

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112423\  
 Data File : VY016488.D  
 Acq On : 24 Nov 2023 16:39  
 Operator : SY/MD  
 Sample : 05434-02  
 Misc : 5.25g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

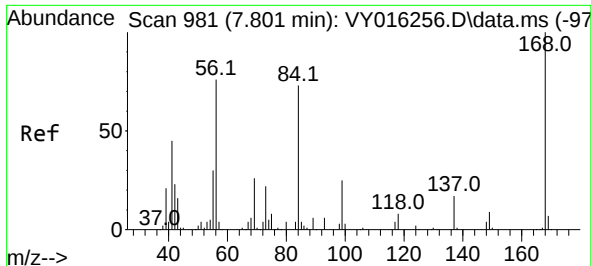
Quant Time: Nov 27 04:47:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.807  | 168   | 95550    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.703  | 114   | 165184   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.502 | 117   | 157518   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434 | 152   | 65223    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.155  | 65    | 54863    | 62.823   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 125.640% |          |
| 35) Dibromofluoromethane      | 7.734  | 113   | 53337    | 56.841   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 113.680% |          |
| 50) Toluene-d8                | 10.191 | 98    | 195115   | 51.276   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 102.560% |          |
| 62) 4-Bromofluorobenzene      | 12.489 | 95    | 62472    | 50.549   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 101.100% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.985  | 59    | 265      | 3.875    | ug/l #     | 89       |
| 20) Methylene Chloride        | 4.741  | 84    | 9659     | 6.432    | ug/l #     | 83       |
| 31) Cyclohexane               | 7.801  | 56    | 1731     | 1.007    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.807  | 75    | 6546     | 4.018    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.807  | 117   | 9126     | 5.397    | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.191 | 43    | 674      | 1.047    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75    | 30792    | 49.214   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75    | 30792    | 106.823  | ug/l #     | 10       |
| -----                         |        |       |          |          |            |          |

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

Quant Time: Nov 27 04:47:40 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

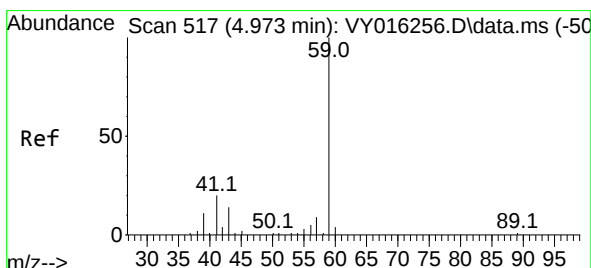
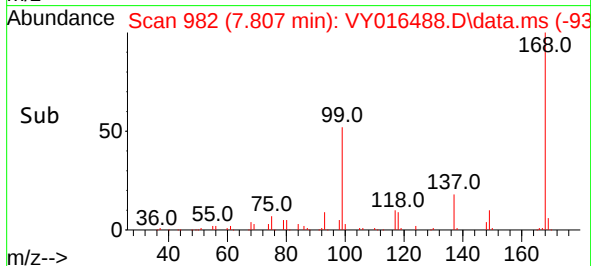
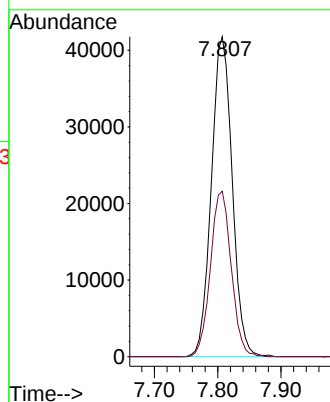
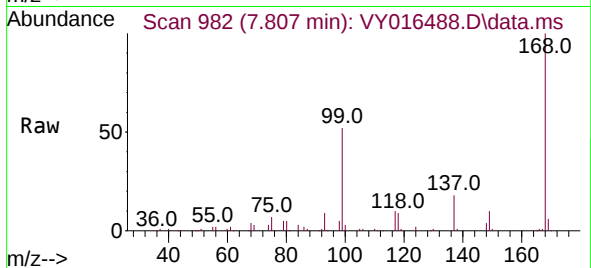




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.807 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

