

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061223\  
 Data File : VX036125.D  
 Acq On : 12 Jun 2023 16:02  
 Operator : JC/MD  
 Sample : PB153331ZHE#05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153331ZHE#05

Quant Time: Jun 13 04:50:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 31 12:50:30 2023  
 Response via : Initial Calibration

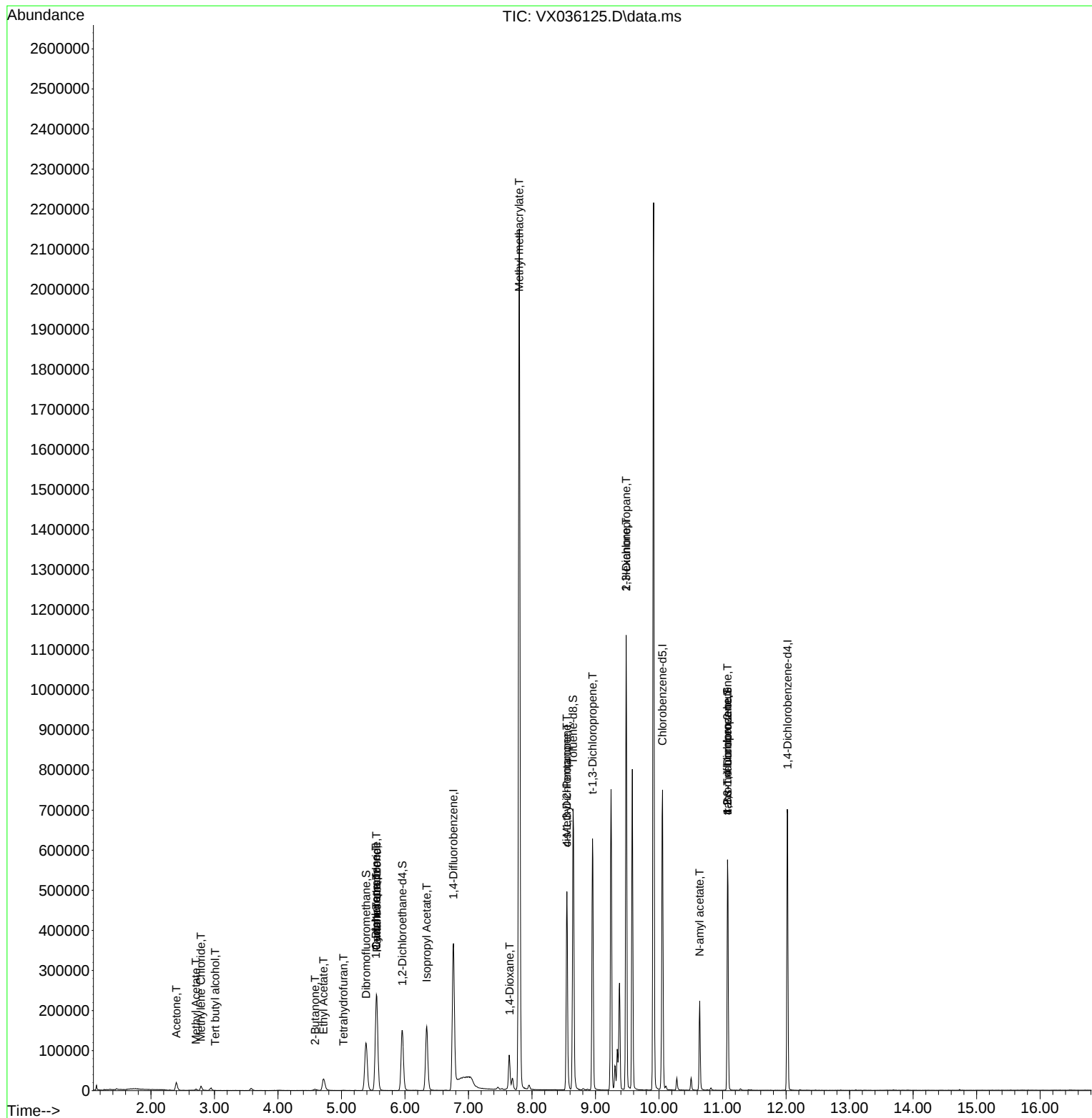
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 199390     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 333141     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 301179     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 135933     | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 154987     | 47.868  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 95.740% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 102901     | 45.924  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 91.840% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 400182     | 49.763  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.520% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 154436     | 48.649  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 97.300% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol        | 3.013          | 59   | 127        | 0.221   | ug/l # | 78       |
| 16) Acetone                   | 2.398          | 43   | 27915      | 20.898  | ug/l   | 98       |
| 18) Methyl Acetate            | 2.709          | 43   | 3552       | 0.684   | ug/l   | 92       |
| 20) Methylene Chloride        | 2.788          | 84   | 5216       | 2.027   | ug/l   | 95       |
| 25) 2-Butanone                | 4.586          | 43   | 2190       | 1.145   | ug/l # | 89       |
| 29) Tetrahydrofuran           | 5.031          | 42   | 742        | 0.602   | ug/l # | 34       |
| 31) Cyclohexane               | 5.550          | 56   | 5435       | 1.603   | ug/l # | 20       |
| 36) 1,1-Dichloropropene       | 5.543          | 75   | 19046      | 6.375   | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.714          | 43   | 55708      | 16.743  | ug/l   | 99       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 23727      | 8.150   | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 220757     | 40.351  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.799          | 41   | 194527     | 72.505  | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.647          | 88   | 93         | 1.514   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 173748     | 52.028  | ug/l # | 50       |
| 53) t-1,3-Dichloropropene     | 8.951          | 75   | 1294       | 0.397   | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 72946      | 20.264  | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 9025       | 2.233   | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 140229     | 56.798  | ug/l # | 51       |
| 74) N-amyl acetate            | 10.640         | 43   | 58880      | 13.675  | ug/l # | 53       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 85037      | 27.737  | ug/l # | 35       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 85037      | 93.425  | ug/l # | 3        |
| -----                         |                |      |            |         |        |          |

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

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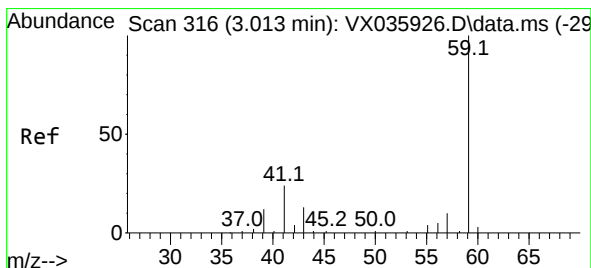
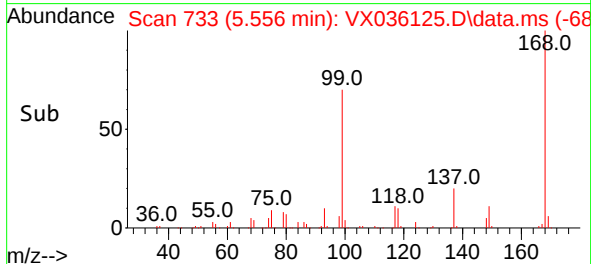
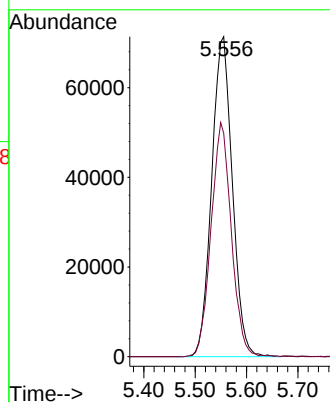
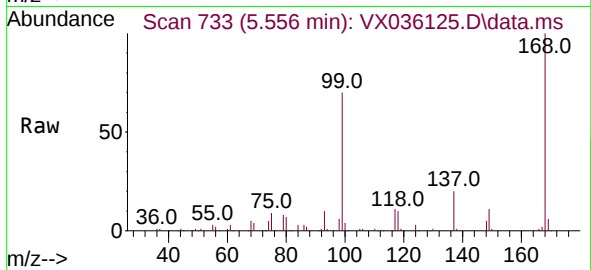




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

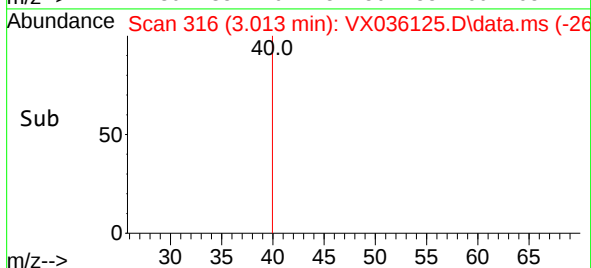
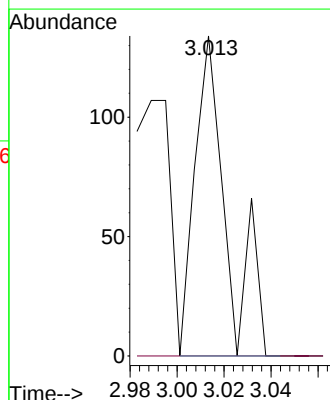
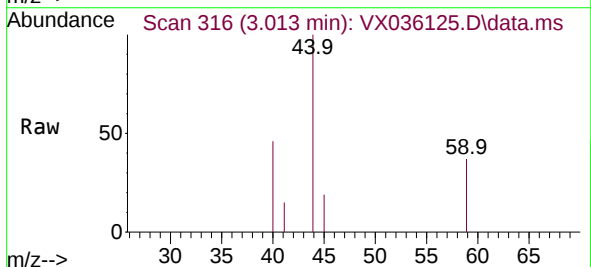
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

