

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102824\  
 Data File : VX043580.D  
 Acq On : 28 Oct 2024 21:52  
 Operator : JC/MD  
 Sample : PB164394ZHE#12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB164394ZHE#12

Quant Time: Oct 29 03:32:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 28 13:41:34 2024  
 Response via : Initial Calibration

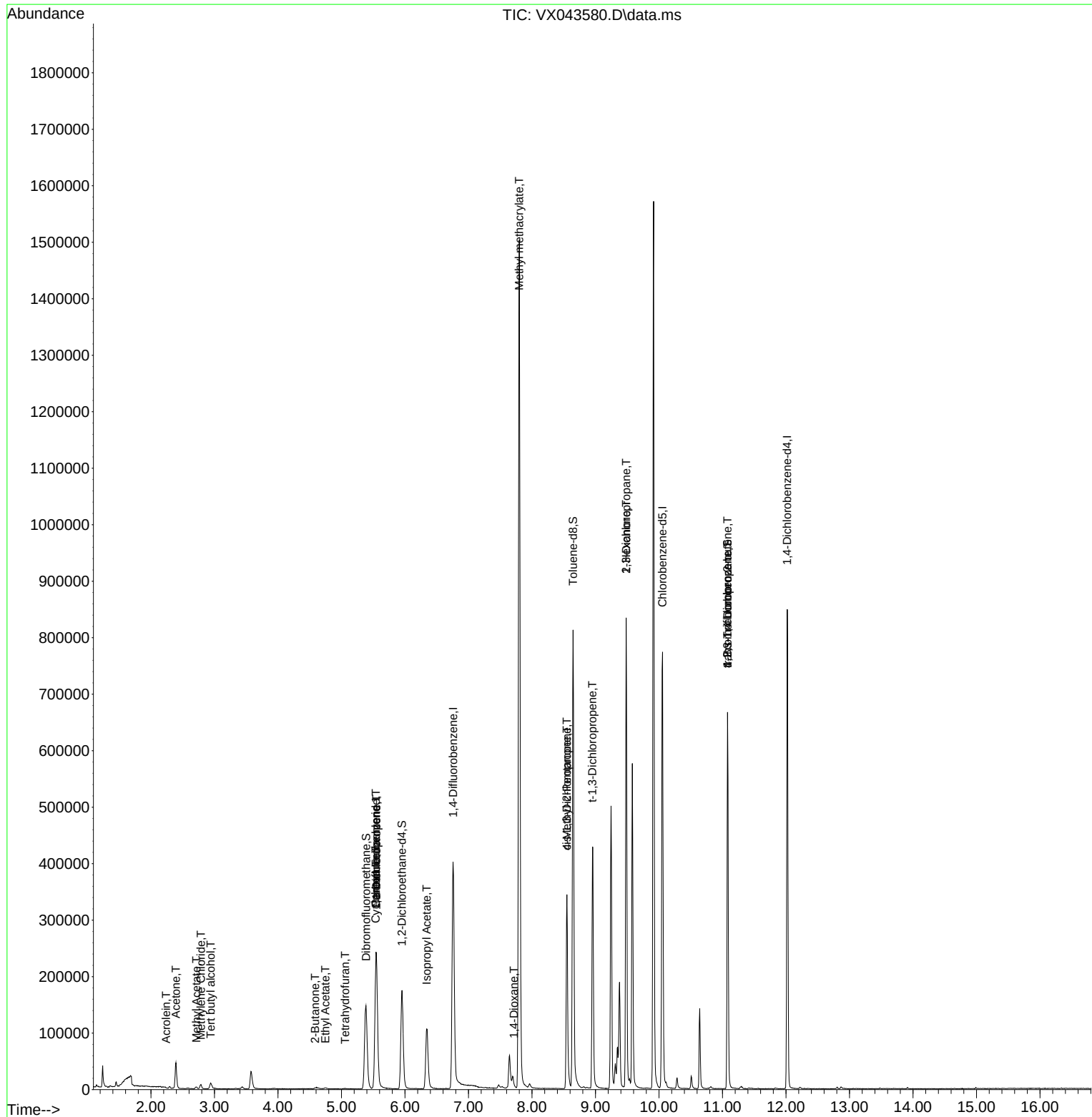
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 234786     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 437918     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 373229     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 178109     | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 165988     | 44.338  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 88.680% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 133793     | 45.056  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 90.120% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 506396     | 49.264  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 98.520% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 185247     | 48.634  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 97.260% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol        | 2.941          | 59   | 6077       | 8.697   | ug/l # | 100      |
| 13) Acrolein                  | 2.240          | 56   | 189        | 0.346   | ug/l # | 78       |
| 16) Acetone                   | 2.392          | 43   | 51613      | 34.718  | ug/l   | 99       |
| 18) Methyl Acetate            | 2.715          | 43   | 4507       | 1.037   | ug/l   | 98       |
| 20) Methylene Chloride        | 2.788          | 84   | 4074       | 1.272   | ug/l # | 87       |
| 25) 2-Butanone                | 4.587          | 43   | 1883       | 0.868   | ug/l   | 96       |
| 29) Tetrahydrofuran           | 5.056          | 42   | 977        | 0.693   | ug/l # | 46       |
| 31) Cyclohexane               | 5.538          | 56   | 4687       | 1.186   | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 17818      | 5.060   | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.745          | 43   | 2265       | 0.530   | ug/l # | 81       |
| 38) Carbon Tetrachloride      | 5.544          | 117  | 24697      | 6.348   | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.343          | 43   | 156153     | 22.088  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.800          | 41   | 129110     | 38.520  | ug/l # | 40       |
| 49) 1,4-Dioxane               | 7.714          | 88   | 61         | 0.886   | ug/l # | 25       |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 120414     | 27.946  | ug/l # | 49       |
| 53) t-1,3-Dichloropropene     | 8.952          | 75   | 1116       | 0.266   | ug/l # | 53       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 59947      | 13.408  | ug/l # | 59       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 7911       | 1.604   | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 100305     | 30.650  | ug/l # | 51       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 91717      | 24.084  | ug/l # | 33       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 91717      | 66.256  | ug/l # | 7        |
| -----                         |                |      |            |         |        |          |

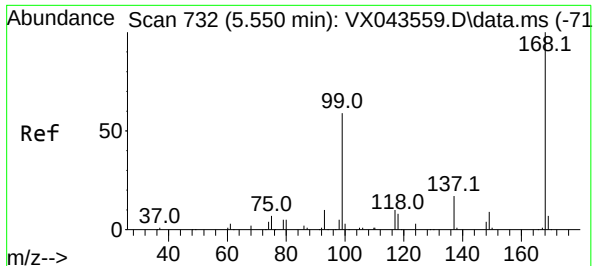
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102824\  
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Sample : PB164394ZHE#12  
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Instrument :  
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ClientSampleId :  
PB164394ZHE#12

