

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022724\  
 Data File : VY017501.D  
 Acq On : 27 Feb 2024 17:03  
 Operator : SY/MD  
 Sample : P1564-13RE  
 Misc : 3.51g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LKWD-BACKFILL-15RE

Quant Time: Feb 28 00:19:16 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 Response via : Initial Calibration

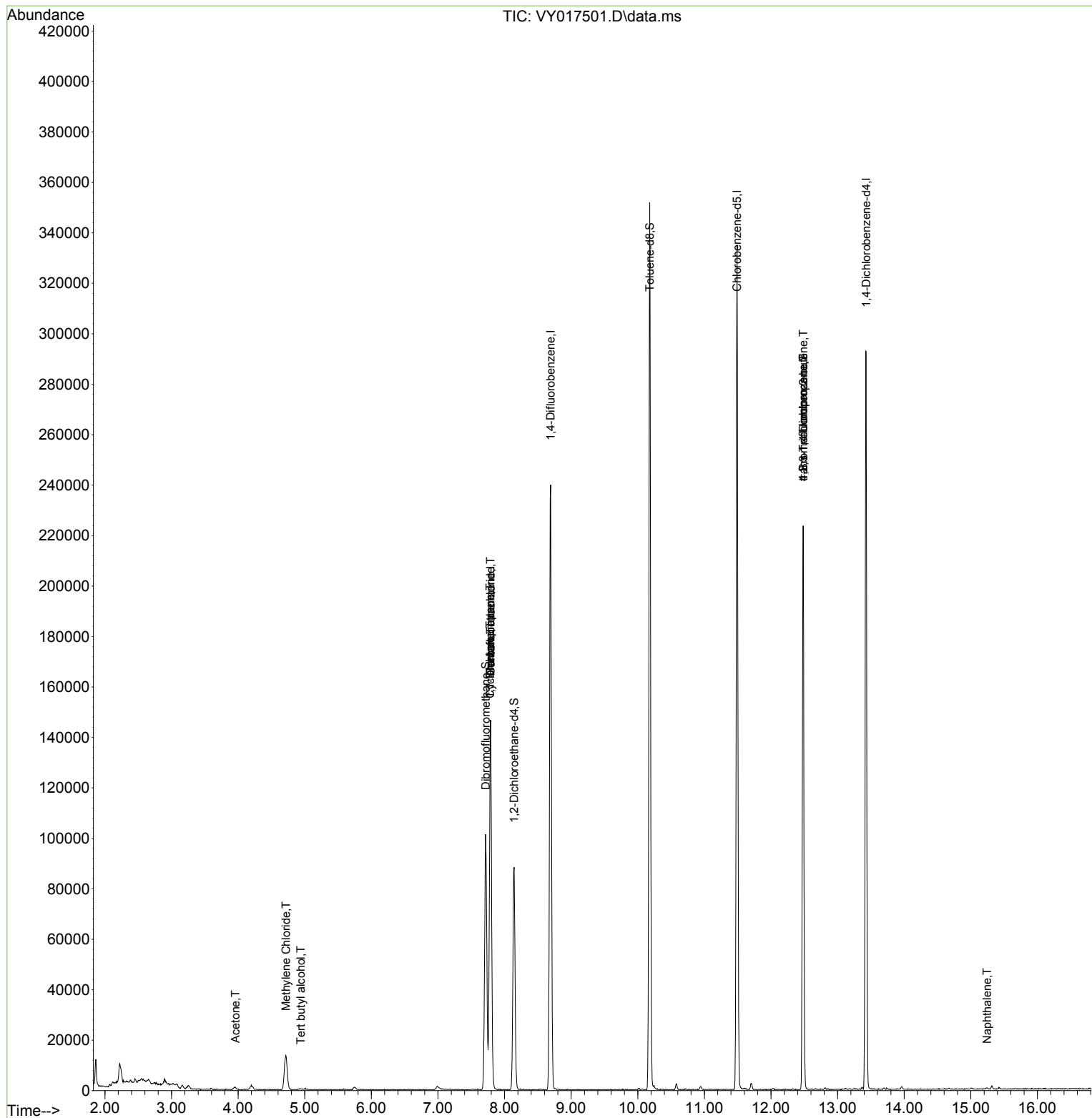
| Compound                      | R.T. QIon |       | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|--------|----------|
| -----                         |           |       |          |          |        |          |
| Internal Standards            |           |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 121599   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 220315   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 196174   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 82174    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65    | 66709    | 57.885   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | =      | 115.780% |
| 35) Dibromofluoromethane      | 7.716     | 113   | 71587    | 46.630   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | =      | 93.260%  |
| 50) Toluene-d8                | 10.179    | 98    | 234209   | 43.633   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery | =      | 87.260%  |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 65446    | 38.796   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery | =      | 77.600%  |
| Target Compounds              |           |       |          |          |        |          |
|                               |           |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 4.942     | 59    | 484      | 4.944    | ug/l # | 88       |
| 16) Acetone                   | 3.960     | 43    | 1811     | 8.102    | ug/l   | 93       |
| 20) Methylene Chloride        | 4.716     | 84    | 11568    | 3.741    | ug/l   | 95       |
| 31) Cyclohexane               | 7.783     | 56    | 2161     | 1.152    | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 7.783     | 75    | 8487     | 4.097    | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 10674    | 5.142    | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 32892    | 42.127   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 32892    | 96.799   | ug/l # | 16       |
| 95) Naphthalene               | 15.245    | 128   | 720      | 4.172    | ug/l # | 69       |
| -----                         |           |       |          |          |        |          |