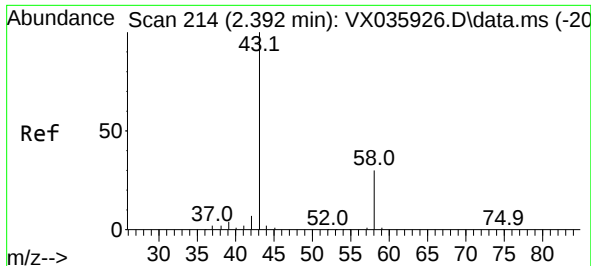
Tgt Ion:168 Resp: 199390  
Ion Ratio Lower Upper  
168 100  
99 69.8 57.0 85.6



#11  
Tert butyl alcohol  
Concen: 0.221 ug/l  
RT: 3.013 min Scan# 316  
Delta R.T. 0.006 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion: 59 Resp: 127  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

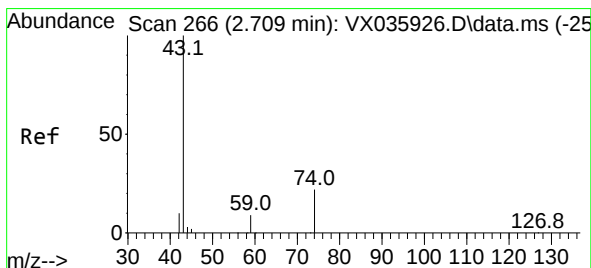
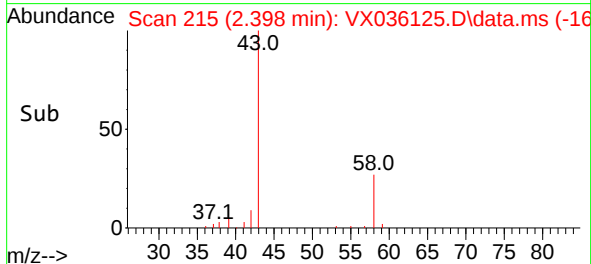
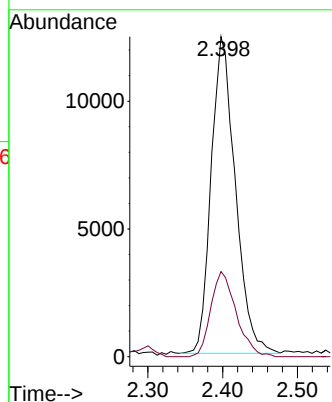
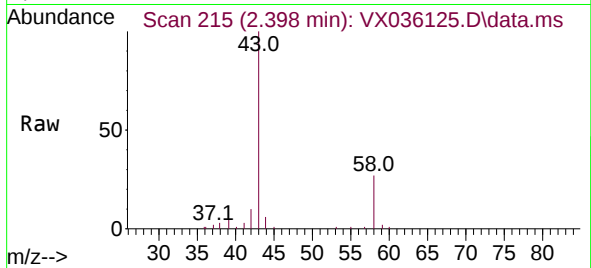




#16  
Acetone  
Concen: 20.898 ug/l  
RT: 2.398 min Scan# 214  
Delta R.T. 0.007 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

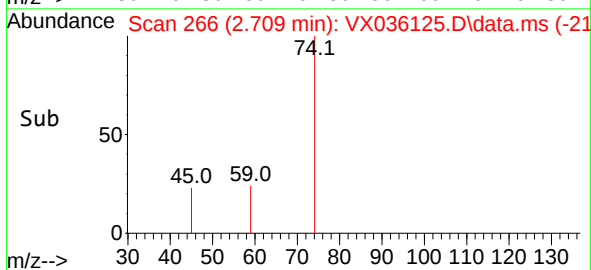
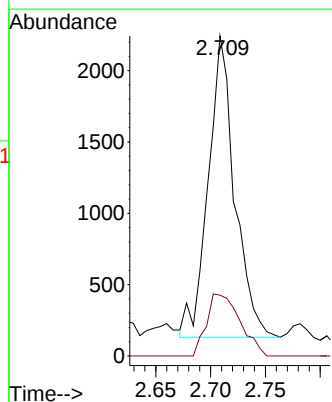
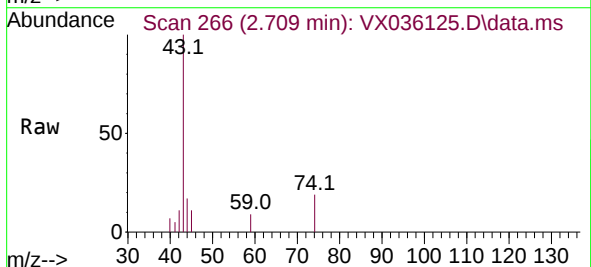
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

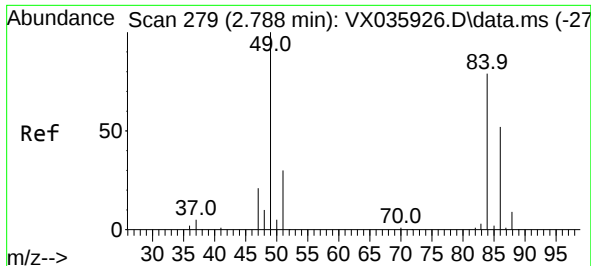
Tgt Ion: 43 Resp: 27915  
Ion Ratio Lower Upper  
43 100  
58 26.9 22.2 33.2



#18  
Methyl Acetate  
Concen: 0.684 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.007 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

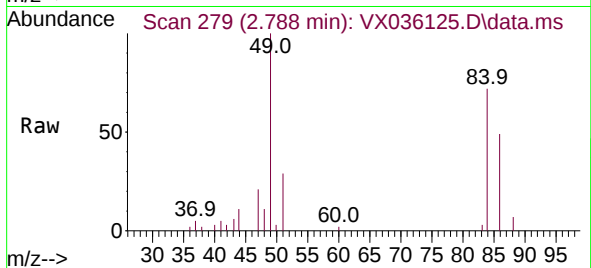
Tgt Ion: 43 Resp: 3552  
Ion Ratio Lower Upper  
43 100  
74 25.9 17.7 26.5



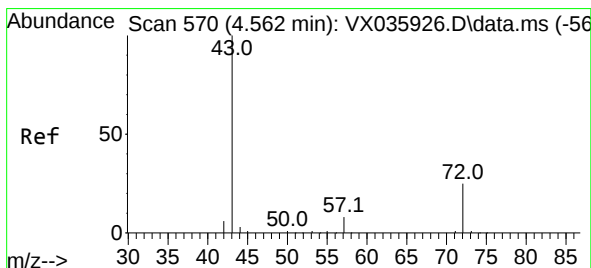
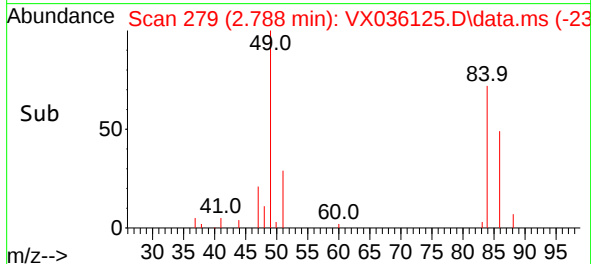
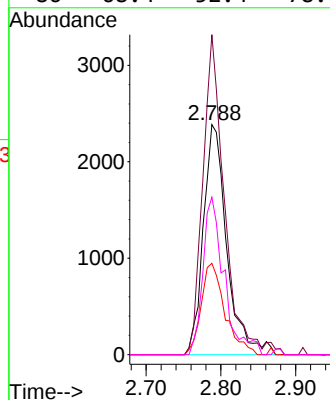


#20  
Methylene Chloride  
Concen: 2.027 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

