

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111623\  
 Data File : VY016396.D  
 Acq On : 16 Nov 2023 17:37  
 Operator : SY/MD  
 Sample : 05445-07  
 Misc : 4.47g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 17 04:09:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.795  | 168  | 97822    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 171714   | 50.000 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.496 | 117  | 168813   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 79318    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.143  | 65    | 62154    | 69.519   | ug/l | -0.01    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 139.040% |
| 35) Dibromofluoromethane    | 7.722  | 113   | 54867    | 56.248   | ug/l | -0.01    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 112.500% |
| 50) Toluene-d8              | 10.185 | 98    | 205467   | 51.943   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 103.880% |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 73147    | 56.936   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 113.880% |

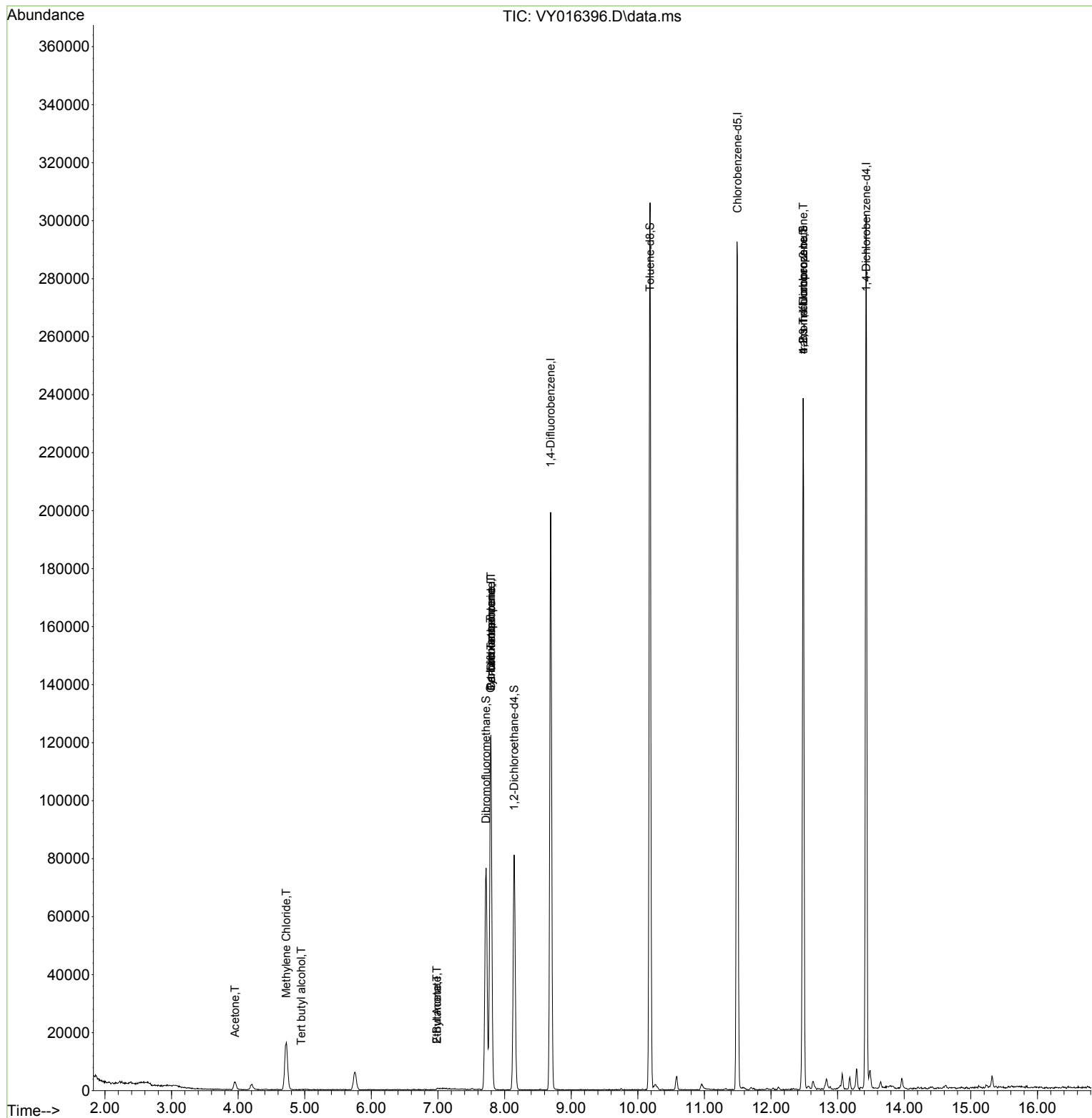
| Target Compounds              |        |     |       |         | Qvalue |     |
|-------------------------------|--------|-----|-------|---------|--------|-----|
| 11) Tert butyl alcohol        | 4.948  | 59  | 101   | 1.443   | ug/l # | 89  |
| 16) Acetone                   | 3.954  | 43  | 4792  | 32.403  | ug/l # | 77  |
| 20) Methylene Chloride        | 4.722  | 84  | 13373 | 10.017  | ug/l # | 86  |
| 25) 2-Butanone                | 6.984  | 43  | 736   | 2.841   | ug/l   | 91  |
| 31) Cyclohexane               | 7.789  | 56  | 1829  | 1.039   | ug/l # | 1   |
| 36) 1,1-Dichloropropene       | 7.795  | 75  | 7439  | 4.392   | ug/l # | 49  |
| 37) Ethyl Acetate             | 6.984  | 43  | 736   | 1.075   | ug/l # | 71  |
| 38) Carbon Tetrachloride      | 7.795  | 117 | 9949  | 5.660   | ug/l # | 15  |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75  | 36689 | 48.219  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75  | 36689 | 104.662 | ug/l # | 11  |