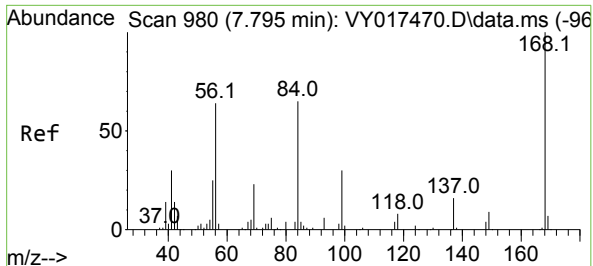
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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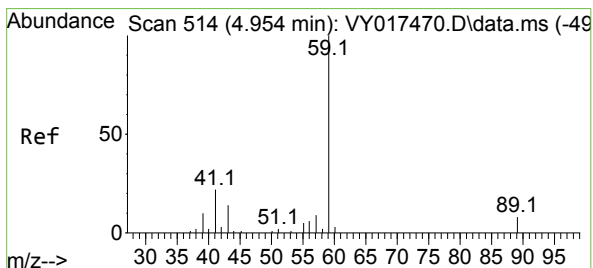
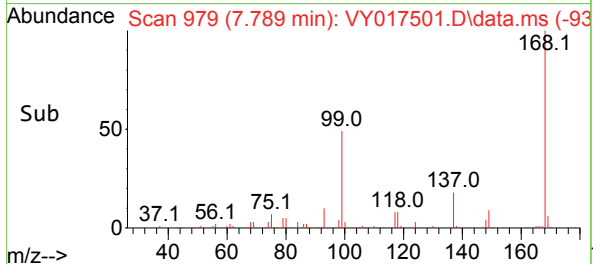
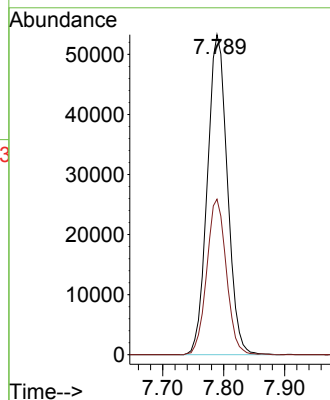
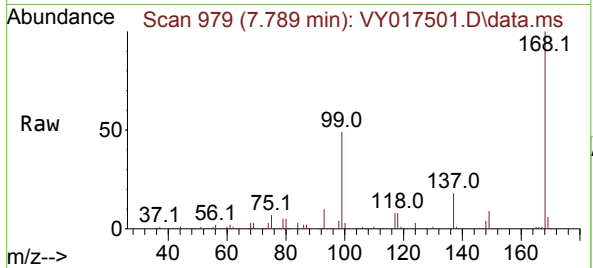




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

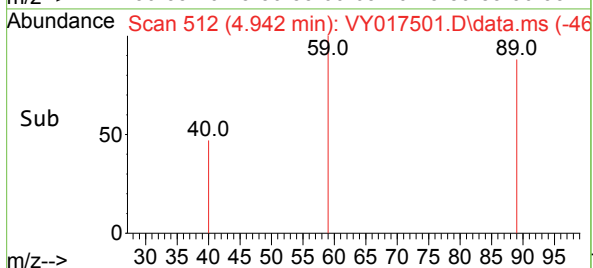
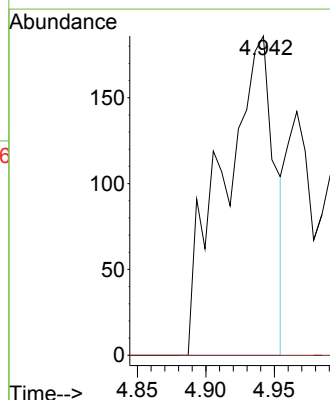
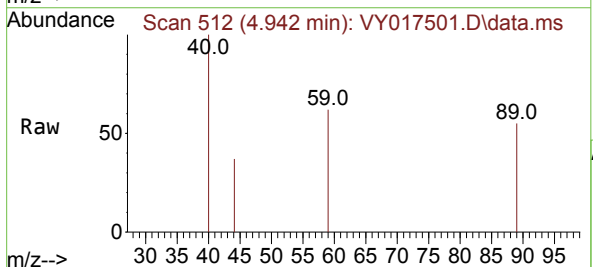
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LKWD-BACKFILL-15RE

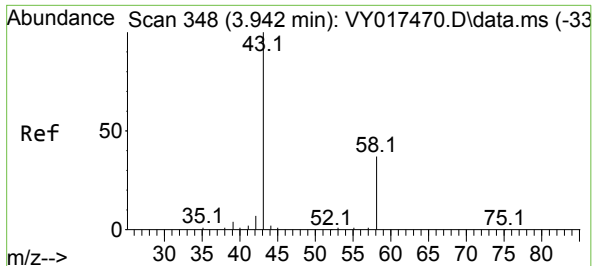
Tgt Ion:168 Resp: 121599  
Ion Ratio Lower Upper  
168 100  
99 48.6 39.1 58.7



#11  
Tert butyl alcohol  
Concen: 4.944 ug/l  
RT: 4.942 min Scan# 512  
Delta R.T. -0.012 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