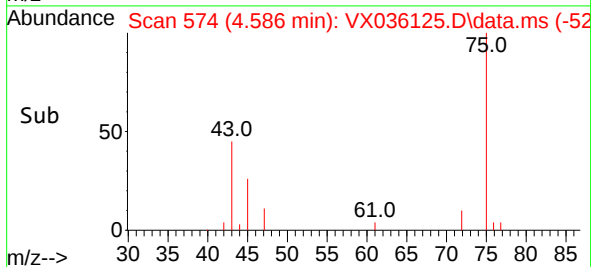
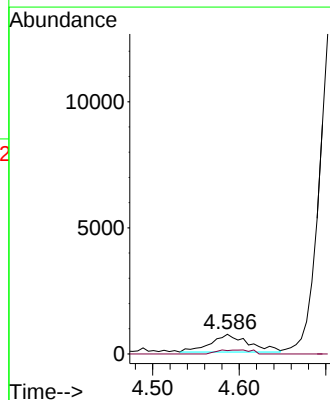
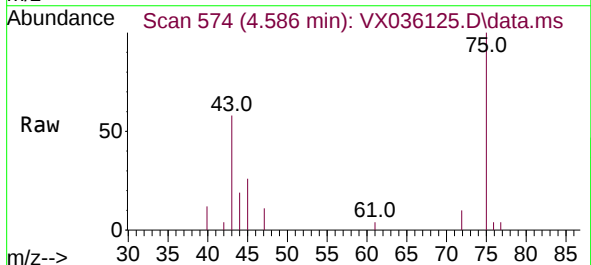


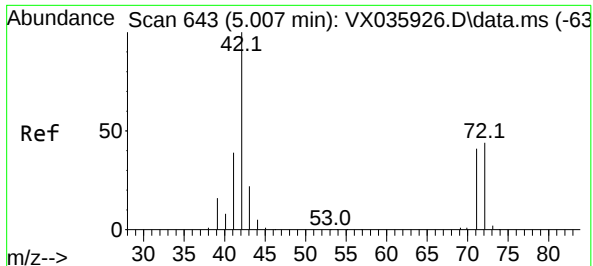
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5216  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 139.1 | 104.6 | 156.8 |
| 51       | 39.7  | 32.2  | 48.4  |
| 86       | 68.4  | 52.4  | 78.6  |



#25  
2-Butanone  
Concen: 1.145 ug/l  
RT: 4.586 min Scan# 574  
Delta R.T. 0.024 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2190  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 18.7  | 19.4  | 29.2# |





#29

Tetrahydrofuran

Concen: 0.602 ug/l

RT: 5.031 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

Instrument :

MSVOA\_X

ClientSampleId :

PB153331ZHE#05

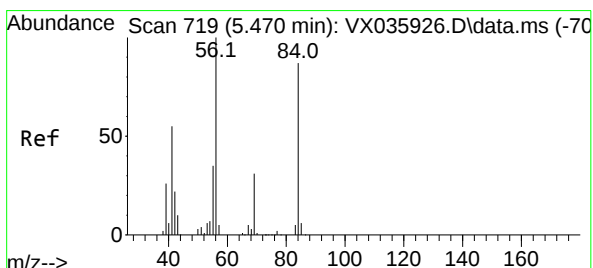
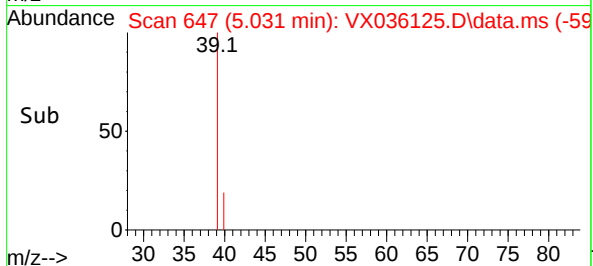
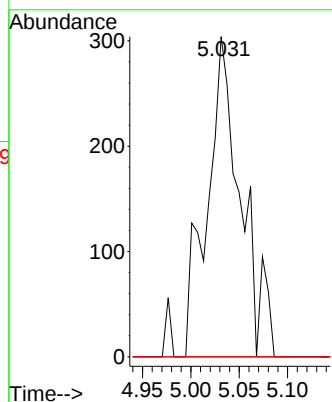
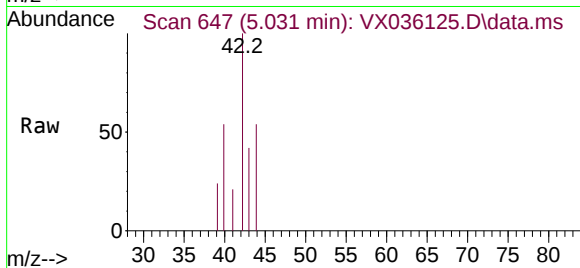
Tgt Ion: 42 Resp: 742

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 31.8 47.8#



#31

Cyclohexane

Concen: 1.603 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.080 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

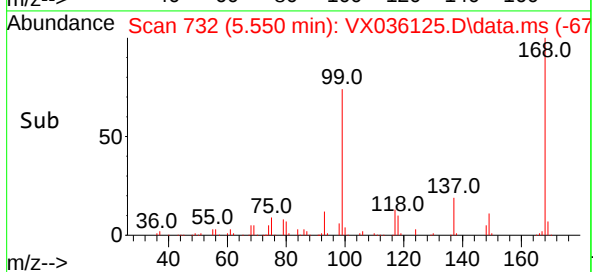
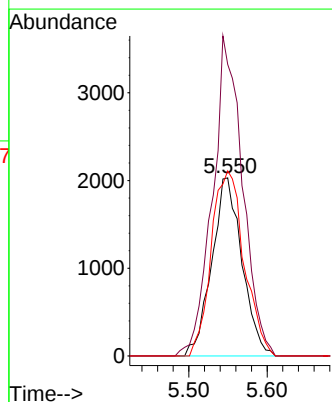
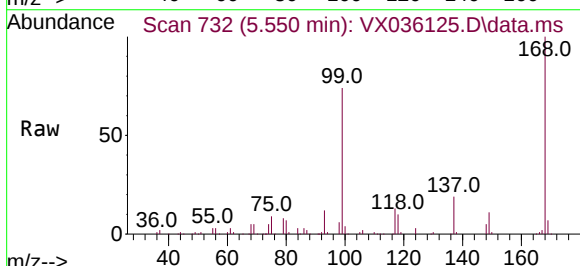
Tgt Ion: 56 Resp: 5435

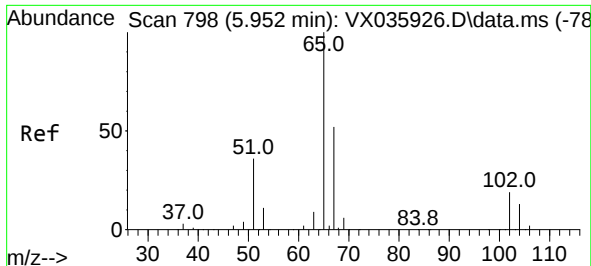
Ion Ratio Lower Upper

56 100

69 163.7 25.9 38.9#

84 103.9 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 47.868 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

Instrument :

MSVOA\_X

ClientSampleId :

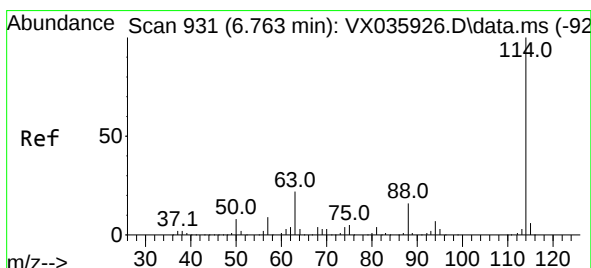
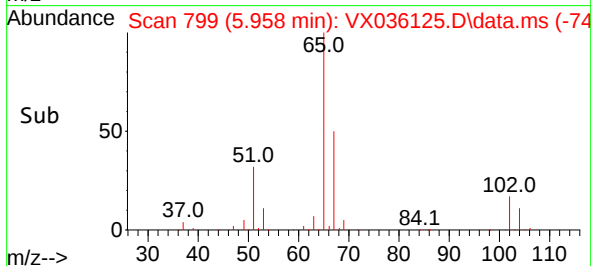
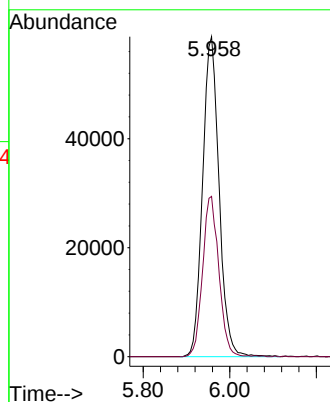
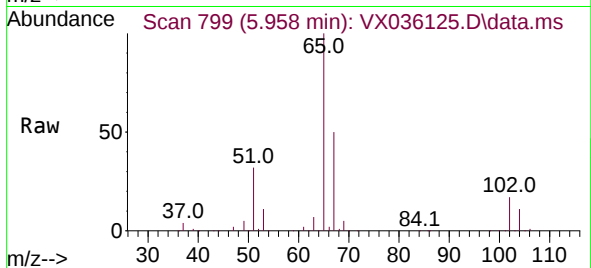
PB153331ZHE#05