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102824W.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 28 13:41:34 2024  
Response via : Initial Calibration

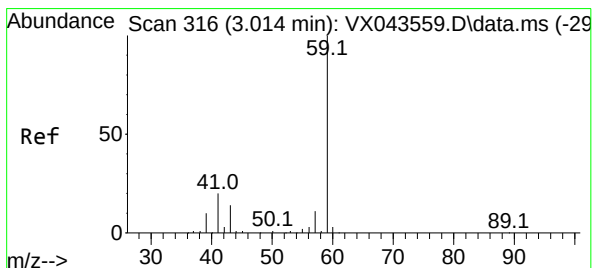
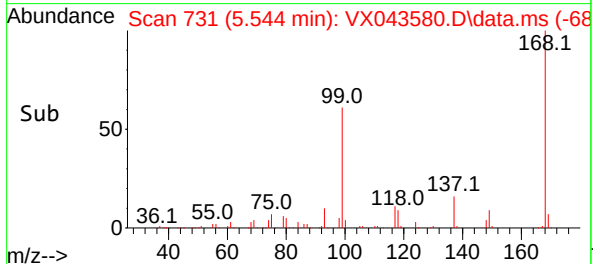
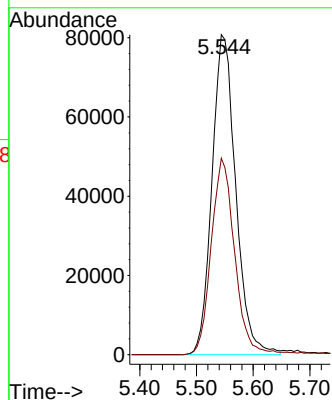
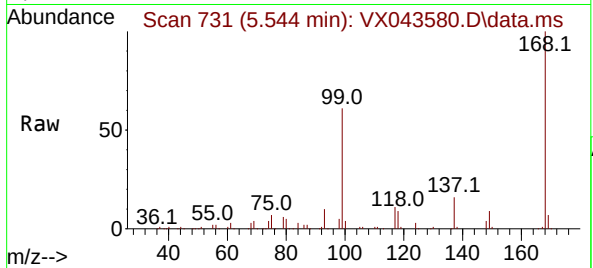




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

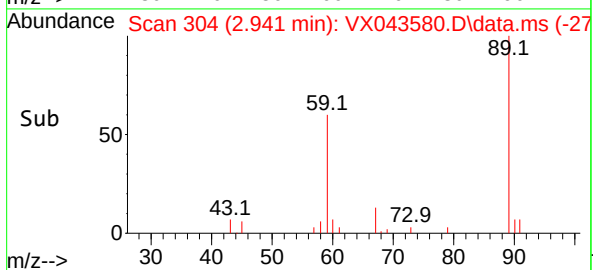
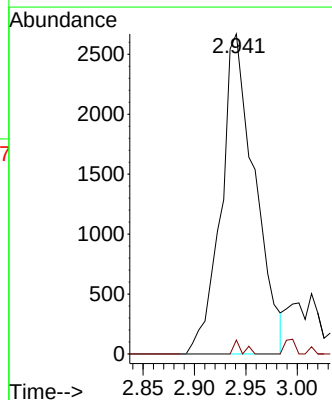
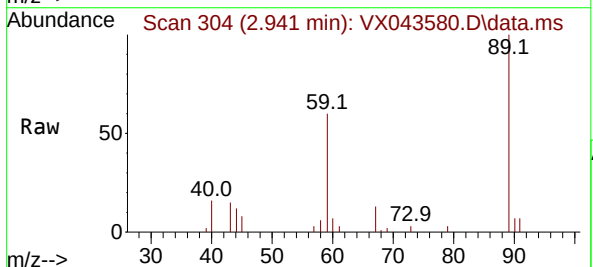
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

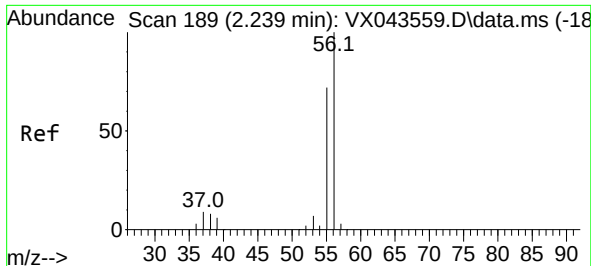
Tgt Ion:168 Resp: 234786  
Ion Ratio Lower Upper  
168 100  
99 61.4 52.6 78.8



#11  
Tert butyl alcohol  
Concen: 8.697 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.109 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 59 Resp: 6077  
Ion Ratio Lower Upper  
59 100  
57 1.1 0.0 0.0#

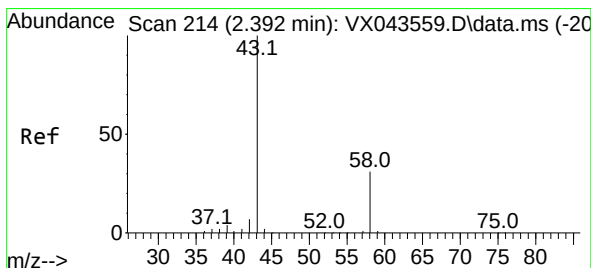
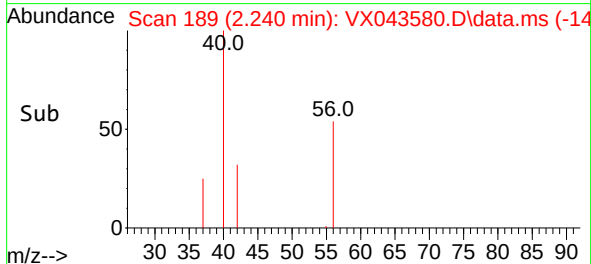
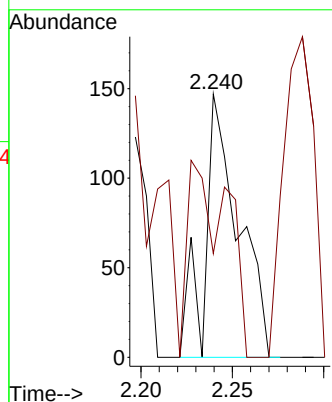
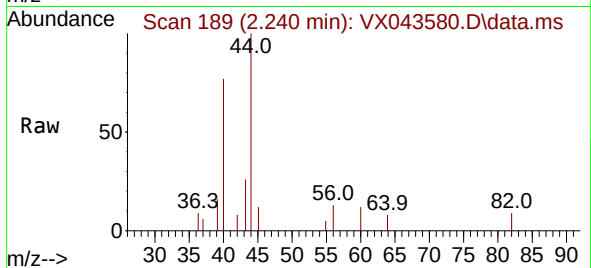




