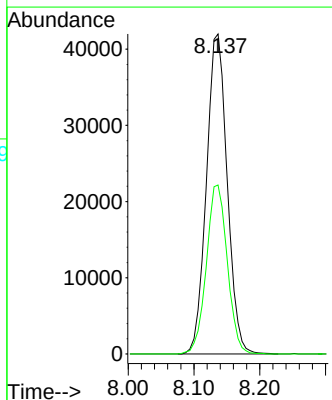
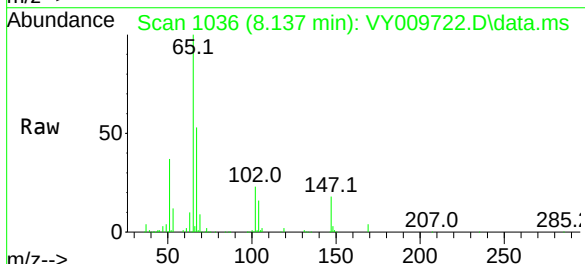
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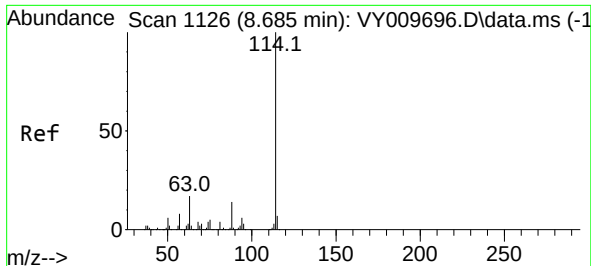
Tgt Ion: 56 Resp: 3559  
Ion Ratio Lower Upper  
56 100  
69 169.6 26.7 40.1#  
84 133.8 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 70.021 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. 0.001 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 65 Resp: 92355  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 99.4

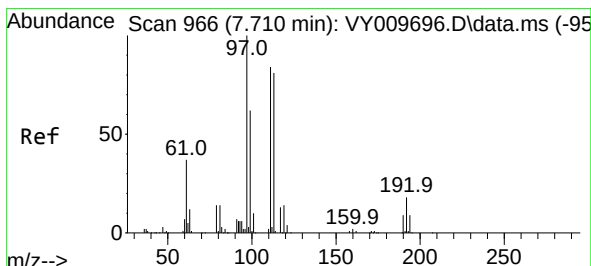
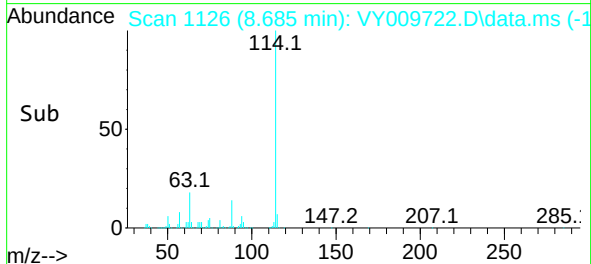
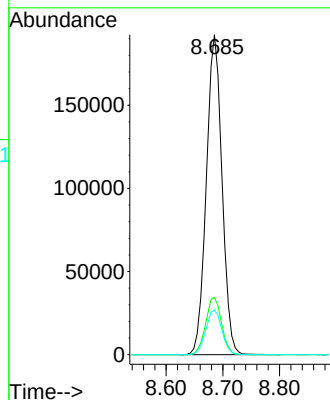
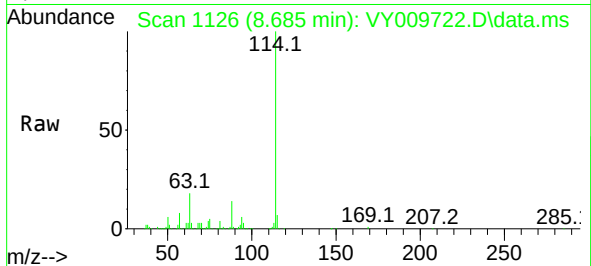




