

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103023\  
 Data File : VY016132.D  
 Acq On : 30 Oct 2023 14:37  
 Operator : SY/MD  
 Sample : 05108-02  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 31 01:30:20 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 27 04:12:29 2023  
 Response via : Initial Calibration

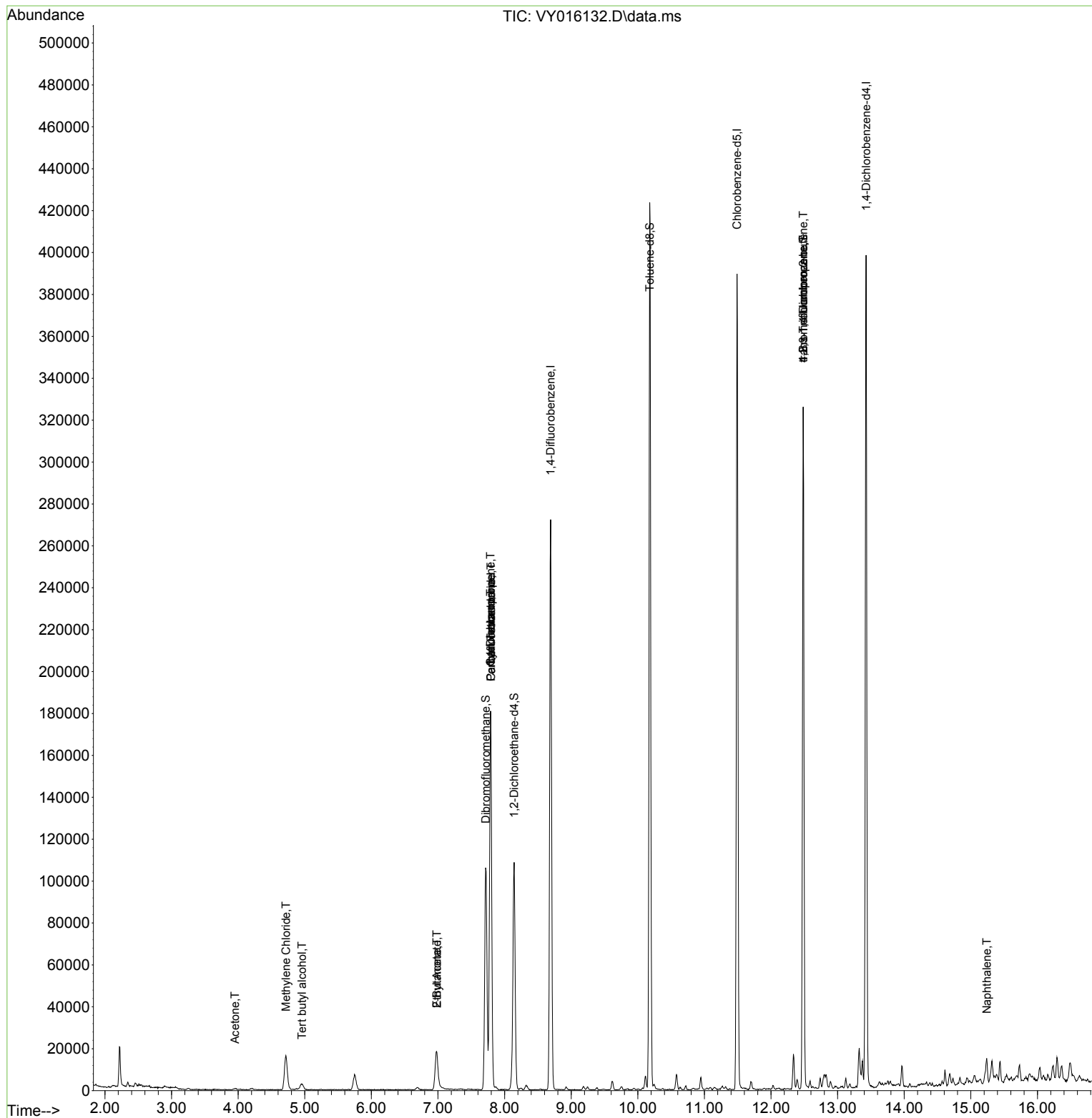
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 143126   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 238828   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 216014   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 104123   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 82052    | 57.654   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 115.300% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 77071    | 51.118   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 102.240% |          |
| 50) Toluene-d8                | 10.179 | 98    | 281873   | 50.471   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 100.940% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 96429    | 50.335   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 100.680% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.960  | 59    | 6093     | 8.400    | ug/l #     | 97       |
| 16) Acetone                   | 3.954  | 43    | 1064     | 2.758    | ug/l #     | 29       |
| 20) Methylene Chloride        | 4.716  | 84    | 12369    | 2.719    | ug/l       | 91       |
| 25) 2-Butanone                | 6.984  | 43    | 2410     | 4.629    | ug/l       | 96       |
| 31) Cyclohexane               | 7.789  | 56    | 2921     | 1.305    | ug/l #     | 4        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 10620    | 5.053    | ug/l #     | 49       |
| 37) Ethyl Acetate             | 6.984  | 43    | 2410     | 2.237    | ug/l #     | 57       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 13924    | 6.265    | ug/l #     | 16       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 50600    | 47.599   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 50600    | 103.437  | ug/l #     | 11       |
| 95) Naphthalene               | 15.239 | 128   | 9686     | 2.626    | ug/l       | 98       |
| -----                         |        |       |          |          |            |          |

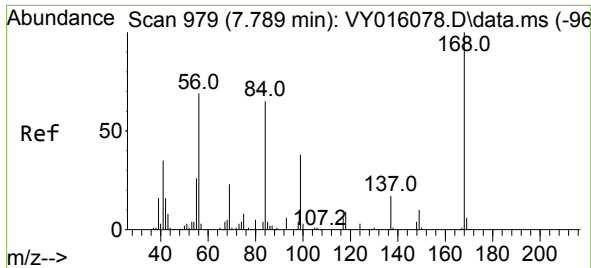
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 27 04:12:29 2023  
Response via : Initial Calibration