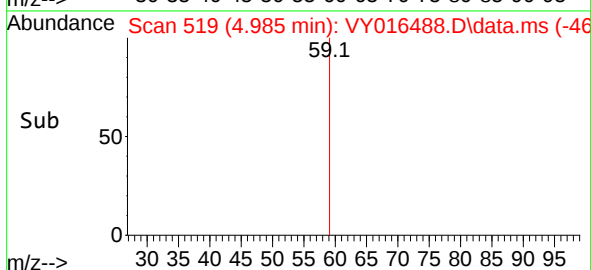
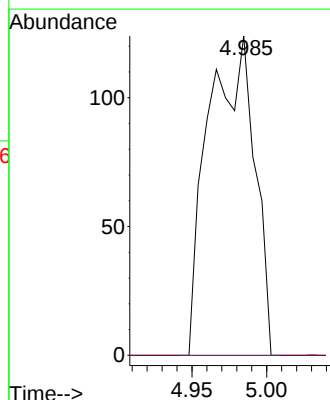
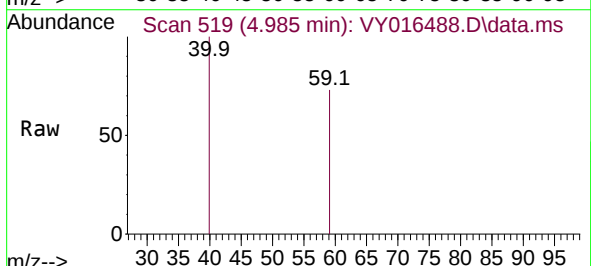
Instrument :  
MSVOA\_Y  
ClientSampleId :

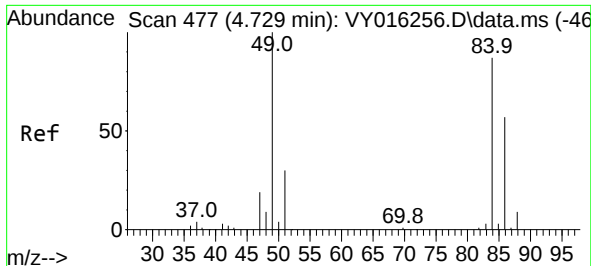
Tgt Ion:168 Resp: 95550  
Ion Ratio Lower Upper  
168 100  
99 51.7 43.4 65.0



#11  
Tert butyl alcohol  
Concen: 3.875 ug/l  
RT: 4.985 min Scan# 519  
Delta R.T. 0.012 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Tgt Ion: 59 Resp: 265  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#





#20

Methylene Chloride

Concen: 6.432 ug/l

RT: 4.741 min Scan# 41

Delta R.T. 0.012 min

Lab File: VY016488.D

Acq: 24 Nov 2023 16:39

Instrument :

MSVOA\_Y

ClientSampleId :

Tgt Ion: 84 Resp: 9659

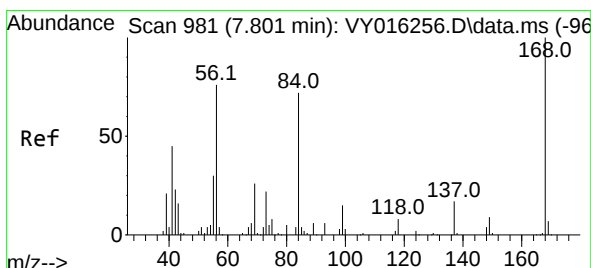
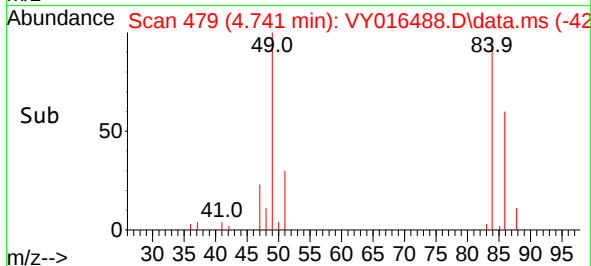
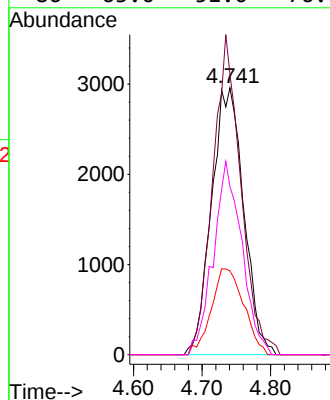
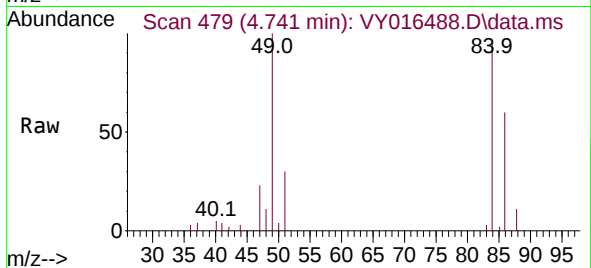
Ion Ratio Lower Upper

