

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101723\  
 Data File : VY016009.D  
 Acq On : 17 Oct 2023 17:08  
 Operator : SY/MD  
 Sample : 04920-03  
 Misc : 5.24g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 18 06:10:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 13 13:13:02 2023  
 Response via : Initial Calibration

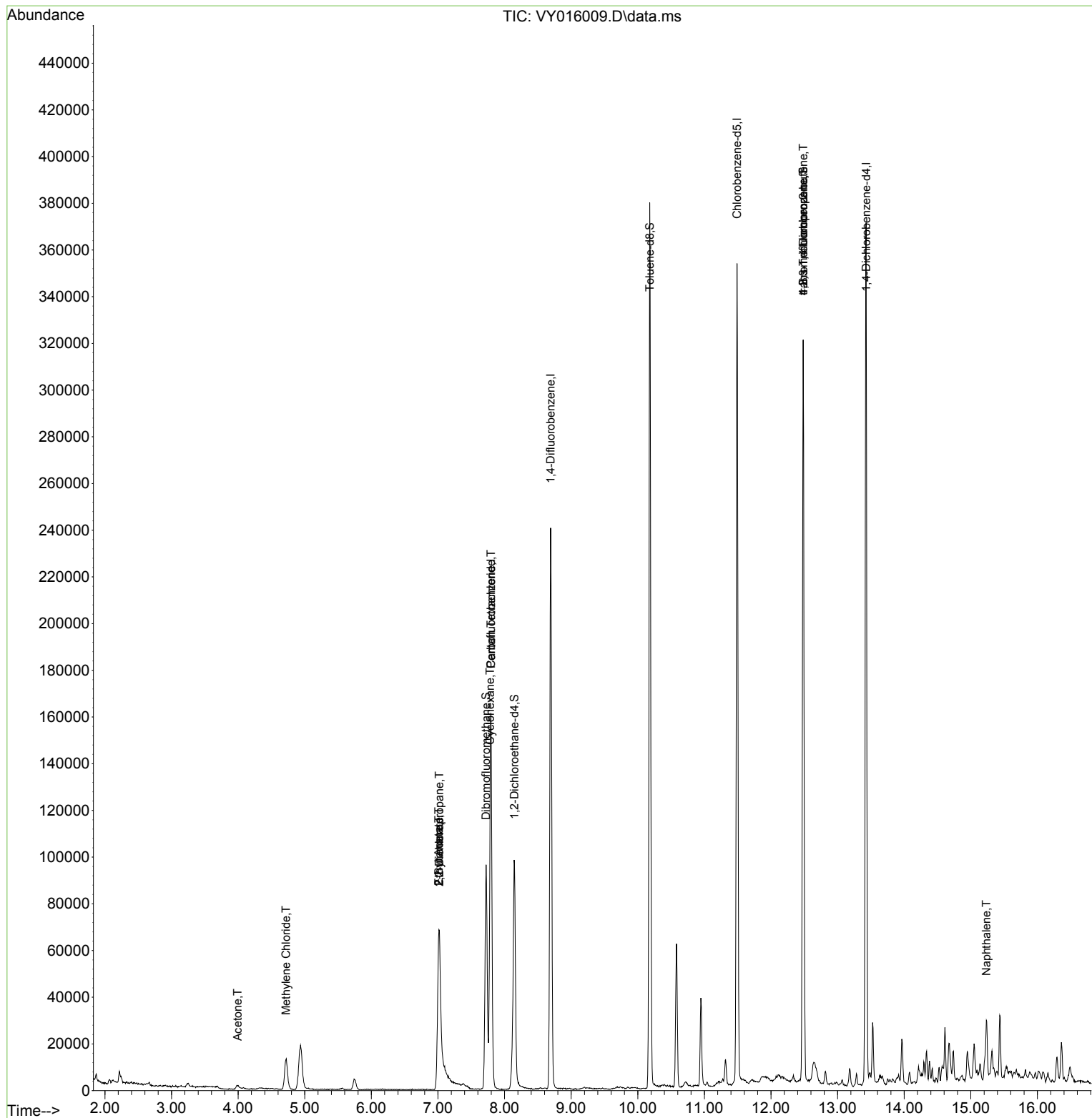
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 127859   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 211027   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 198691   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 98671    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 75416    | 51.682    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 103.360% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 69230    | 52.110    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 104.220% |          |
| 50) Toluene-d8                | 10.179 | 98    | 249262   | 50.100    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 100.200% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 87197    | 49.219    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 98.440%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.113  | 50    | 756      | Below Cal | #          | 70       |
| 16) Acetone                   | 3.991  | 43    | 4005     | 4.725     | ug/l       | 96       |
| 20) Methylene Chloride        | 4.716  | 84    | 10151    | 2.311     | ug/l       | 90       |
| 25) 2-Butanone                | 7.015  | 43    | 5165     | 4.187     | ug/l       | # 78     |
| 26) 2,2-Dichloropropane       | 7.021  | 77    | 6256     | 3.035     | ug/l       | # 54     |
| 31) Cyclohexane               | 7.783  | 56    | 2426     | 1.044     | ug/l       | # 1      |
| 37) Ethyl Acetate             | 7.015  | 43    | 5165     | 1.670     | ug/l       | # 1      |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 12650    | 5.992     | ug/l       | # 18     |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 45060    | 23.335    | ug/l       | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 45060    | 54.970    | ug/l       | # 11     |
| 95) Naphthalene               | 15.233 | 128   | 19937    | 2.959     | ug/l       | 100      |
| -----                         |        |       |          |           |            |          |