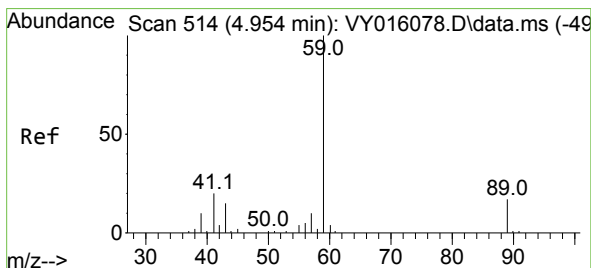
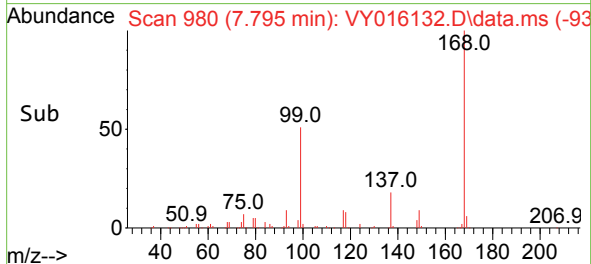
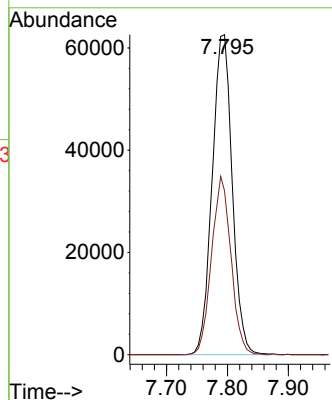
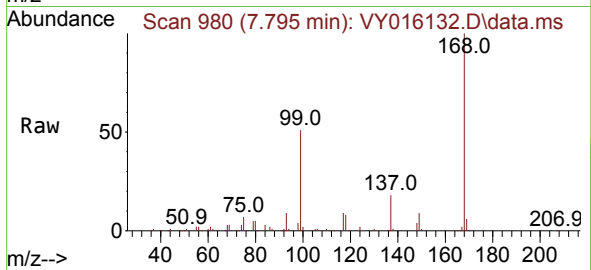




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY016132.D  
Acq: 30 Oct 2023 14:37

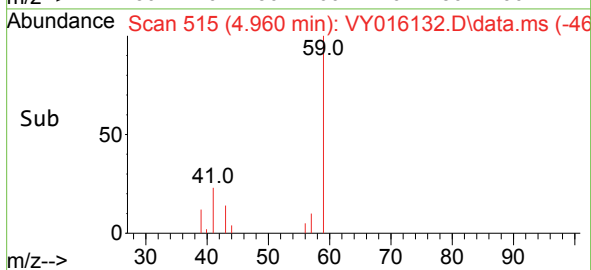
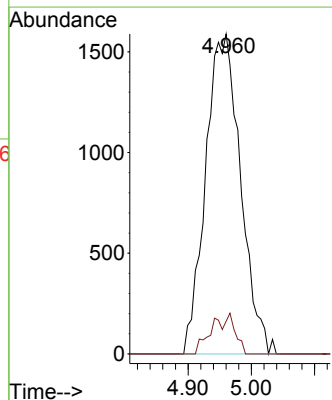
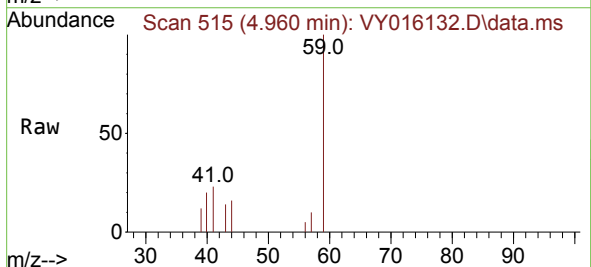
Instrument :  
MSVOA\_Y  
ClientSampleId :

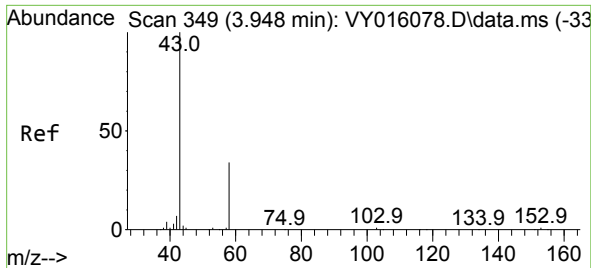
Tgt Ion:168 Resp: 143126  
Ion Ratio Lower Upper  
168 100  
99 51.3 43.4 65.0



#11  
Tert butyl alcohol  
Concen: 8.400 ug/l  
RT: 4.960 min Scan# 515  
Delta R.T. 0.006 min  
Lab File: VY016132.D  
Acq: 30 Oct 2023 14:37

Tgt Ion: 59 Resp: 6093  
Ion Ratio Lower Upper  
59 100  
57 4.7 3.0 4.4#





#16

Acetone

Concen: 2.758 ug/l

RT: 3.954 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

Instrument :

MSVOA\_Y

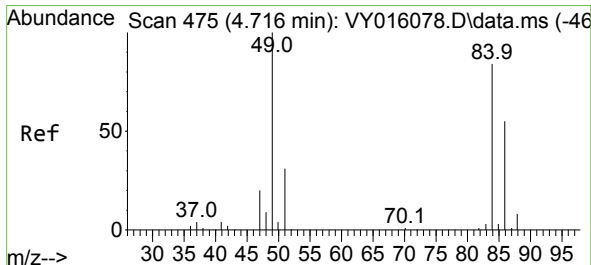
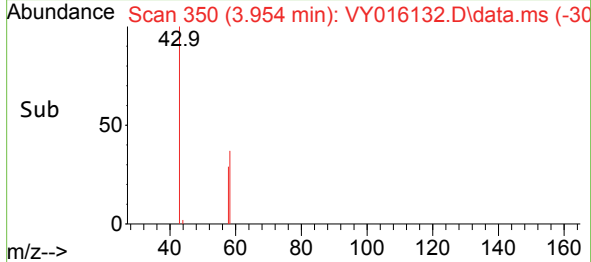
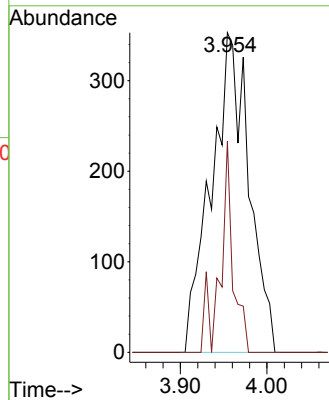
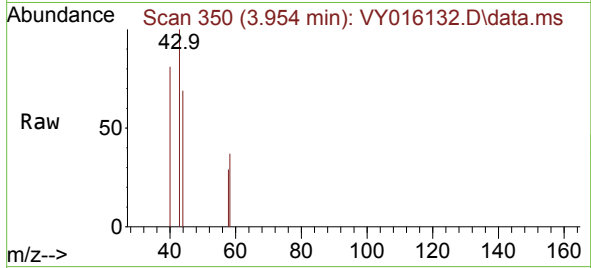
ClientSampleId :