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

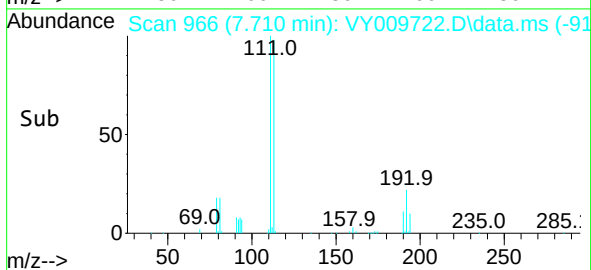
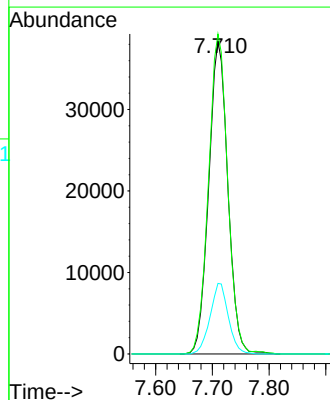
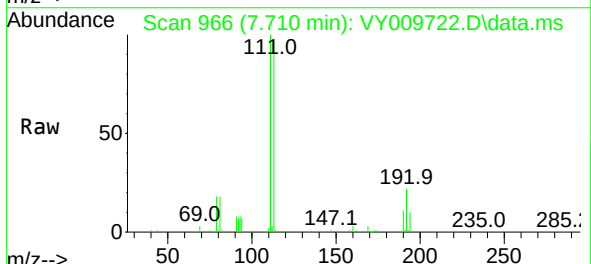
Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

Tgt Ion:114 Resp: 368520  
Ion Ratio Lower Upper  
114 100  
63 17.9 0.0 43.2  
88 13.9 0.0 31.8

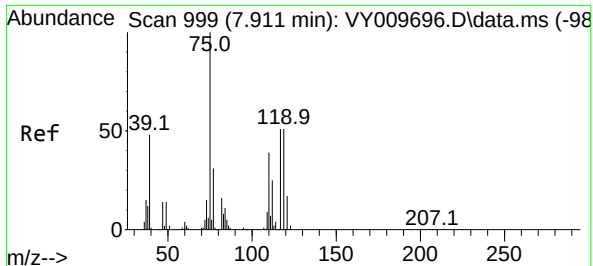


#35  
Dibromofluoromethane  
Concen: 44.756 ug/l  
RT: 7.710 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion:113 Resp: 89703  
Ion Ratio Lower Upper  
113 100  
111 103.0 82.6 124.0  
192 21.7 17.6 26.4



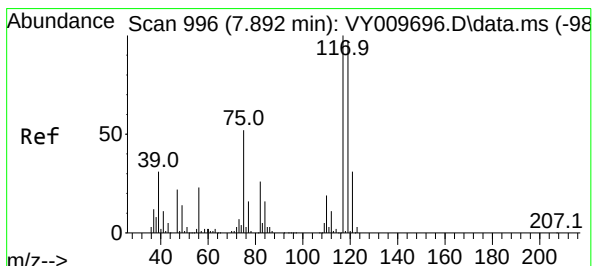
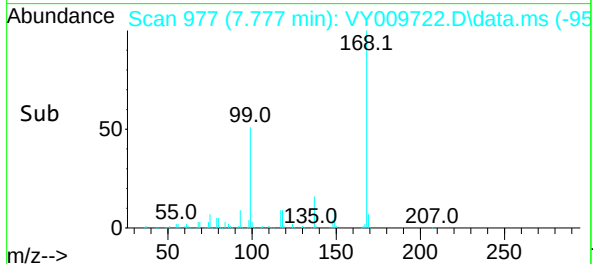
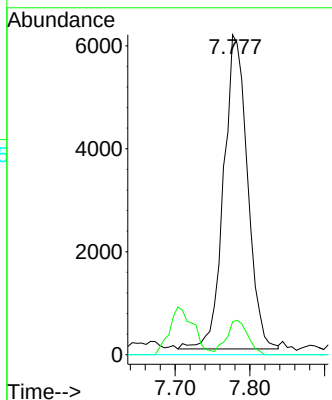
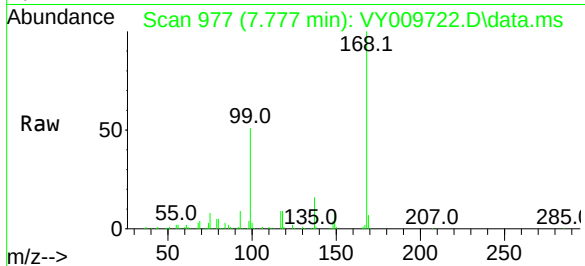




#36  
 1,1-Dichloropropene  
 Concen: 4.153 ug/l  
 RT: 7.777 min Scan# 91  
 Delta R.T. -0.134 min  
 Lab File: VY009722.D  
 Acq: 27 Jul 2022 14:18