Tgt Ion: 65 Resp: 154987

Ion Ratio Lower Upper

65 100

67 49.4 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

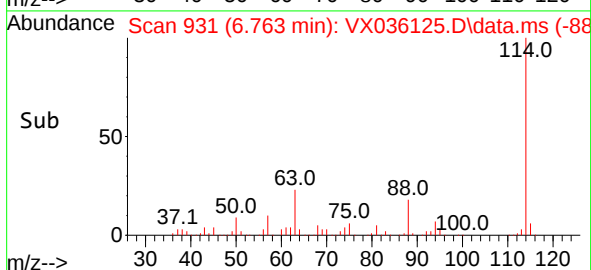
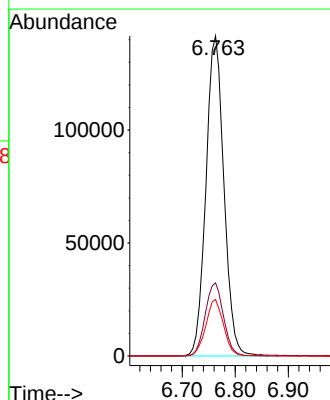
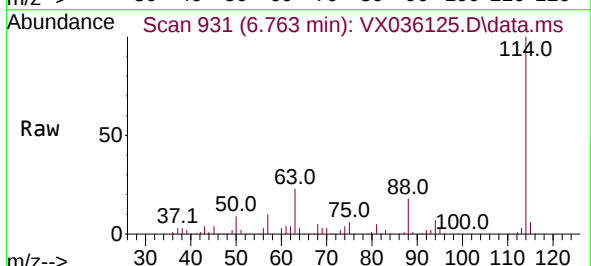
Tgt Ion: 114 Resp: 333141

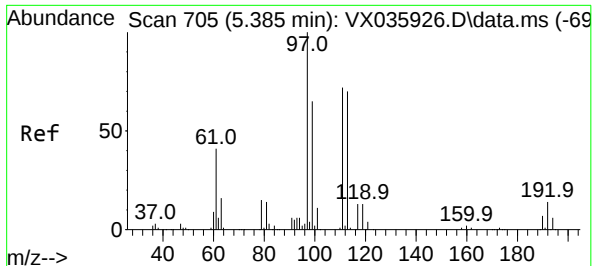
Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.0

88 17.6 0.0 35.2

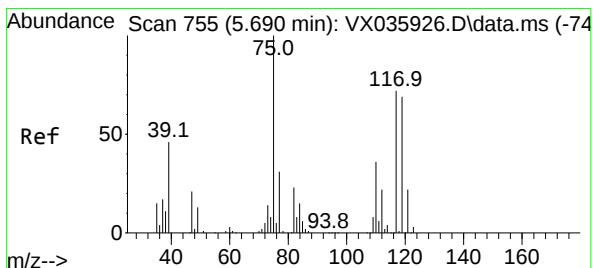
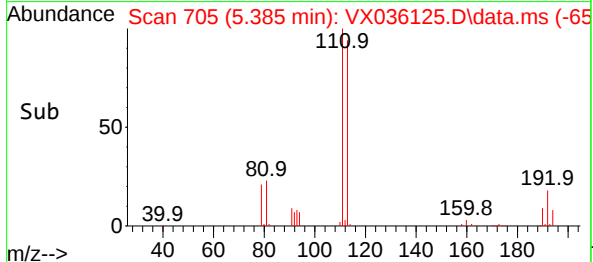
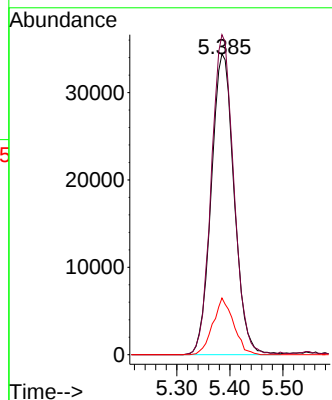
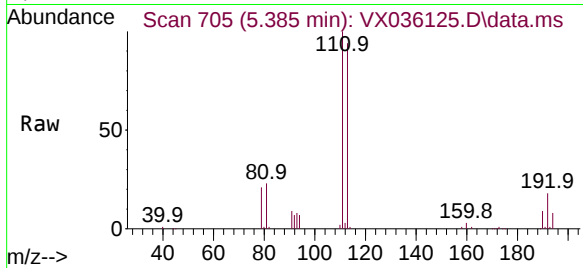




#35  
Dibromofluoromethane  
Concen: 45.924 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

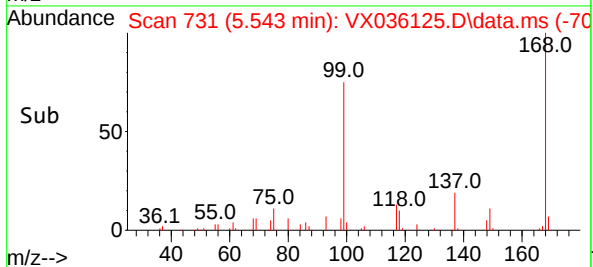
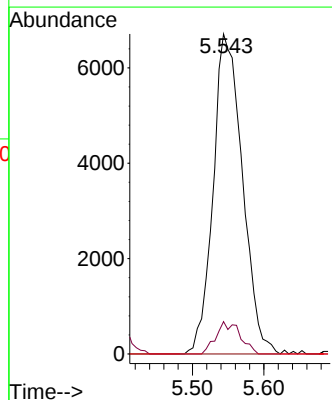
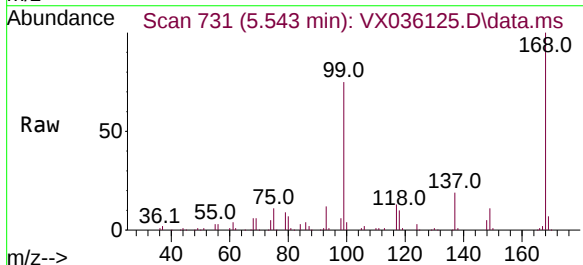
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

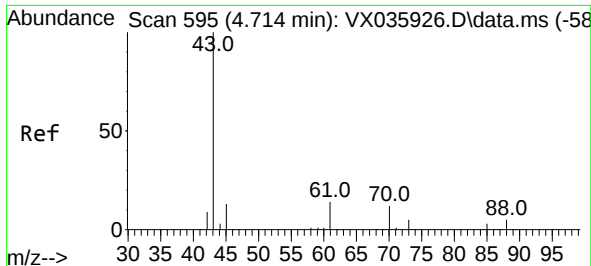
Tgt Ion:113 Resp: 102901  
Ion Ratio Lower Upper  
113 100  
111 104.5 81.7 122.5  
192 17.1 13.5 20.3



#36  
1,1-Dichloropropene  
Concen: 6.375 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.147 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion: 75 Resp: 19046  
Ion Ratio Lower Upper  
75 100  
110 8.3 16.6 49.7#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 16.743 ug/l

RT: 4.714 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

Instrument :

MSVOA\_X

ClientSampleId :

PB153331ZHE#05

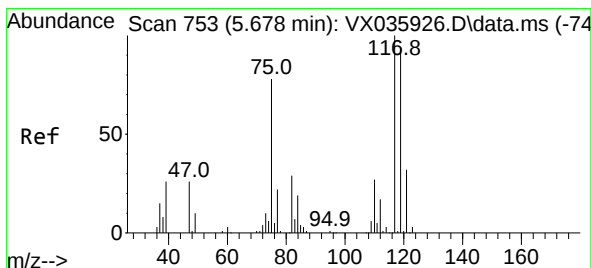
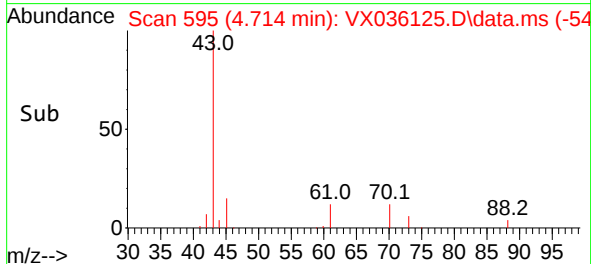
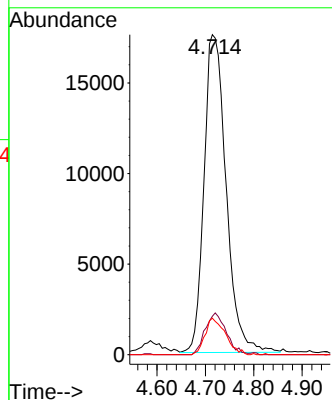
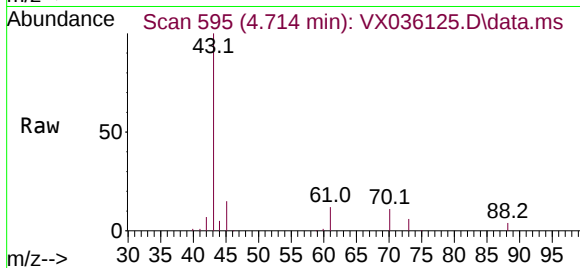
Tgt Ion: 43 Resp: 55708