Tgt Ion: 43 Resp: 1064

Ion Ratio Lower Upper

43 100

58 66.0 22.7 34.1#



#20

Methylene Chloride

Concen: 2.719 ug/l

RT: 4.716 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

Tgt Ion: 84 Resp: 12369

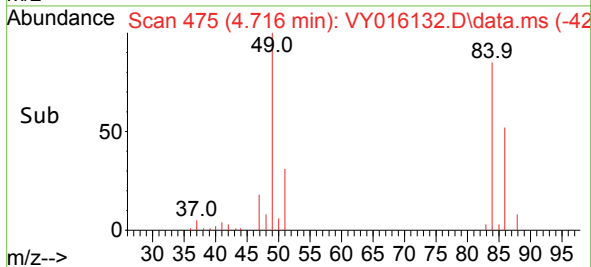
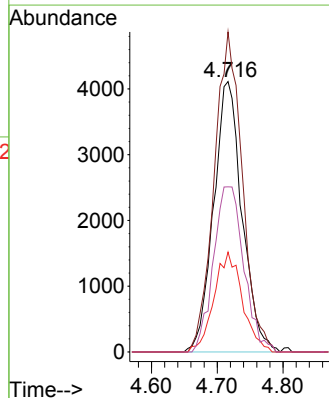
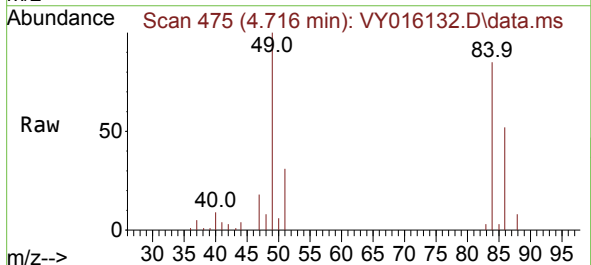
Ion Ratio Lower Upper

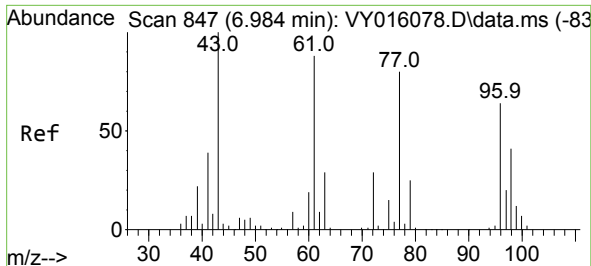
84 100

49 118.3 106.9 160.3

51 36.9 33.2 49.8

86 61.1 51.0 76.6





#25

2-Butanone

Concen: 4.629 ug/l

RT: 6.984 min Scan# 847

Delta R.T. -0.000 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

Instrument :

MSVOA\_Y

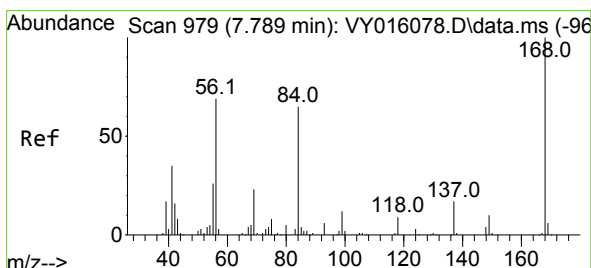
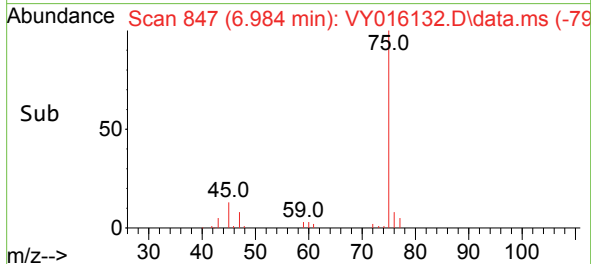
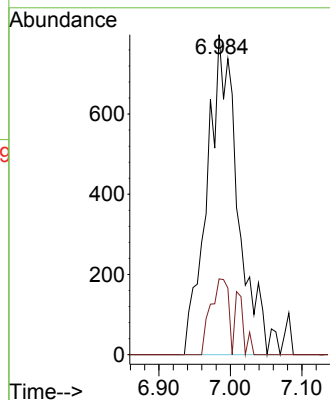
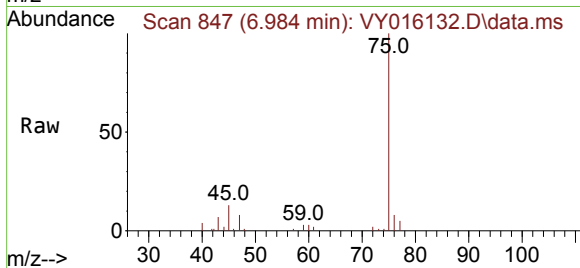
ClientSampleId :

Tgt Ion: 43 Resp: 2410

Ion Ratio Lower Upper

43 100

72 23.7 20.5 30.7



#31

Cyclohexane

Concen: 1.305 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.000 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