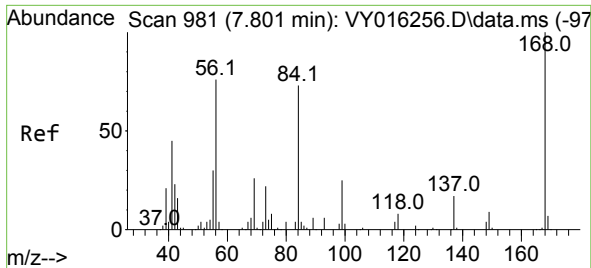
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 09 00:45:52 2023  
Response via : Initial Calibration

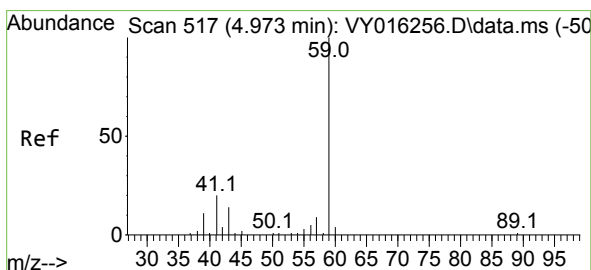
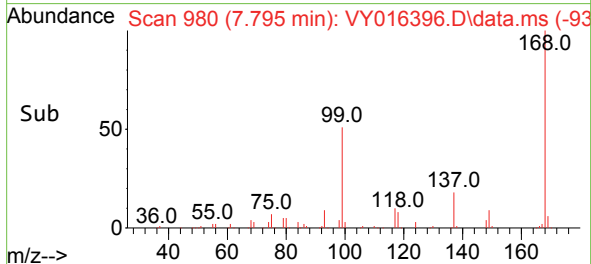
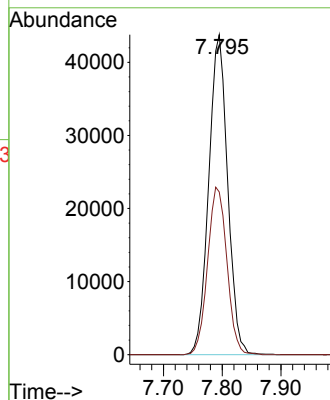
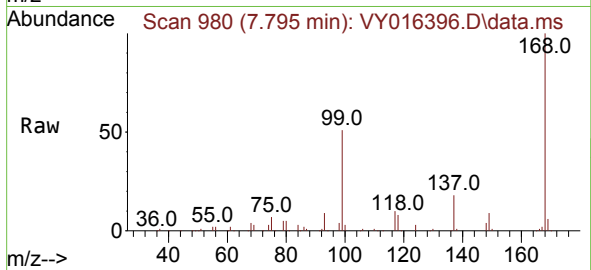




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

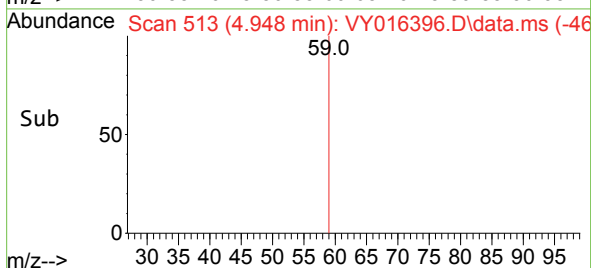
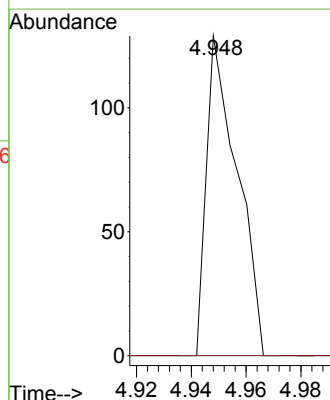
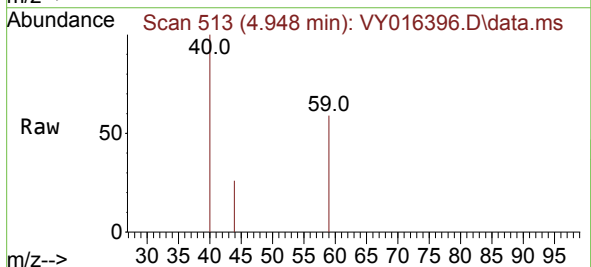
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MSVOA\_Y  
ClientSampleId :

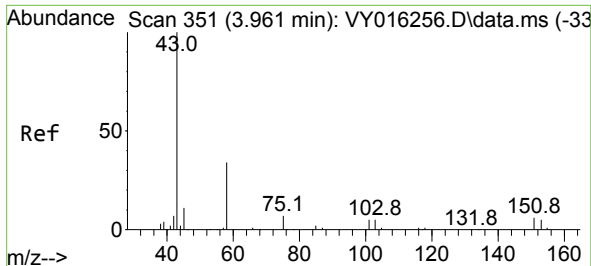
Tgt Ion:168 Resp: 97822  
Ion Ratio Lower Upper  
168 100  
99 50.8 43.4 65.0



#11  
Tert butyl alcohol  
Concen: 1.443 ug/l  
RT: 4.948 min Scan# 513  
Delta R.T. -0.024 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

Tgt Ion: 59 Resp: 101  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#





#16

Acetone

Concen: 32.403 ug/l

RT: 3.954 min Scan# 3

Delta R.T. -0.006 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

Instrument :

