

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100224\  
 Data File : VX043225.D  
 Acq On : 02 Oct 2024 12:43  
 Operator : JC/MD  
 Sample : PB163826ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB163826ZHE#04

Quant Time: Oct 02 23:01:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

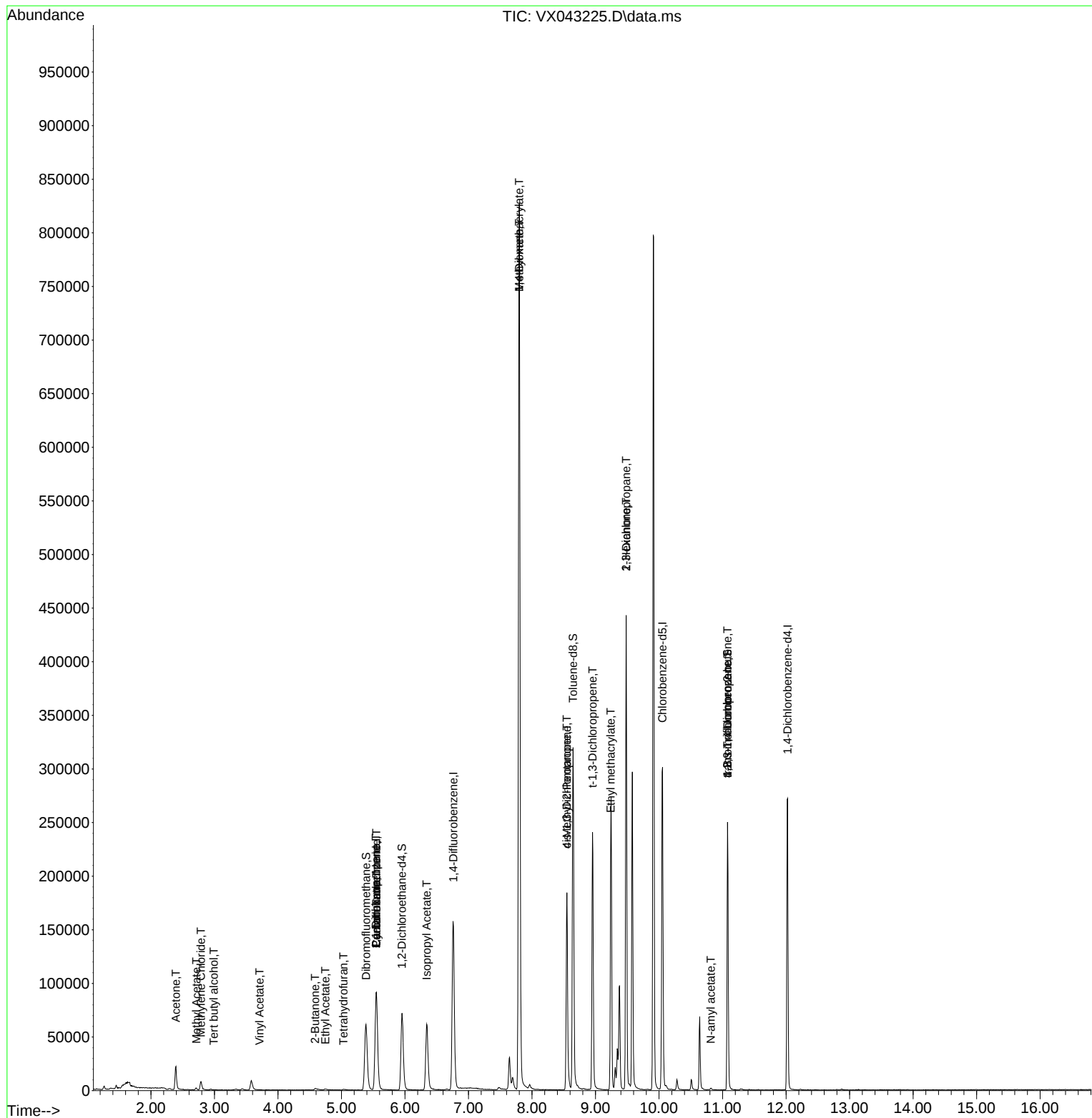
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 84081    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 161375   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 135591   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 57429    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 72207    | 52.584   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 105.160% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 53861    | 48.397   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 96.800%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 189983   | 49.260   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 98.520%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 66635    | 47.558   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 95.120%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 2.989  | 59    | 283      | 1.083    | ug/l #     | 71       |
| 16) Acetone                   | 2.392  | 43    | 26027    | 45.387   | ug/l       | 98       |
| 18) Methyl Acetate            | 2.715  | 43    | 2338     | 1.625    | ug/l #     | 89       |
| 20) Methylene Chloride        | 2.788  | 84    | 4035     | 3.816    | ug/l       | 99       |
| 23) Vinyl Acetate             | 3.709  | 43    | 67       | 6.358    | ug/l #     | 71       |
| 25) 2-Butanone                | 4.587  | 43    | 3566     | 4.535    | ug/l       | 97       |
| 29) Tetrahydrofuran           | 5.032  | 42    | 687      | 1.372    | ug/l #     | 37       |
| 31) Cyclohexane               | 5.550  | 56    | 1975     | 1.333    | ug/l #     | 3        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 7313     | 5.201    | ug/l #     | 50       |
| 37) Ethyl Acetate             | 4.745  | 43    | 1921     | 1.138    | ug/l #     | 84       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 9212     | 5.535    | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 87806    | 31.486   | ug/l       | 100      |
| 48) Methyl methacrylate       | 7.799  | 41    | 76646    | 56.015   | ug/l #     | 45       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 53       | 1.993    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 70029    | 41.346   | ug/l #     | 51       |
| 53) t-1,3-Dichloropropene     | 8.952  | 75    | 519      | 0.317    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 29586    | 16.844   | ug/l #     | 60       |
| 56) Ethyl methacrylate        | 9.238  | 69    | 556      | 0.320    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 3699     | 2.046    | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 53685    | 41.914   | ug/l #     | 51       |
| 74) N-amyl acetate            | 10.817 | 43    | 807      | 0.381    | ug/l #     | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 36477    | 28.636   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 36477    | 74.213   | ug/l #     | 8        |
| -----                         |        |       |          |          |            |          |

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

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Sample : PB163826ZHE#04  
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ALS Vial : 11 Sample Multiplier: 1

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ClientSampleId :  
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Quant Time: Oct 02 23:01:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 16:50:57 2024  
Response via : Initial Calibration

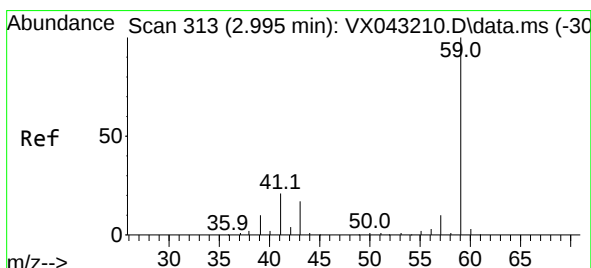
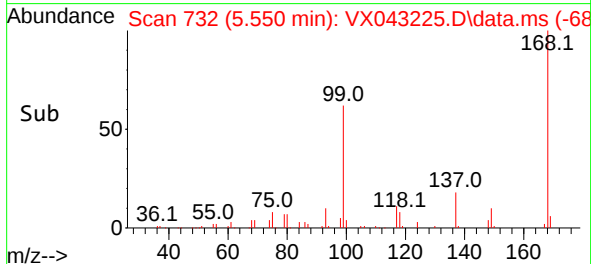
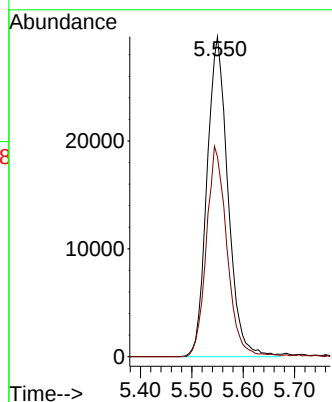
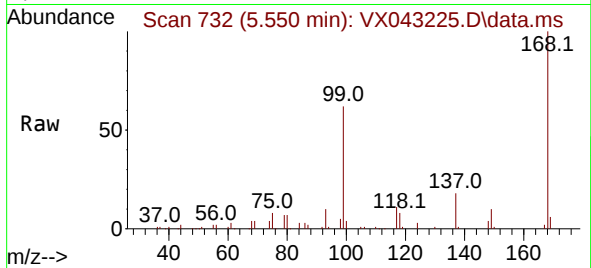




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

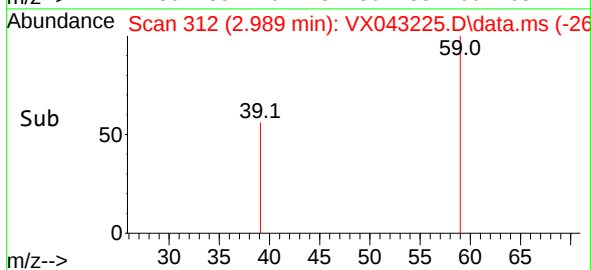
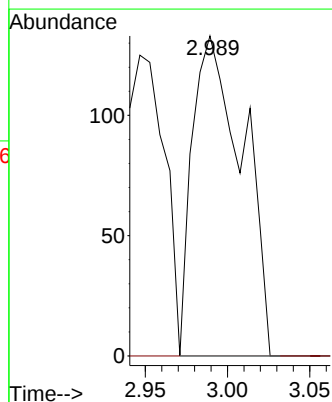
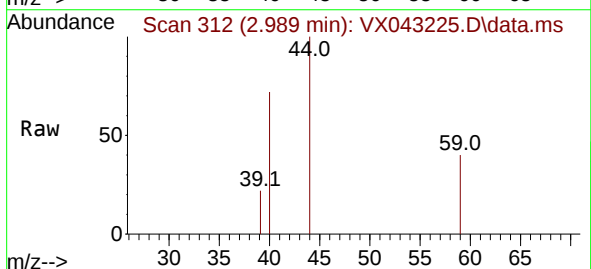
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