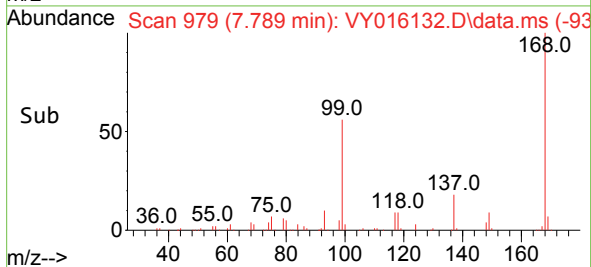
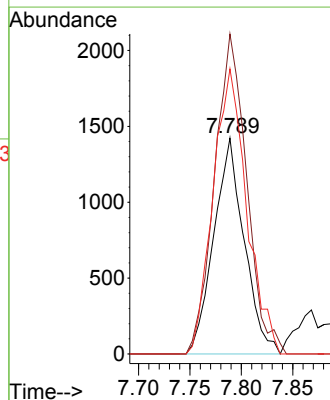
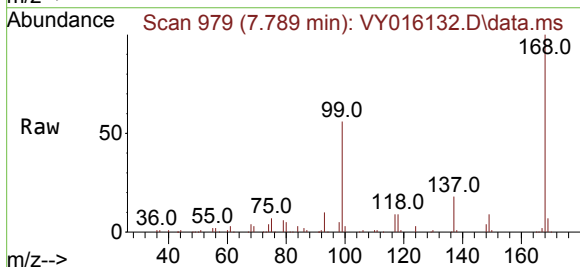
Tgt Ion: 56 Resp: 2921

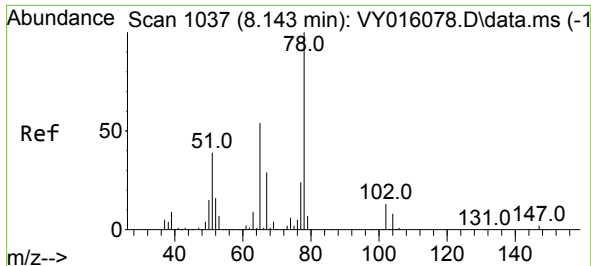
Ion Ratio Lower Upper

56 100

69 148.2 27.8 41.6#

84 132.0 66.4 99.6#

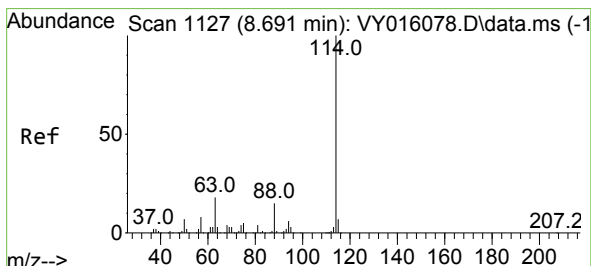
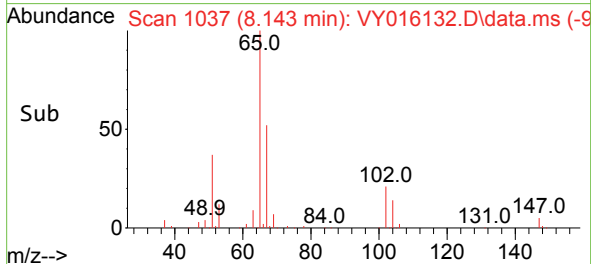
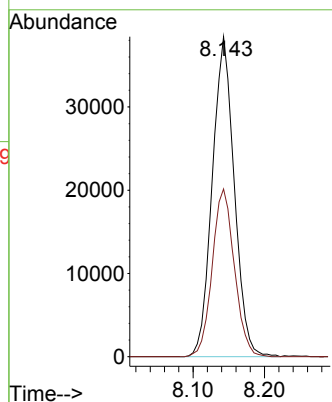
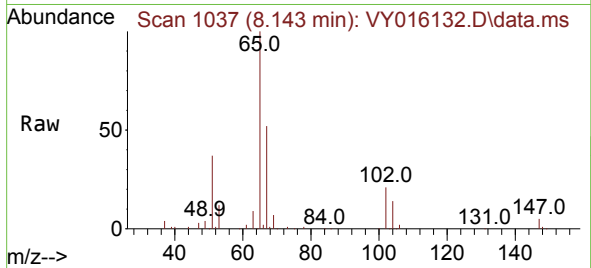




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.654 ug/l  
 RT: 8.143 min Scan# 1037  
 Delta R.T. -0.000 min  
 Lab File: VY016132.D  
 Acq: 30 Oct 2023 14:37

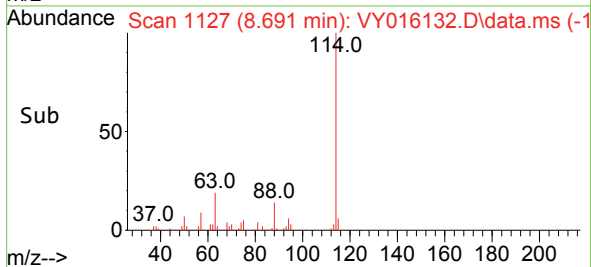
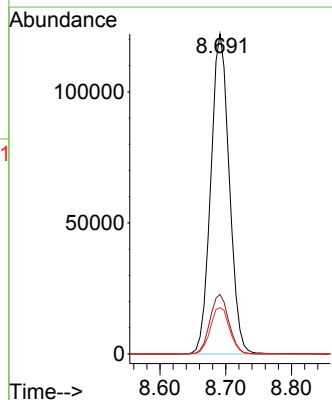
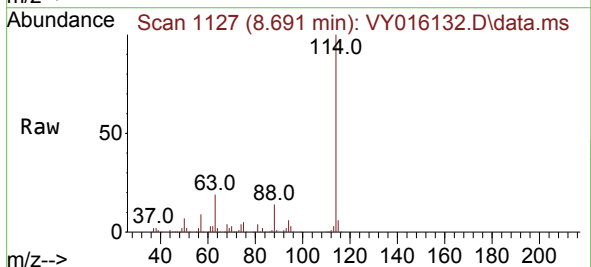
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