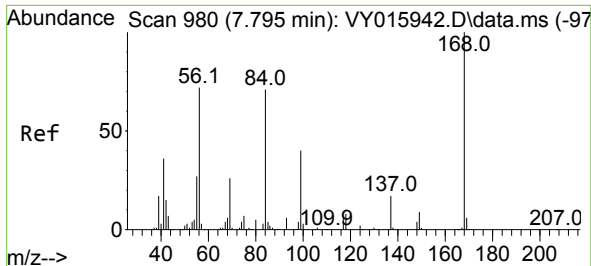
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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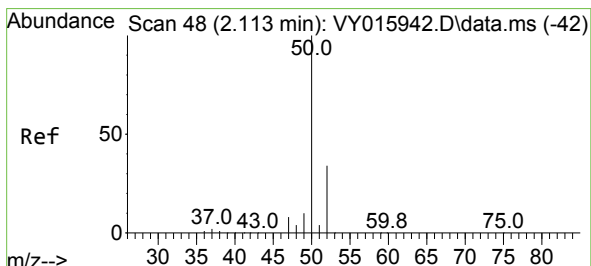
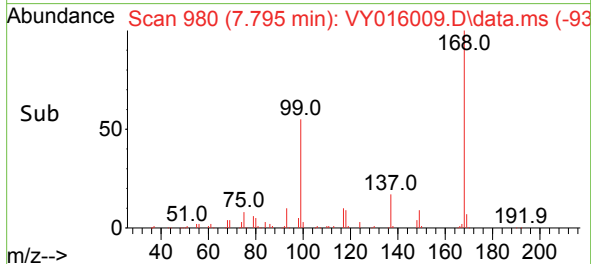
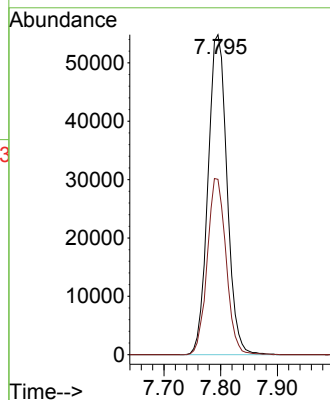
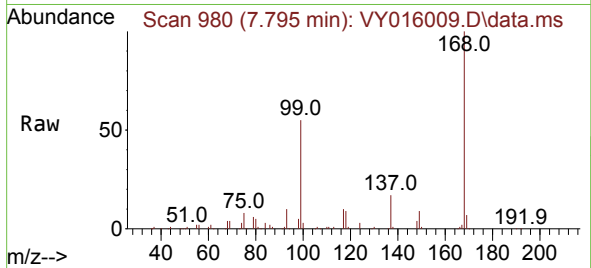




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

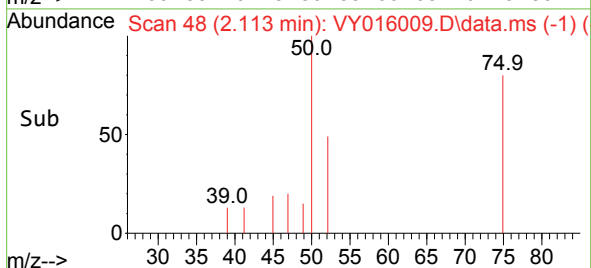
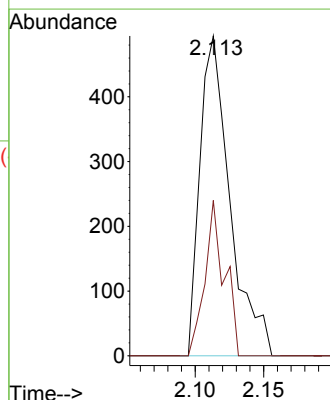
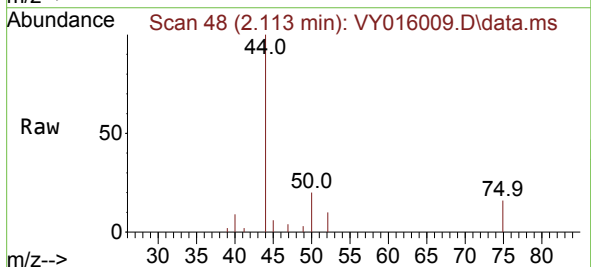
Instrument :  
MSVOA\_Y  
ClientSampleId :

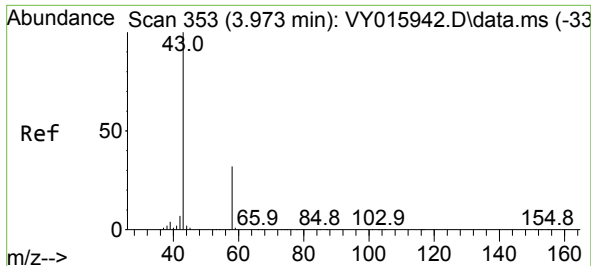
Tgt Ion:168 Resp: 127859  
Ion Ratio Lower Upper  
168 100  
99 54.8 43.4 65.0



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Tgt Ion: 50 Resp: 756  
Ion Ratio Lower Upper  
50 100  
52 48.6 25.4 38.2#

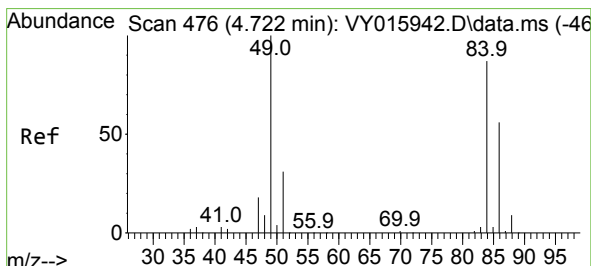
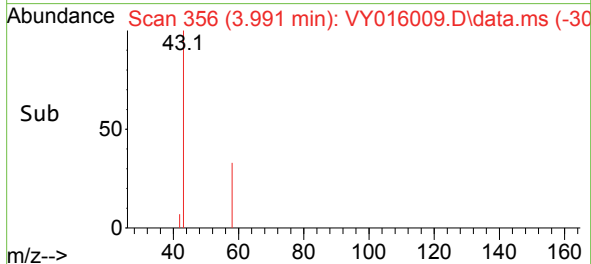
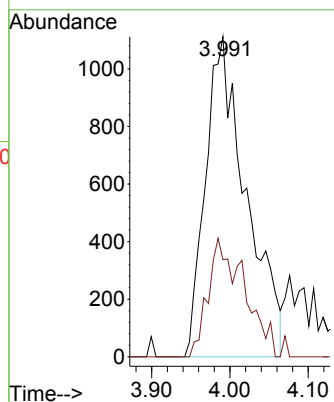
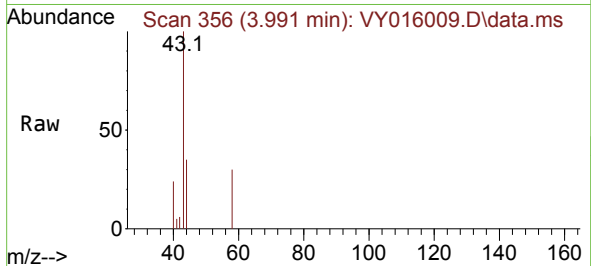