Ion Ratio Lower Upper

43 100

61 12.5 10.3 15.5

70 10.6 8.3 12.5



#38

Carbon Tetrachloride

Concen: 8.150 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.127 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

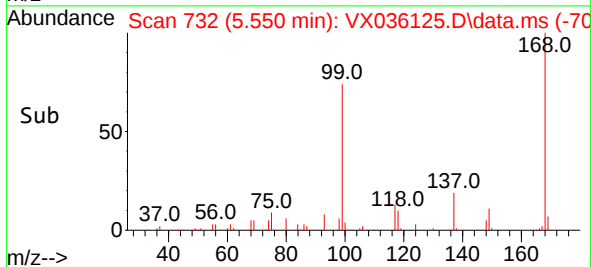
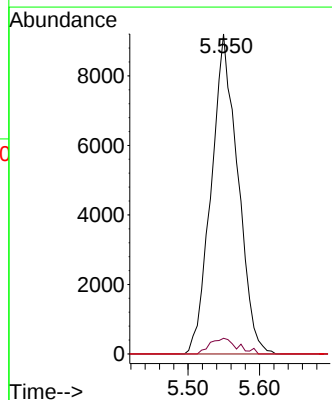
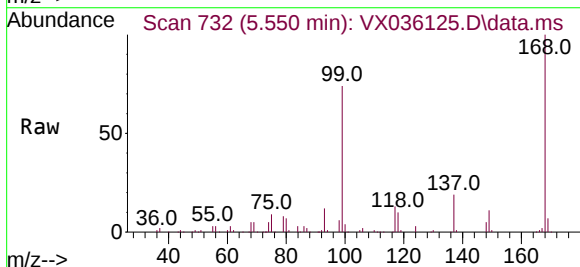
Tgt Ion: 117 Resp: 23727

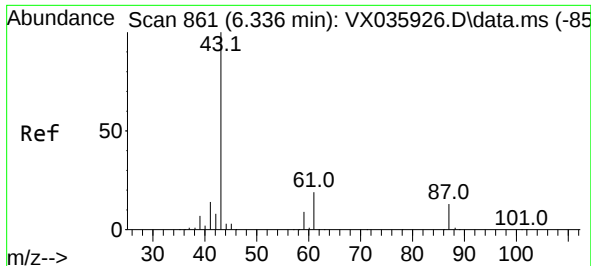
Ion Ratio Lower Upper

117 100

119 4.9 74.1 111.1#

121 0.0 25.0 37.4#

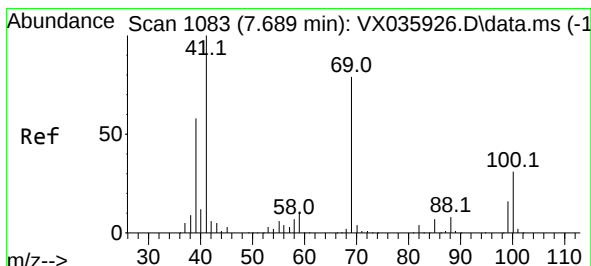
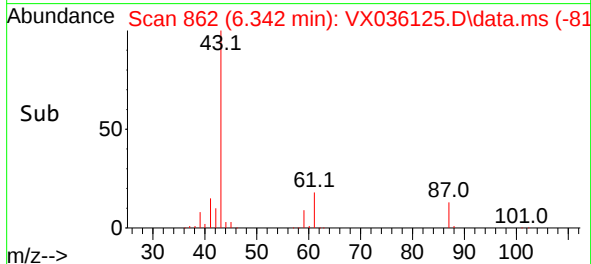
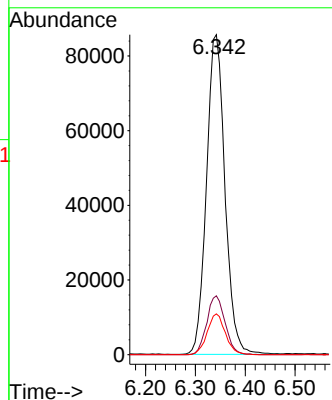
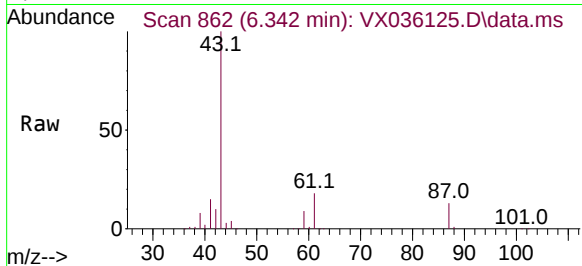




#43  
Isopropyl Acetate  
Concen: 40.351 ug/l  
RT: 6.342 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

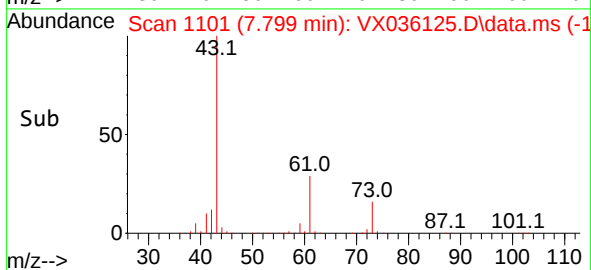
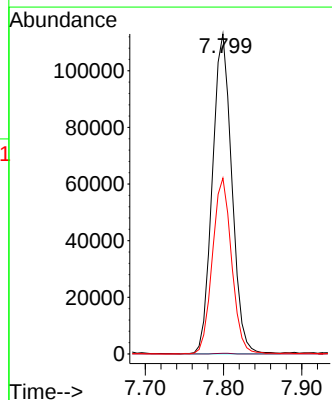
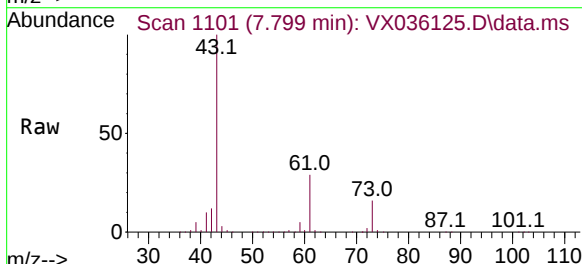
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

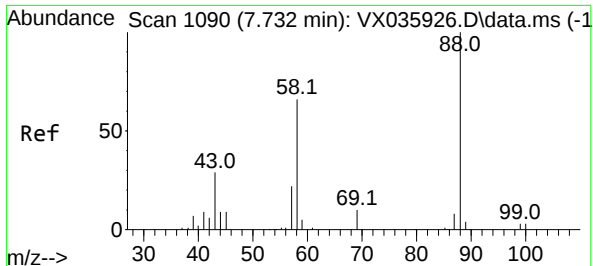
Tgt Ion: 43 Resp: 220757  
Ion Ratio Lower Upper  
43 100  
61 18.3 15.0 22.4  
87 12.6 9.9 14.9



#48  
Methyl methacrylate  
Concen: 72.505 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion: 41 Resp: 194527  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.0 88.6#  
39 54.5 48.4 72.6





#49

1,4-Dioxane

Concen: 1.514 ug/l

RT: 7.647 min Scan# 1090

Delta R.T. -0.067 min

Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

Instrument :

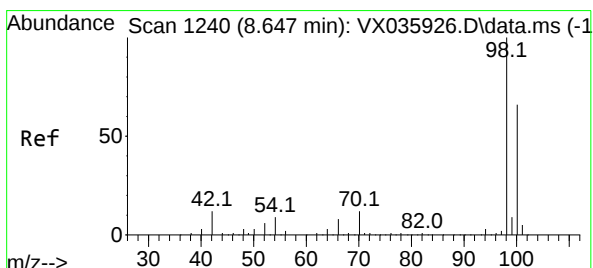
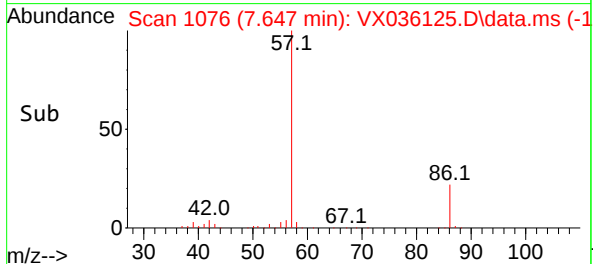
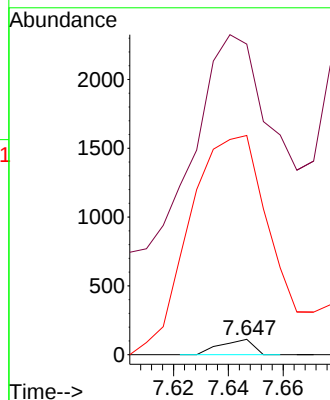
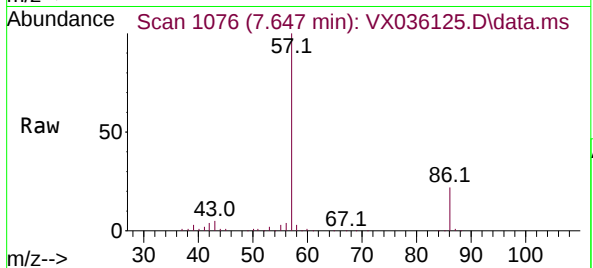
MSVOA\_X