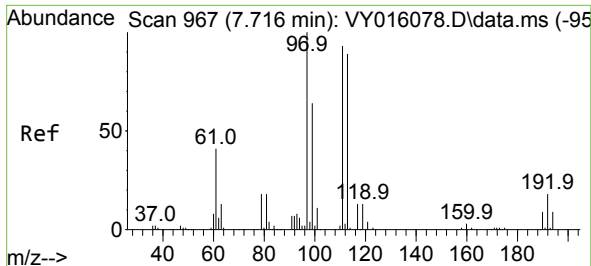
Tgt Ion: 65 Resp: 82052  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.691 min Scan# 1127  
 Delta R.T. -0.000 min  
 Lab File: VY016132.D  
 Acq: 30 Oct 2023 14:37

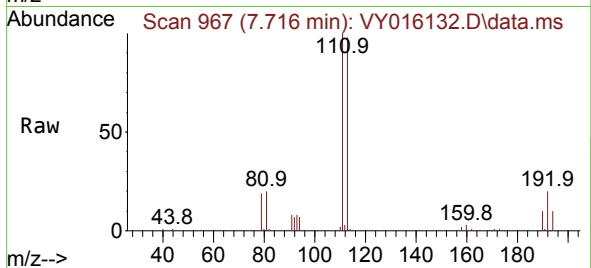
Tgt Ion: 114 Resp: 238828  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 42.4  
 88 14.4 0.0 30.6



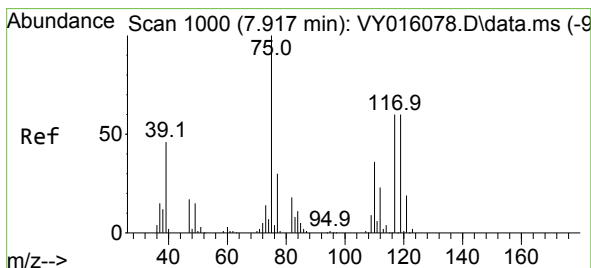
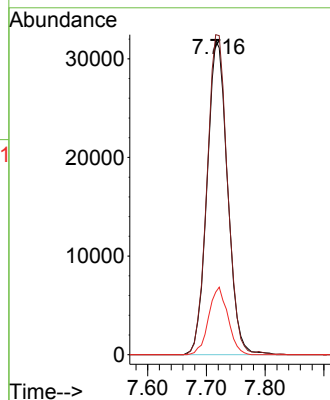
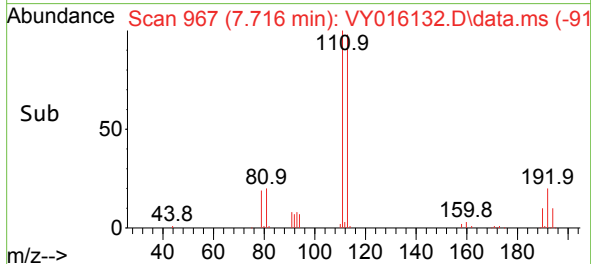


#35  
Dibromofluoromethane  
Concen: 51.118 ug/l  
RT: 7.716 min Scan# 910  
Delta R.T. -0.000 min  
Lab File: VY016132.D  
Acq: 30 Oct 2023 14:37

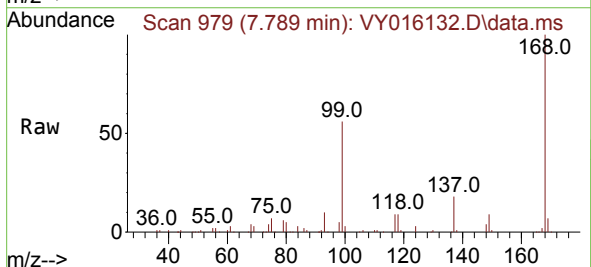
Instrument :  
MSVOA\_Y  
ClientSampleId :



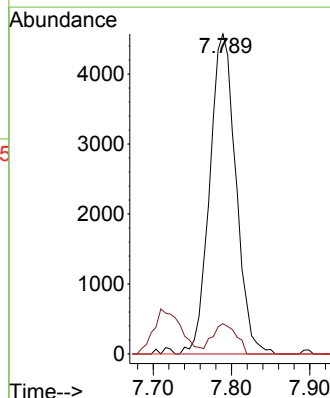
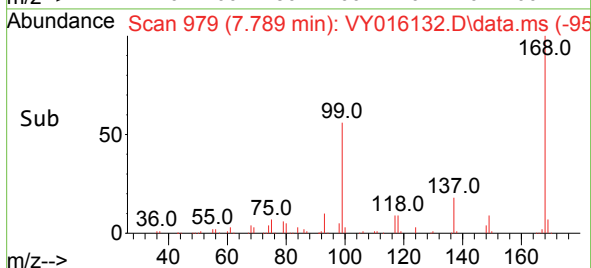
Tgt Ion:113 Resp: 77071  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.3 121.9  
192 20.3 16.9 25.3

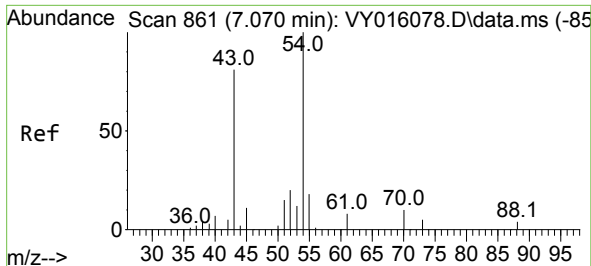


#36  
1,1-Dichloropropene  
Concen: 5.053 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY016132.D  
Acq: 30 Oct 2023 14:37



Tgt Ion: 75 Resp: 10620  
Ion Ratio Lower Upper  
75 100  
110 8.5 17.8 53.5#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.237 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.085 min

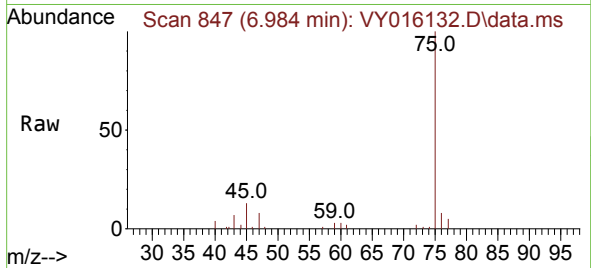
Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

Instrument :

MSVOA\_Y

ClientSampleId :