#16  
Acetone  
Concen: 4.725 ug/l  
RT: 3.991 min Scan# 356  
Delta R.T. 0.018 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

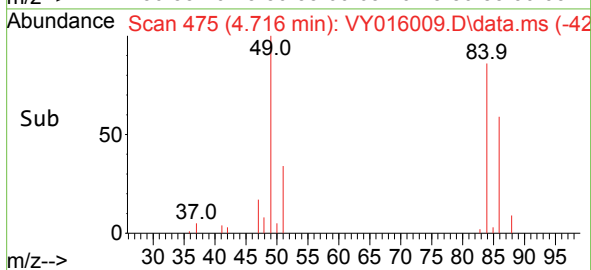
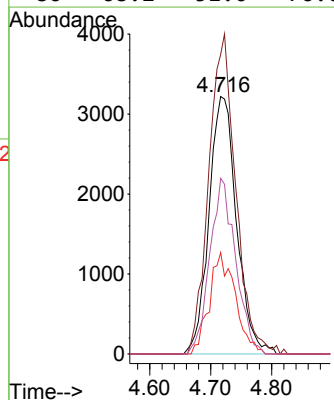
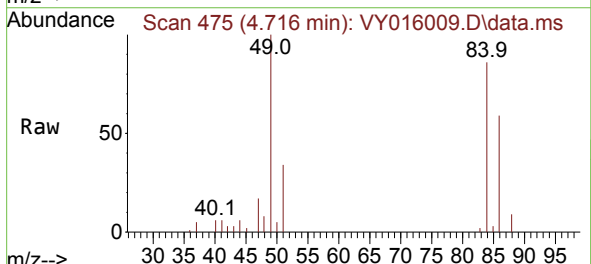
Instrument :  
MSVOA\_Y  
ClientSampleId :

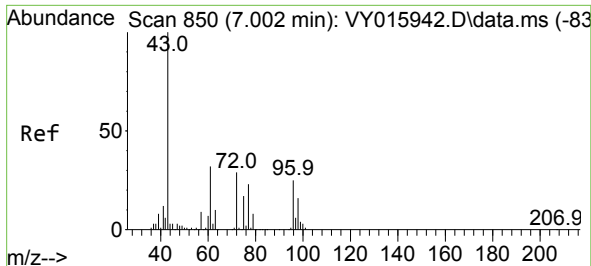
Tgt Ion: 43 Resp: 4005  
Ion Ratio Lower Upper  
43 100  
58 30.3 22.7 34.1



#20  
Methylene Chloride  
Concen: 2.311 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. -0.006 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Tgt Ion: 84 Resp: 10151  
Ion Ratio Lower Upper  
84 100  
49 116.3 106.9 160.3  
51 39.3 33.2 49.8  
86 68.2 51.0 76.6





#25

2-Butanone

Concen: 4.187 ug/l

RT: 7.015 min Scan# 81

Delta R.T. 0.012 min

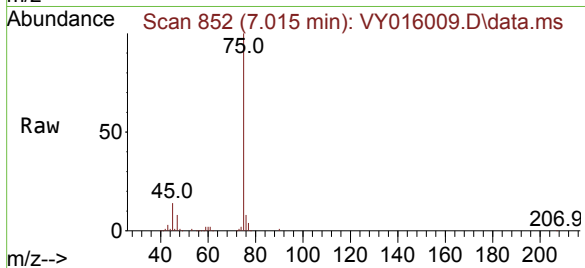
Lab File: VY016009.D

Acq: 17 Oct 2023 17:08

Instrument :

MSVOA\_Y

ClientSampleId :

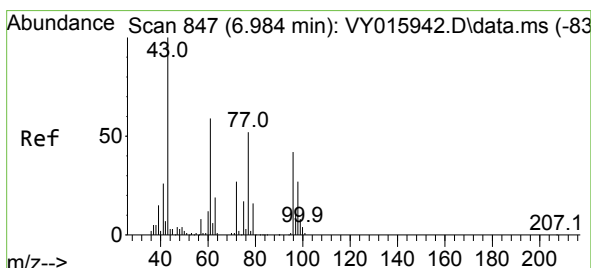
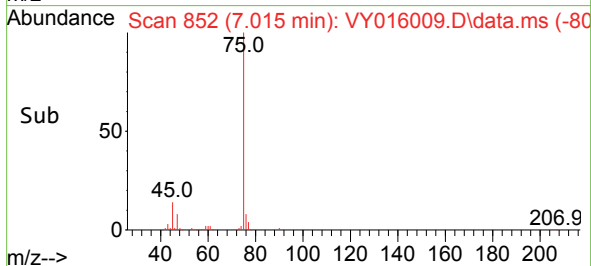
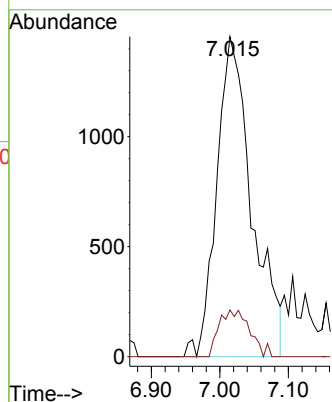