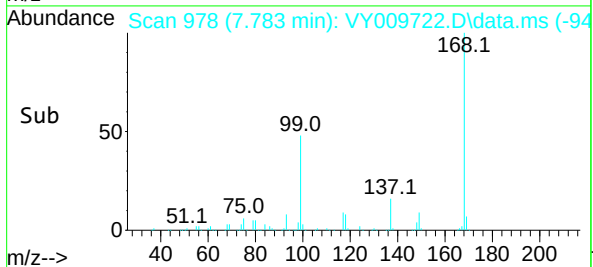
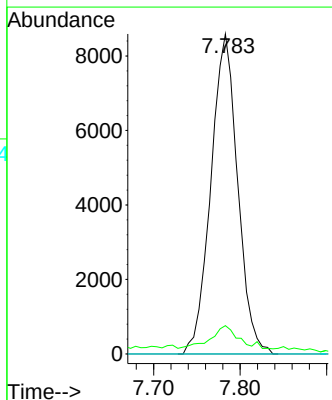
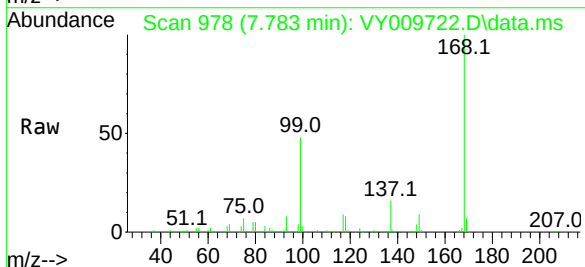
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 4553-E

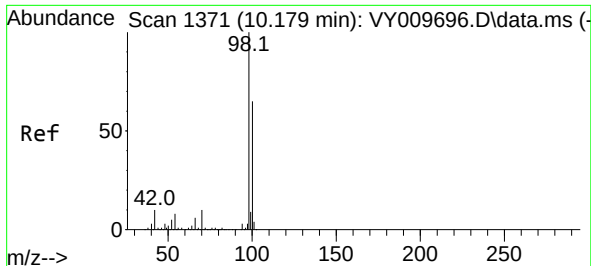
Tgt Ion: 75 Resp: 13543  
 Ion Ratio Lower Upper  
 75 100  
 110 9.7 17.1 51.2#  
 77 0.0 24.4 36.6#



#38  
 Carbon Tetrachloride  
 Concen: 5.281 ug/l  
 RT: 7.783 min Scan# 978  
 Delta R.T. -0.109 min  
 Lab File: VY009722.D  
 Acq: 27 Jul 2022 14:18

Tgt Ion: 117 Resp: 18454  
 Ion Ratio Lower Upper  
 117 100  
 119 7.1 77.9 116.9#  
 121 0.0 24.8 37.2#

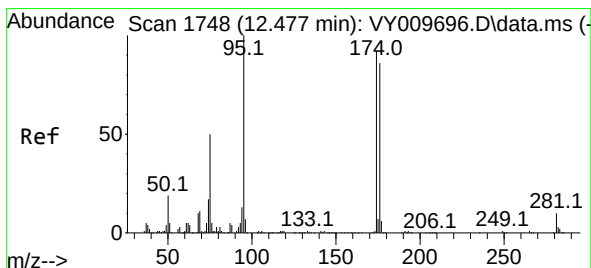
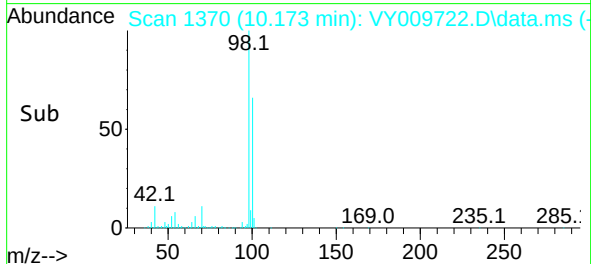
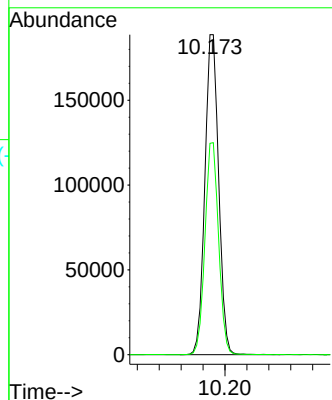
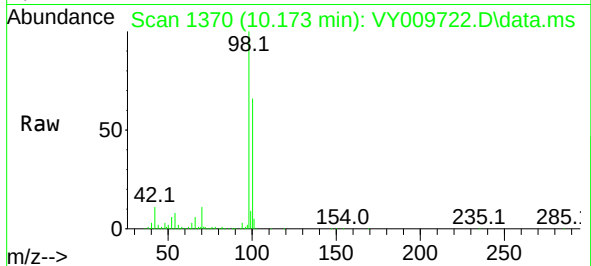