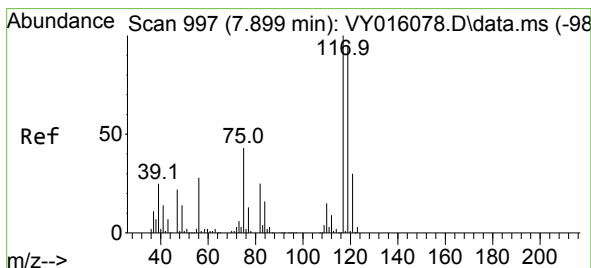
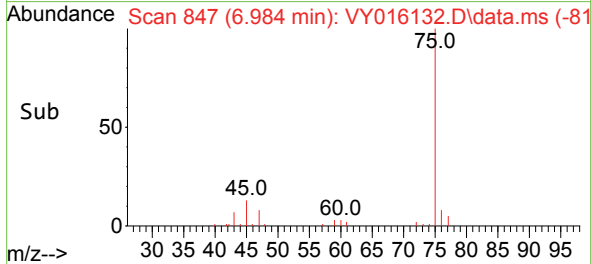
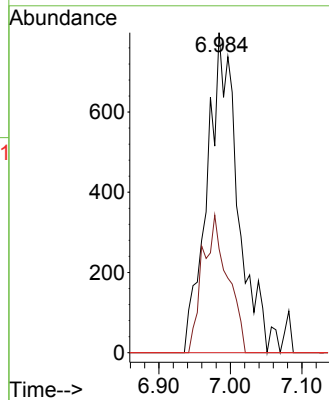
Tgt Ion: 43 Resp: 2410

Ion Ratio Lower Upper

43 100

61 34.6 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.265 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.104 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

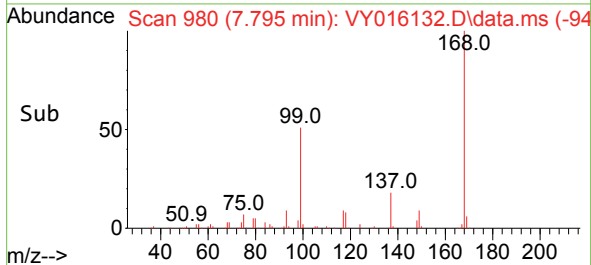
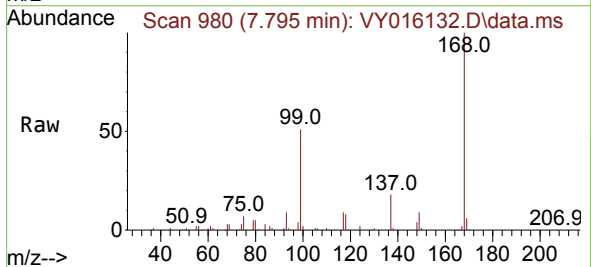
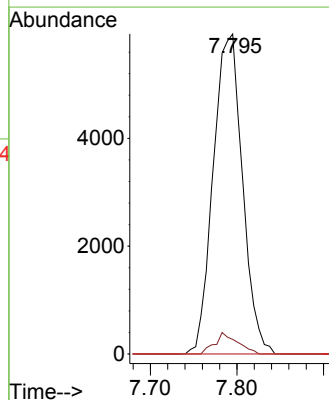
Tgt Ion: 117 Resp: 13924

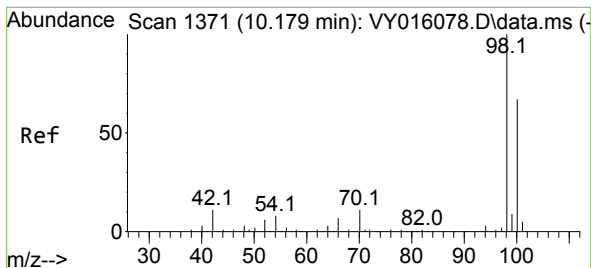
Ion Ratio Lower Upper

117 100

119 4.5 76.4 114.6#

121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 50.471 ug/l

RT: 10.179 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

Instrument :

MSVOA\_Y

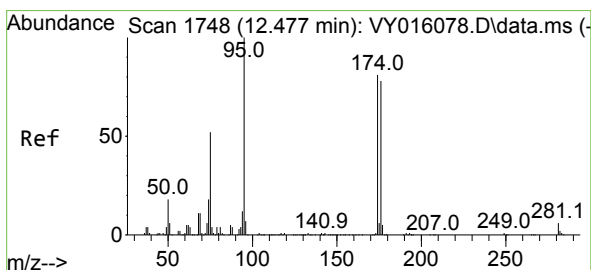
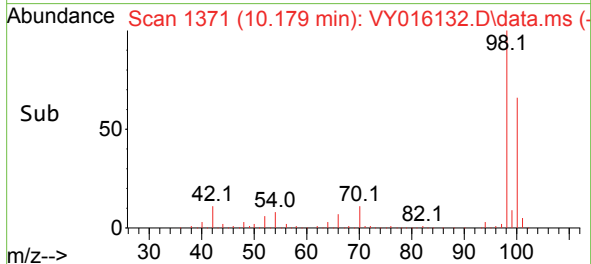
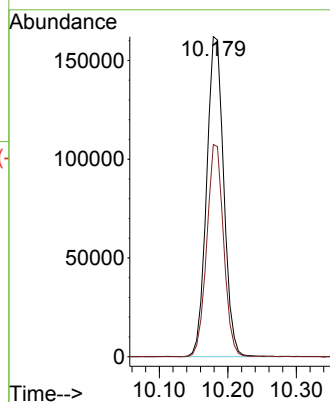
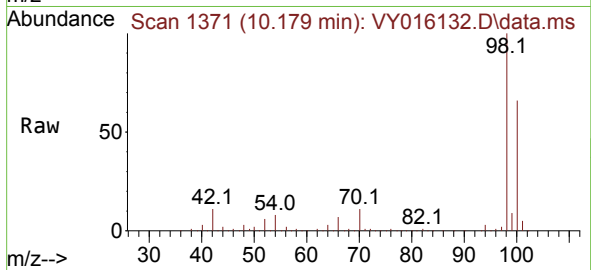
ClientSampleId :