84 100

49 105.0 106.9 160.3#

51 31.4 33.2 49.8#

86 63.0 51.0 76.6



#31

Cyclohexane

Concen: 1.007 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.000 min

Lab File: VY016488.D

Acq: 24 Nov 2023 16:39

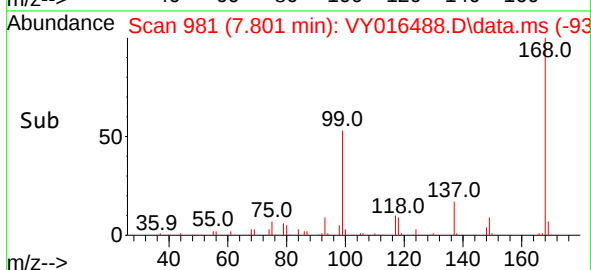
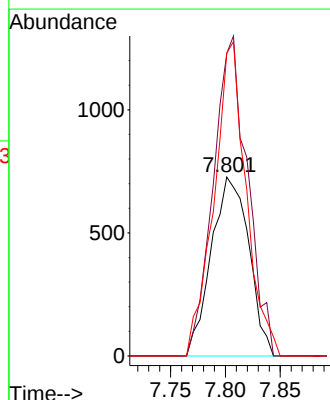
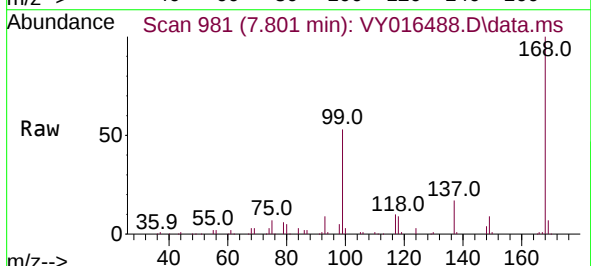
Tgt Ion: 56 Resp: 1731

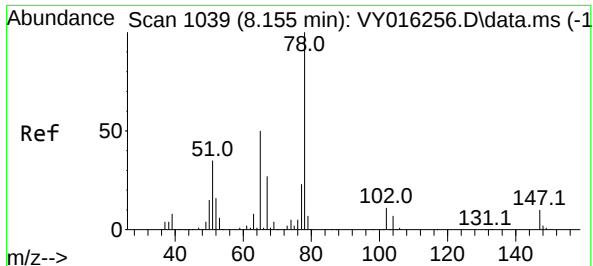
Ion Ratio Lower Upper

56 100

69 169.1 27.8 41.6#

84 169.2 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 62.823 ug/l

RT: 8.155 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY016488.D

Acq: 24 Nov 2023 16:39

Instrument :

MSVOA\_Y

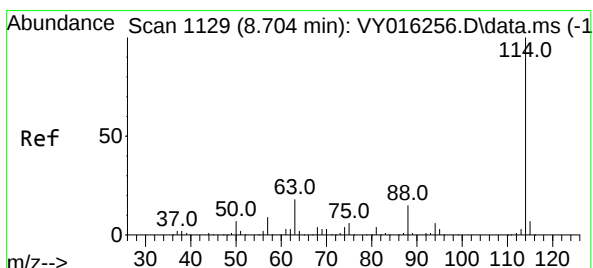
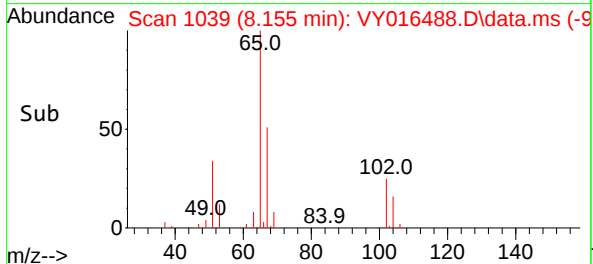
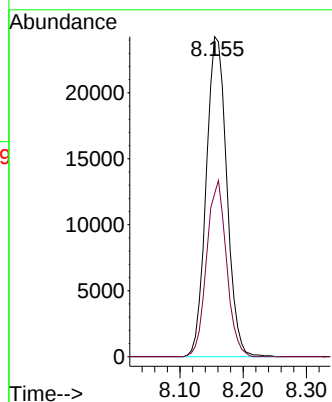
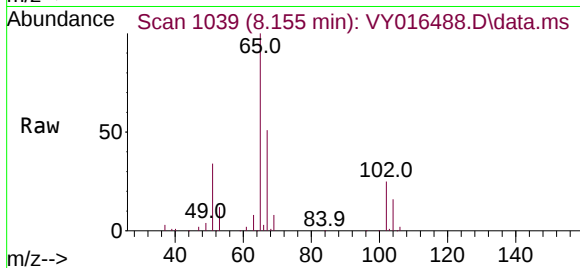
ClientSampleId :