#13  
Acrolein  
Concen: 0.346 ug/l  
RT: 2.240 min Scan# 189  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

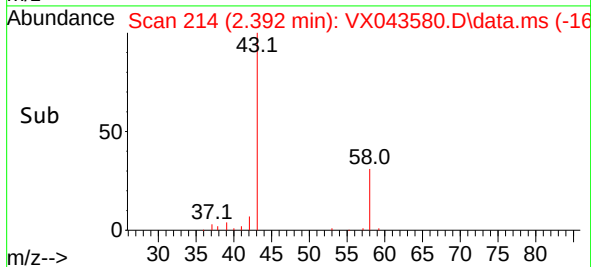
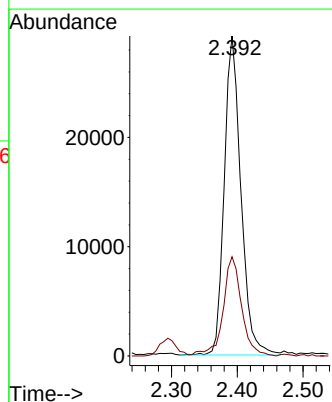
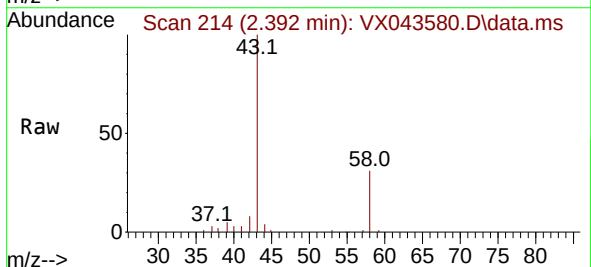
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

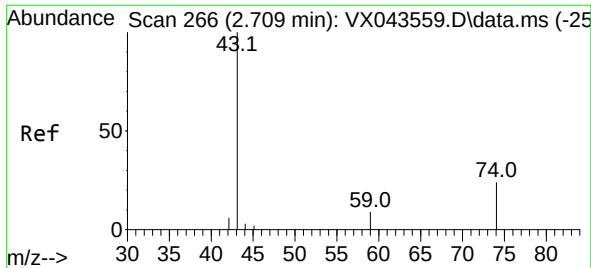
Tgt Ion: 56 Resp: 189  
Ion Ratio Lower Upper  
56 100  
55 87.3 55.3 82.9#



#16  
Acetone  
Concen: 34.718 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.006 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 43 Resp: 51613  
Ion Ratio Lower Upper  
43 100  
58 30.7 25.1 37.7

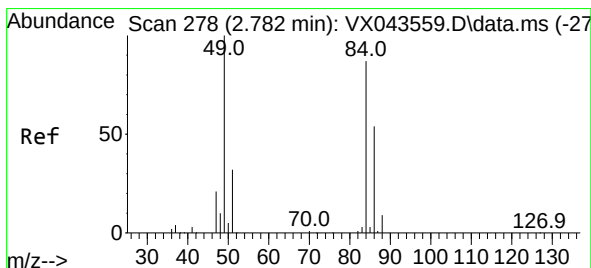
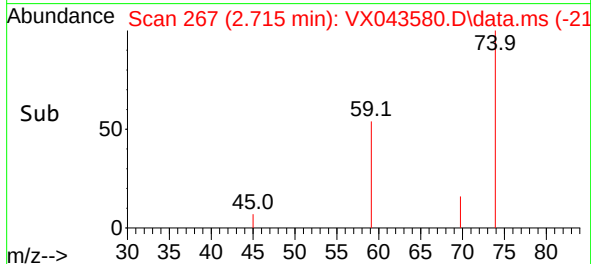
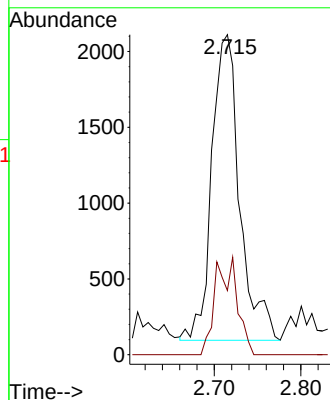
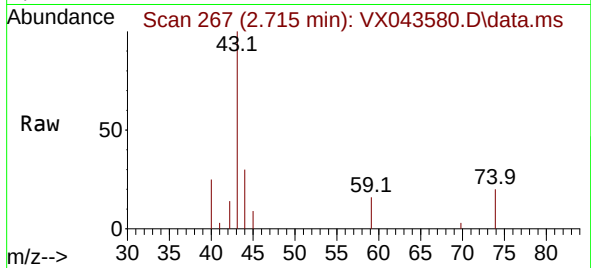




#18  
Methyl Acetate  
Concen: 1.037 ug/l  
RT: 2.715 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

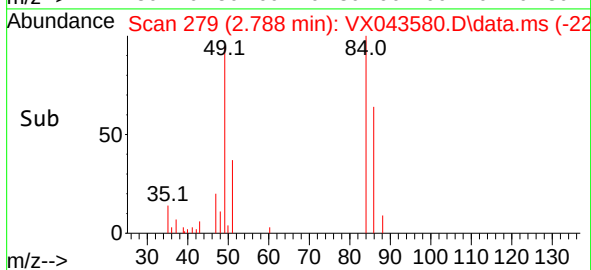
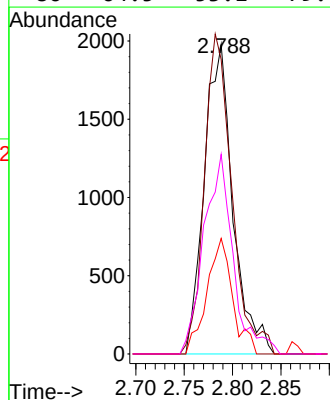
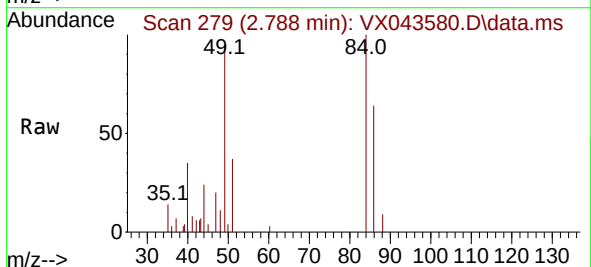
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