Tgt Ion: 98 Resp: 281873

Ion Ratio Lower Upper

98 100

100 65.3 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 50.335 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

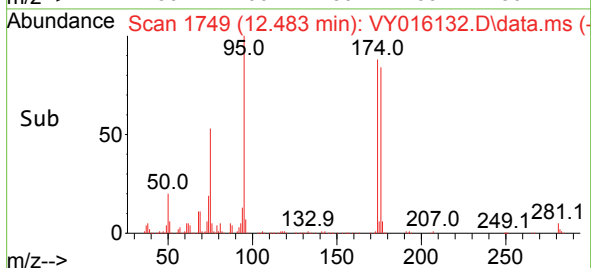
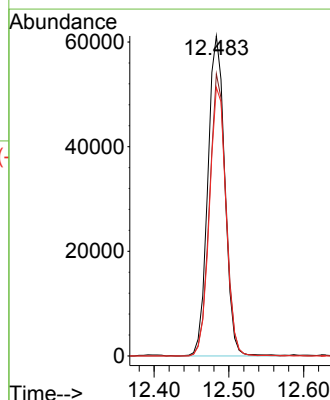
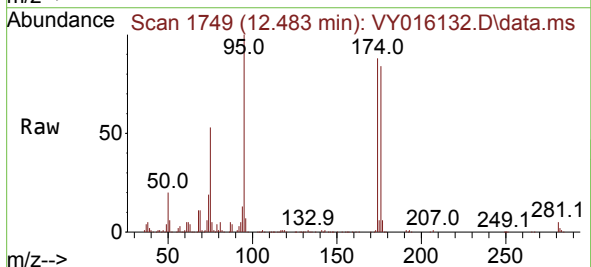
Tgt Ion: 95 Resp: 96429

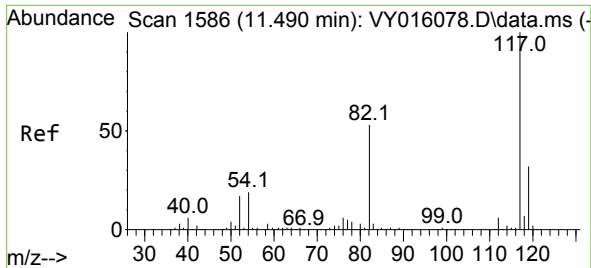
Ion Ratio Lower Upper

95 100

174 85.3 0.0 178.2

176 82.5 0.0 173.8

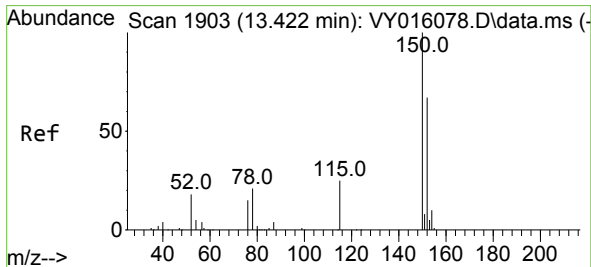
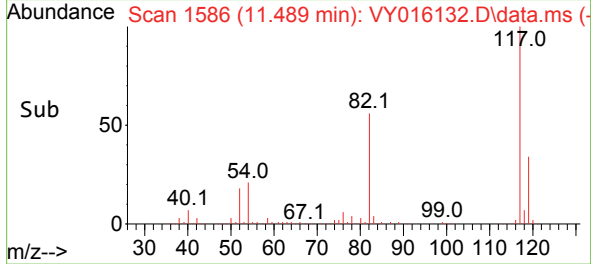
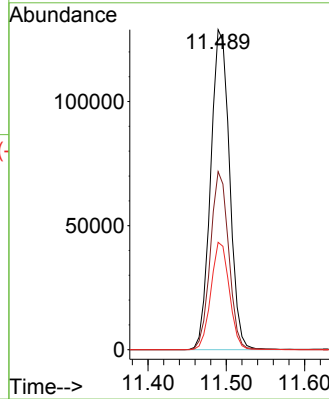
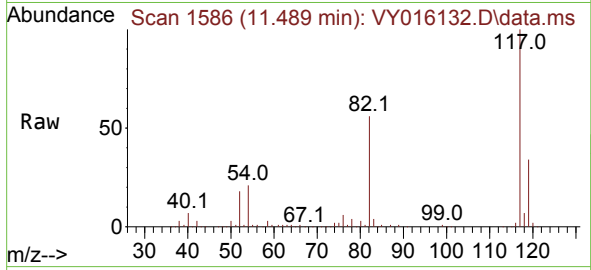




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY016132.D  
Acq: 30 Oct 2023 14:37

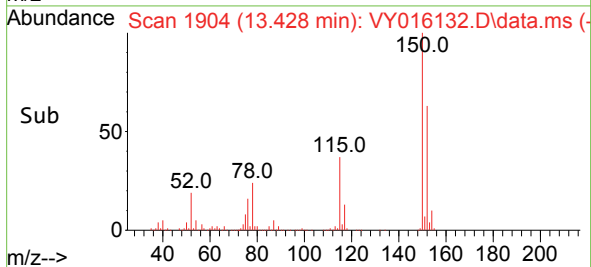
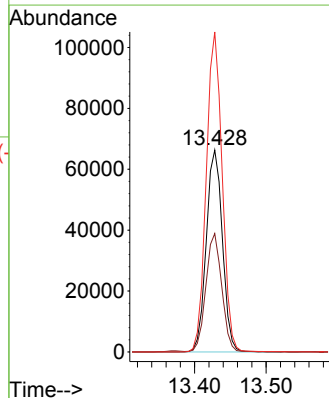
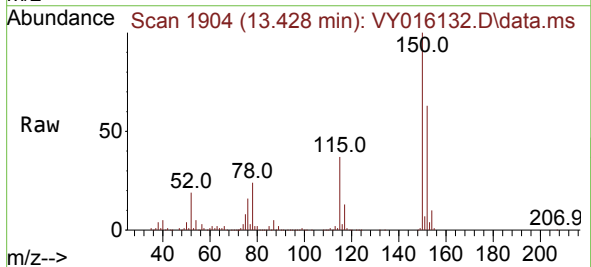
Instrument :  
MSVOA\_Y  
ClientSampleId :