Tgt Ion: 43 Resp: 5165

Ion Ratio Lower Upper

43 100

72 14.6 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 3.035 ug/l

RT: 7.021 min Scan# 853

Delta R.T. 0.037 min

Lab File: VY016009.D

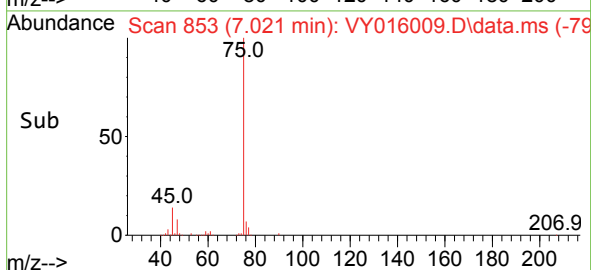
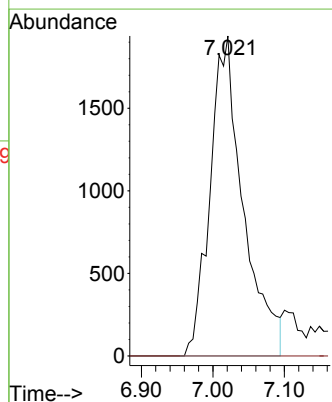
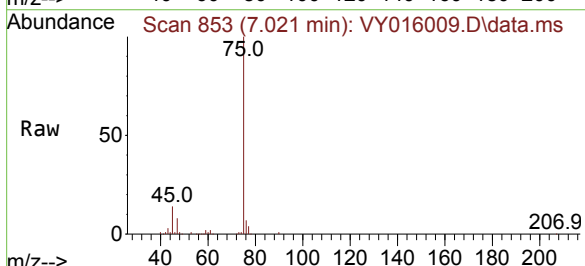
Acq: 17 Oct 2023 17:08

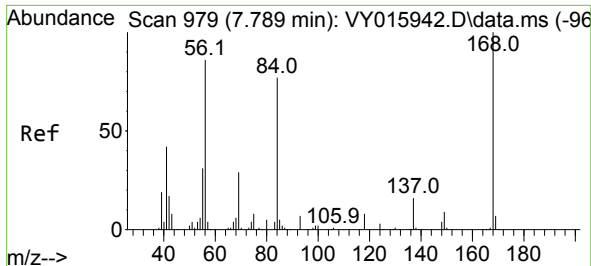
Tgt Ion: 77 Resp: 6256

Ion Ratio Lower Upper

77 100

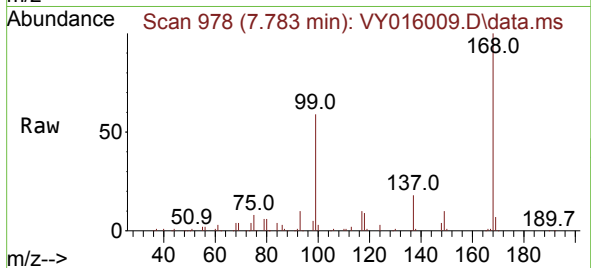
97 0.0 10.9 32.9#



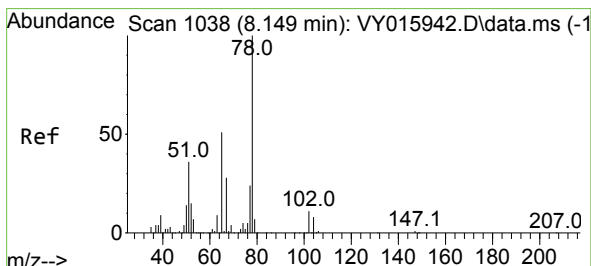
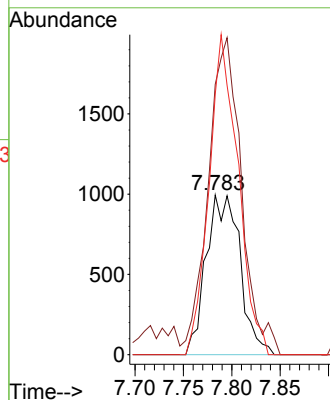
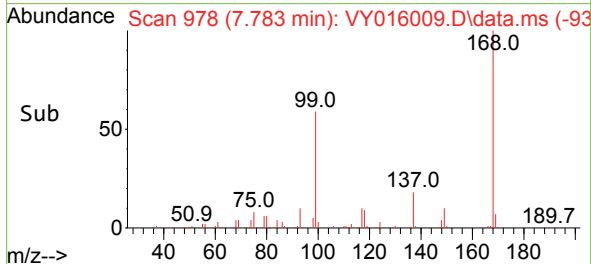


#31  
Cyclohexane  
Concen: 1.044 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Instrument :  
MSVOA\_Y  
ClientSampleId :

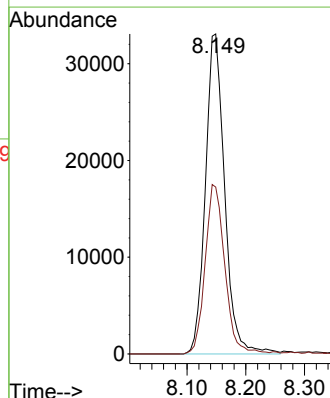
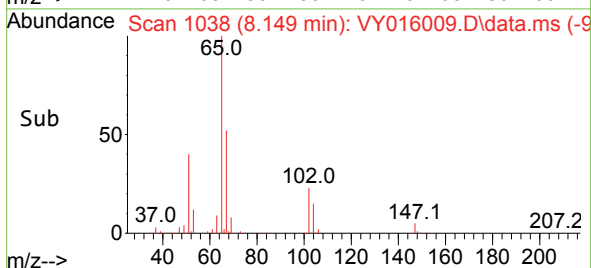
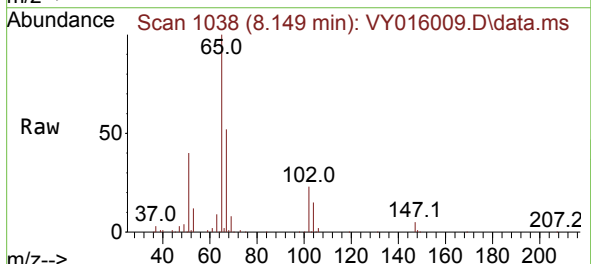


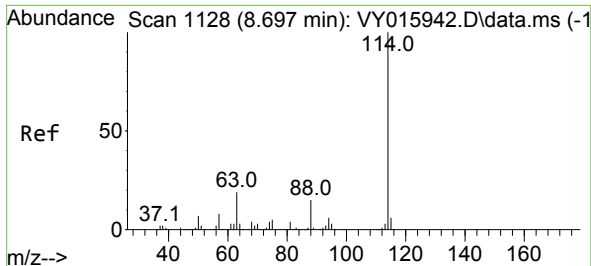
Tgt Ion: 56 Resp: 2426  
Ion Ratio Lower Upper  
56 100  
69 169.3 27.8 41.6#  
84 163.0 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 51.682 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. 0.000 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Tgt Ion: 65 Resp: 75416  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.006 min