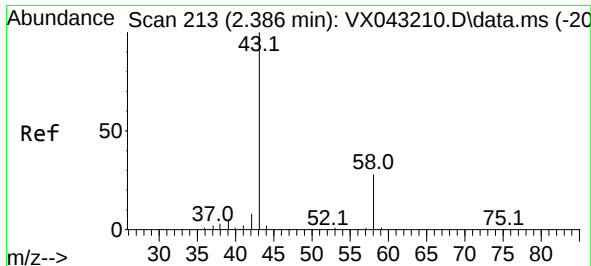
Tgt Ion:168 Resp: 84081  
Ion Ratio Lower Upper  
168 100  
99 62.4 49.7 74.5



#11  
Tert butyl alcohol  
Concen: 1.083 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.006 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 59 Resp: 283  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#

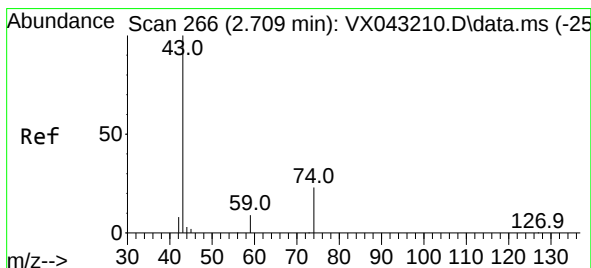
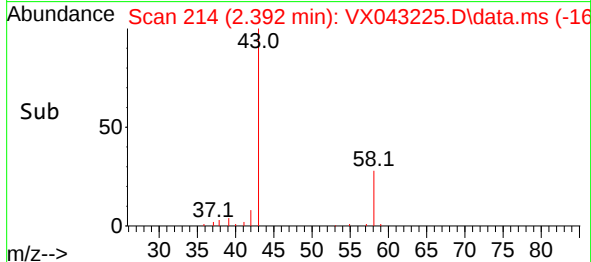
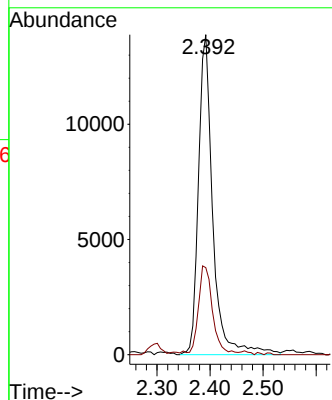
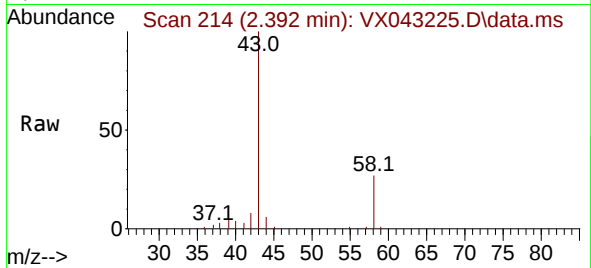




#16  
Acetone  
Concen: 45.387 ug/l  
RT: 2.392 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

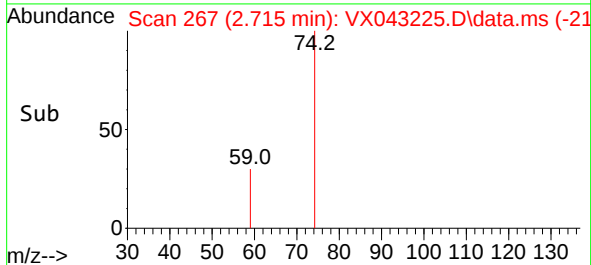
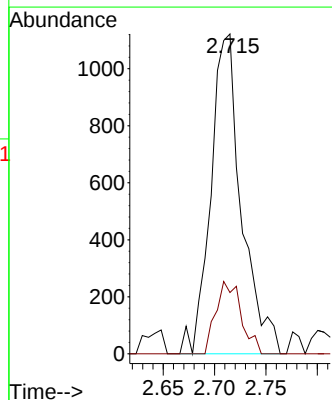
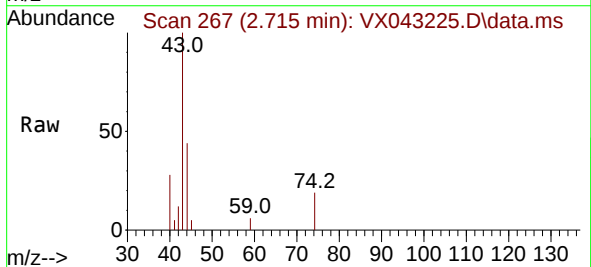
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

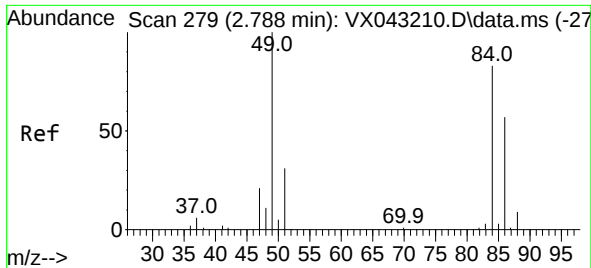
Tgt Ion: 43 Resp: 26027  
Ion Ratio Lower Upper  
43 100  
58 27.2 22.6 33.8



#18  
Methyl Acetate  
Concen: 1.625 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 43 Resp: 2338  
Ion Ratio Lower Upper  
43 100  
74 18.6 19.1 28.7#

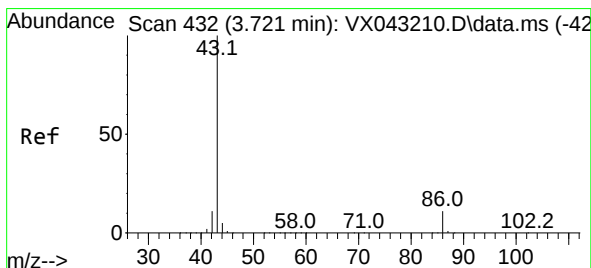
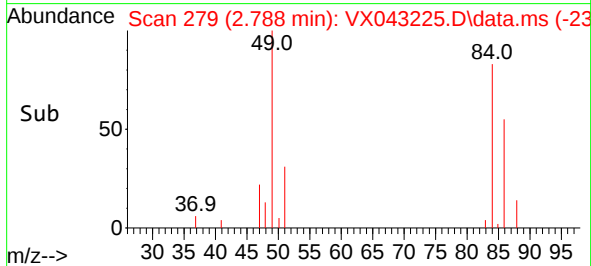
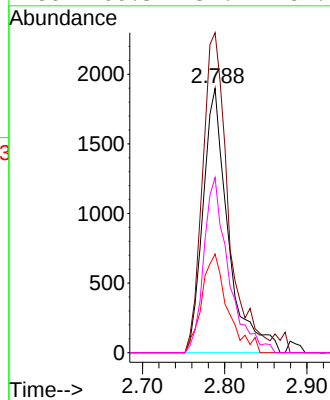
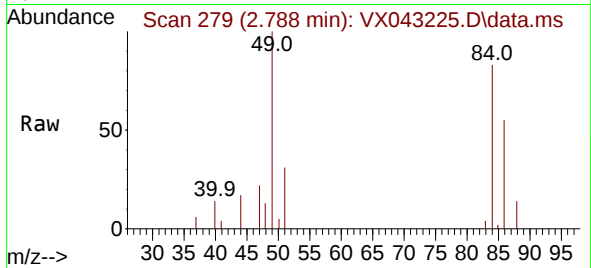




#20  
Methylene Chloride  
Concen: 3.816 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

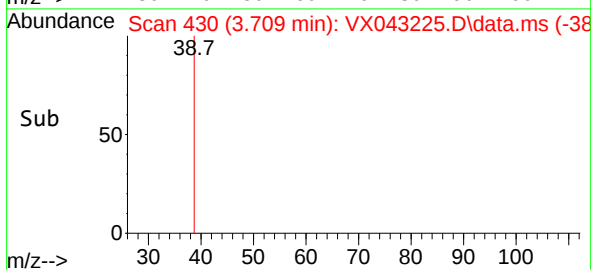
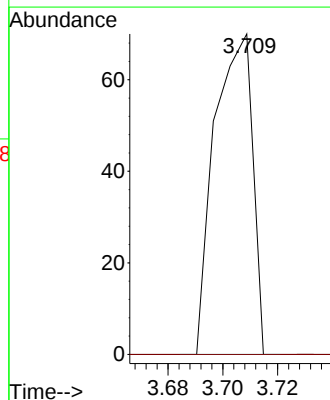
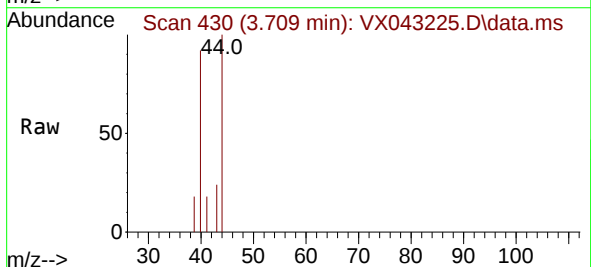
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