#50  
Toluene-d8  
Concen: 56.731 ug/l  
RT: 10.173 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

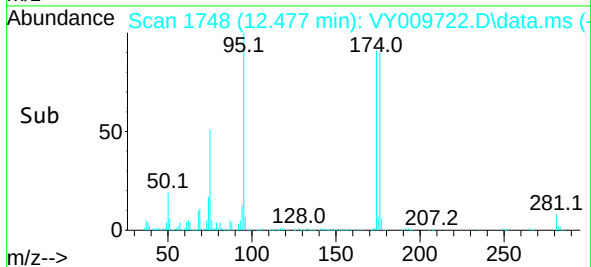
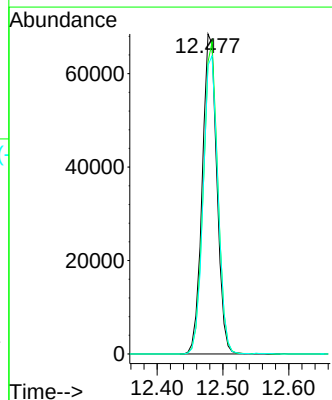
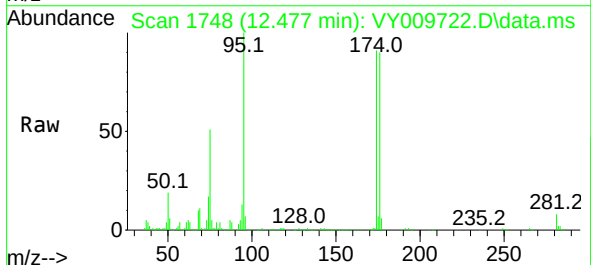
Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

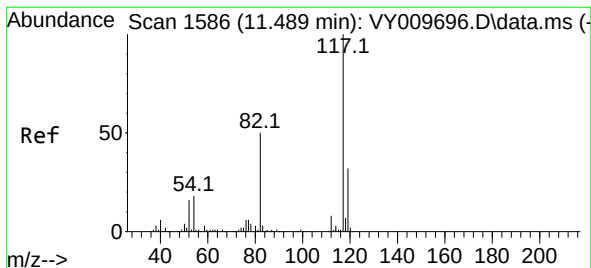
Tgt Ion: 98 Resp: 327814  
Ion Ratio Lower Upper  
98 100  
100 65.7 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 39.769 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 95 Resp: 105691  
Ion Ratio Lower Upper  
95 100  
174 96.4 0.0 177.0  
176 94.2 0.0 175.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY009722.D

Acq: 27 Jul 2022 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

4553-E

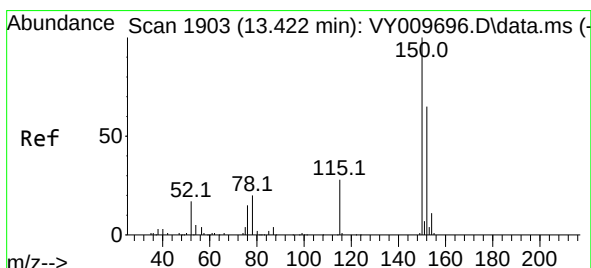
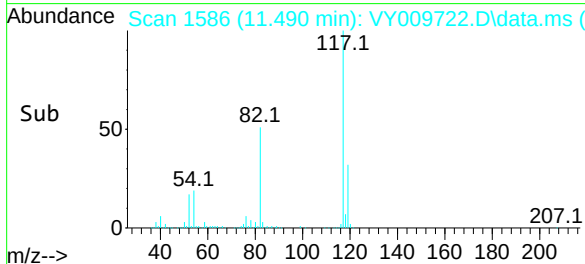
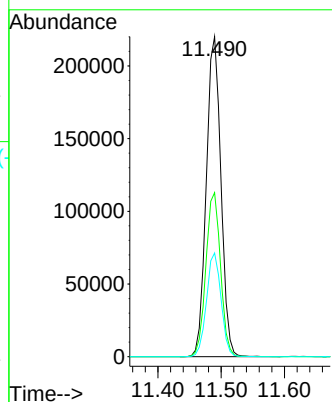
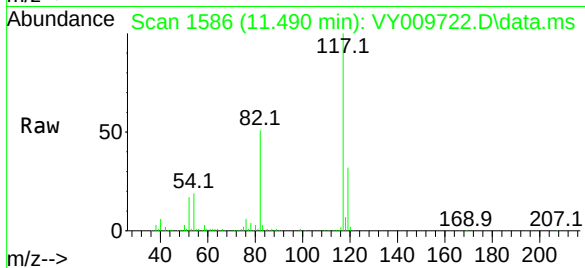
Tgt Ion:117 Resp: 354256