Tgt Ion: 59 Resp: 484  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#





#16

Acetone

Concen: 8.102 ug/l

RT: 3.960 min Scan# 3

Delta R.T. 0.019 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

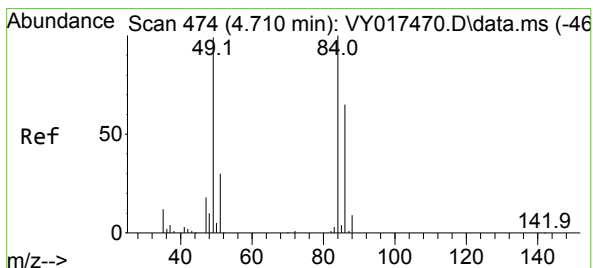
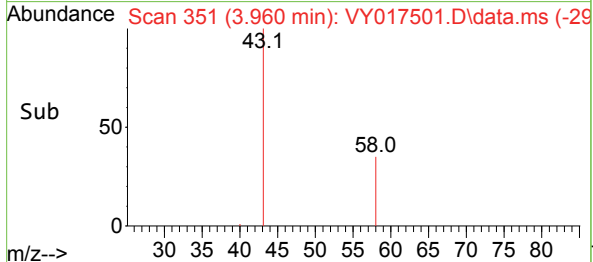
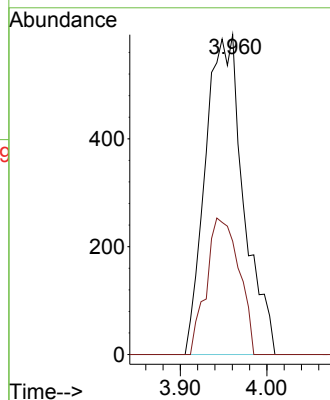
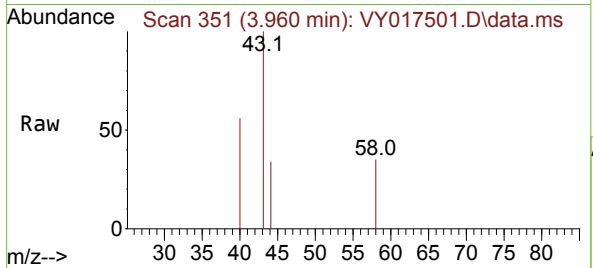
LKWD-BACKFILL-15RE

Tgt Ion: 43 Resp: 1811

Ion Ratio Lower Upper

43 100

58 35.4 31.7 47.5



#20

Methylene Chloride

Concen: 3.741 ug/l

RT: 4.716 min Scan# 475

Delta R.T. 0.006 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

Tgt Ion: 84 Resp: 11568

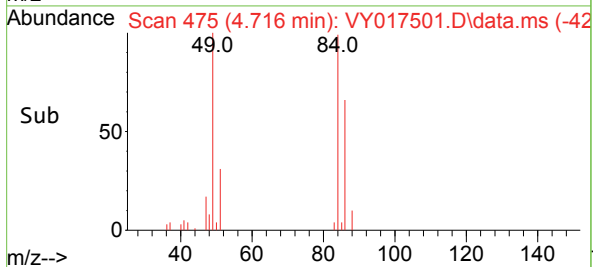
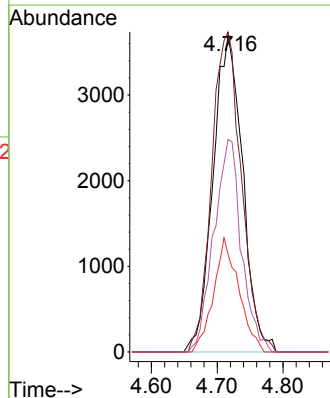
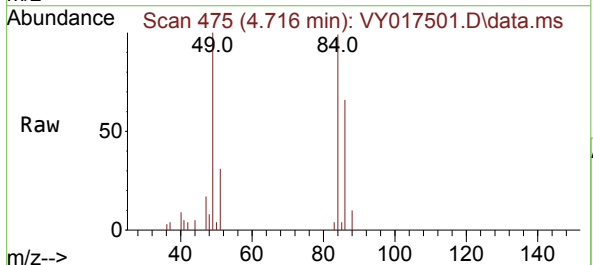
Ion Ratio Lower Upper