MSVOA\_Y

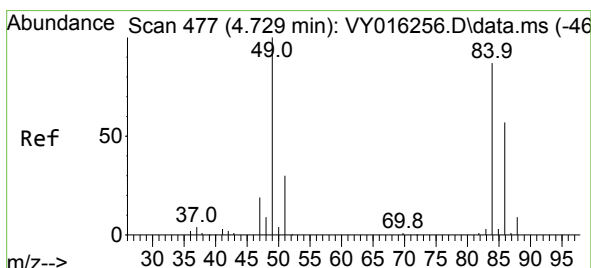
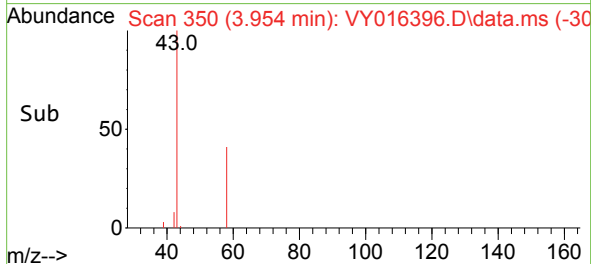
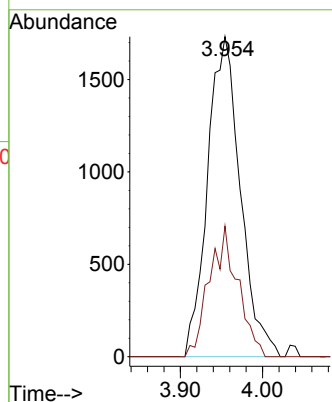
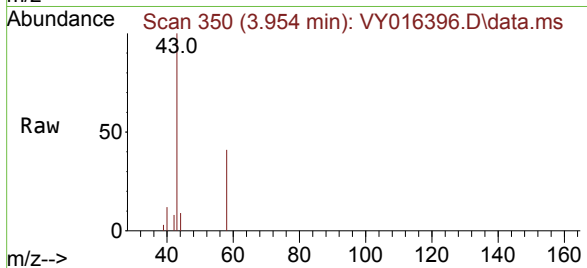
ClientSampleId :

Tgt Ion: 43 Resp: 4792

Ion Ratio Lower Upper

43 100

58 40.8 22.7 34.1#



#20

Methylene Chloride

Concen: 10.017 ug/l

RT: 4.722 min Scan# 476

Delta R.T. -0.007 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

Tgt Ion: 84 Resp: 13373

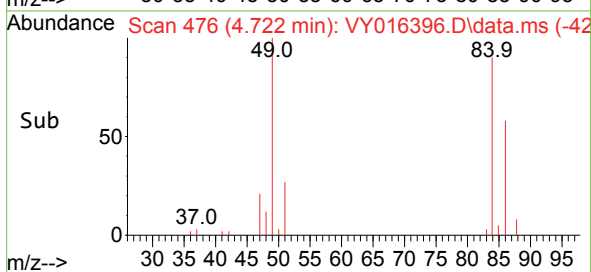
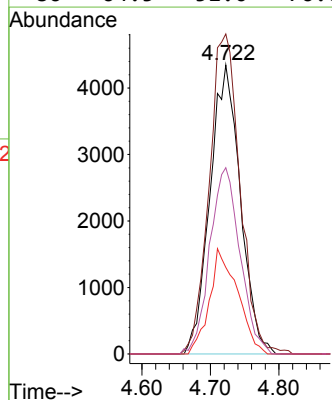
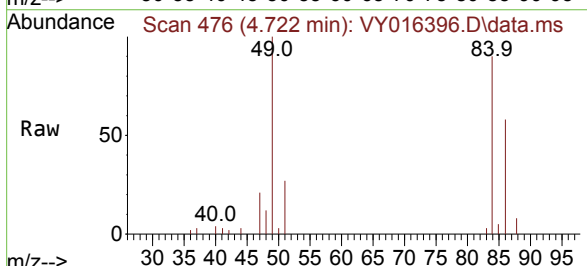
Ion Ratio Lower Upper

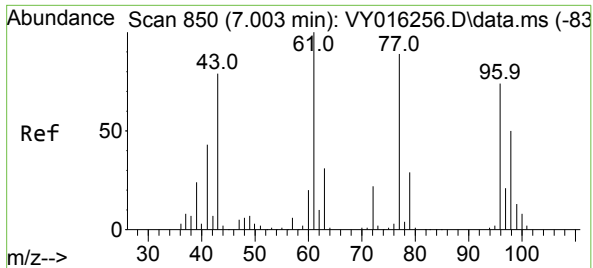
84 100

49 110.7 106.9 160.3

51 30.0 33.2 49.8#

86 64.5 51.0 76.6

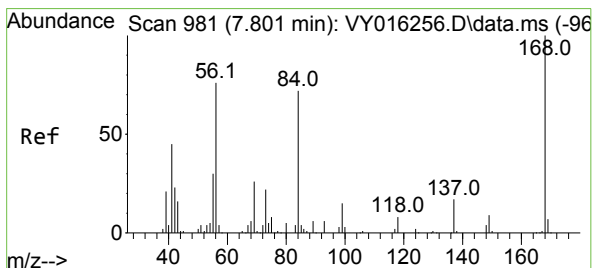
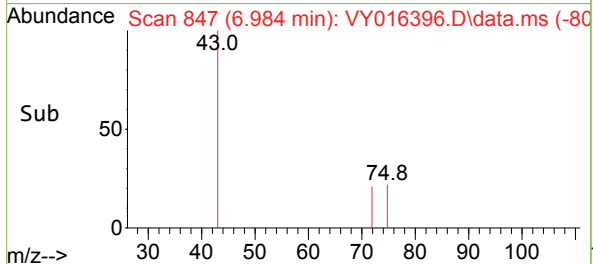
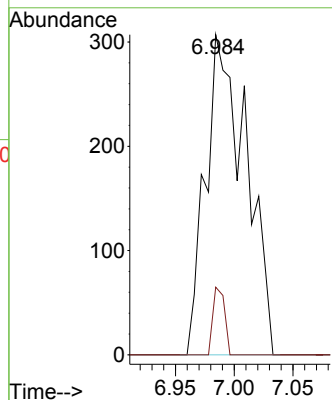
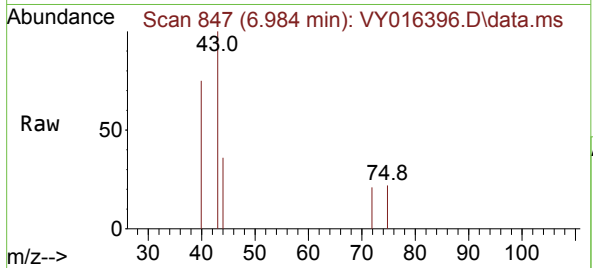