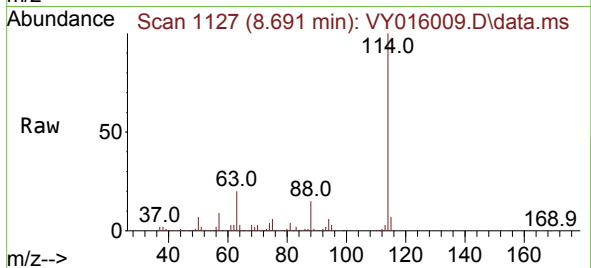
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Acq: 17 Oct 2023 17:08

Instrument :

MSVOA\_Y

ClientSampleId :



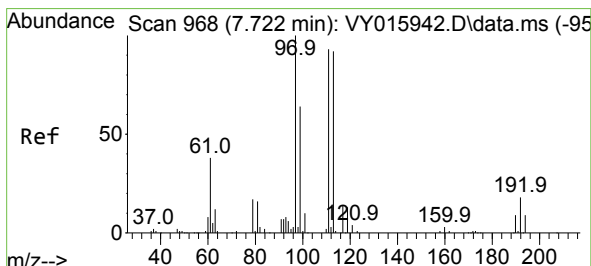
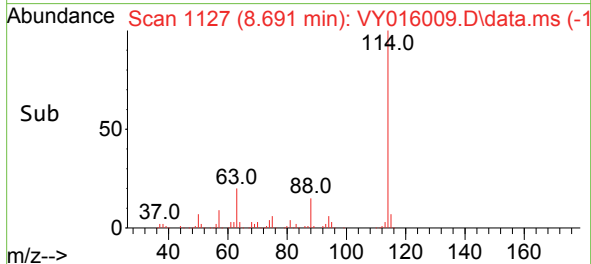
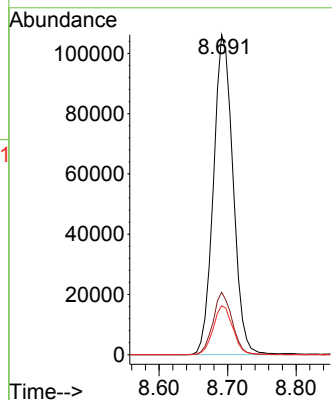
Tgt Ion:114 Resp: 211027

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.110 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY016009.D

Acq: 17 Oct 2023 17:08

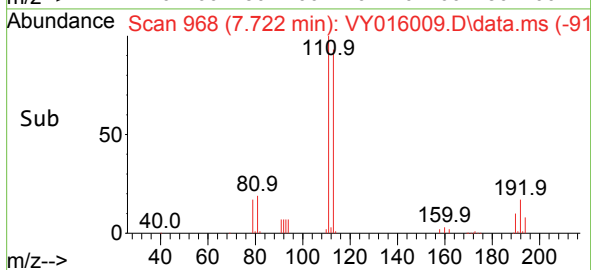
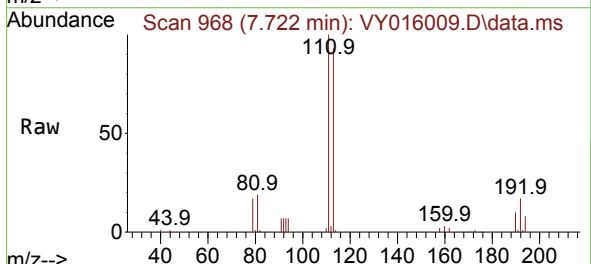
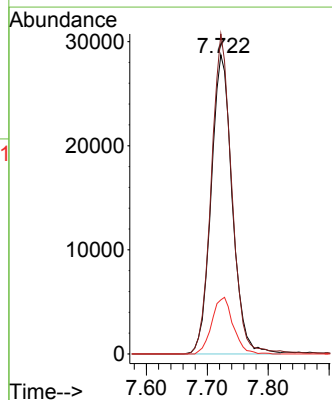
Tgt Ion:113 Resp: 69230