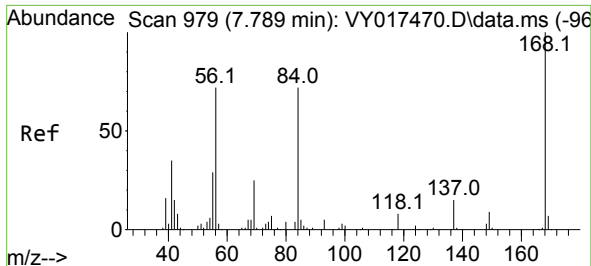
84 100

49 101.0 84.4 126.6

51 30.8 26.0 39.0

86 67.1 49.5 74.3

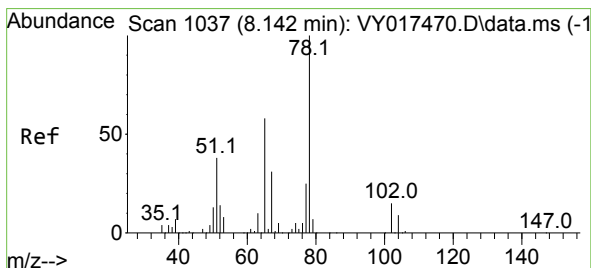
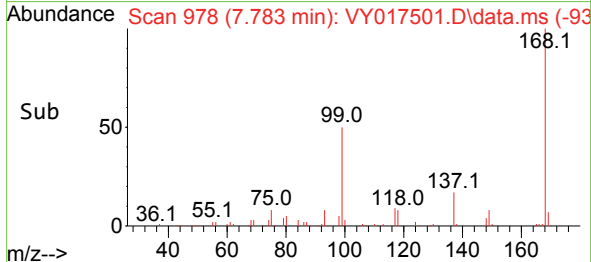
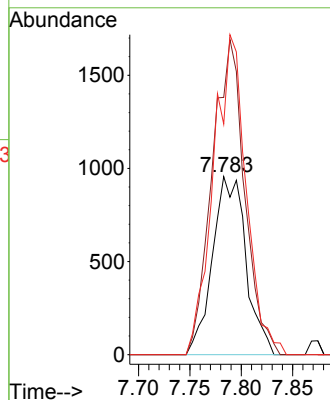
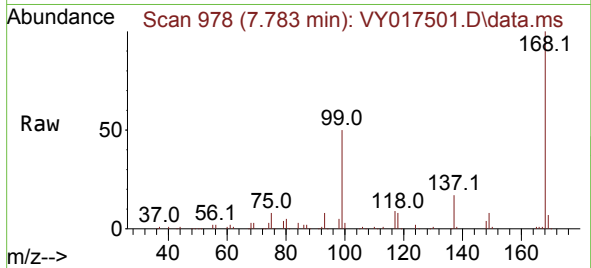




#31  
Cyclohexane  
Concen: 1.152 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

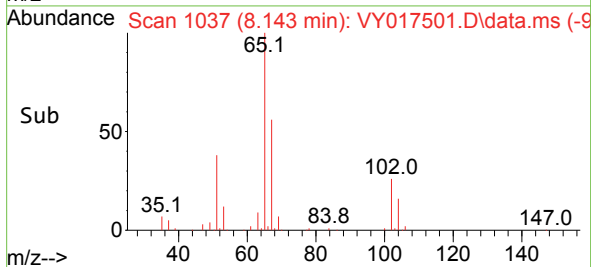
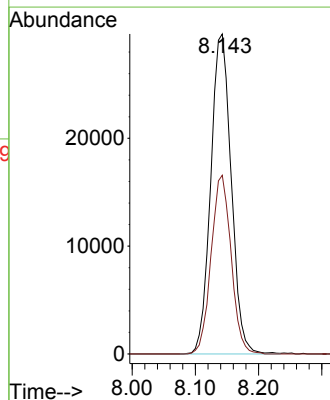
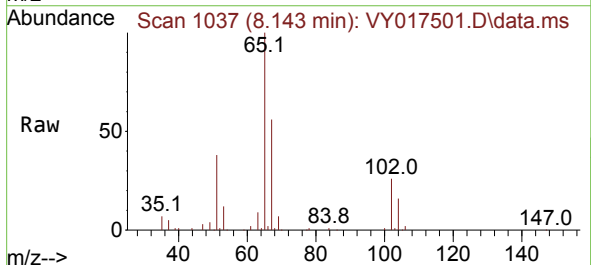
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LKWD-BACKFILL-15RE

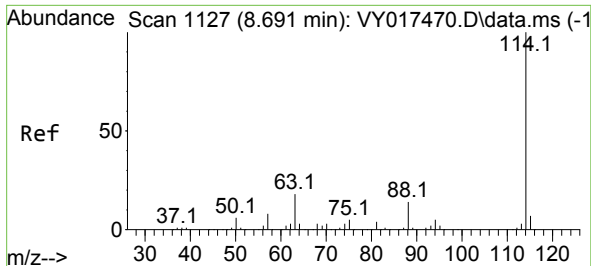
Tgt Ion: 56 Resp: 2161  
Ion Ratio Lower Upper  
56 100  
69 144.5 28.7 43.1#  
84 129.5 77.7 116.5#



#33  
1,2-Dichloroethane-d4  
Concen: 57.885 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.000 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

Tgt Ion: 65 Resp: 66709  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

LKWD-BACKFILL-15RE

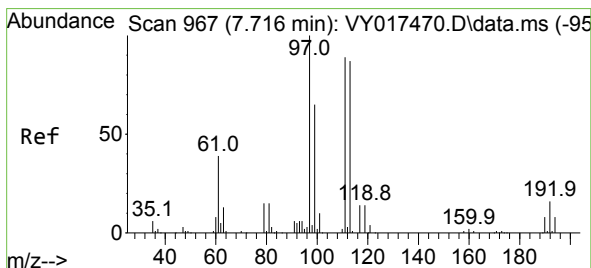
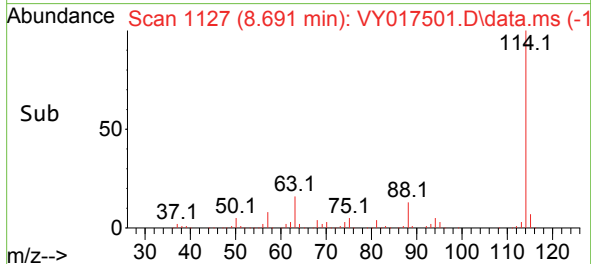
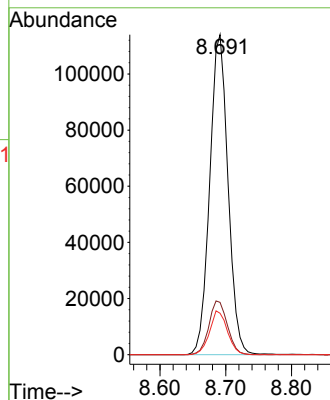
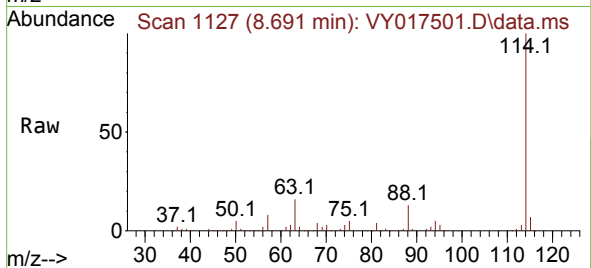
Tgt Ion:114 Resp: 220315