ClientSampleId :

PB153331ZHE#05

Tgt Ion: 88 Resp: 93

| Ion | Ratio  | Lower | Upper |
|-----|--------|-------|-------|
| 88  | 100    |       |       |
| 43  | 0.0    | 27.4  | 41.0# |
| 58  | 3601.1 | 58.9  | 88.3# |



#50

Toluene-d8

Concen: 49.763 ug/l

RT: 8.647 min Scan# 1240

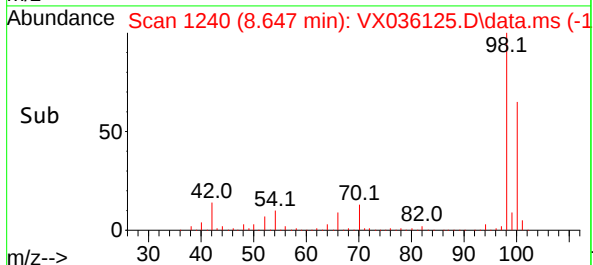
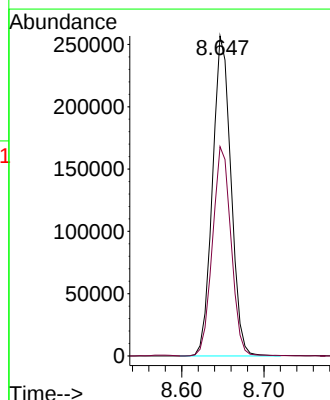
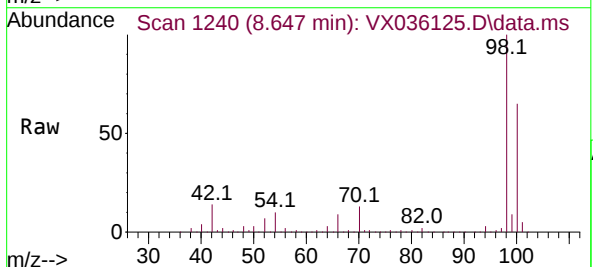
Delta R.T. 0.001 min

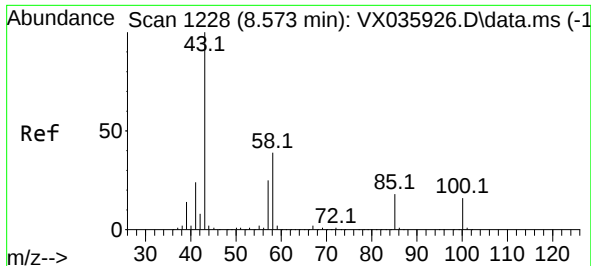
Lab File: VX036125.D

Acq: 12 Jun 2023 16:02

Tgt Ion: 98 Resp: 400182

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 65.9  | 53.4  | 80.0  |

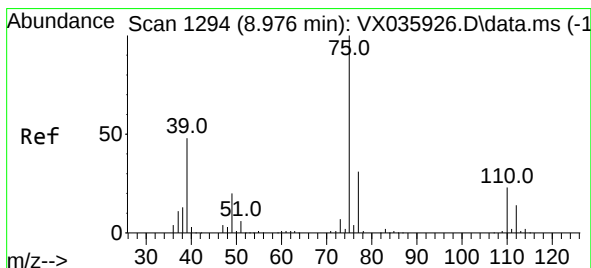
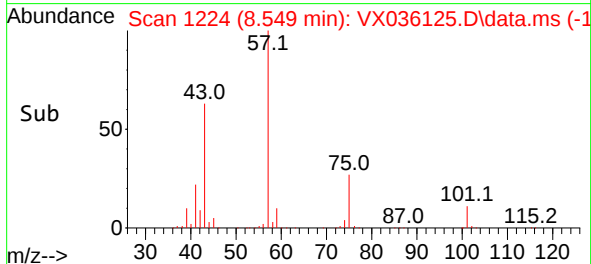
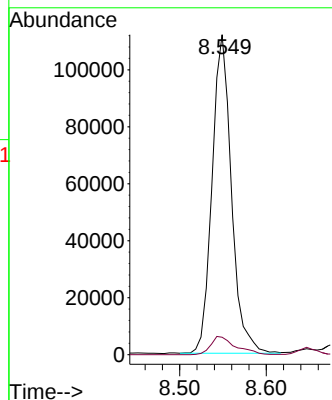
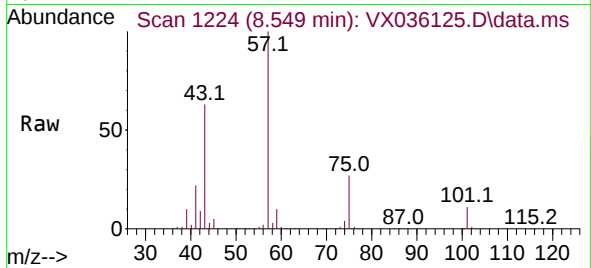




#51  
4-Methyl-2-Pentanone  
Concen: 52.028 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

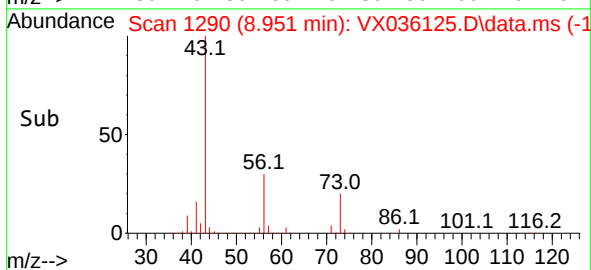
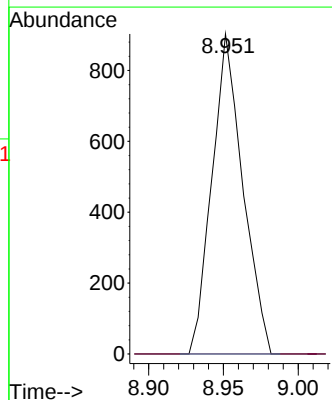
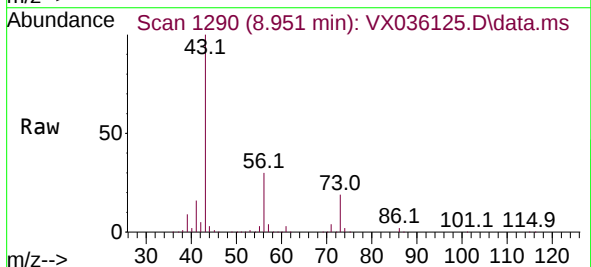
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

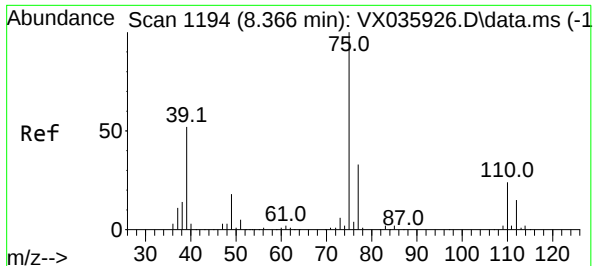
Tgt Ion: 43 Resp: 173748  
Ion Ratio Lower Upper  
43 100  
58 7.4 30.1 45.1#



#53  
t-1,3-Dichloropropene  
Concen: 0.397 ug/l  
RT: 8.951 min Scan# 1290  
Delta R.T. -0.025 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion: 75 Resp: 1294  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.0 37.6#