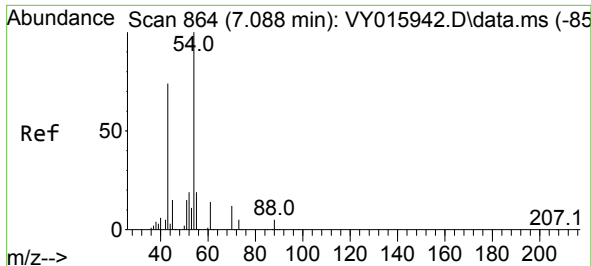
Ion Ratio Lower Upper

113 100

111 104.1 81.3 121.9

192 19.1 16.9 25.3





#37

Ethyl Acetate

Concen: 1.670 ug/l

RT: 7.015 min Scan# 81

Delta R.T. -0.073 min

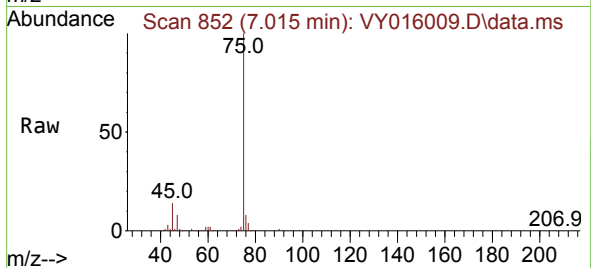
Lab File: VY016009.D

Acq: 17 Oct 2023 17:08

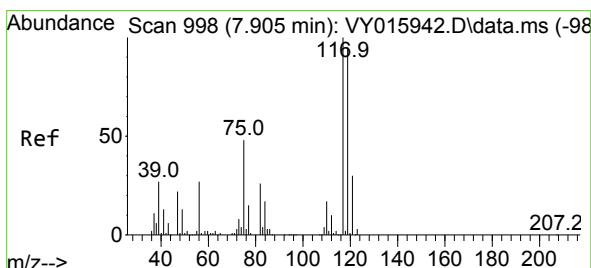
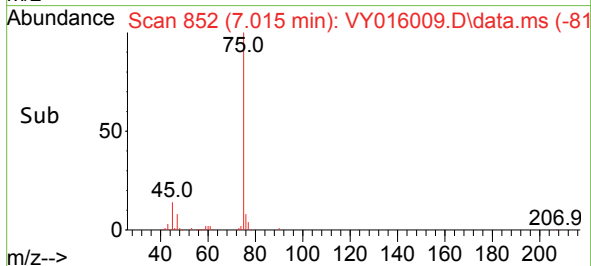
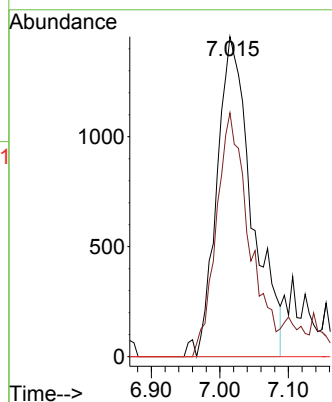
Instrument :

MSVOA\_Y

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5165  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 72.3  | 10.1  | 15.1# |
| 70       | 0.0   | 7.1   | 10.7# |



#38

Carbon Tetrachloride

Concen: 5.992 ug/l

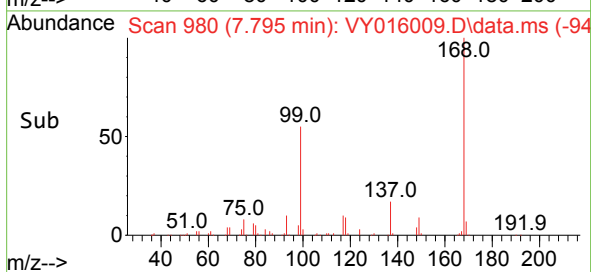
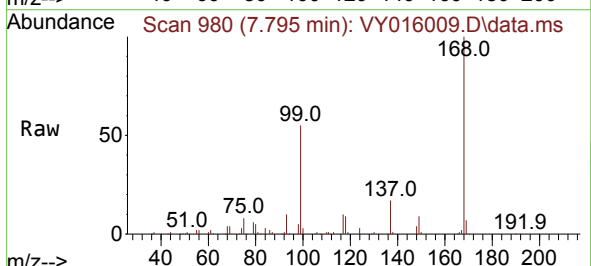
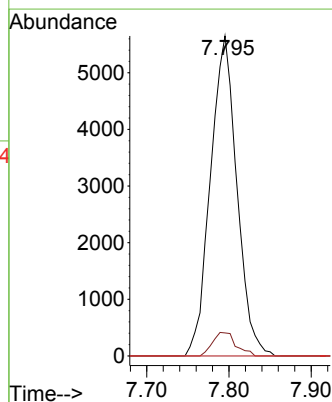
RT: 7.795 min Scan# 980

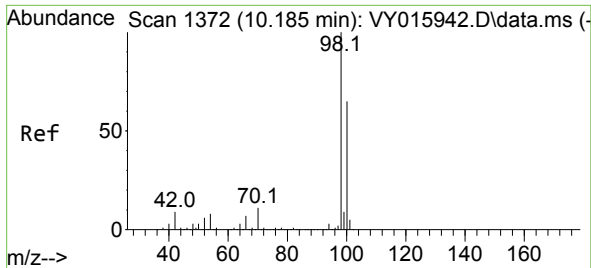
Delta R.T. -0.110 min

Lab File: VY016009.D

Acq: 17 Oct 2023 17:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 12650  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 7.2   | 76.4  | 114.6# |
| 121      | 0.0   | 25.8  | 38.6#  |

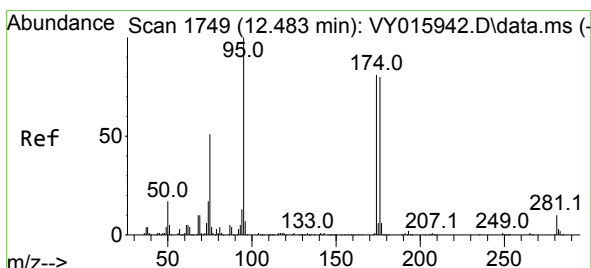
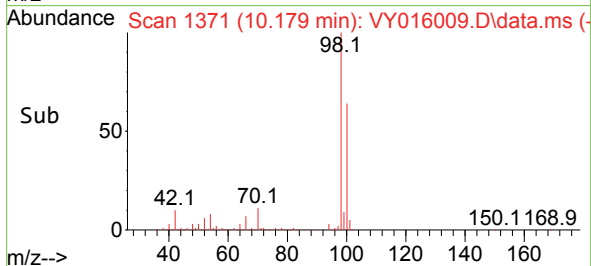
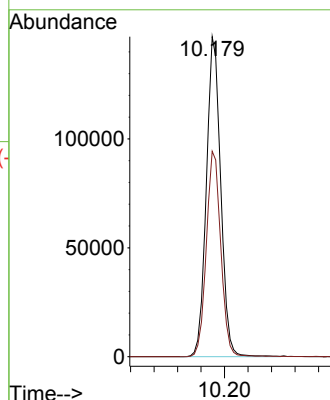
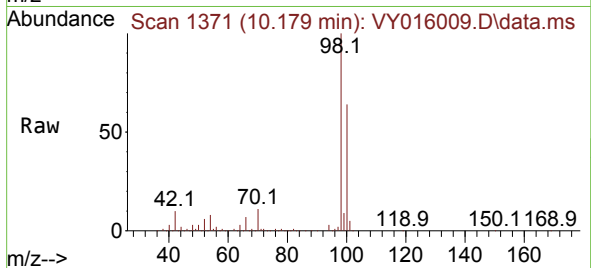




#50  
Toluene-d8  
Concen: 50.100 ug/l  
RT: 10.179 min Scan# 1372  
Delta R.T. -0.006 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