Ion Ratio Lower Upper

114 100

63 16.4 0.0 35.0

88 13.0 0.0 27.2



#35

Dibromofluoromethane

Concen: 46.630 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

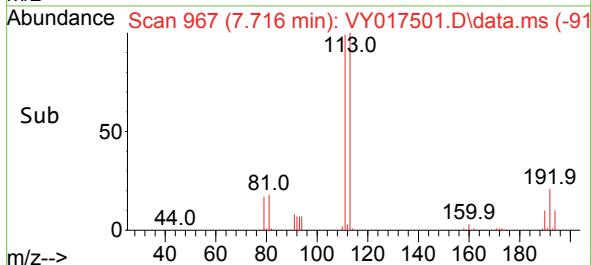
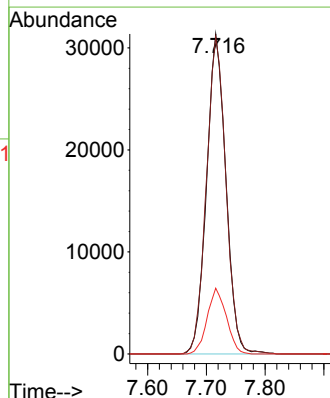
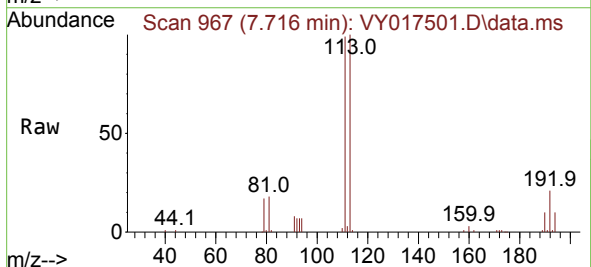
Tgt Ion:113 Resp: 71587

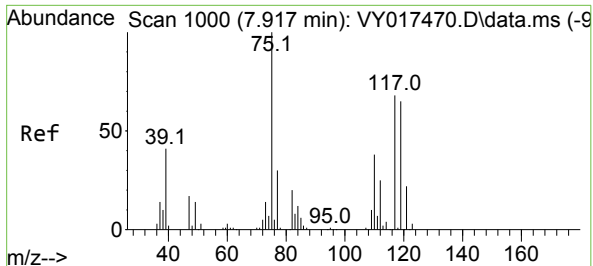
Ion Ratio Lower Upper

113 100

111 100.6 82.2 123.4

192 20.4 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.097 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

LKWD-BACKFILL-15RE

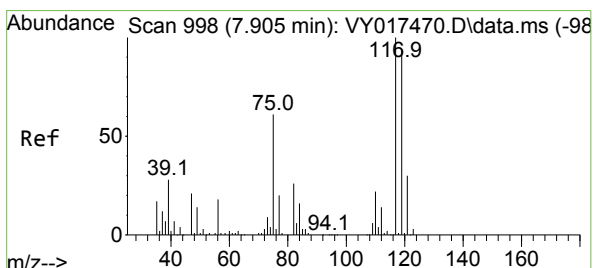
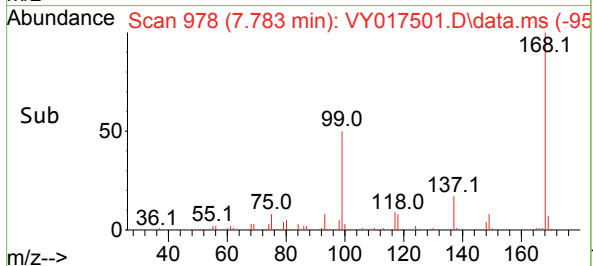
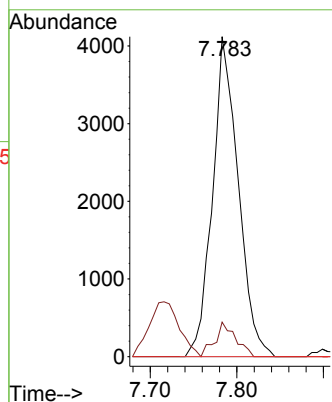
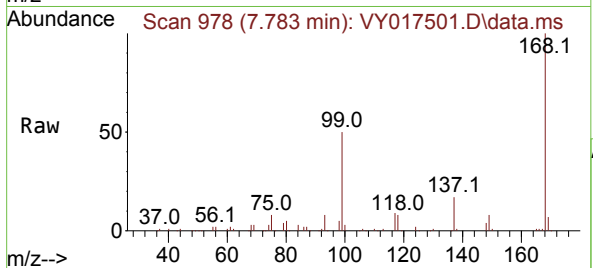
Tgt Ion: 75 Resp: 8487

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.142 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