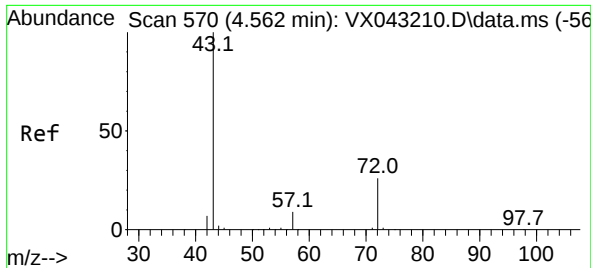
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 4035  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 121.1    | 96.7 145.1  |
| 51 37.3     | 30.4 45.6   |
| 86 66.3     | 54.7 82.1   |



#23  
Vinyl Acetate  
Concen: 6.358 ug/l  
RT: 3.709 min Scan# 430  
Delta R.T. -0.012 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

|             |          |       |  |
|-------------|----------|-------|--|
| Tgt Ion: 43 | Resp: 67 |       |  |
| Ion Ratio   | Lower    | Upper |  |
| 43 100      |          |       |  |
| 86 0.0      | 8.8      | 13.2# |  |

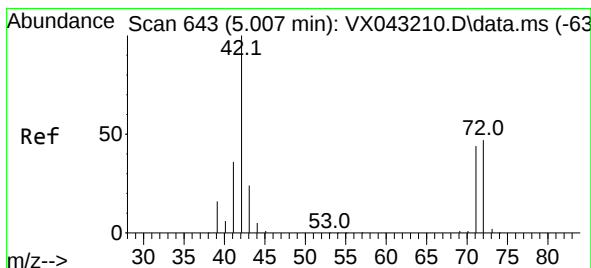
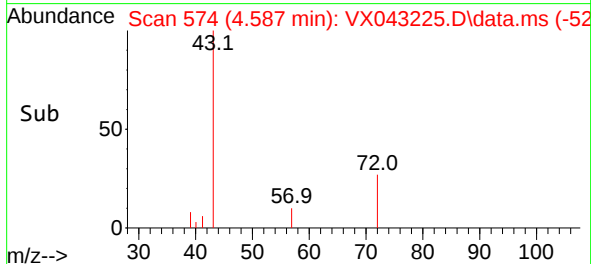
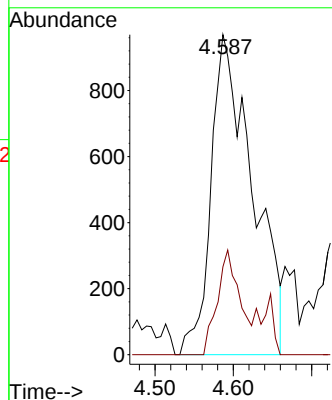
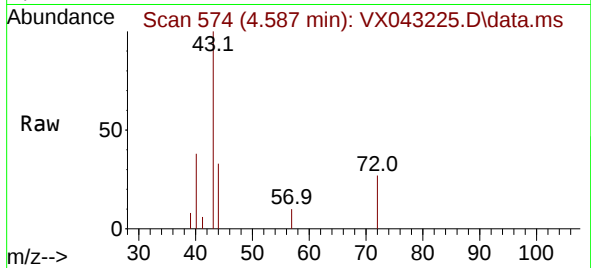




#25  
2-Butanone  
Concen: 4.535 ug/l  
RT: 4.587 min Scan# 51  
Delta R.T. 0.025 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

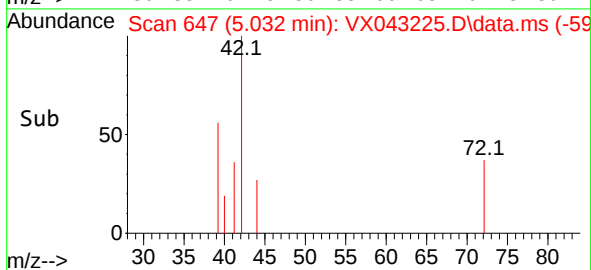
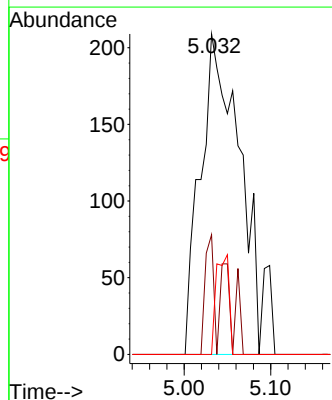
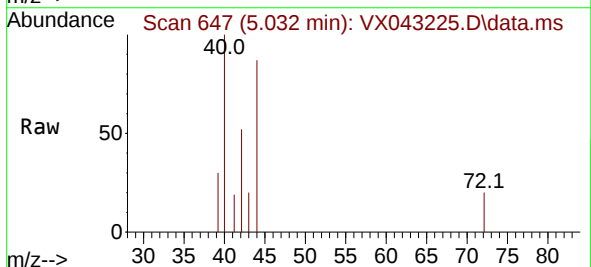
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

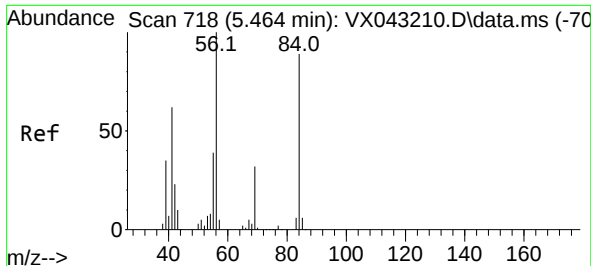
Tgt Ion: 43 Resp: 3566  
Ion Ratio Lower Upper  
43 100  
72 27.5 20.6 31.0



#29  
Tetrahydrofuran  
Concen: 1.372 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.024 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

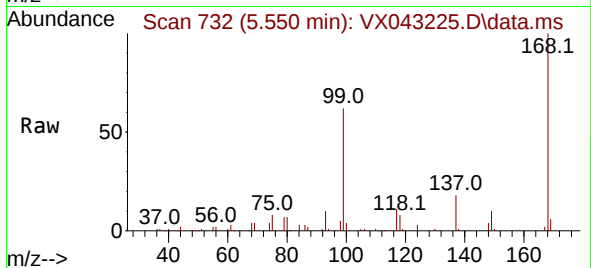
Tgt Ion: 42 Resp: 687  
Ion Ratio Lower Upper  
42 100  
72 7.7 37.7 56.5#  
71 0.0 34.6 52.0#



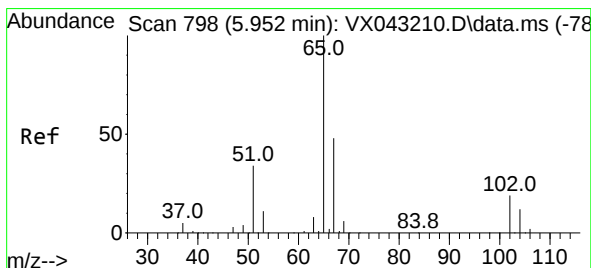
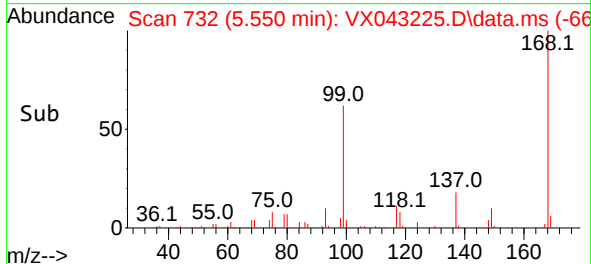
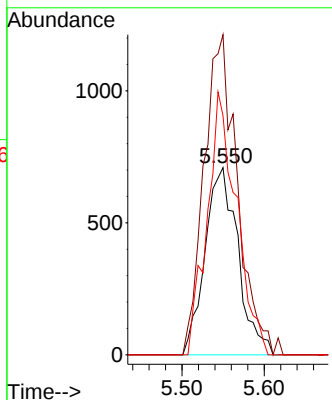


#31  
Cyclohexane  
Concen: 1.333 ug/l  
RT: 5.550 min Scan# 718  
Delta R.T. 0.085 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

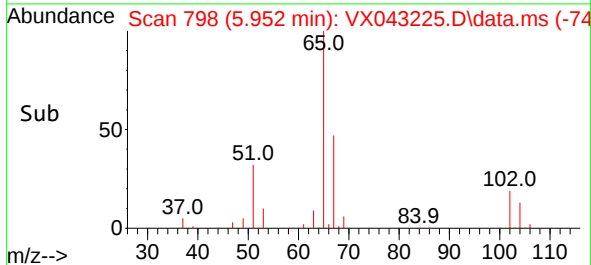
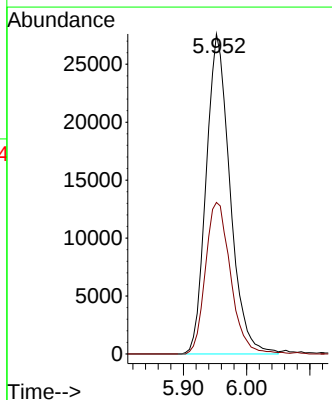
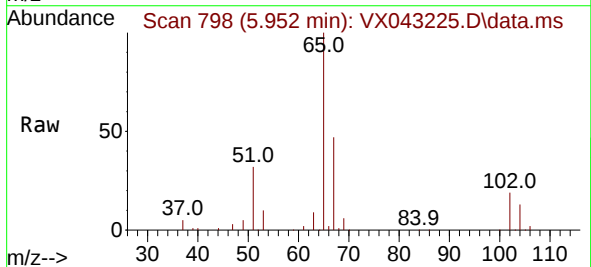