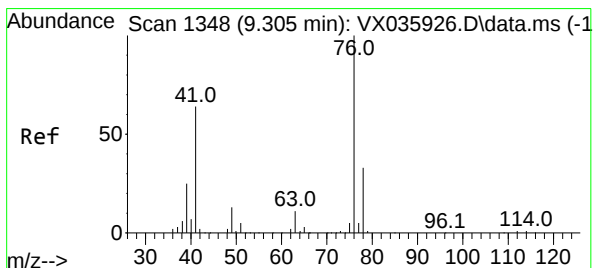
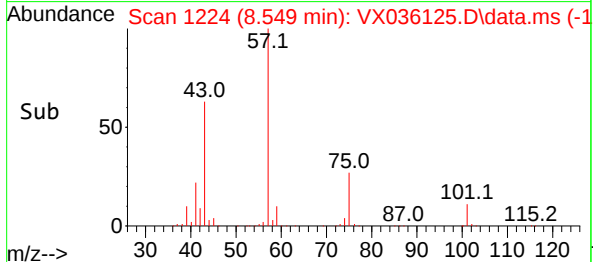
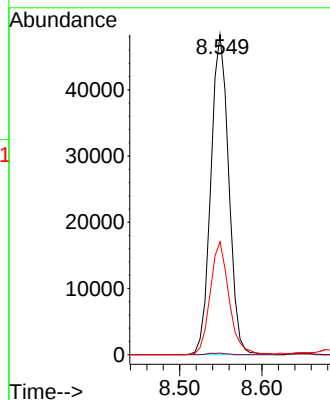
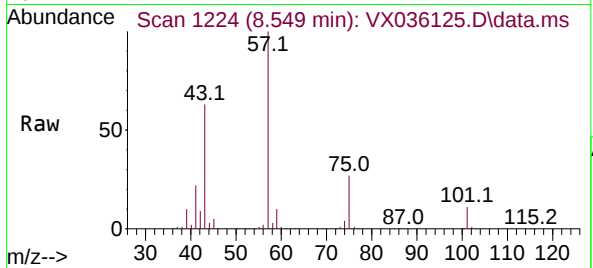




#54  
cis-1,3-Dichloropropene  
Concen: 20.264 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

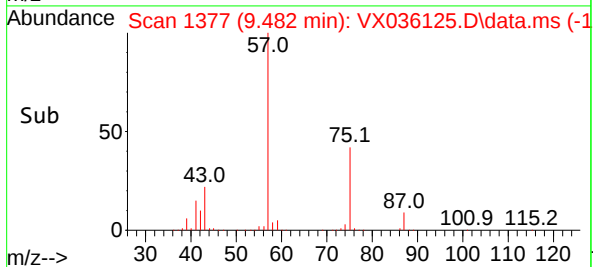
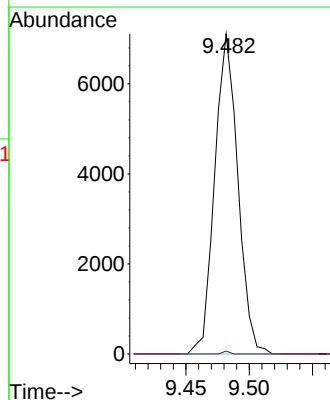
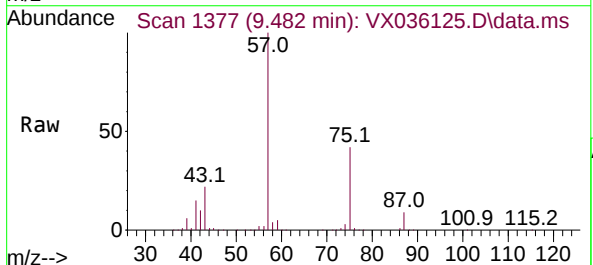
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

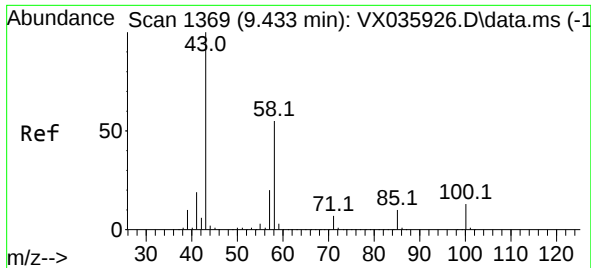
Tgt Ion: 75 Resp: 72946  
Ion Ratio Lower Upper  
75 100  
77 0.5 24.7 37.1#  
39 35.3 47.0 70.6#



#57  
1,3-Dichloropropane  
Concen: 2.233 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.171 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion: 76 Resp: 9025  
Ion Ratio Lower Upper  
76 100  
78 0.3 26.0 39.0#

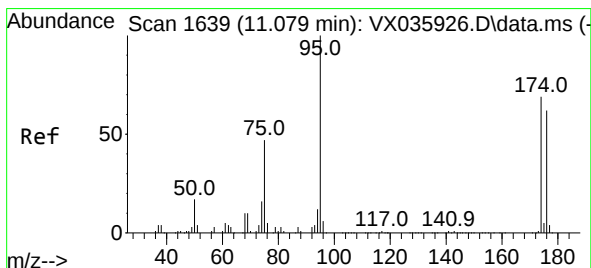
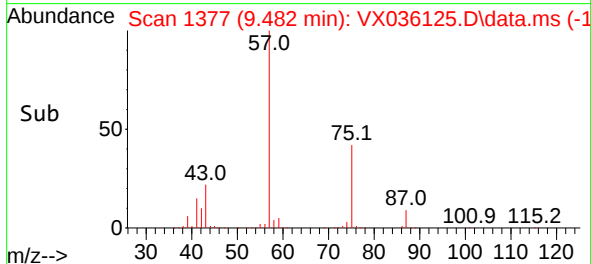
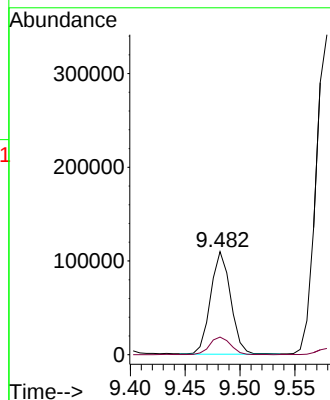
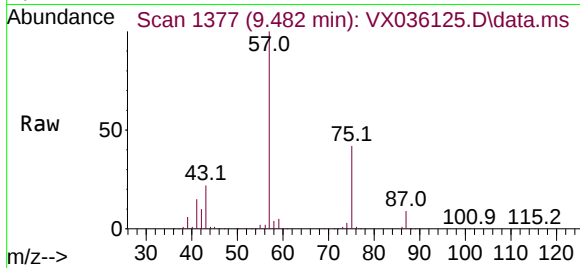




#59  
2-Hexanone  
Concen: 56.798 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

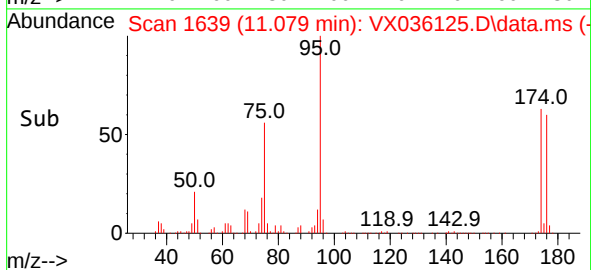
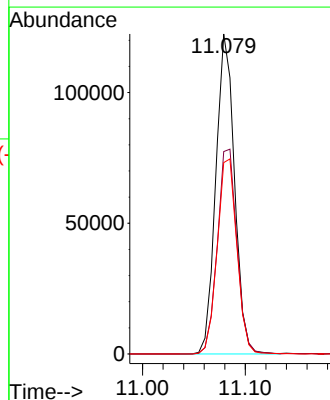
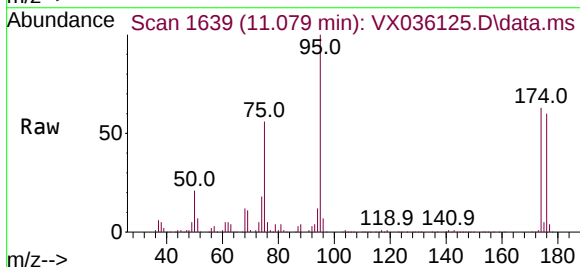
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

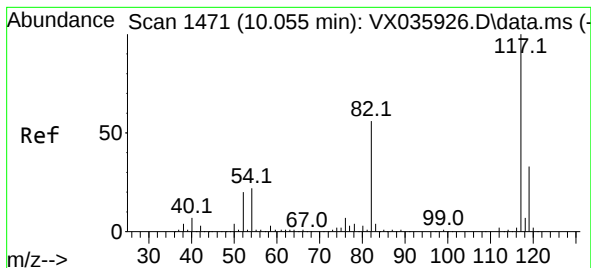
Tgt Ion: 43 Resp: 140229  
Ion Ratio Lower Upper  
43 100  
58 17.8 26.3 78.8#



#62  
4-Bromofluorobenzene  
Concen: 48.649 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion: 95 Resp: 154436  
Ion Ratio Lower Upper  
95 100  
174 67.1 0.0 132.6  
176 64.2 0.0 128.0