#25  
2-Butanone  
Concen: 2.841 ug/l  
RT: 6.984 min Scan# 84  
Delta R.T. -0.018 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

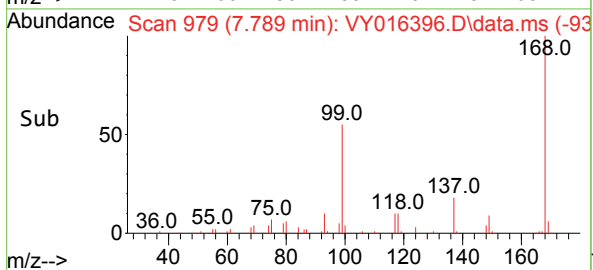
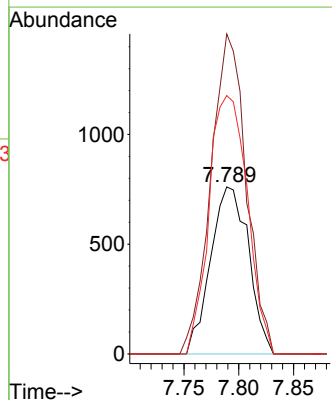
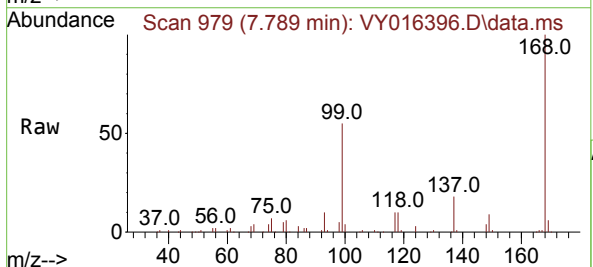
Instrument :  
MSVOA\_Y  
ClientSampleId :

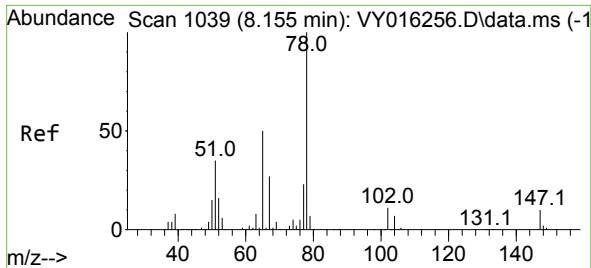
Tgt Ion: 43 Resp: 736  
Ion Ratio Lower Upper  
43 100  
72 21.2 20.5 30.7



#31  
Cyclohexane  
Concen: 1.039 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.012 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

Tgt Ion: 56 Resp: 1829  
Ion Ratio Lower Upper  
56 100  
69 191.6 27.8 41.6#  
84 154.7 66.4 99.6#

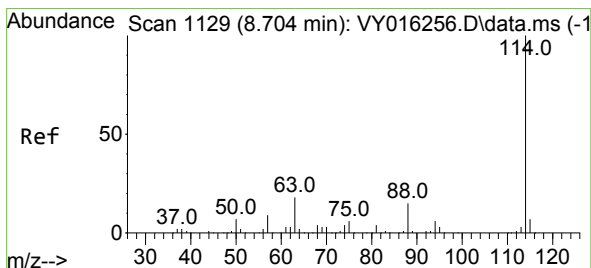
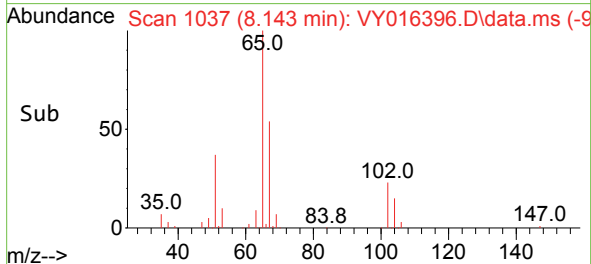
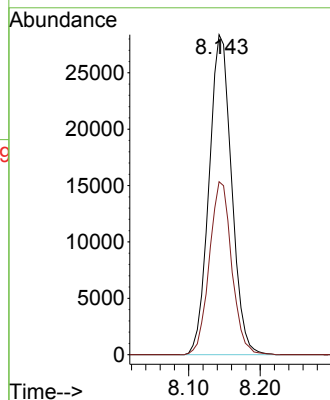
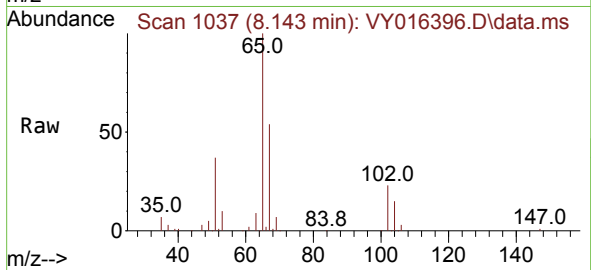




#33  
1,2-Dichloroethane-d4  
Concen: 69.519 ug/l  
RT: 8.143 min Scan# 110  
Delta R.T. -0.012 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