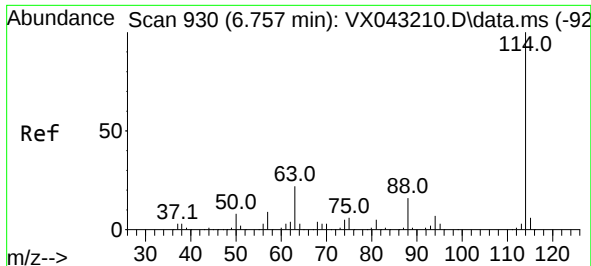
Tgt Ion: 56 Resp: 1975  
Ion Ratio Lower Upper  
56 100  
69 171.1 25.8 38.6#  
84 127.8 71.1 106.7#



#33  
1,2-Dichloroethane-d4  
Concen: 52.584 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 65 Resp: 72207  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 99.0

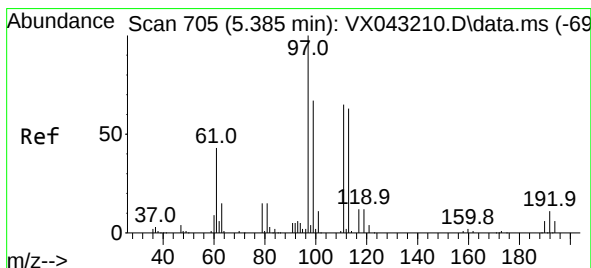
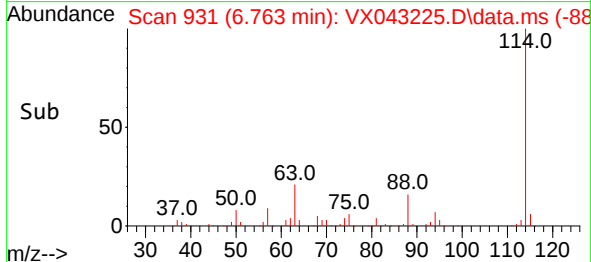
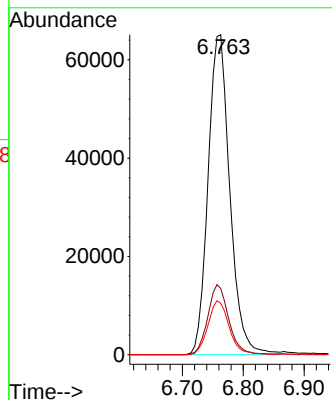
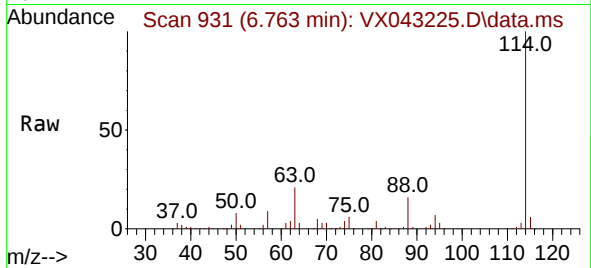




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

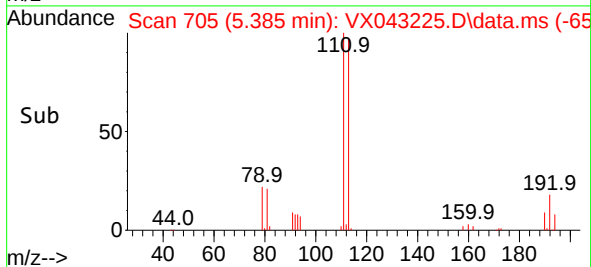
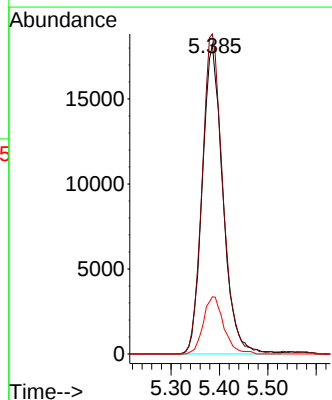
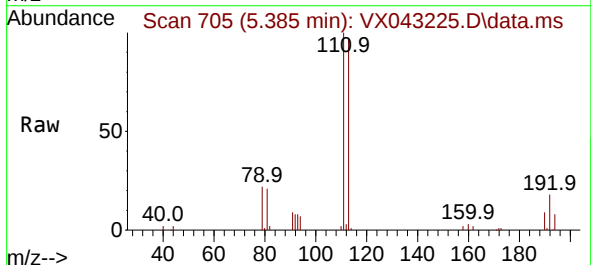
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

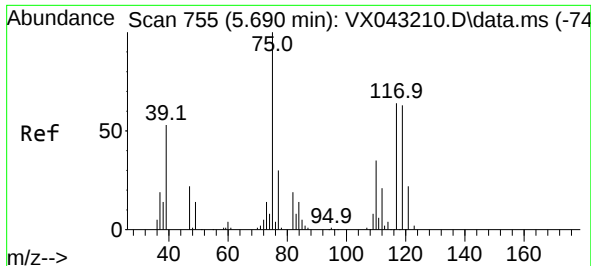
Tgt Ion:114 Resp: 161375  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 43.0  
88 16.1 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 48.397 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion:113 Resp: 53861  
Ion Ratio Lower Upper  
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111 103.4 83.4 125.0  
192 18.3 14.1 21.1

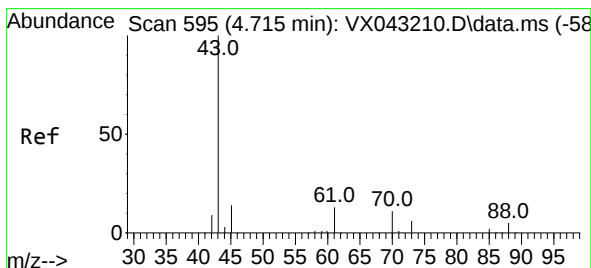
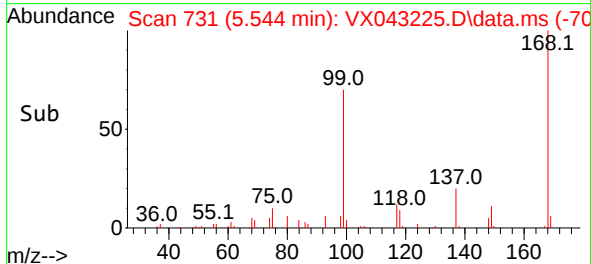
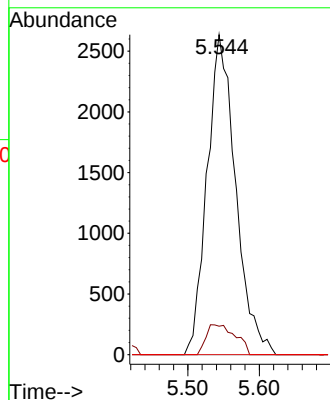
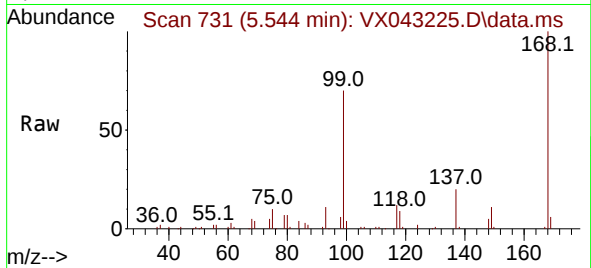




#36  
1,1-Dichloropropene  
Concen: 5.201 ug/l  
RT: 5.544 min Scan# 713  
Delta R.T. -0.146 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

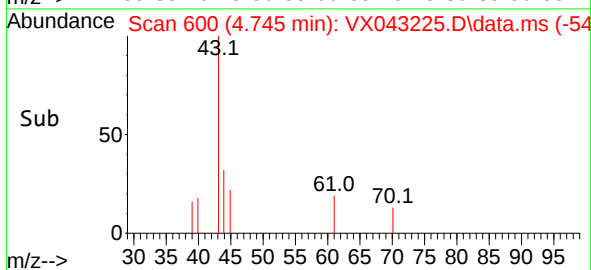
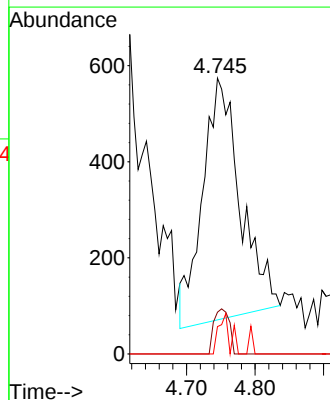
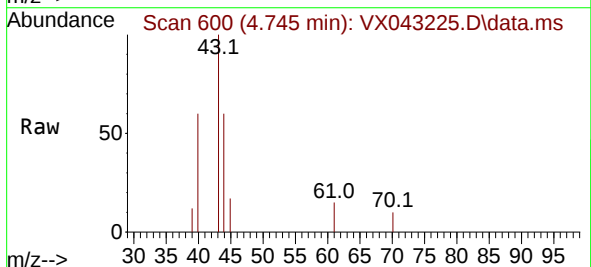
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

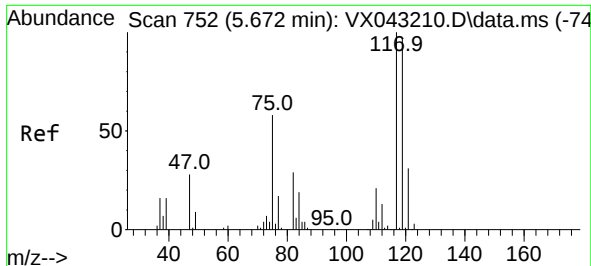
Tgt Ion: 75 Resp: 7313  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.8 53.3#  
77 0.0 24.9 37.3#