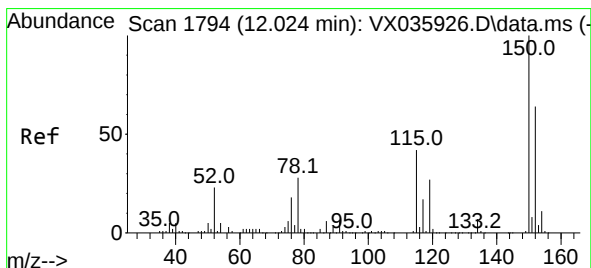
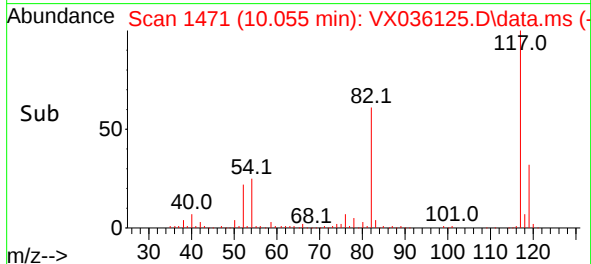
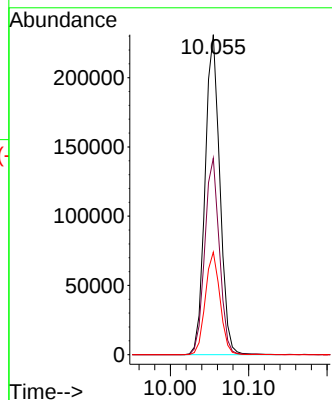
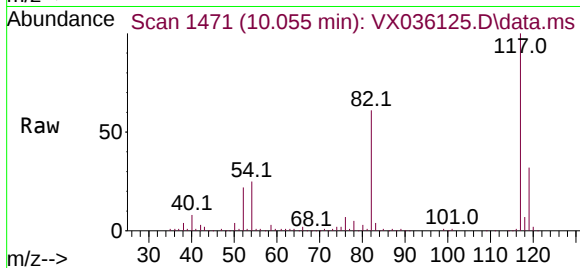




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

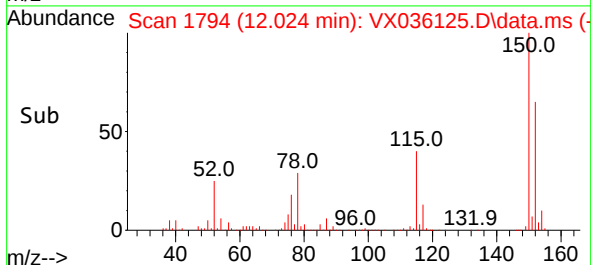
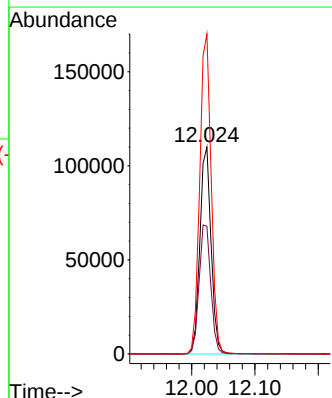
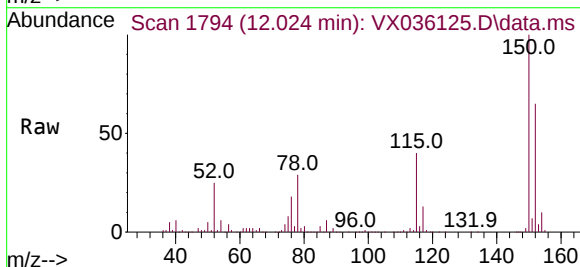
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

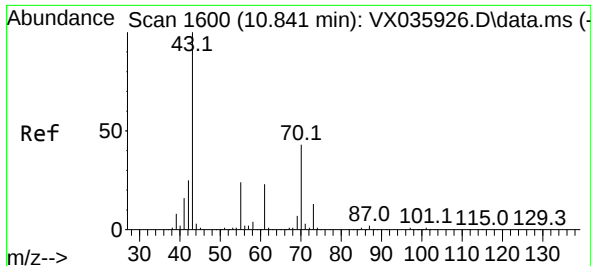
Tgt Ion:117 Resp: 301179  
Ion Ratio Lower Upper  
117 100  
82 61.4 46.6 69.8  
119 32.0 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

Tgt Ion:152 Resp: 135933  
Ion Ratio Lower Upper  
152 100  
115 65.3 45.5 136.5  
150 157.6 0.0 345.2

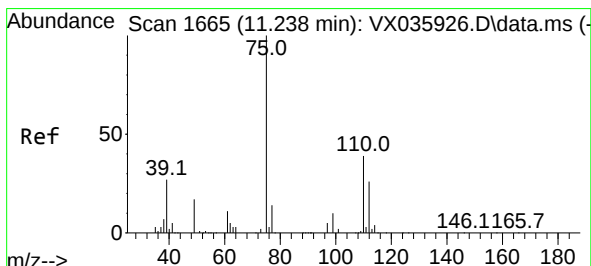
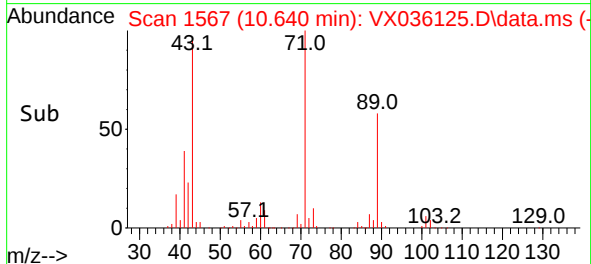
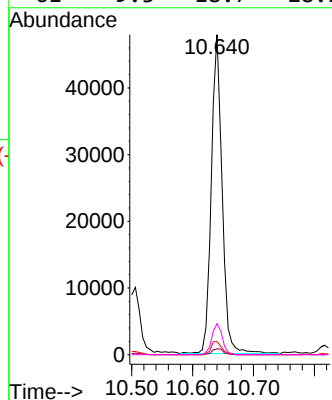
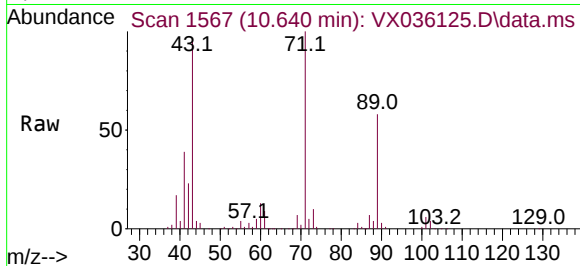




#74  
N-amy1 acetate  
Concen: 13.675 ug/l  
RT: 10.640 min Scan# 1639  
Delta R.T. -0.201 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

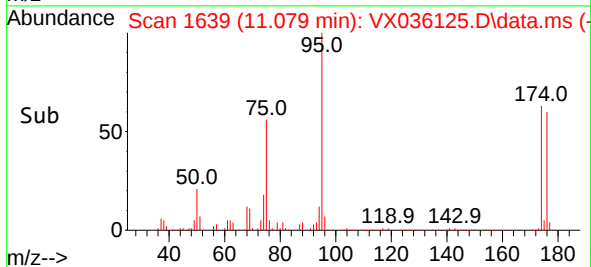
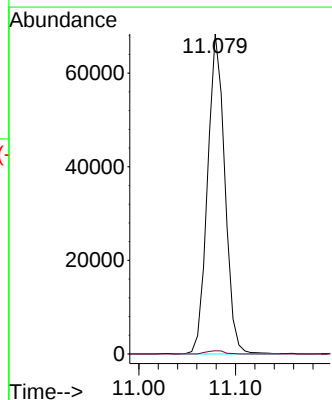
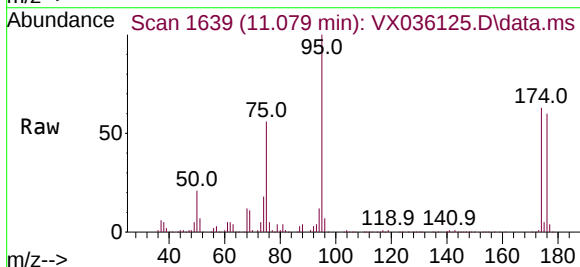
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#05

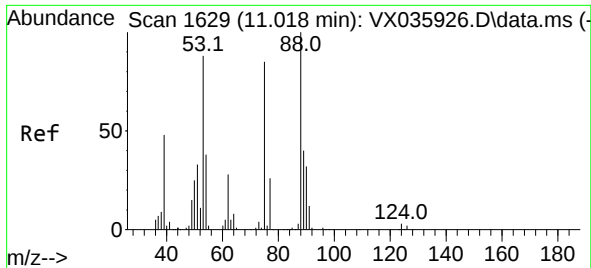
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 58880 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 2.0      | 32.6 48.8#  |
| 55 4.2      | 19.0 28.4#  |
| 61 9.3      | 18.7 28.1#  |



#76  
1,2,3-Trichloropropane  
Concen: 27.737 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX036125.D  
Acq: 12 Jun 2023 16:02

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 85037 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 1.1      | 21.4 64.2#  |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 93.425 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX036125.D  
 Acq: 12 Jun 2023 16:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153331ZHE#05

Tgt Ion: 75 Resp: 85037  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 95.2 142.8#  
 89 0.0 38.0 57.0#