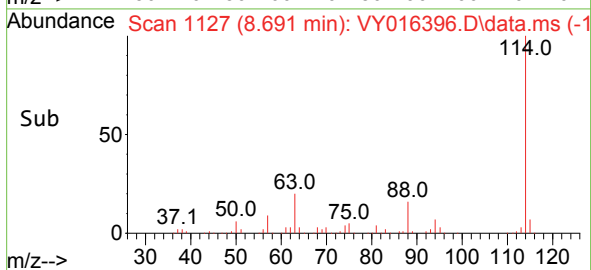
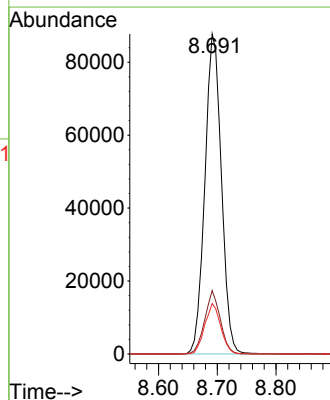
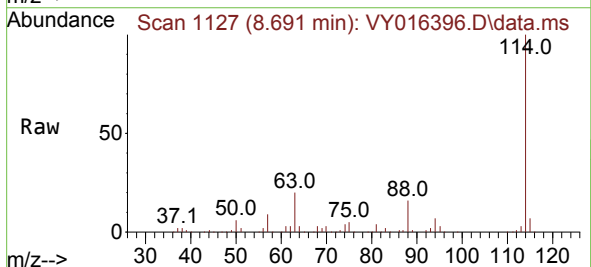
Instrument :  
MSVOA\_Y  
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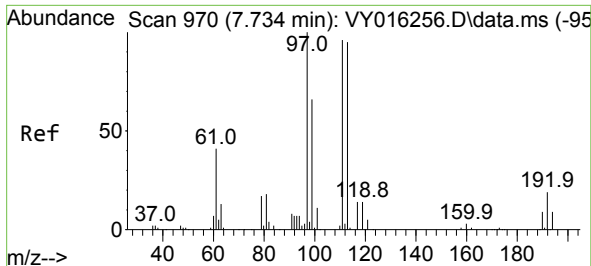
Tgt Ion: 65 Resp: 62154  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. -0.012 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

Tgt Ion:114 Resp: 171714  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 42.4  
88 15.8 0.0 30.6

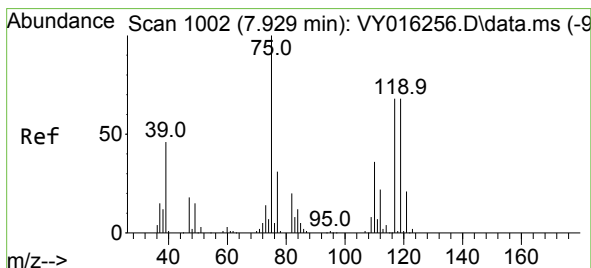
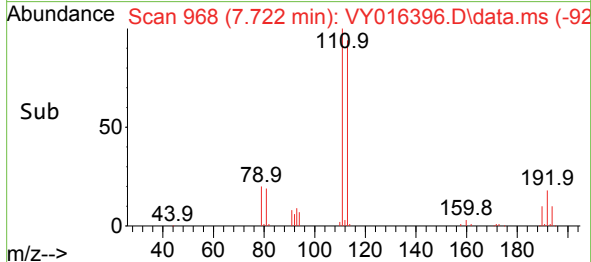
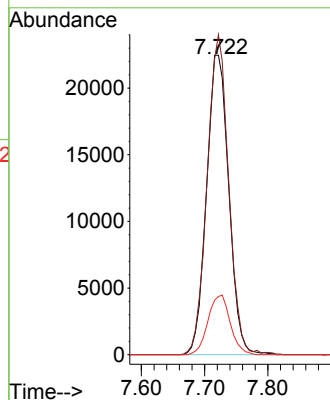
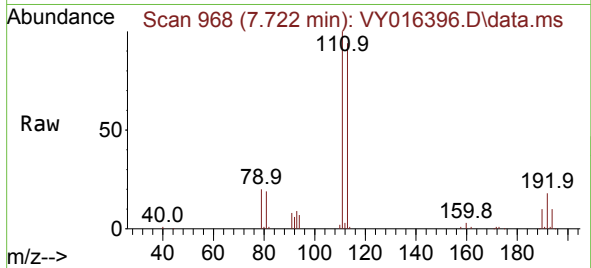




#35  
Dibromofluoromethane  
Concen: 56.248 ug/l  
RT: 7.722 min Scan# 90  
Delta R.T. -0.012 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

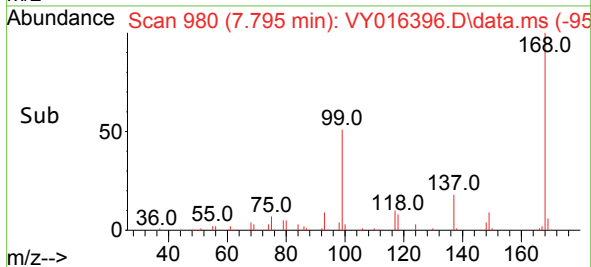
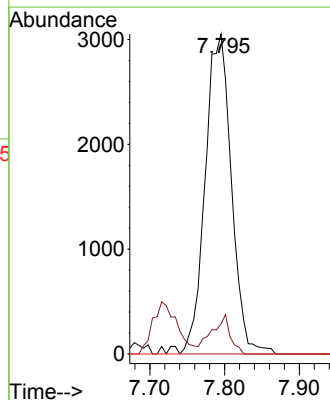
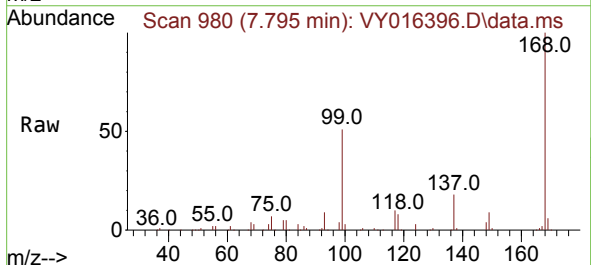
Instrument :  
MSVOA\_Y  
ClientSampleId :