#37  
Ethyl Acetate  
Concen: 1.138 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.031 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

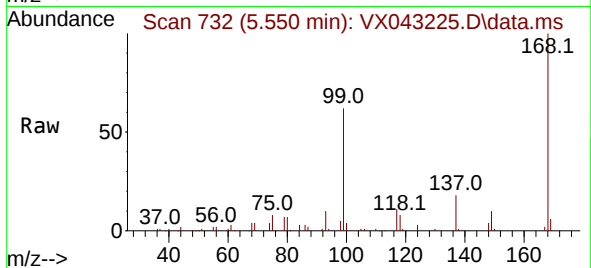
Tgt Ion: 43 Resp: 1921  
Ion Ratio Lower Upper  
43 100  
61 7.6 11.0 16.4#  
70 5.0 8.9 13.3#



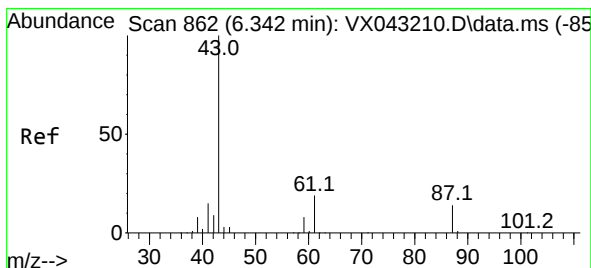
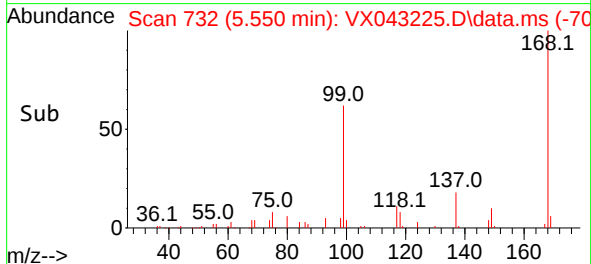
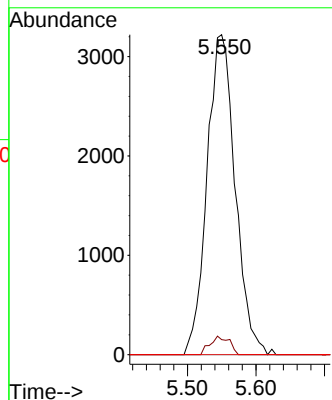


#38  
Carbon Tetrachloride  
Concen: 5.535 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

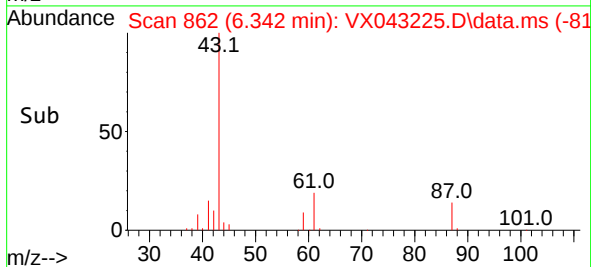
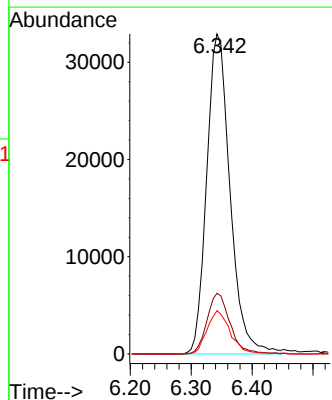
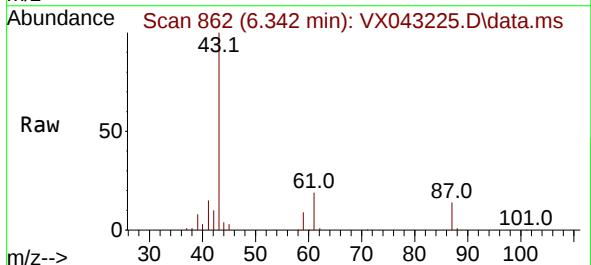


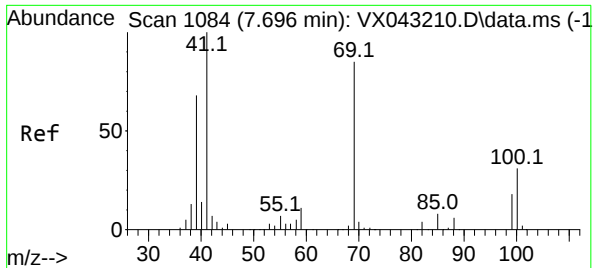
Tgt Ion:117 Resp: 9212  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.7 116.5#  
121 0.0 24.3 36.5#



#43  
Isopropyl Acetate  
Concen: 31.486 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 43 Resp: 87806  
Ion Ratio Lower Upper  
43 100  
61 18.7 15.1 22.7  
87 13.4 10.8 16.2

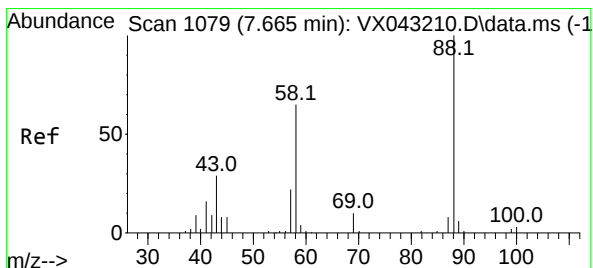
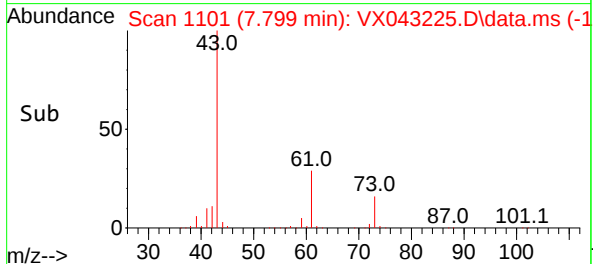
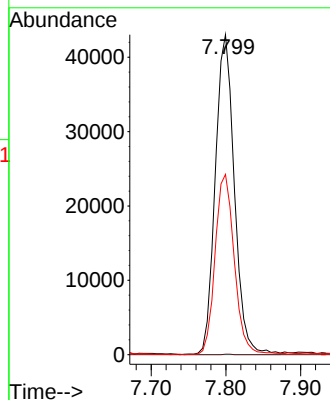
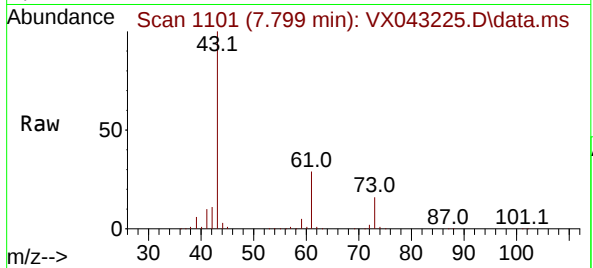




#48  
Methyl methacrylate  
Concen: 56.015 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.104 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

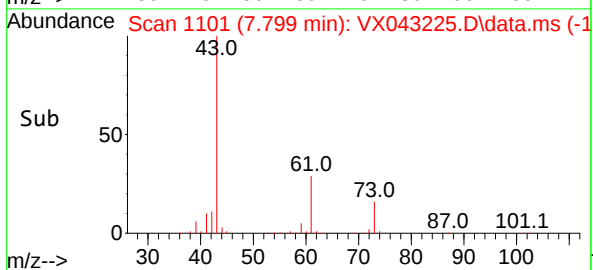
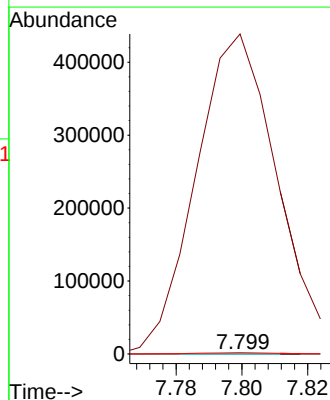
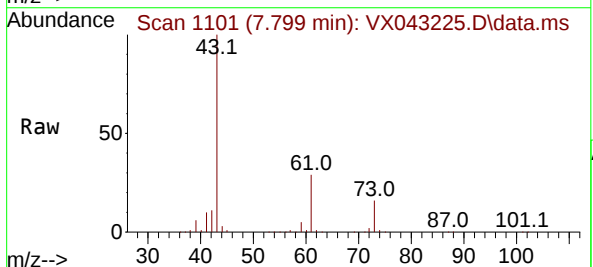
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

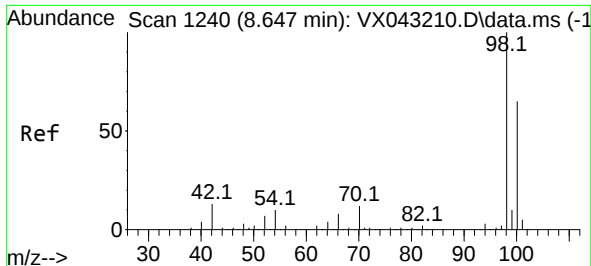
Tgt Ion: 41 Resp: 76646  
Ion Ratio Lower Upper  
41 100  
69 0.1 64.1 96.1#  
39 56.8 52.8 79.2