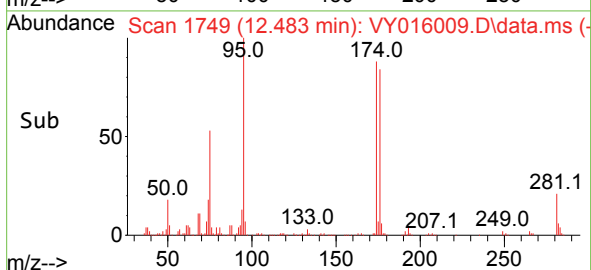
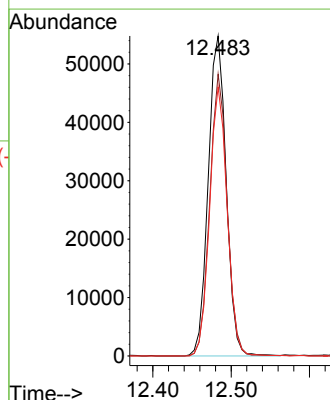
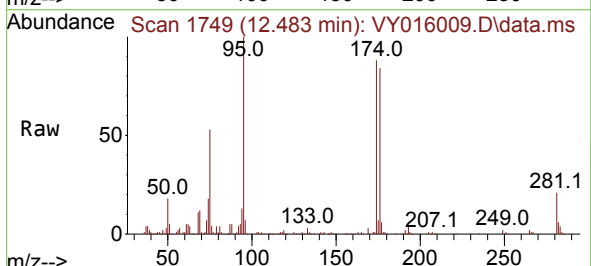
Instrument :  
MSVOA\_Y  
ClientSampleId :

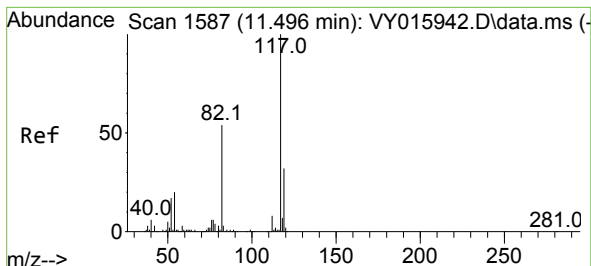
Tgt Ion: 98 Resp: 249262  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 49.219 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Tgt Ion: 95 Resp: 87197  
Ion Ratio Lower Upper  
95 100  
174 85.6 0.0 178.2  
176 82.1 0.0 173.8

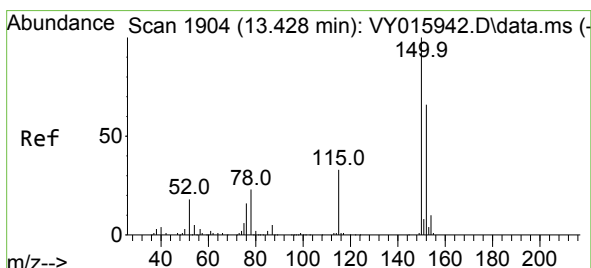
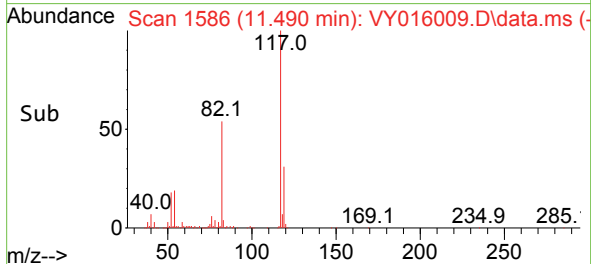
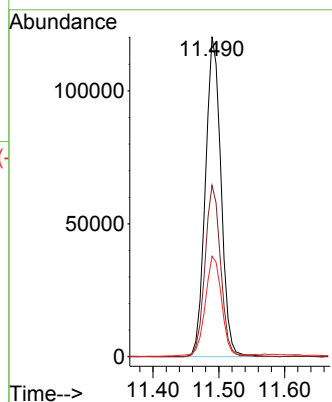
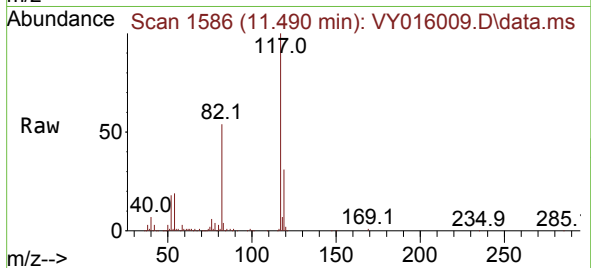




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

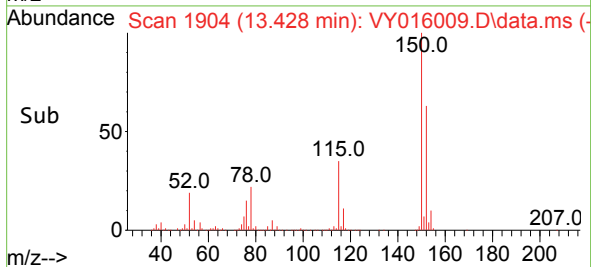
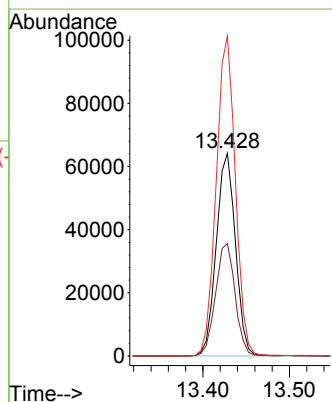
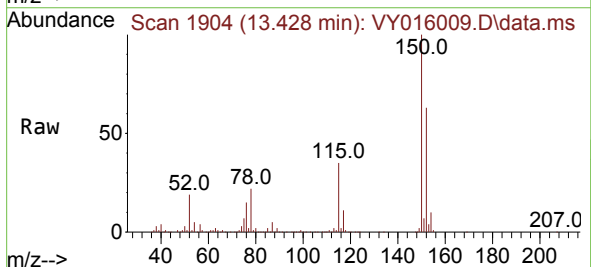
Instrument :  
MSVOA\_Y  
ClientSampleId :