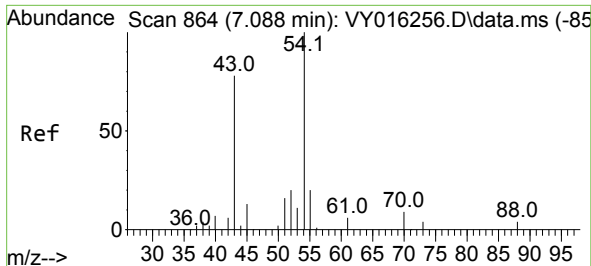
Tgt Ion:113 Resp: 54867  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.3 121.9  
192 19.9 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.392 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.134 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

Tgt Ion: 75 Resp: 7439  
Ion Ratio Lower Upper  
75 100  
110 8.6 17.8 53.5#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.075 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.104 min

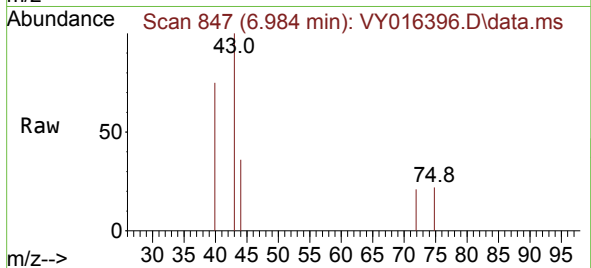
Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

Instrument :

MSVOA\_Y

ClientSampleId :



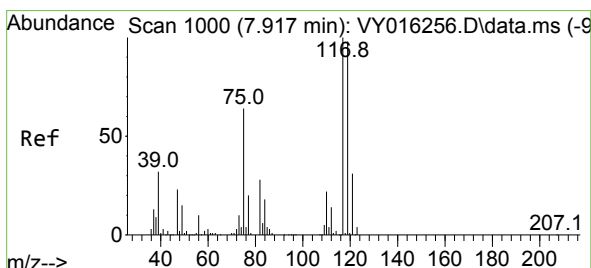
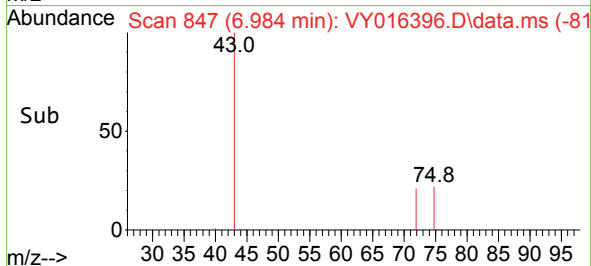
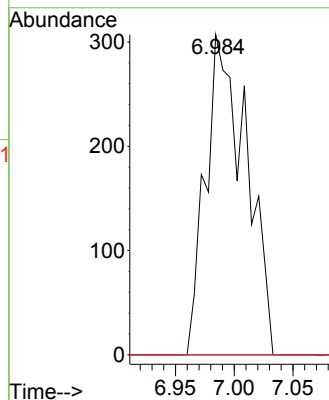
Tgt Ion: 43 Resp: 736

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.660 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.122 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

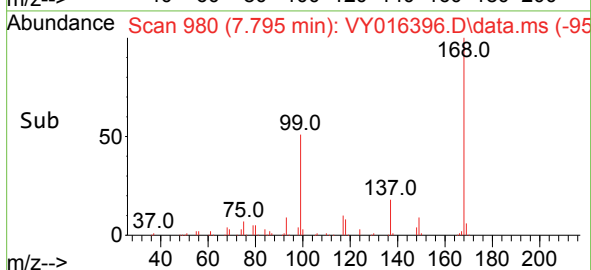
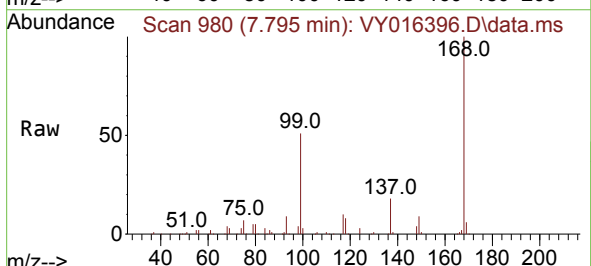
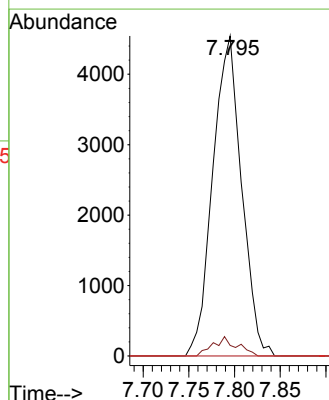
Tgt Ion: 117 Resp: 9949

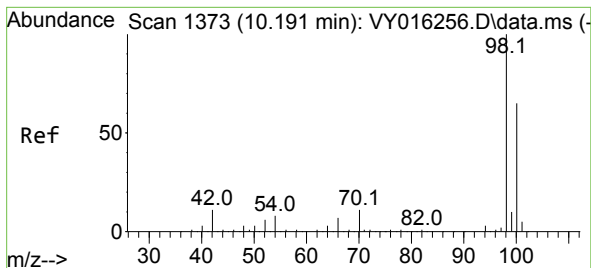
Ion Ratio Lower Upper

117 100

119 3.3 76.4 114.6#

121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 51.943 ug/l

RT: 10.185 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

Instrument :