#49  
1,4-Dioxane  
Concen: 1.993 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.134 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 88 Resp: 53  
Ion Ratio Lower Upper  
88 100  
43 1460898.1 29.5 44.3#  
58 5690.6 55.2 82.8#

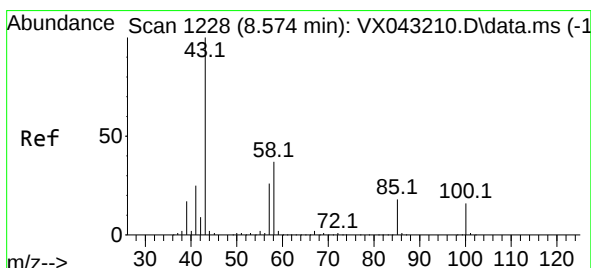
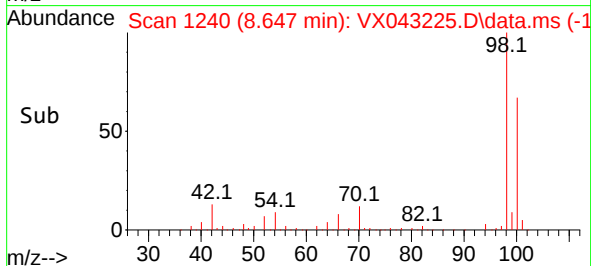
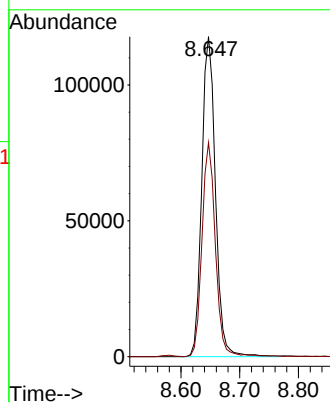
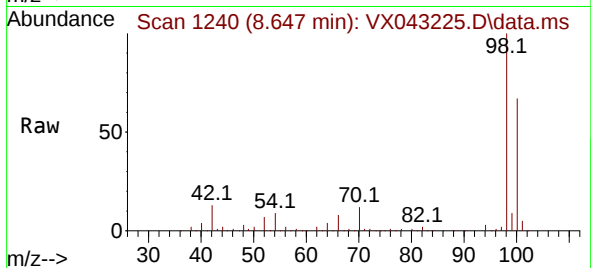




#50  
Toluene-d8  
Concen: 49.260 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

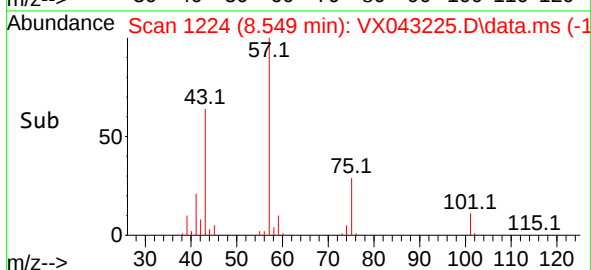
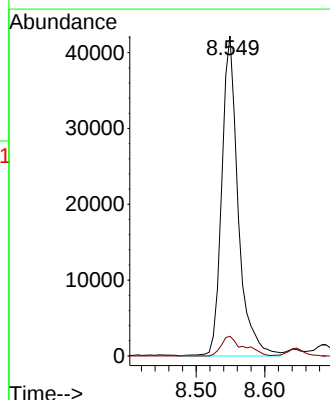
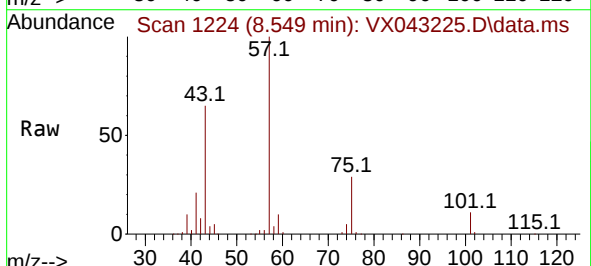
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

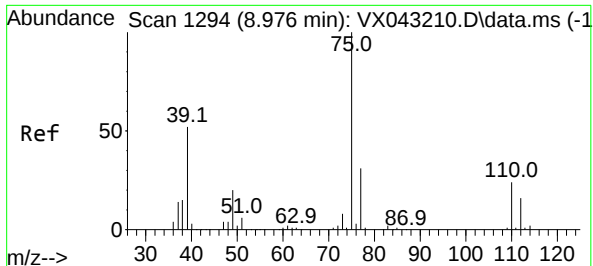
Tgt Ion: 98 Resp: 189983  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.4 78.6



#51  
4-Methyl-2-Pentanone  
Concen: 41.346 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 43 Resp: 70029  
Ion Ratio Lower Upper  
43 100  
58 8.3 30.0 45.0#

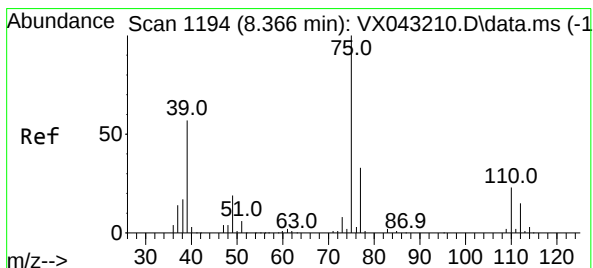
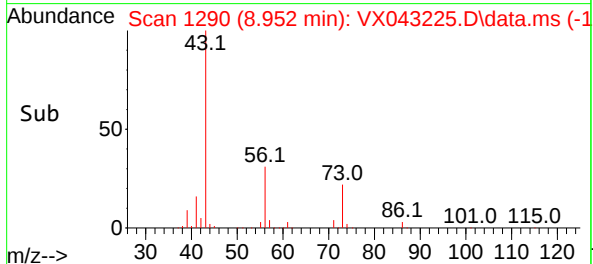
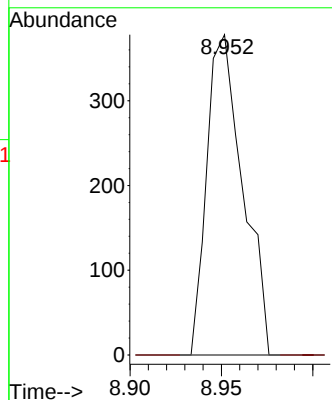
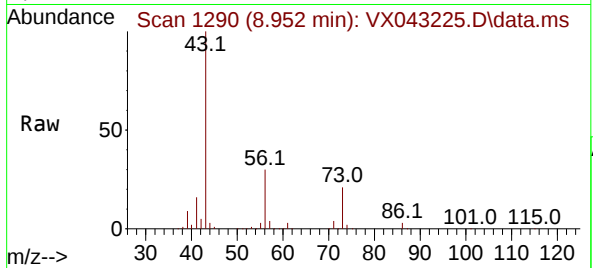




#53  
 t-1,3-Dichloropropene  
 Concen: 0.317 ug/l  
 RT: 8.952 min Scan# 1119  
 Delta R.T. -0.024 min  
 Lab File: VX043225.D  
 Acq: 02 Oct 2024 12:43

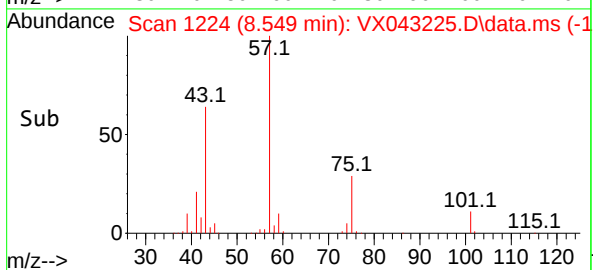
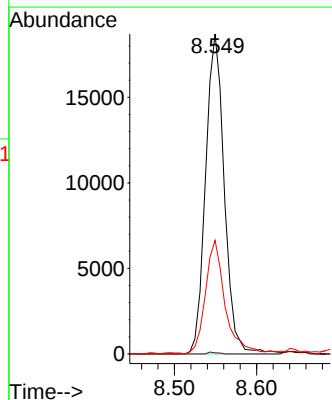
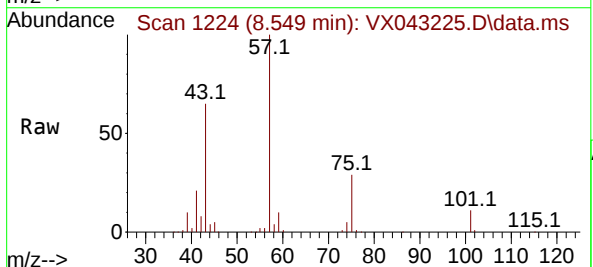
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB163826ZHE#04

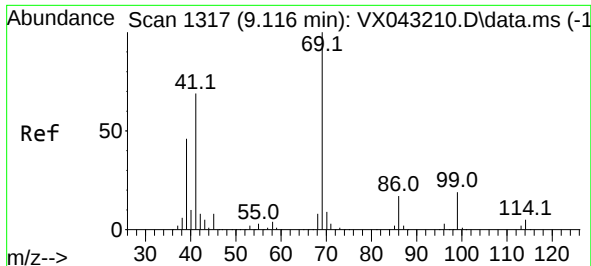
Tgt Ion: 75 Resp: 519  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.1 37.7#



#54  
 cis-1,3-Dichloropropene  
 Concen: 16.844 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX043225.D  
 Acq: 02 Oct 2024 12:43

Tgt Ion: 75 Resp: 29586  
 Ion Ratio Lower Upper  
 75 100  
 77 0.3 26.0 39.0#  
 39 35.2 45.8 68.8#