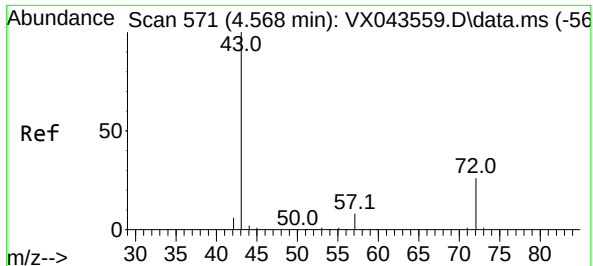
Tgt Ion: 43 Resp: 4507  
Ion Ratio Lower Upper  
43 100  
74 24.8 19.1 28.7



#20  
Methylene Chloride  
Concen: 1.272 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.006 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 84 Resp: 4074  
Ion Ratio Lower Upper  
84 100  
49 95.1 97.0 145.6#  
51 37.4 29.8 44.8  
86 64.5 53.1 79.7





#25

2-Butanone

Concen: 0.868 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.019 min

Lab File: VX043580.D

Acq: 28 Oct 2024 21:52

Instrument :

MSVOA\_X

ClientSampleId :

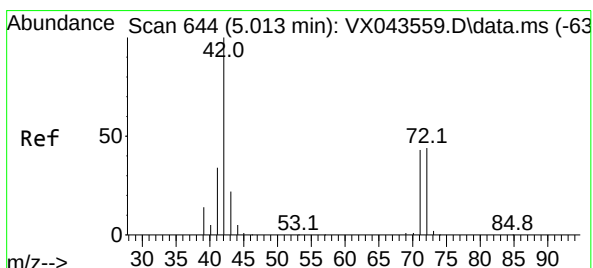
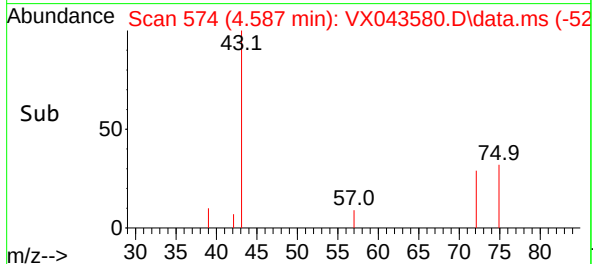
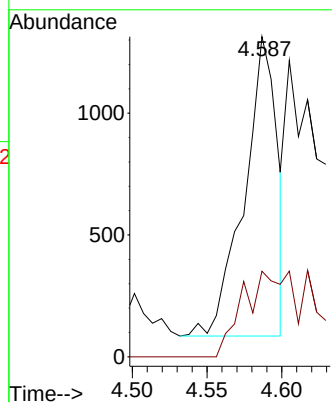
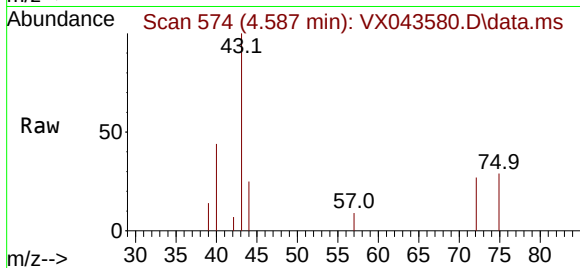
PB164394ZHE#12

Tgt Ion: 43 Resp: 1883

Ion Ratio Lower Upper

43 100

72 28.6 21.1 31.7



#29

Tetrahydrofuran

Concen: 0.693 ug/l

RT: 5.056 min Scan# 651

Delta R.T. 0.043 min

Lab File: VX043580.D

Acq: 28 Oct 2024 21:52

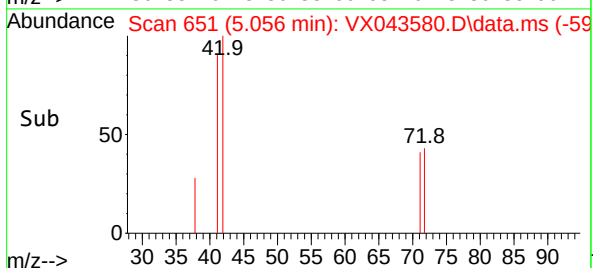
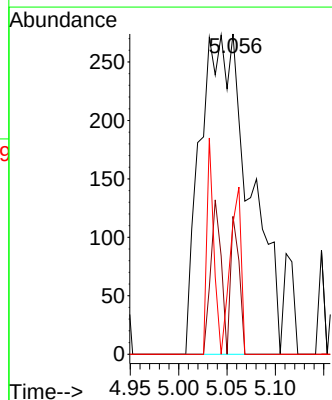
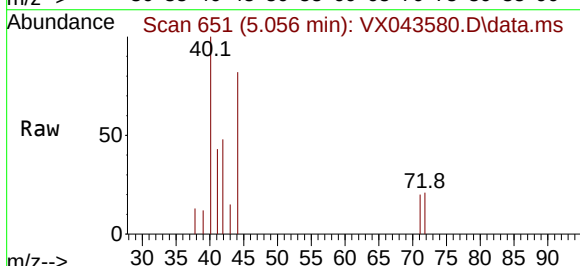
Tgt Ion: 42 Resp: 977