MSVOA\_Y

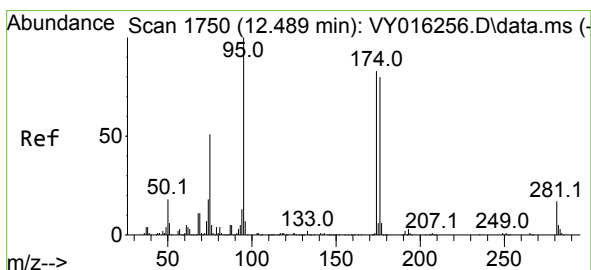
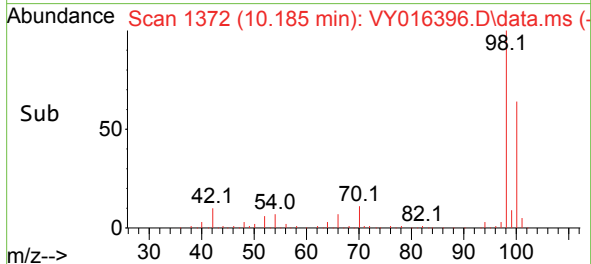
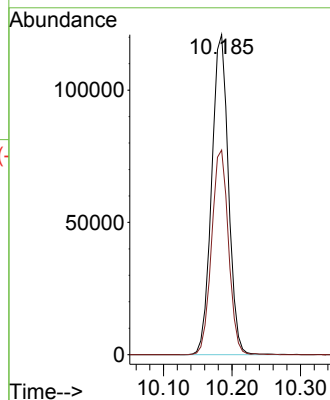
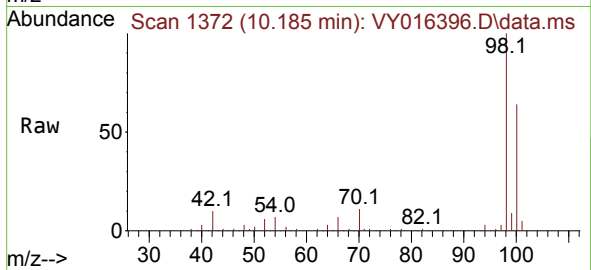
ClientSampleId :

Tgt Ion: 98 Resp: 205467

Ion Ratio Lower Upper

98 100

100 64.5 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 56.936 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.006 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

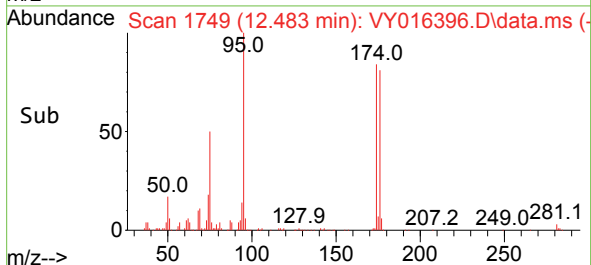
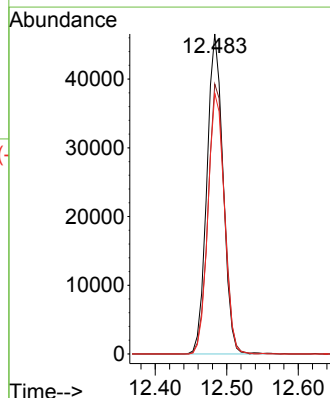
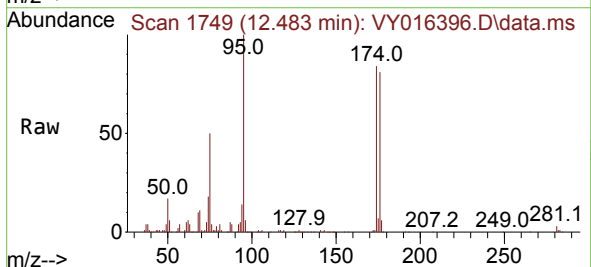
Tgt Ion: 95 Resp: 73147

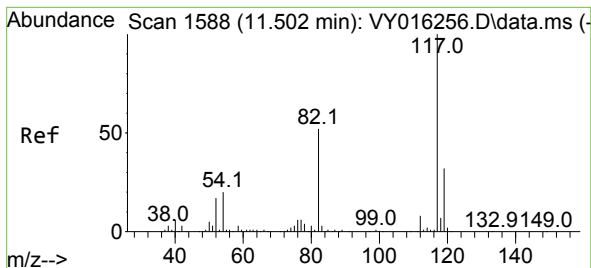
Ion Ratio Lower Upper

95 100

174 85.7 0.0 178.2

176 82.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

Instrument :

MSVOA\_Y

ClientSampleId :

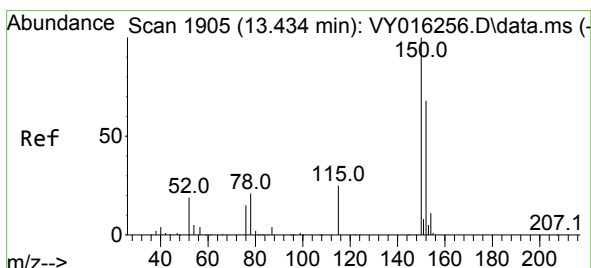
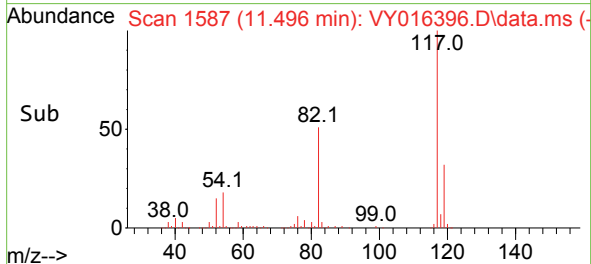
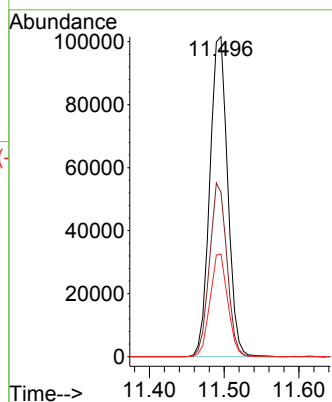
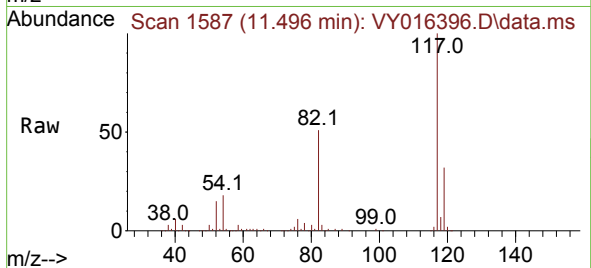
Tgt Ion:117 Resp: 168813