Ion Ratio Lower Upper

117 100

82 51.3 43.0 64.4

119 32.4 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY009722.D

Acq: 27 Jul 2022 14:18

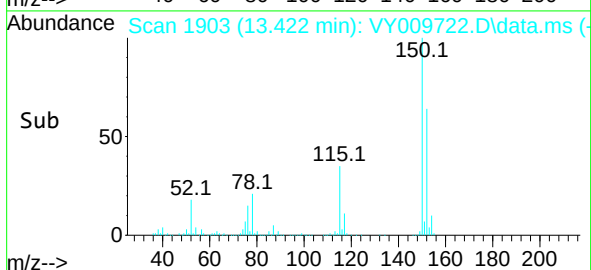
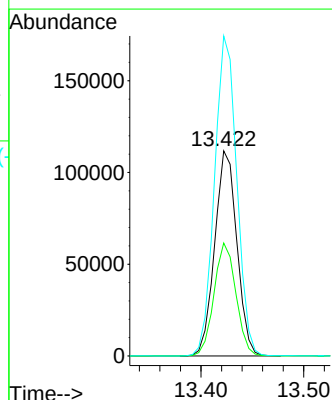
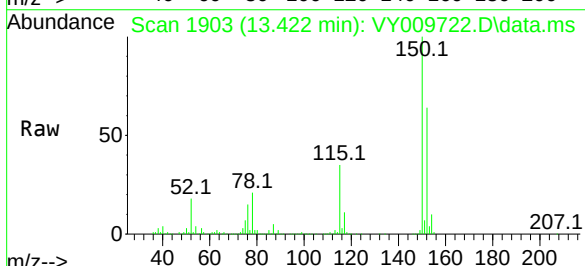
Tgt Ion:152 Resp: 167455

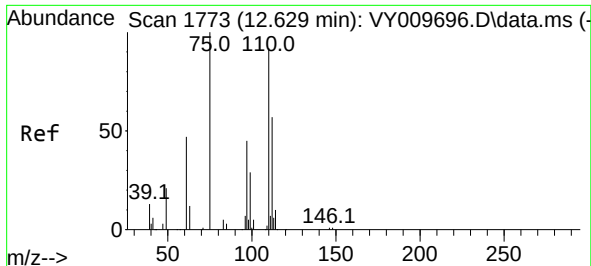
Ion Ratio Lower Upper

152 100

115 54.3 28.2 84.7

150 156.9 0.0 347.6

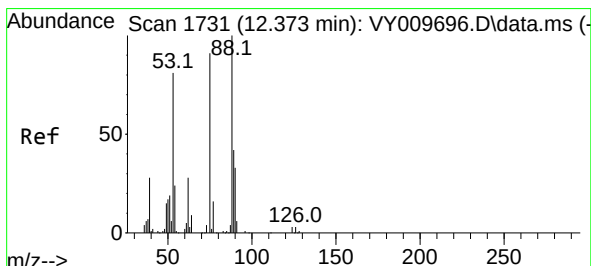
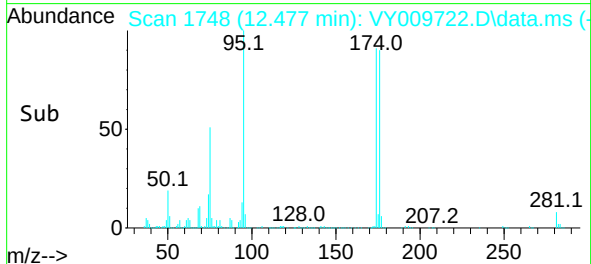
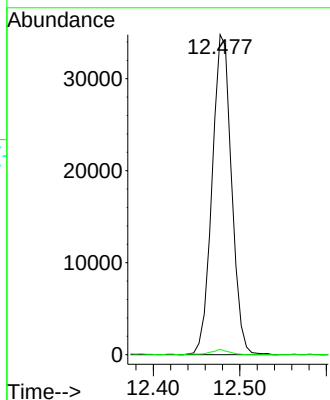
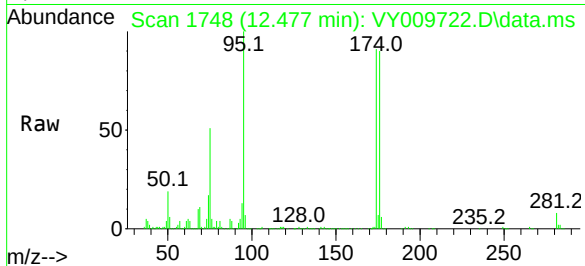