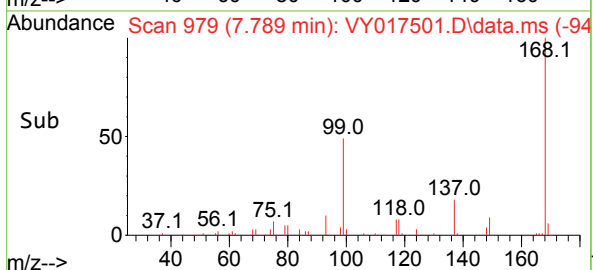
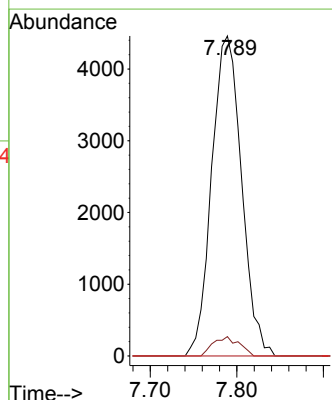
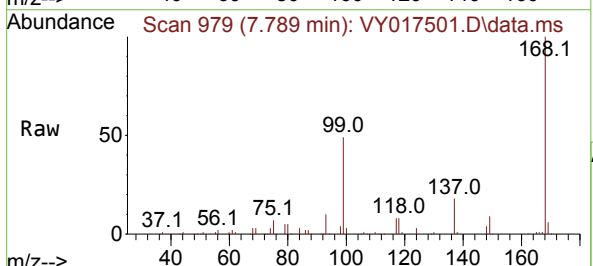
Tgt Ion: 117 Resp: 10674

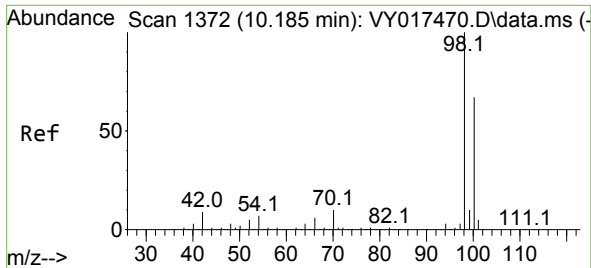
Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.6#

121 0.0 24.0 36.0#

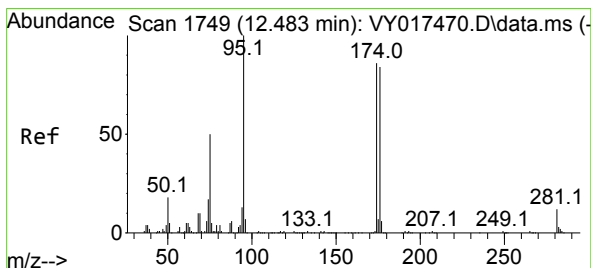
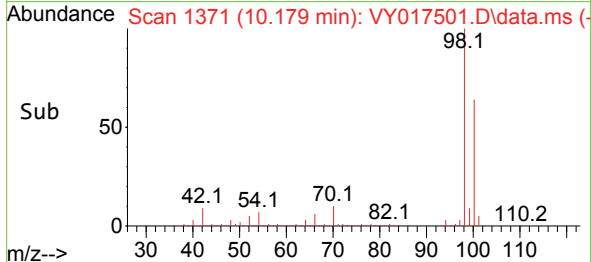
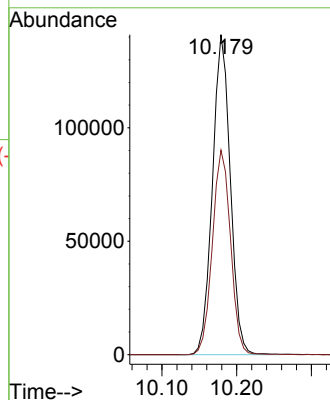
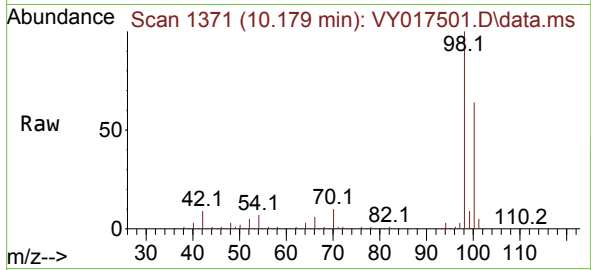




#50  
Toluene-d8  
Concen: 43.633 ug/l  
RT: 10.179 min Scan# 1372  
Delta R.T. -0.006 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

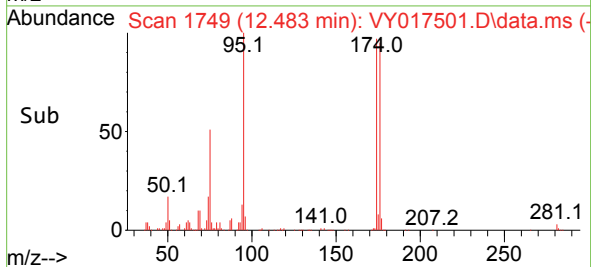
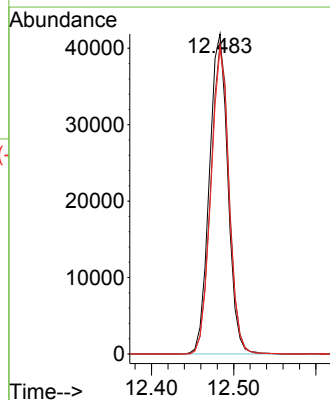
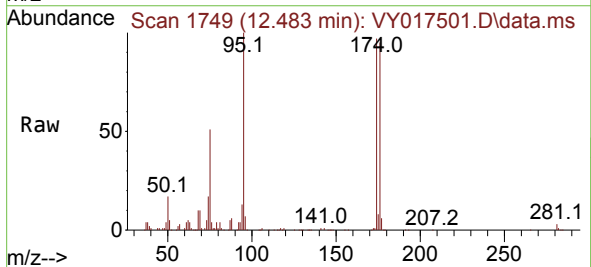
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LKWD-BACKFILL-15RE