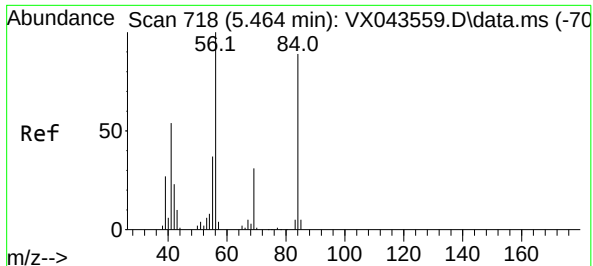
Ion Ratio Lower Upper

42 100

72 7.4 36.6 55.0#

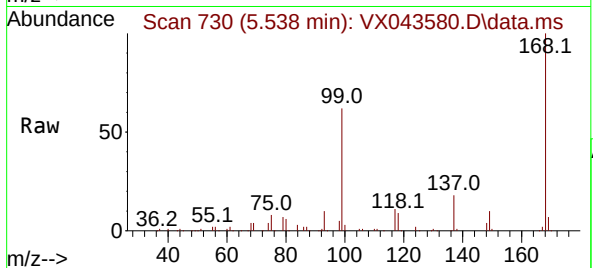
71 11.5 34.2 51.4#



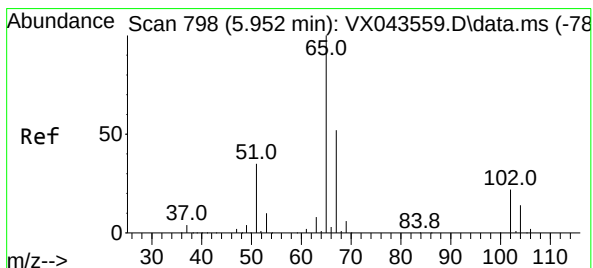
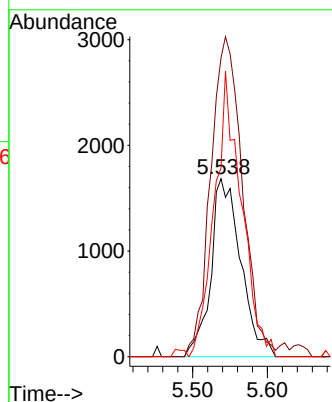
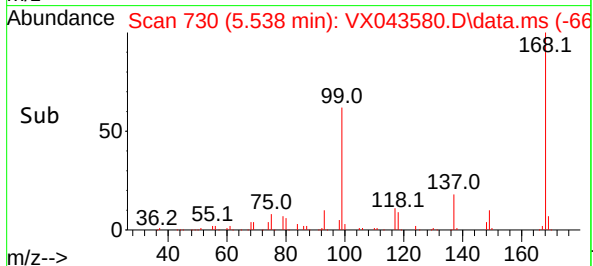


#31  
Cyclohexane  
Concen: 1.186 ug/l  
RT: 5.538 min Scan# 718  
Delta R.T. 0.080 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

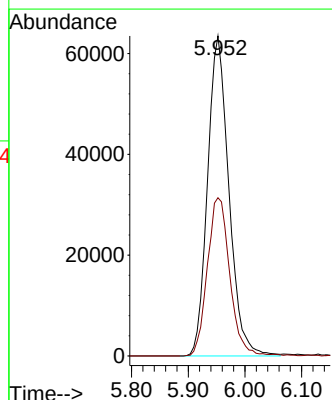
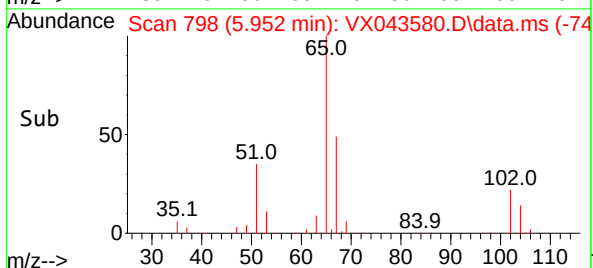
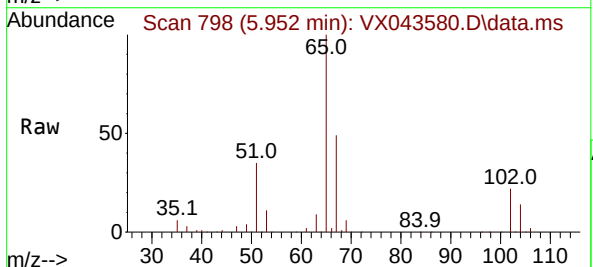


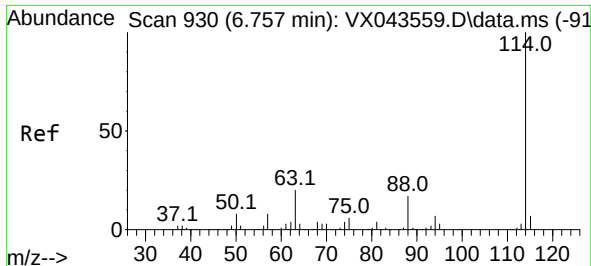
Tgt Ion: 56 Resp: 4687  
Ion Ratio Lower Upper  
56 100  
69 167.9 24.9 37.3#  
84 106.0 73.3 109.9



#33  
1,2-Dichloroethane-d4  
Concen: 44.338 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 65 Resp: 165988  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 103.4

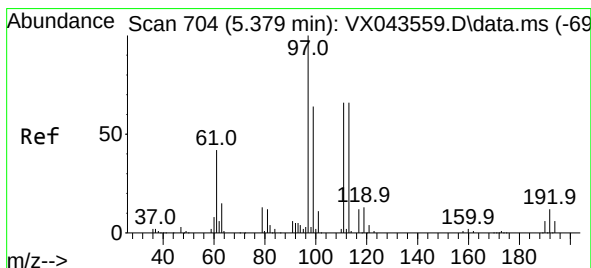
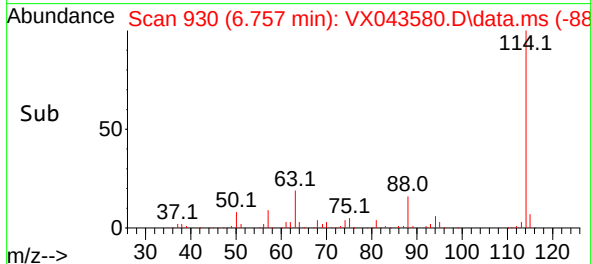
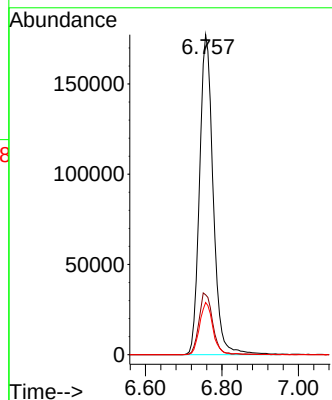
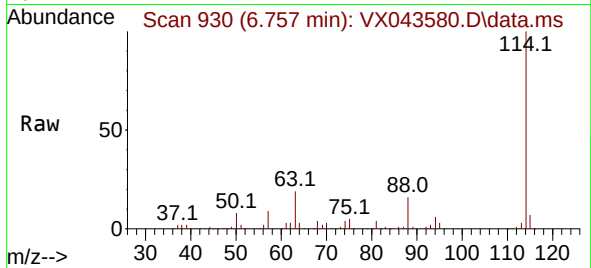




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

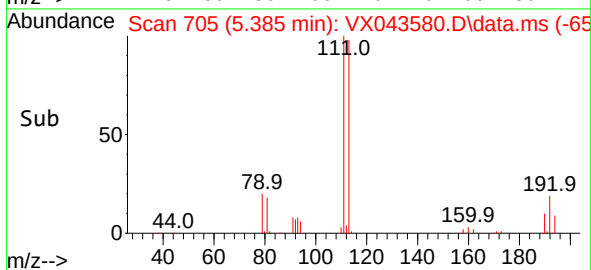
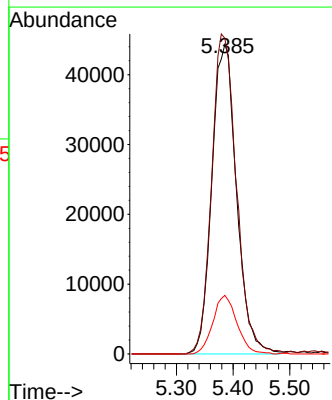
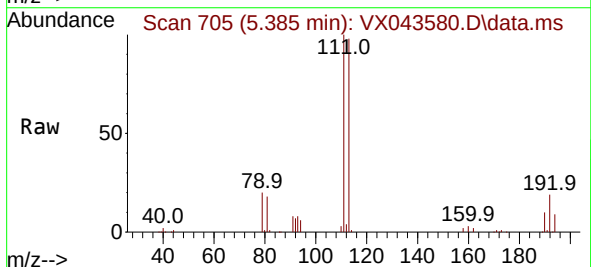
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