Tgt Ion: 65 Resp: 54863

Ion Ratio Lower Upper

65 100

67 53.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VY016488.D

Acq: 24 Nov 2023 16:39

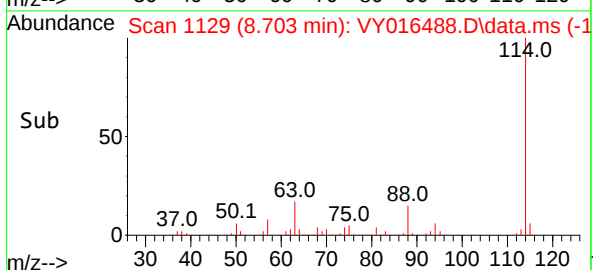
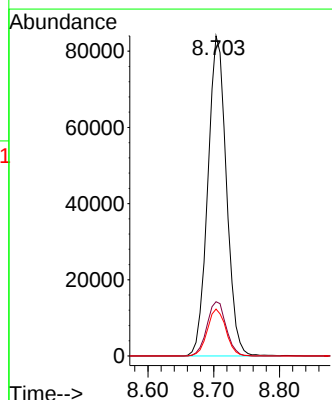
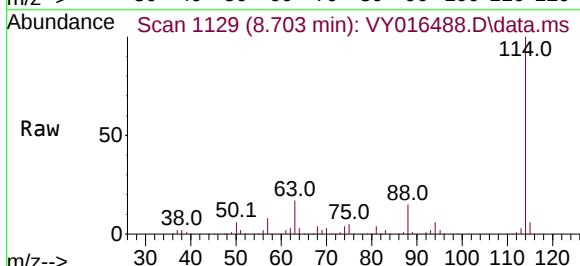
Tgt Ion: 114 Resp: 165184

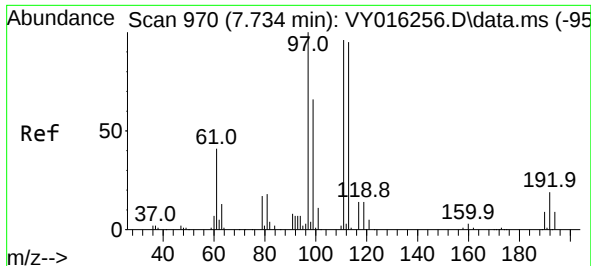
Ion Ratio Lower Upper

114 100

63 17.0 0.0 42.4

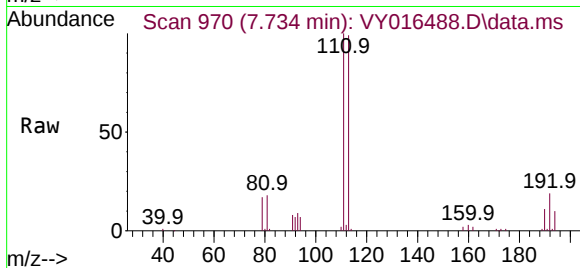
88 14.6 0.0 30.6



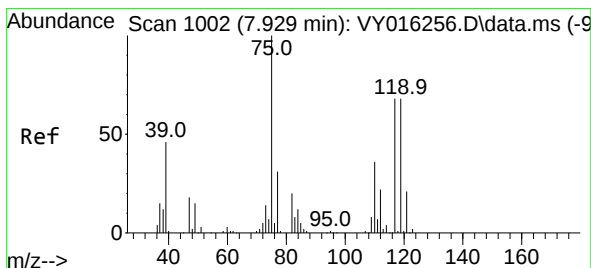
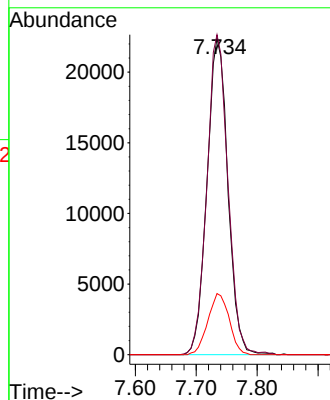
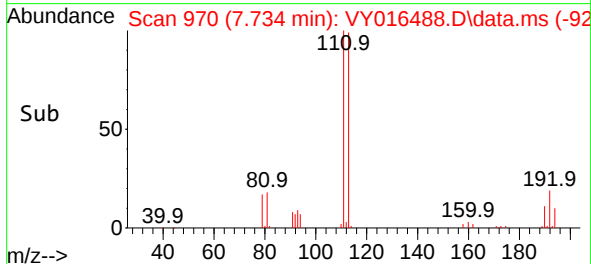


#35  
Dibromofluoromethane  
Concen: 56.841 ug/l  
RT: 7.734 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Instrument :  
MSVOA\_Y  
ClientSampleId :