Ion Ratio Lower Upper

117 100

82 51.3 43.4 65.0

119 32.1 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.006 min

Lab File: VY016396.D

Acq: 16 Nov 2023 17:37

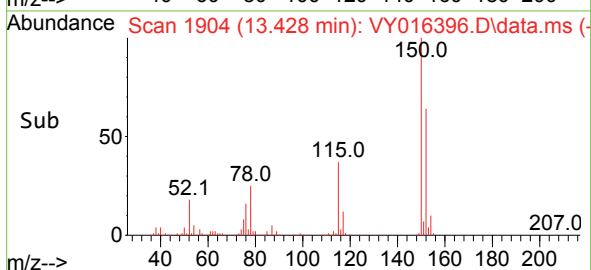
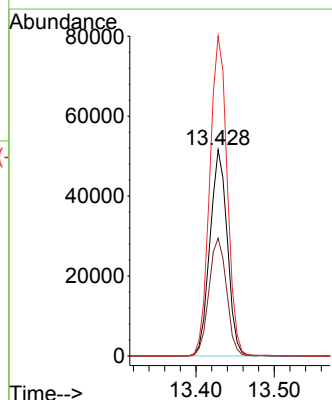
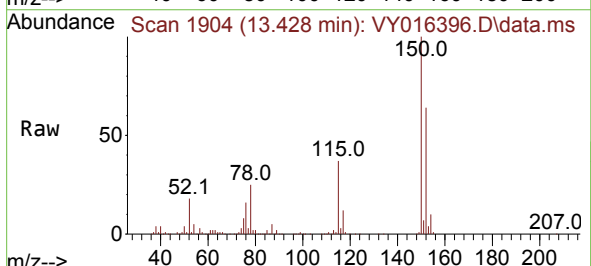
Tgt Ion:152 Resp: 79318

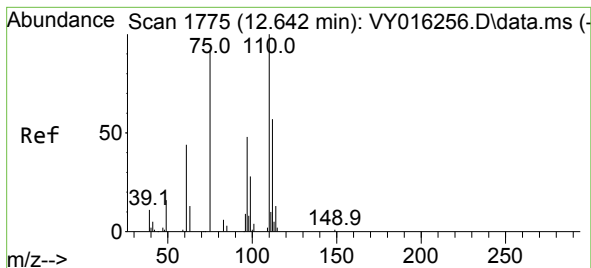
Ion Ratio Lower Upper

152 100

115 57.9 28.8 86.5

150 156.1 0.0 348.8

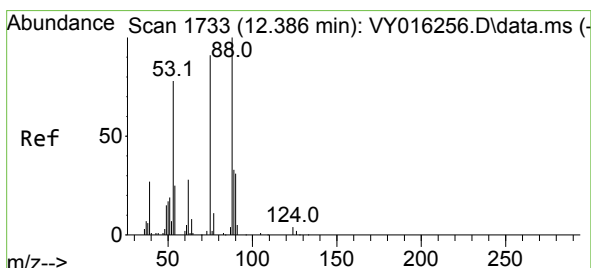
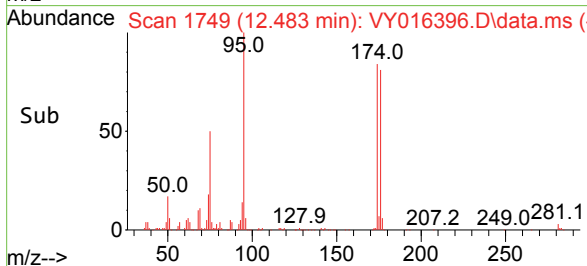
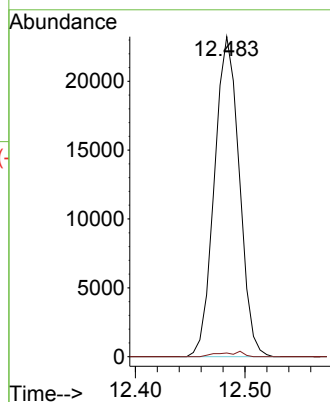
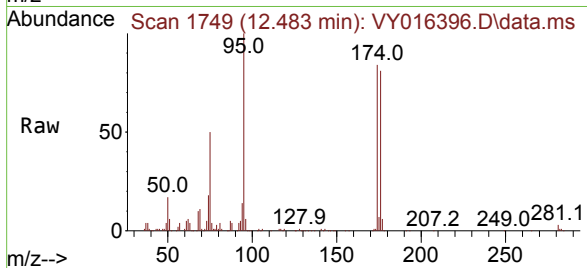




#76  
1,2,3-Trichloropropane  
Concen: 48.219 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.159 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 36689  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.662 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.097 min  
Lab File: VY016396.D  
Acq: 16 Nov 2023 17:37

Tgt Ion: 75 Resp: 36689  
Ion Ratio Lower Upper  
75 100  
53 0.3 77.8 116.8#  
89 0.0 37.4 56.0#