Tgt Ion:114 Resp: 437918  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 41.2  
88 16.3 0.0 34.0

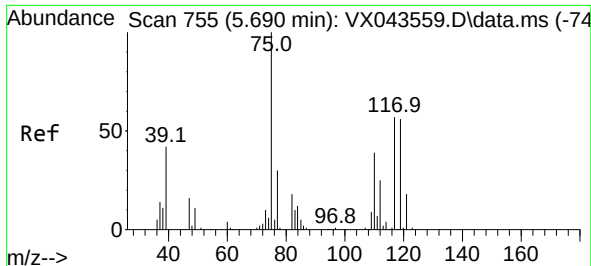


#35  
Dibromofluoromethane  
Concen: 45.056 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion:113 Resp: 133793  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.4 122.0  
192 18.4 14.1 21.1



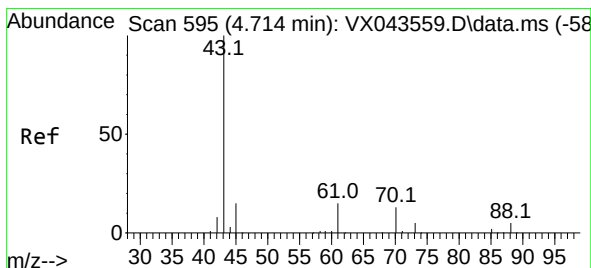
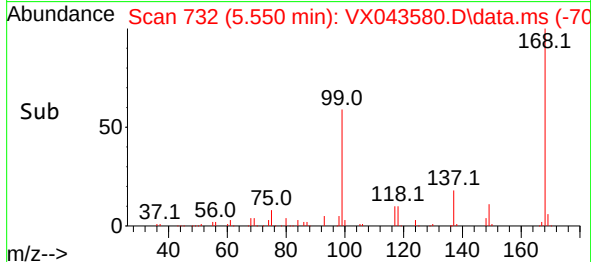
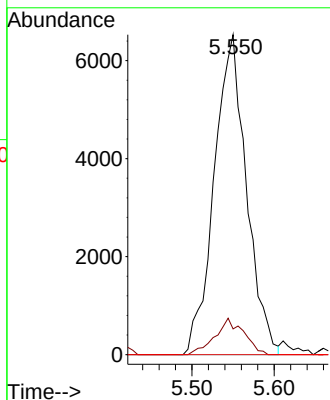
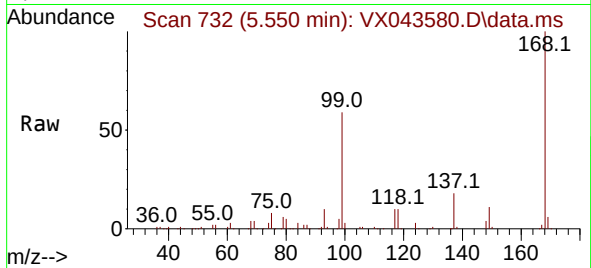




#36  
1,1-Dichloropropene  
Concen: 5.060 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

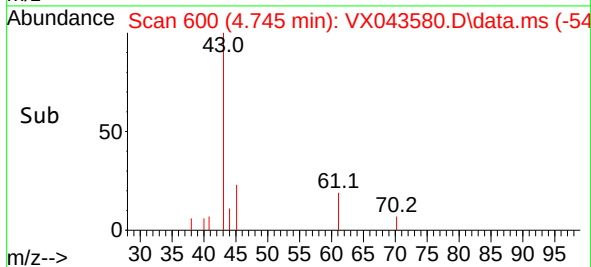
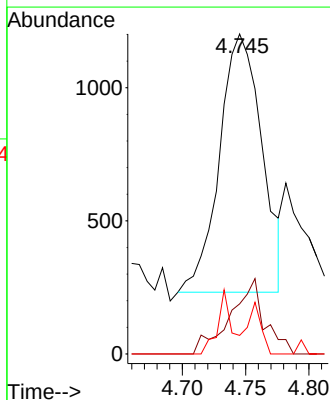
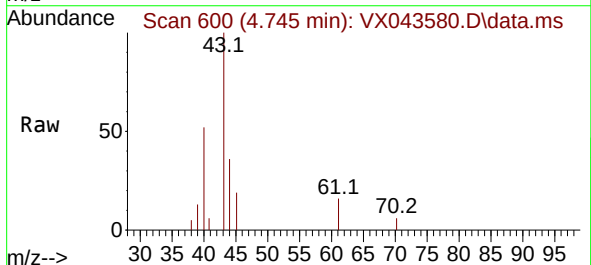
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

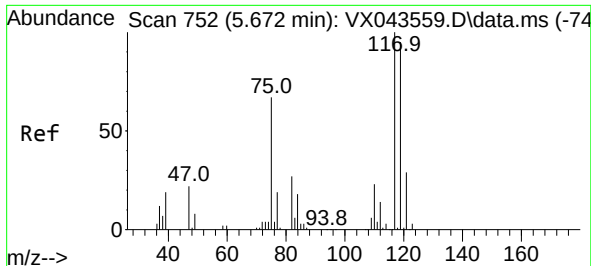
Tgt Ion: 75 Resp: 17818  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.9 53.7#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 0.530 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.025 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

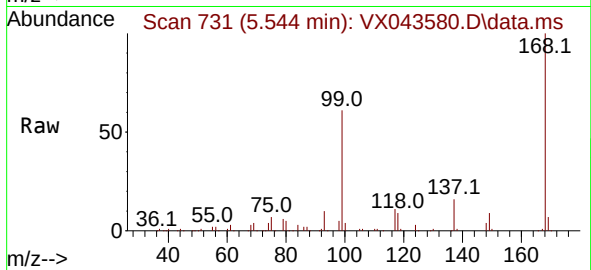
Tgt Ion: 43 Resp: 2265  
Ion Ratio Lower Upper  
43 100  
61 23.4 11.0 16.6#  
70 6.1 8.9 13.3#