#76  
1,2,3-Trichloropropane  
Concen: 34.829 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

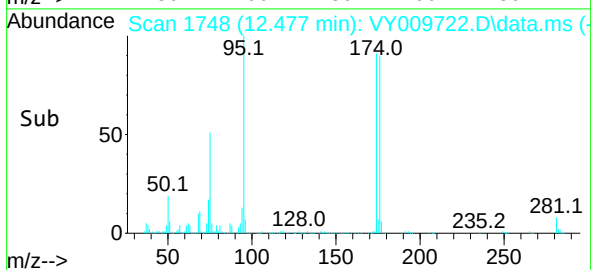
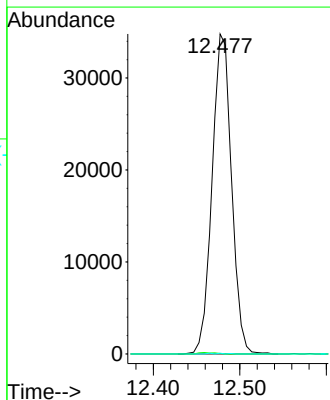
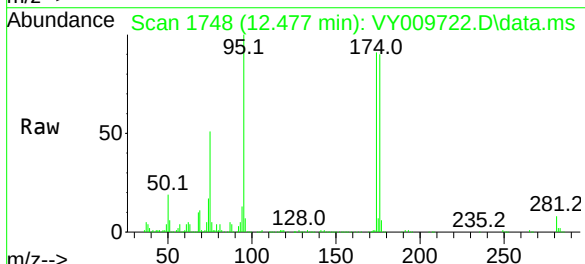
Instrument :  
MSVOA\_Y  
ClientSampleId :  
4553-E

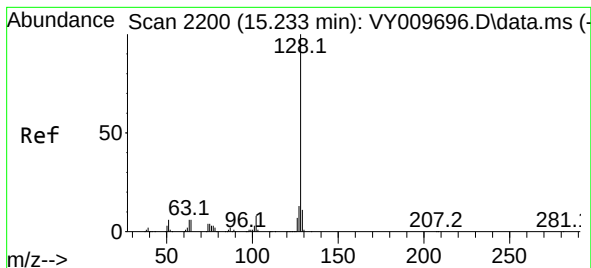
Tgt Ion: 75 Resp: 54173  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.424 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.104 min  
Lab File: VY009722.D  
Acq: 27 Jul 2022 14:18

Tgt Ion: 75 Resp: 54173  
Ion Ratio Lower Upper  
75 100  
53 0.4 85.3 127.9#  
89 0.1 37.0 55.4#





#95

Naphthalene

Concen: 22.662 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY009722.D

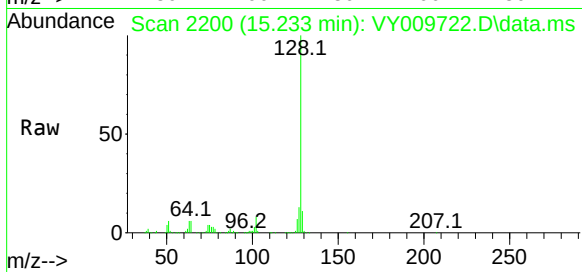
Acq: 27 Jul 2022 14:18

Instrument :

MSVOA\_Y

ClientSampleId :

4553-E



Tgt Ion:128 Resp: 133658

Ion Ratio Lower Upper

128 100

127 13.3 11.0 16.4

129 10.9 8.4 12.6