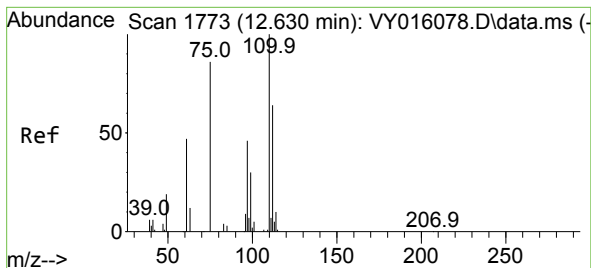
Tgt Ion:117 Resp: 216014  
Ion Ratio Lower Upper  
117 100  
82 55.7 43.4 65.0  
119 33.6 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY016132.D  
Acq: 30 Oct 2023 14:37

Tgt Ion:152 Resp: 104123  
Ion Ratio Lower Upper  
152 100  
115 57.8 28.8 86.5  
150 156.3 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 47.599 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

Instrument :

MSVOA\_Y

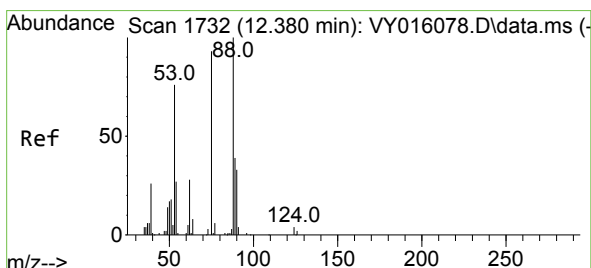
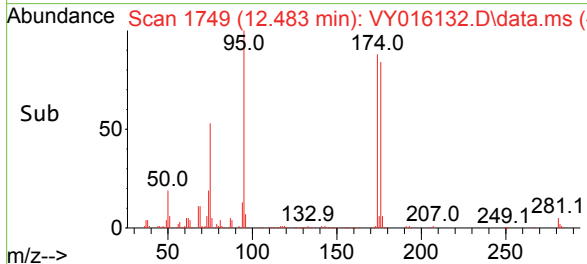
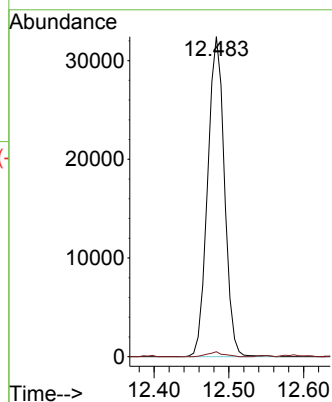
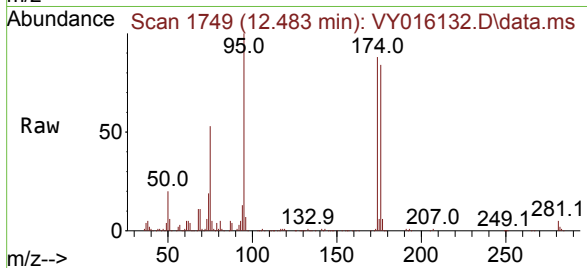
ClientSampleId :

Tgt Ion: 75 Resp: 50600

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.437 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY016132.D

Acq: 30 Oct 2023 14:37

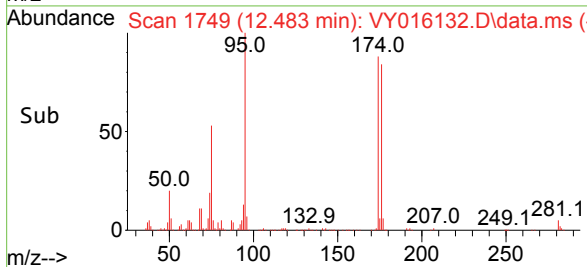
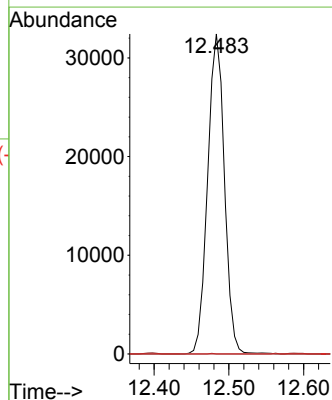
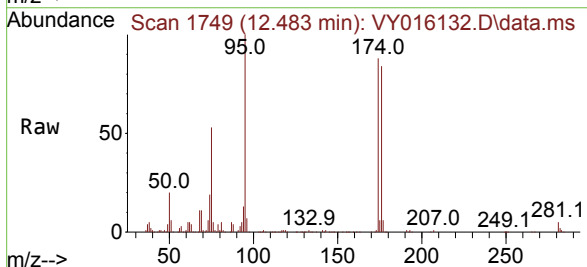
Tgt Ion: 75 Resp: 50600

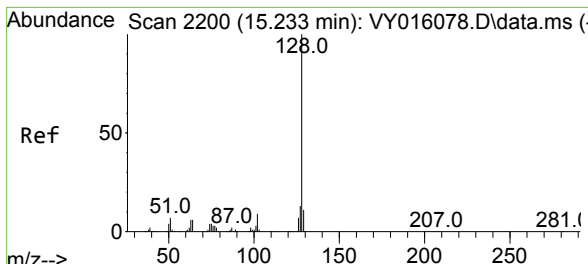
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

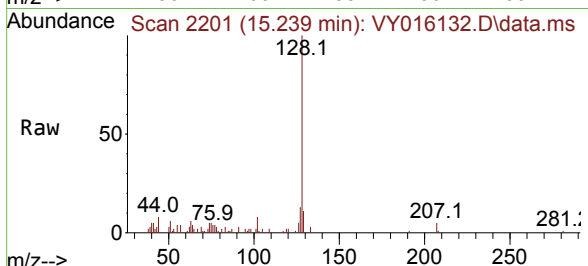
89 0.0 37.4 56.0#





#95  
 Naphthalene  
 Concen: 2.626 ug/l  
 RT: 15.239 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VY016132.D  
 Acq: 30 Oct 2023 14:37

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 9686 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 12.5  | 10.8  | 16.2 |
| 129       | 11.0  | 8.6   | 13.0 |