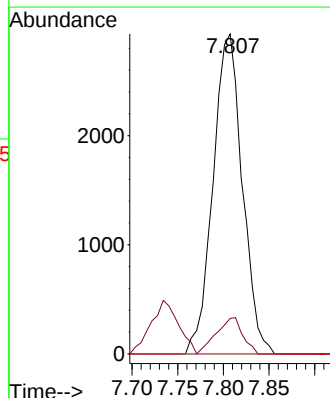
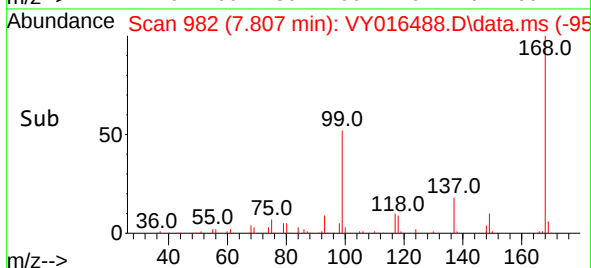
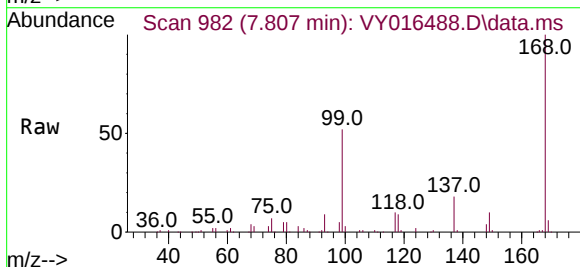


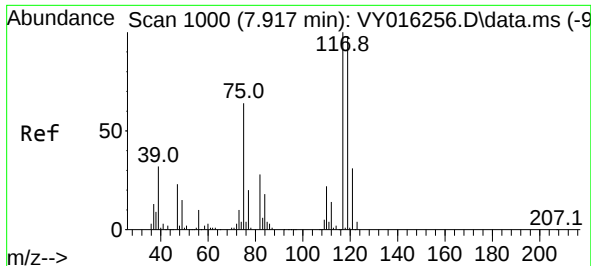
Tgt Ion:113 Resp: 53337  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.3 121.9  
192 19.7 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.018 ug/l  
RT: 7.807 min Scan# 982  
Delta R.T. -0.122 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

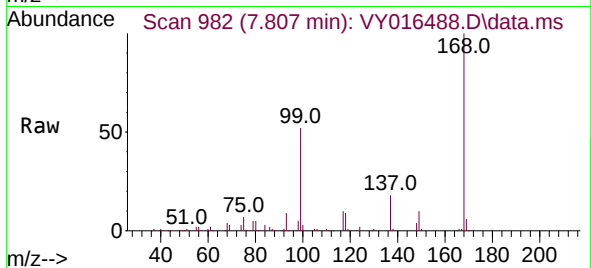
Tgt Ion: 75 Resp: 6546  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.8 53.5#  
77 0.0 24.4 36.6#



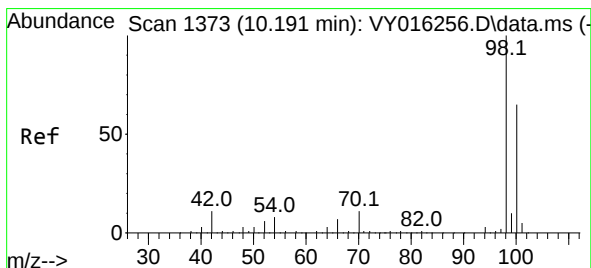
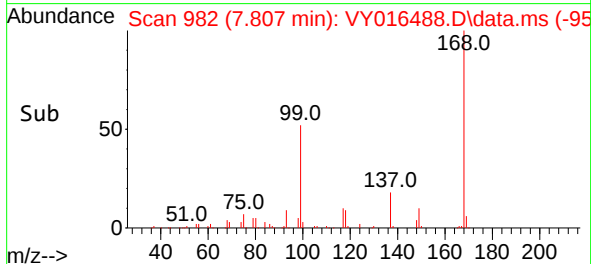
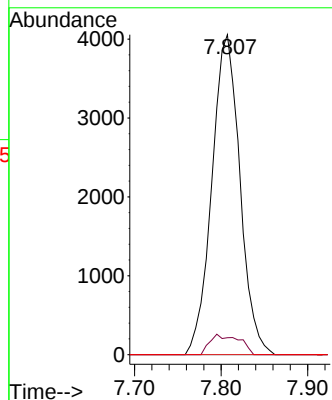


#38  
Carbon Tetrachloride  
Concen: 5.397 ug/l  
RT: 7.807 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Instrument :  
MSVOA\_Y  
ClientSampleId :