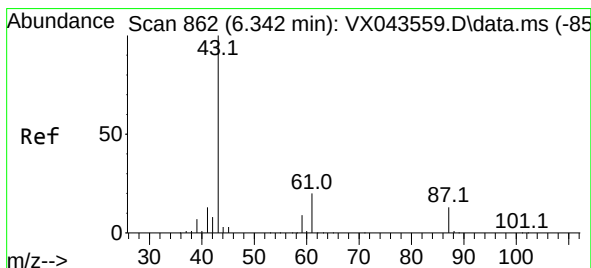
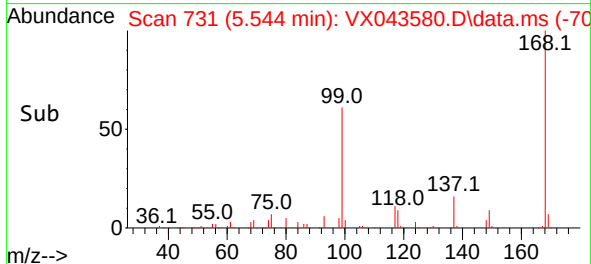
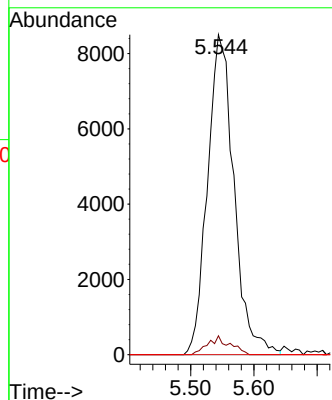


#38  
Carbon Tetrachloride  
Concen: 6.348 ug/l  
RT: 5.544 min Scan# 752  
Delta R.T. -0.128 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

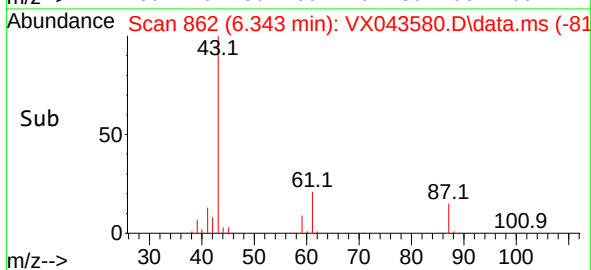
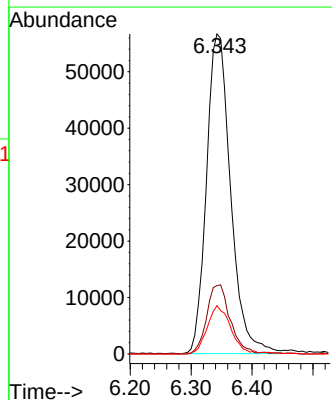
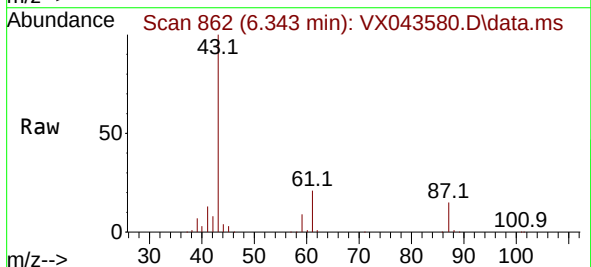


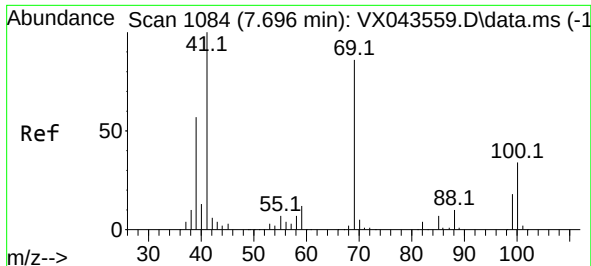
Tgt Ion:117 Resp: 24697  
Ion Ratio Lower Upper  
117 100  
119 5.9 77.0 115.6#  
121 0.0 24.7 37.1#



#43  
Isopropyl Acetate  
Concen: 22.088 ug/l  
RT: 6.343 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 43 Resp: 156153  
Ion Ratio Lower Upper  
43 100  
61 20.8 16.2 24.4  
87 14.7 11.0 16.6

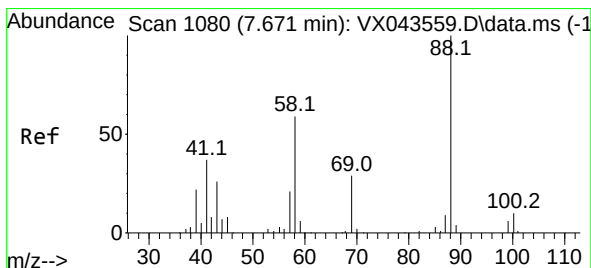
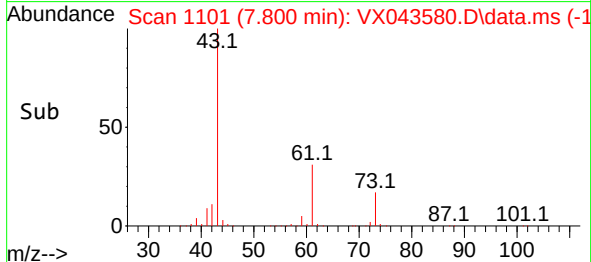
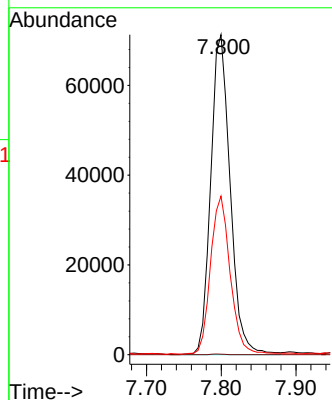
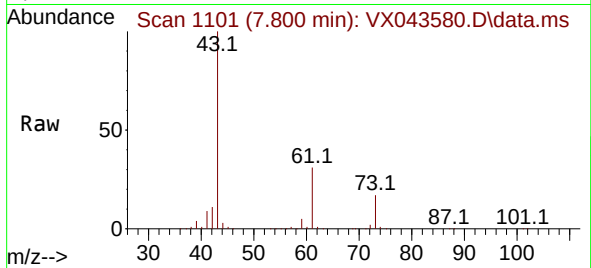




#48  
Methyl methacrylate  
Concen: 38.520 ug/l  
RT: 7.800 min Scan# 1101  
Delta R.T. 0.104 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