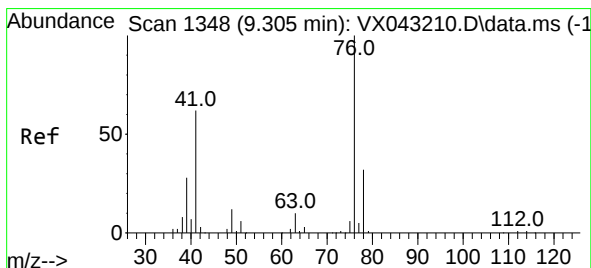
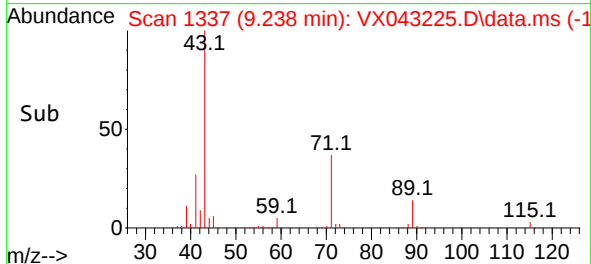
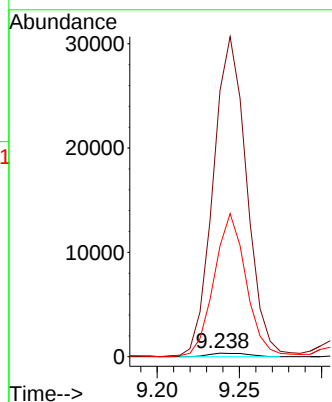
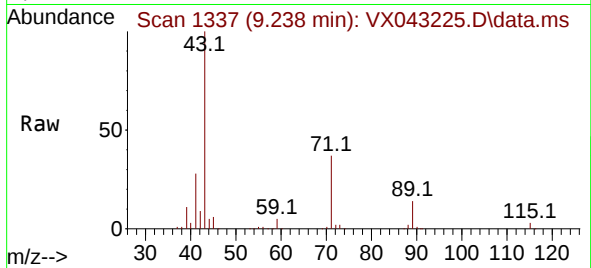




#56  
Ethyl methacrylate  
Concen: 0.320 ug/l  
RT: 9.238 min Scan# 1337  
Delta R.T. 0.122 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

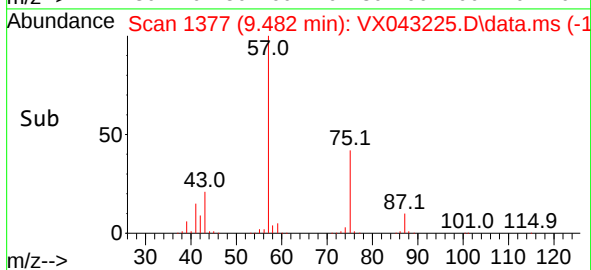
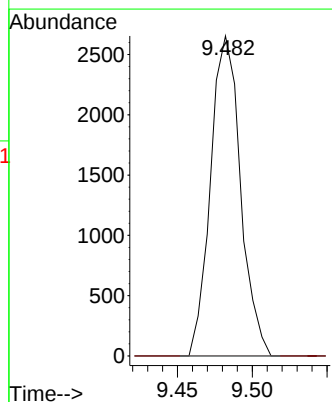
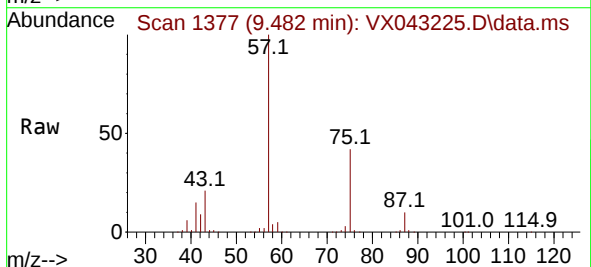
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

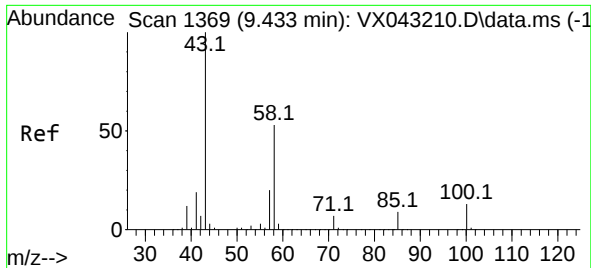
Tgt Ion: 69 Resp: 556  
Ion Ratio Lower Upper  
69 100  
41 7857.0 56.1 84.1#  
39 3375.7 36.4 54.6#



#57  
1,3-Dichloropropane  
Concen: 2.046 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 76 Resp: 3699  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.7 38.5#

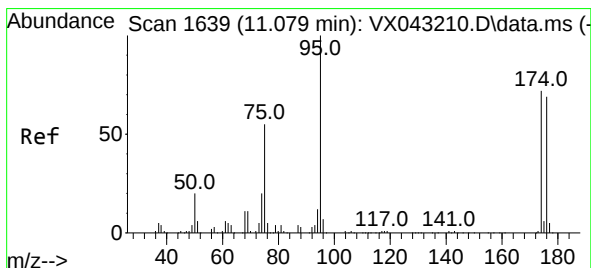
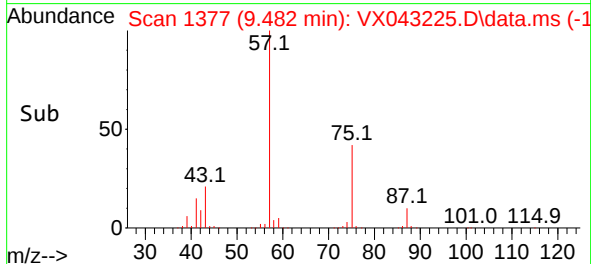
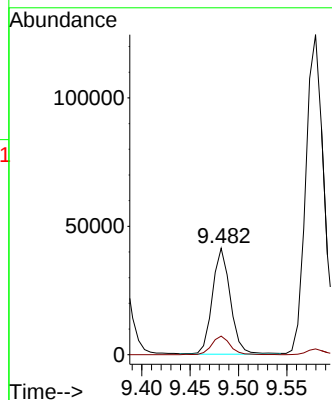
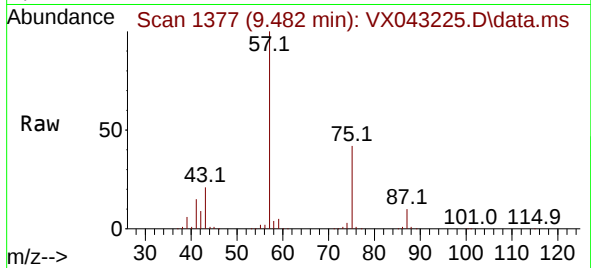




#59  
2-Hexanone  
Concen: 41.914 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

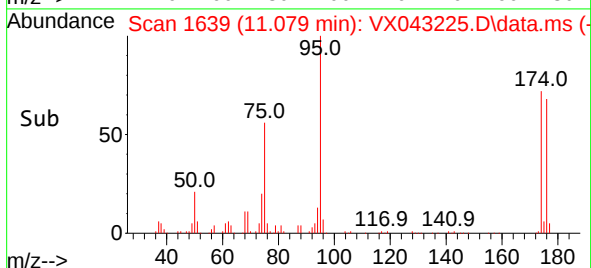
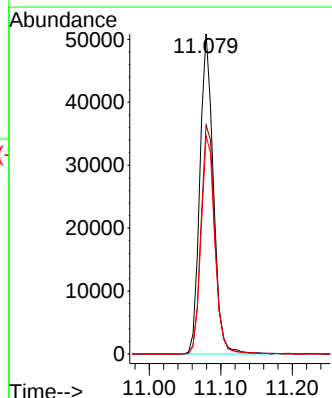
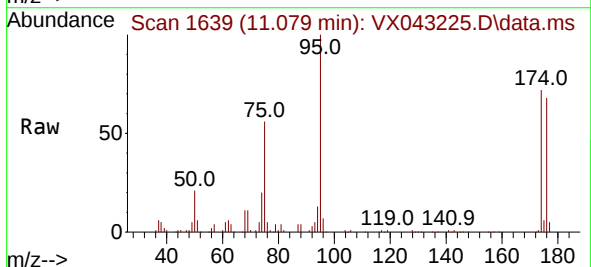
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB163826ZHE#04

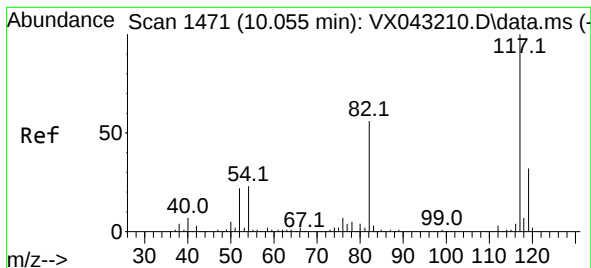
Tgt Ion: 43 Resp: 53685  
Ion Ratio Lower Upper  
43 100  
58 18.0 26.1 78.3#



#62  
4-Bromofluorobenzene  
Concen: 47.558 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043225.D  
Acq: 02 Oct 2024 12:43

Tgt Ion: 95 Resp: 66635  
Ion Ratio Lower Upper  
95 100  
174 73.6 0.0 145.0  
176 69.4 0.0 143.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043225.D

Acq: 02 Oct 2024 12:43

Instrument :

MSVOA\_X

ClientSampleId :