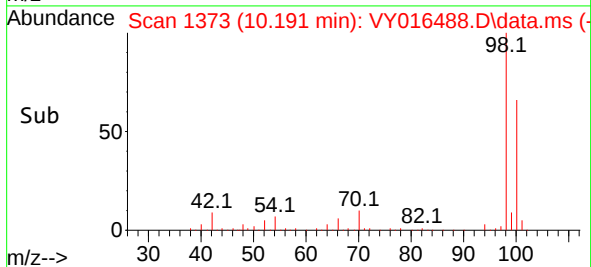
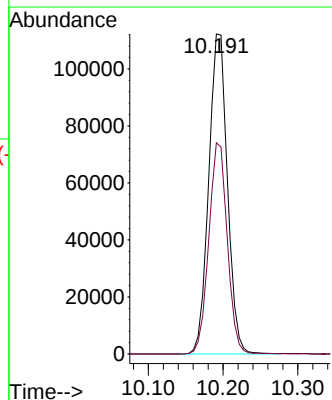
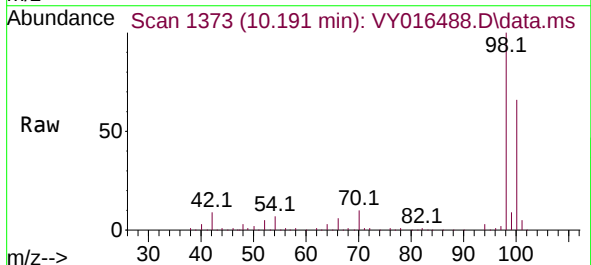


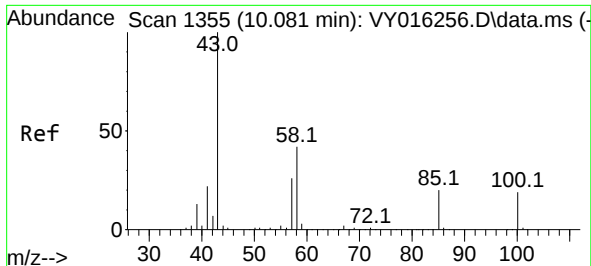
Tgt Ion:117 Resp: 9126  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 51.276 ug/l  
RT: 10.191 min Scan# 1373  
Delta R.T. -0.000 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Tgt Ion: 98 Resp: 195115  
Ion Ratio Lower Upper  
98 100  
100 65.3 50.1 75.1

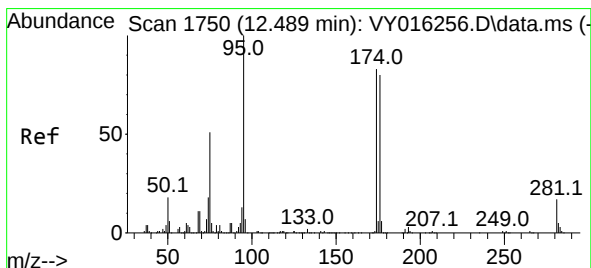
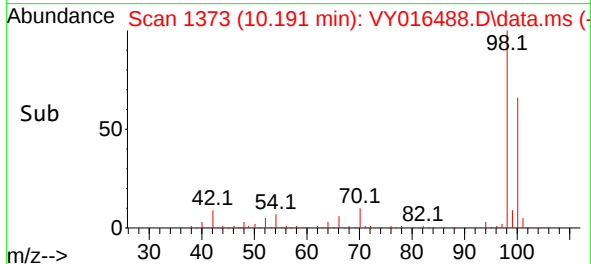
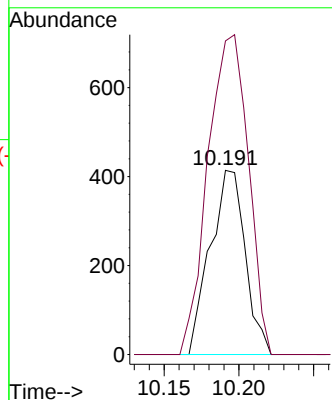
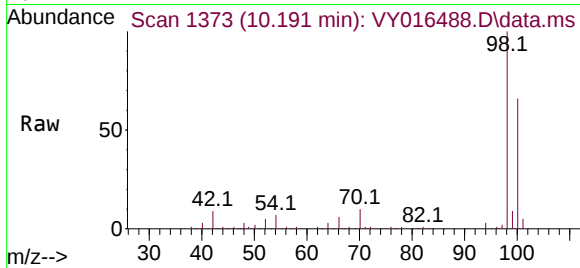




#51  
4-Methyl-2-Pentanone  
Concen: 1.047 ug/l  
RT: 10.191 min Scan# 11  
Delta R.T. 0.110 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