Tgt Ion: 98 Resp: 234209  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.0 78.0

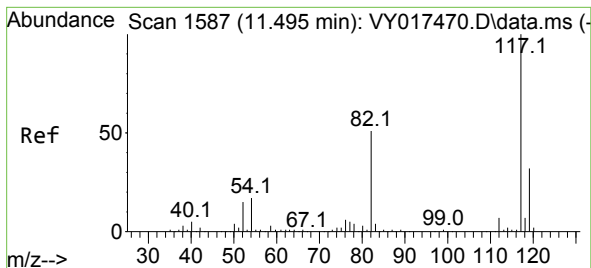


#62  
4-Bromofluorobenzene  
Concen: 38.796 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

Tgt Ion: 95 Resp: 65446  
Ion Ratio Lower Upper  
95 100  
174 96.0 0.0 175.6  
176 92.9 0.0 171.4







#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

LKWD-BACKFILL-15RE

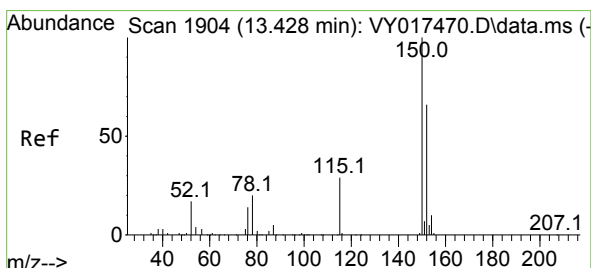
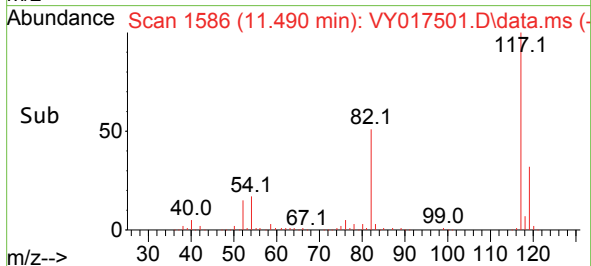
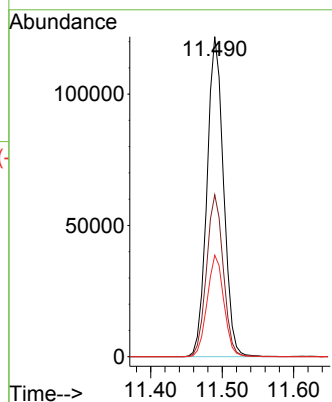
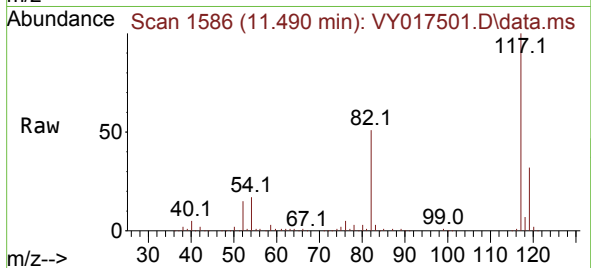
Tgt Ion:117 Resp: 196174

Ion Ratio Lower Upper

117 100

82 50.6 42.4 63.6

119 31.7 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY017501.D

Acq: 27 Feb 2024 17:03

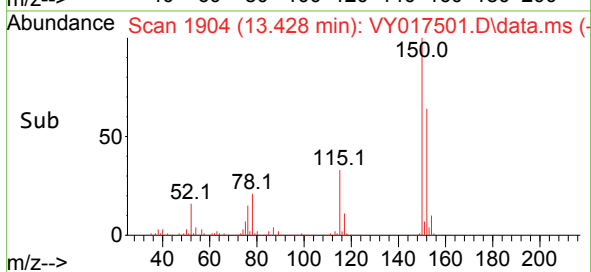
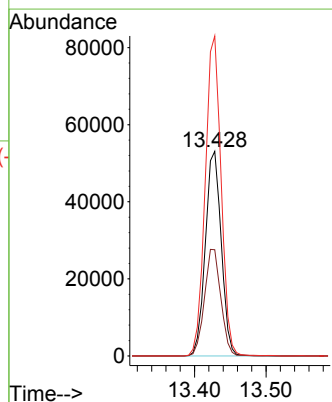
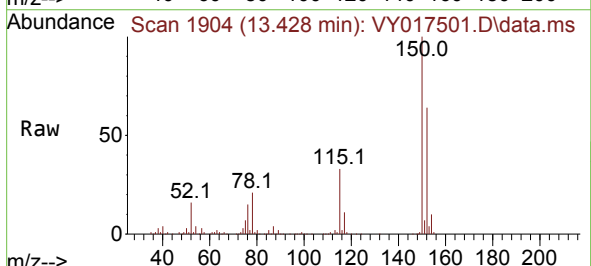
Tgt Ion:152 Resp: 82174