PB163826ZHE#04

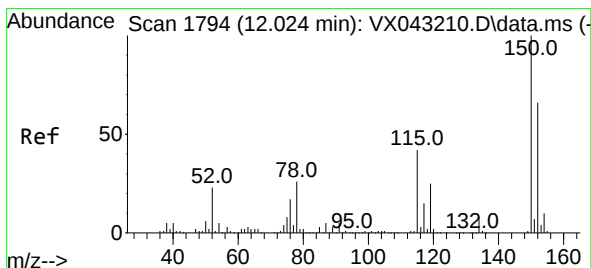
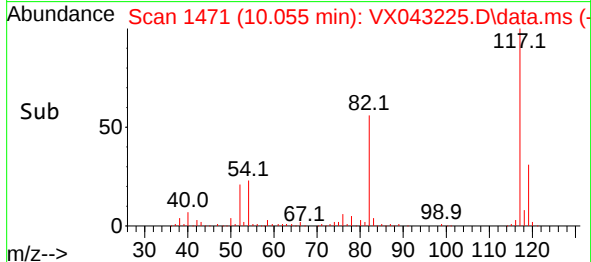
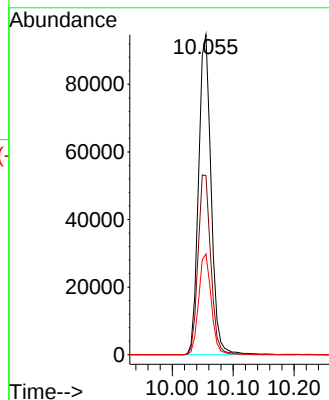
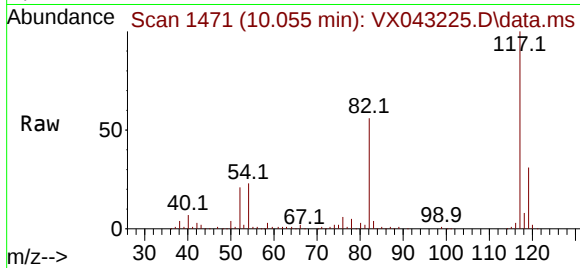
Tgt Ion:117 Resp: 135591

Ion Ratio Lower Upper

117 100

82 56.0 45.0 67.6

119 31.5 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX043225.D

Acq: 02 Oct 2024 12:43

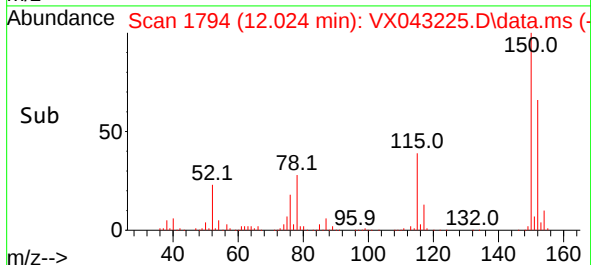
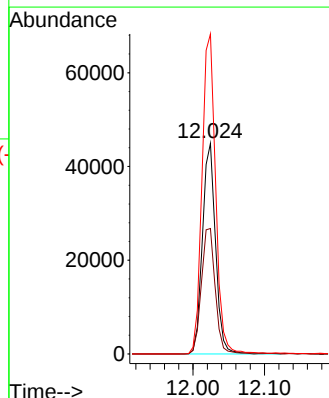
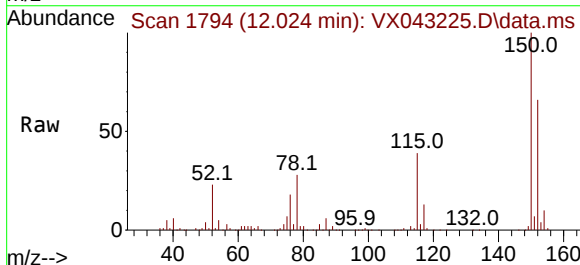
Tgt Ion:152 Resp: 57429

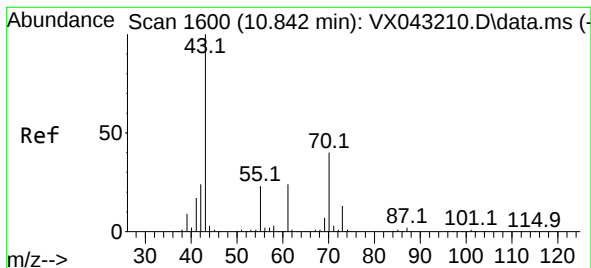
Ion Ratio Lower Upper

152 100

115 62.6 44.1 132.3

150 157.1 0.0 347.4





#74

N-amy1 acetate

Concen: 0.381 ug/l

RT: 10.817 min Scan# 1

Delta R.T. -0.024 min

Lab File: VX043225.D

Acq: 02 Oct 2024 12:43

Instrument :

MSVOA\_X

ClientSampleId :

PB163826ZHE#04

Tgt Ion: 43 Resp: 807

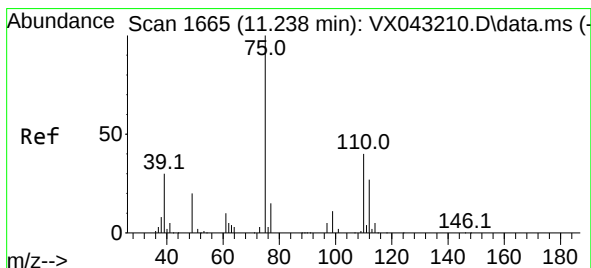
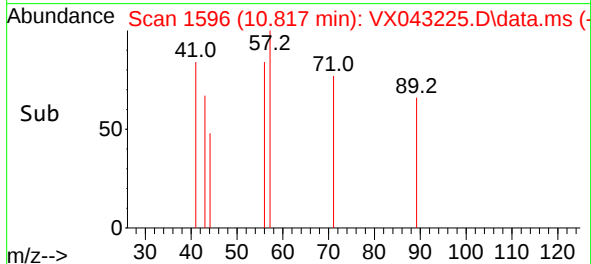
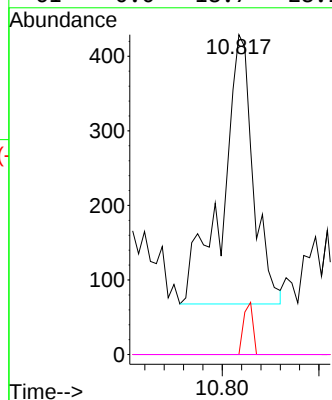
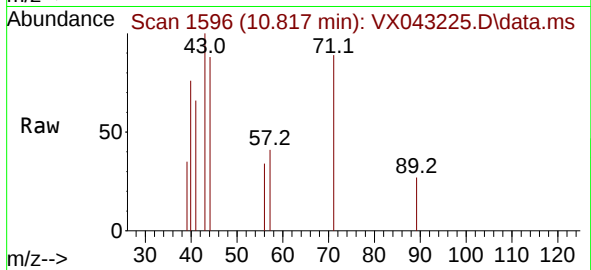
Ion Ratio Lower Upper

43 100

70 0.0 33.1 49.7#

55 5.7 18.6 27.8#

61 0.0 18.7 28.1#



#76

1,2,3-Trichloropropane

Concen: 28.636 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX043225.D

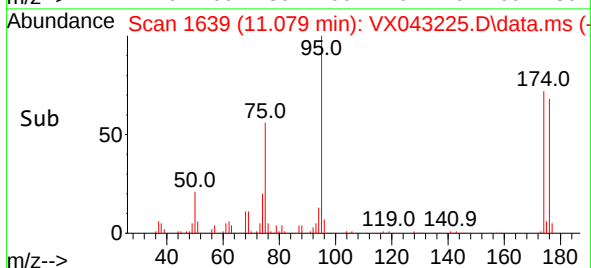
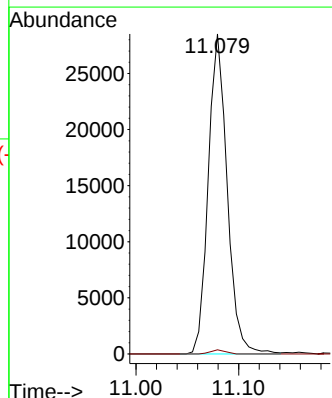
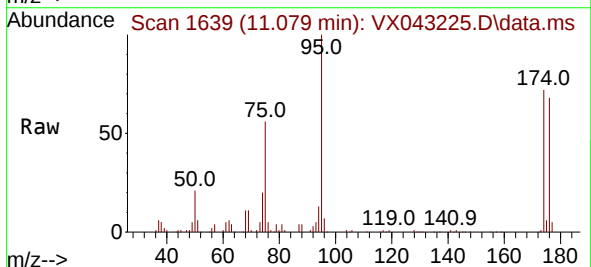
Acq: 02 Oct 2024 12:43

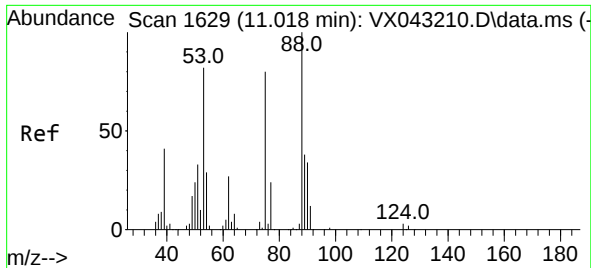
Tgt Ion: 75 Resp: 36477

Ion Ratio Lower Upper

75 100

77 1.0 22.0 66.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.213 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX043225.D  
 Acq: 02 Oct 2024 12:43

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB163826ZHE#04

Tgt Ion: 75 Resp: 36477  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.9 125.9#  
 89 0.0 38.6 58.0#