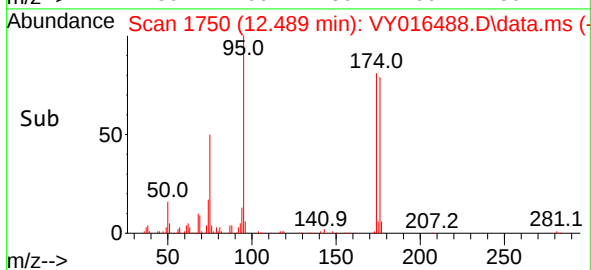
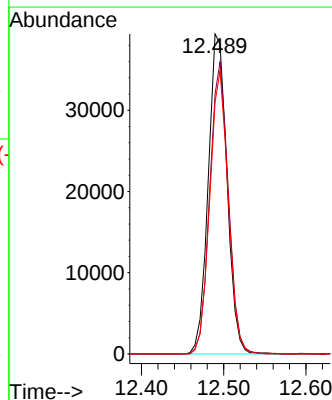
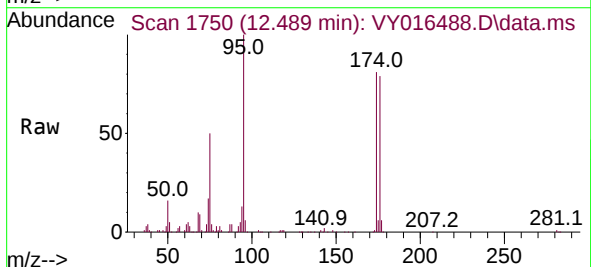
Instrument :  
MSVOA\_Y  
ClientSampleId :

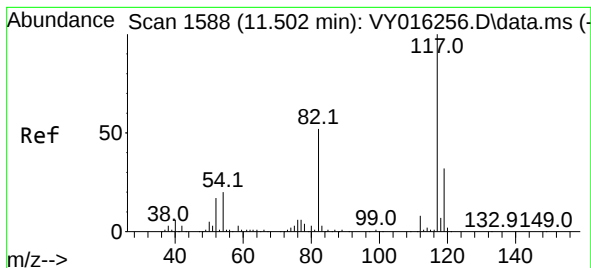
Tgt Ion: 43 Resp: 674  
Ion Ratio Lower Upper  
43 100  
58 200.6 29.0 43.6#



#62  
4-Bromofluorobenzene  
Concen: 50.549 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. -0.000 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Tgt Ion: 95 Resp: 62472  
Ion Ratio Lower Upper  
95 100  
174 90.6 0.0 178.2  
176 86.9 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016488.D

Acq: 24 Nov 2023 16:39

Instrument :

MSVOA\_Y

ClientSampleId :

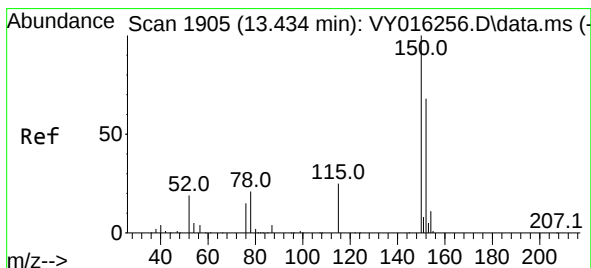
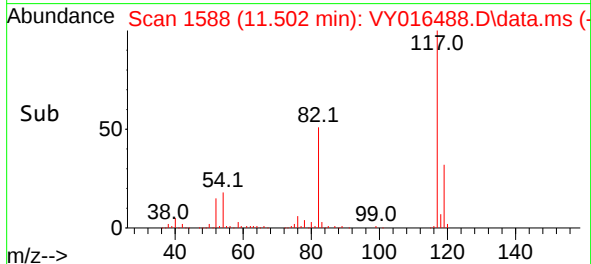
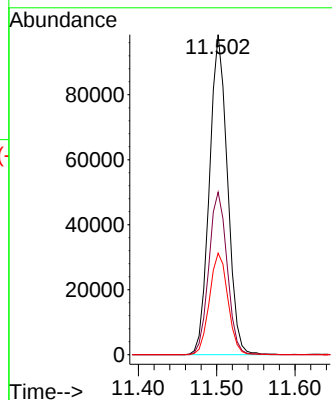
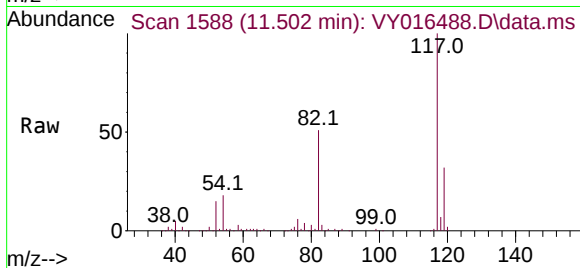
Tgt Ion:117 Resp: 157518