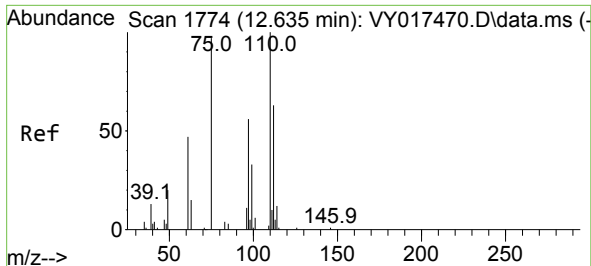
Ion Ratio Lower Upper

152 100

115 53.5 28.2 84.7

150 155.7 0.0 345.6

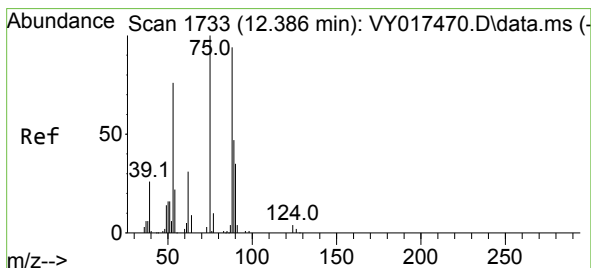
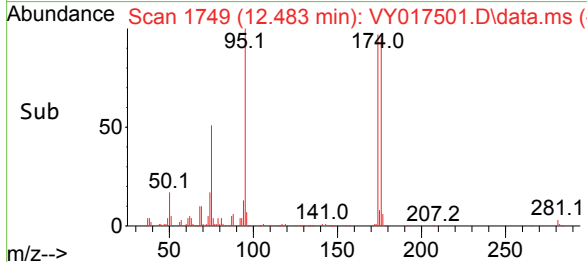
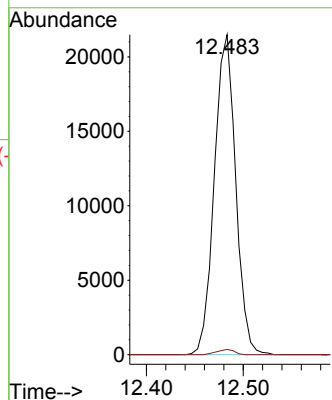
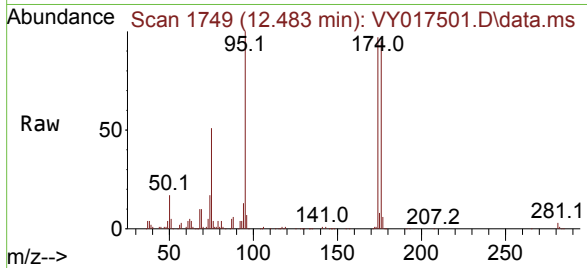




#76  
1,2,3-Trichloropropane  
Concen: 42.127 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

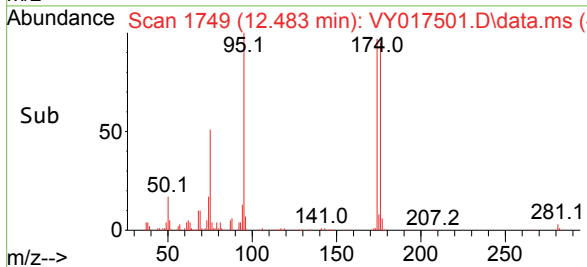
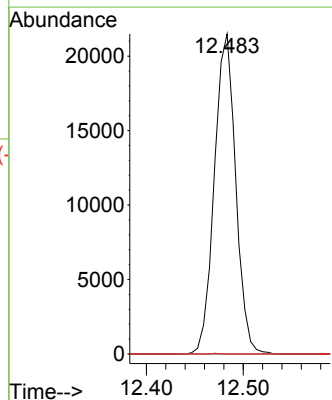
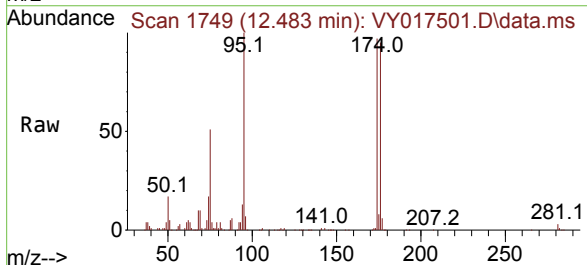
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LKWD-BACKFILL-15RE

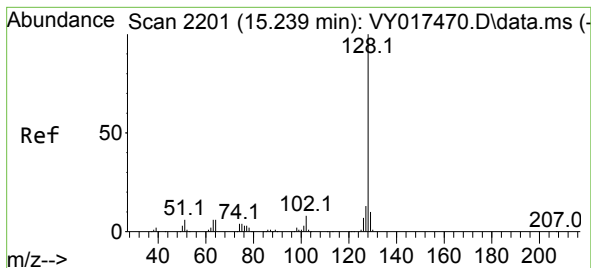
Tgt Ion: 75 Resp: 32892  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.799 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.098 min  
Lab File: VY017501.D  
Acq: 27 Feb 2024 17:03

Tgt Ion: 75 Resp: 32892  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.8 100.2#  
89 0.1 35.8 53.6#





#95

Naphthalene

Concen: 4.172 ug/l

RT: 15.245 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY017501.D

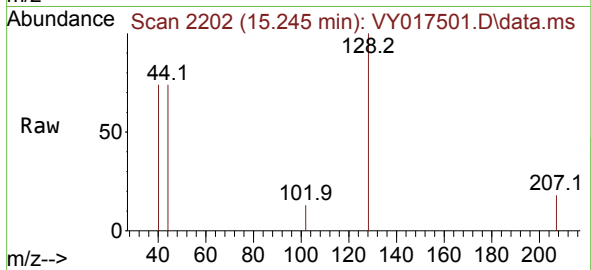
Acq: 27 Feb 2024 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

LKWD-BACKFILL-15RE



Tgt Ion:128 Resp: 720

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