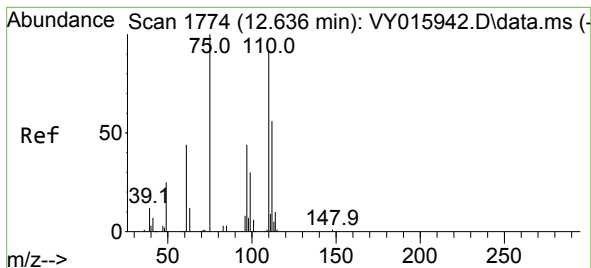
Tgt Ion:117 Resp: 198691  
Ion Ratio Lower Upper  
117 100  
82 53.6 43.4 65.0  
119 31.0 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Tgt Ion:152 Resp: 98671  
Ion Ratio Lower Upper  
152 100  
115 56.6 28.8 86.5  
150 157.7 0.0 348.8

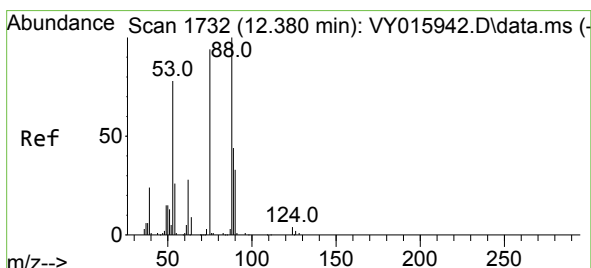
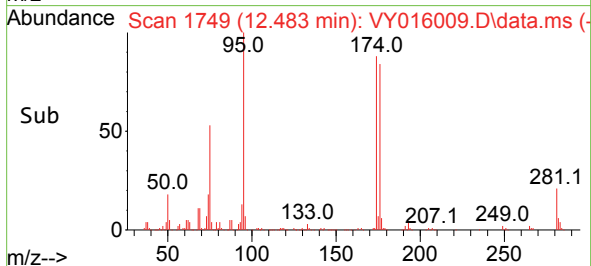
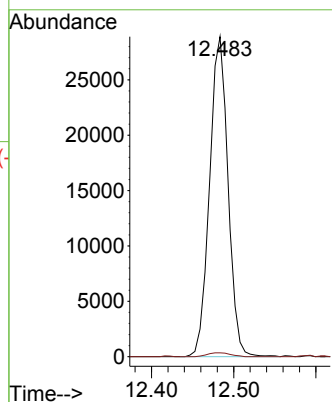
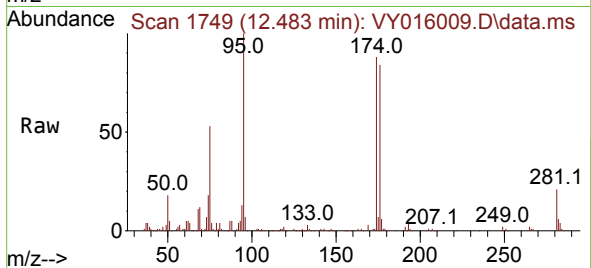




#76  
1,2,3-Trichloropropane  
Concen: 23.335 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

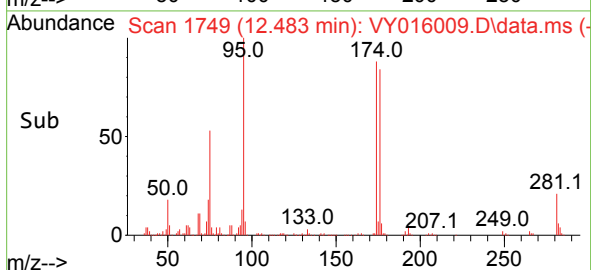
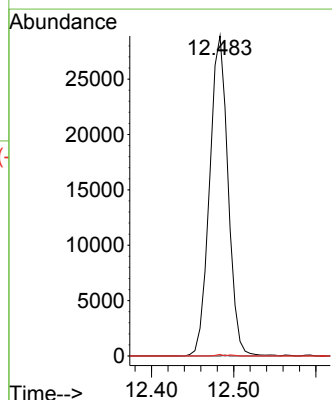
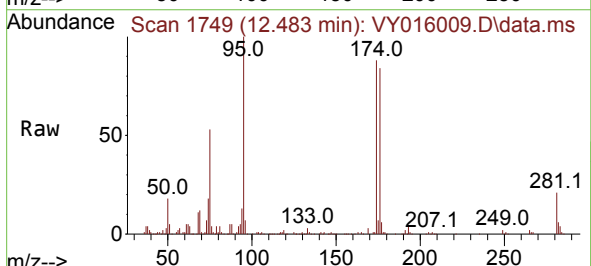
Instrument :  
MSVOA\_Y  
ClientSampleId :

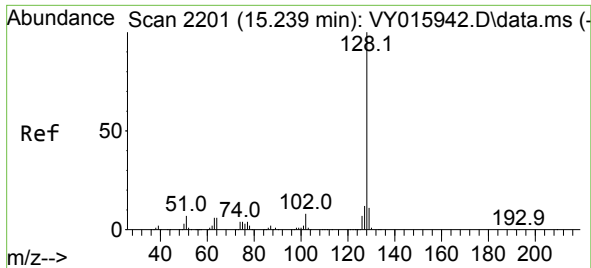
Tgt Ion: 75 Resp: 45060  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.970 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY016009.D  
Acq: 17 Oct 2023 17:08

Tgt Ion: 75 Resp: 45060  
Ion Ratio Lower Upper  
75 100  
53 0.1 77.8 116.8#  
89 0.3 37.4 56.0#





#95

Naphthalene

Concen: 2.959 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.006 min

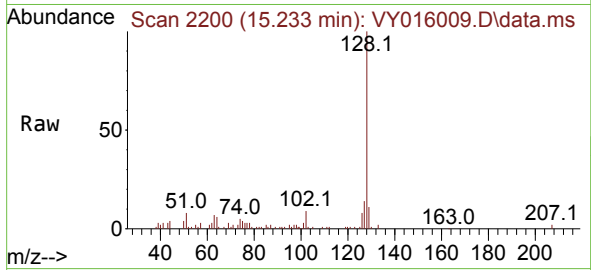
Lab File: VY016009.D

Acq: 17 Oct 2023 17:08

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion:128 Resp: 19937

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

129 10.8 8.6 13.0