Ion Ratio Lower Upper

117 100

82 50.8 43.4 65.0

119 31.7 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. -0.000 min

Lab File: VY016488.D

Acq: 24 Nov 2023 16:39

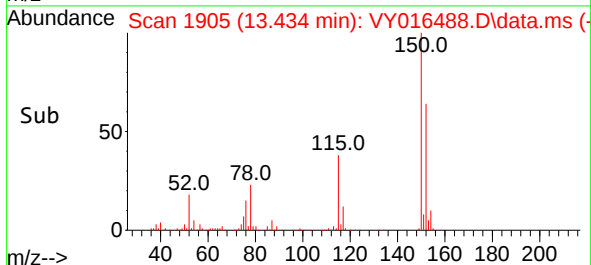
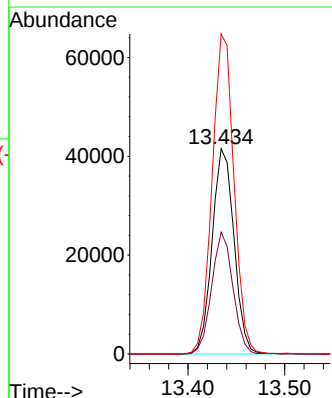
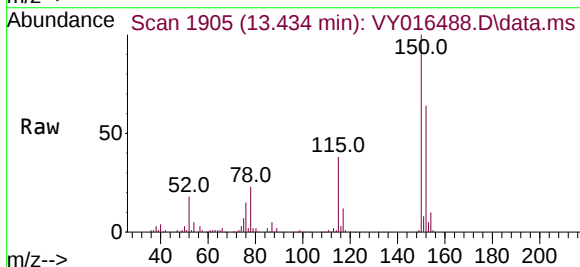
Tgt Ion:152 Resp: 65223

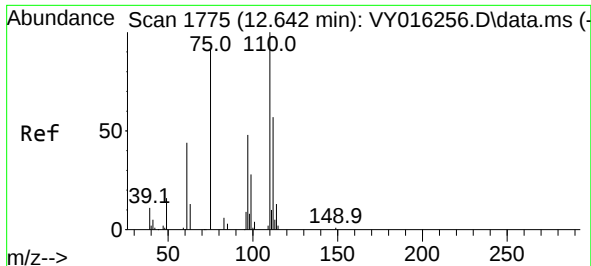
Ion Ratio Lower Upper

152 100

115 57.8 28.8 86.5

150 155.4 0.0 348.8

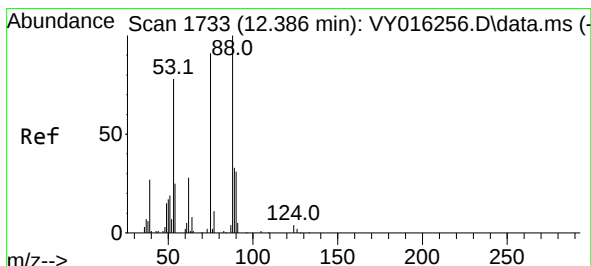
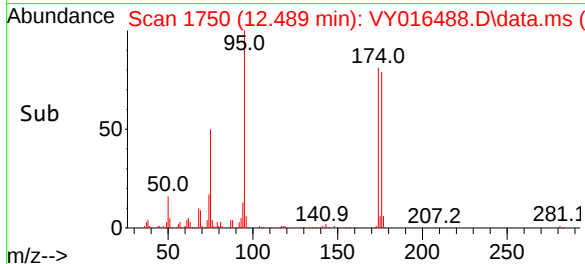
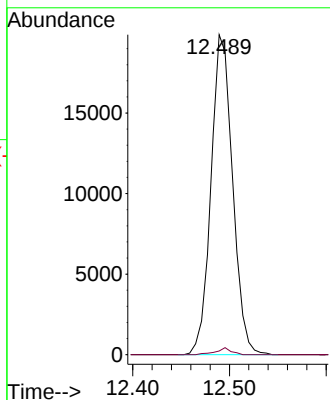
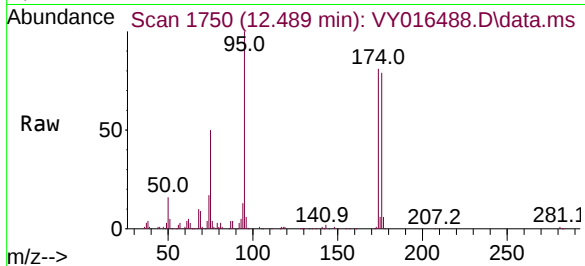




#76  
1,2,3-Trichloropropane  
Concen: 49.214 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. -0.153 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 30792  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 106.823 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.104 min  
Lab File: VY016488.D  
Acq: 24 Nov 2023 16:39

Tgt Ion: 75 Resp: 30792  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#