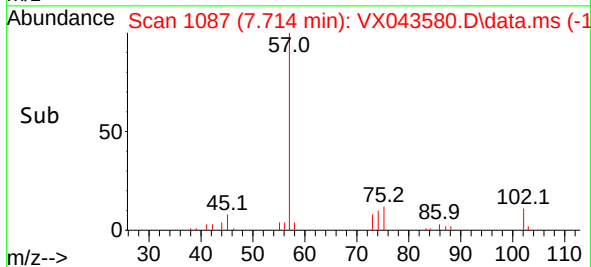
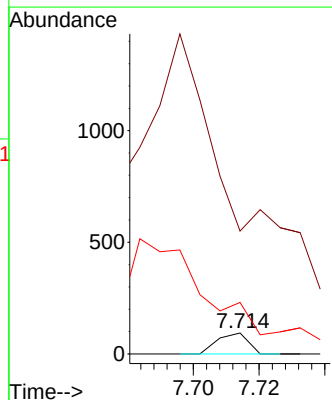
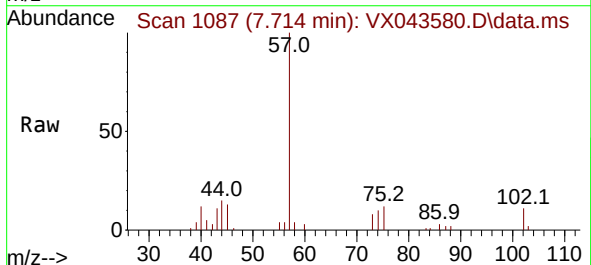
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

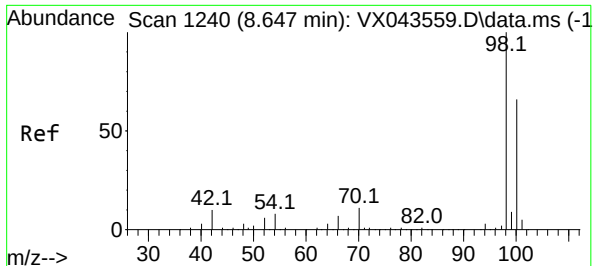
Tgt Ion: 41 Resp: 129110  
Ion Ratio Lower Upper  
41 100  
69 0.1 67.7 101.5#  
39 49.7 46.3 69.5



#49  
1,4-Dioxane  
Concen: 0.886 ug/l  
RT: 7.714 min Scan# 1087  
Delta R.T. 0.043 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 88 Resp: 61  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.3 37.9#  
58 0.0 53.9 80.9#

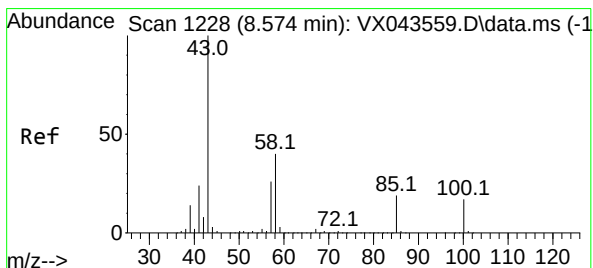
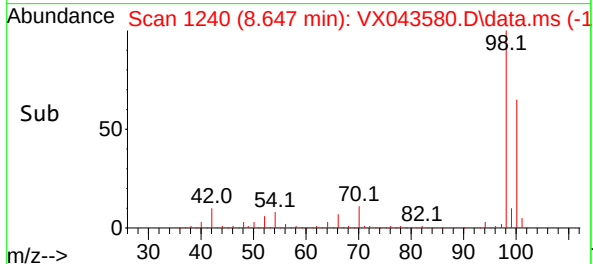
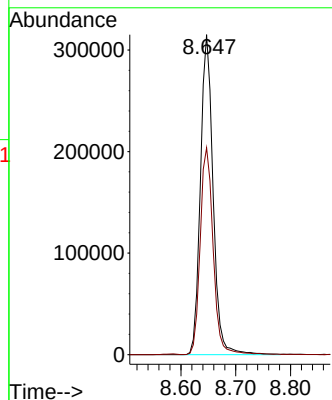
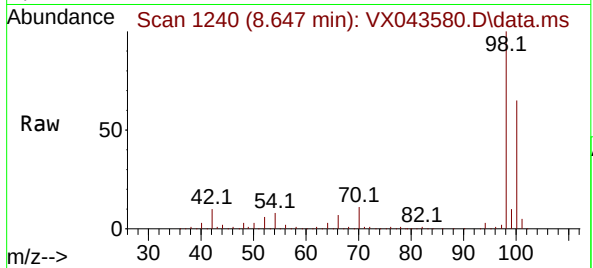




#50  
Toluene-d8  
Concen: 49.264 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

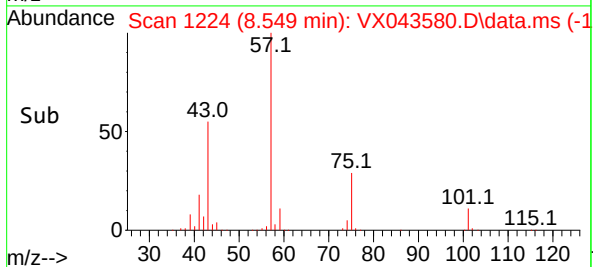
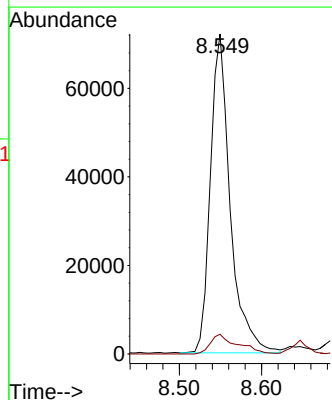
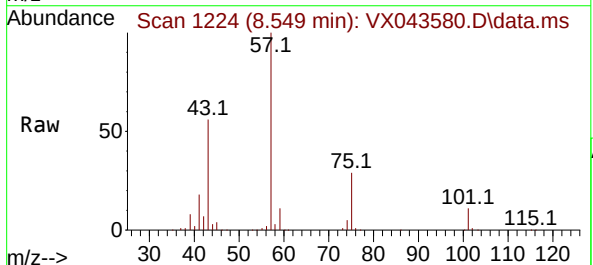
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

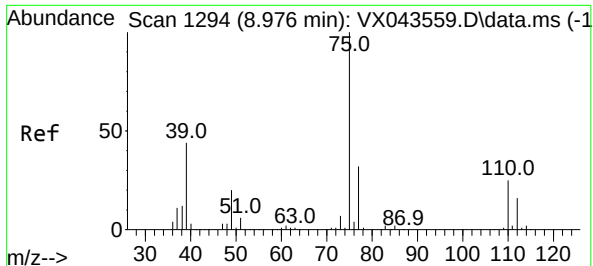
Tgt Ion: 98 Resp: 506396  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.4 80.2



#51  
4-Methyl-2-Pentanone  
Concen: 27.946 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.030 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 43 Resp: 120414  
Ion Ratio Lower Upper  
43 100  
58 8.5 31.7 47.5#

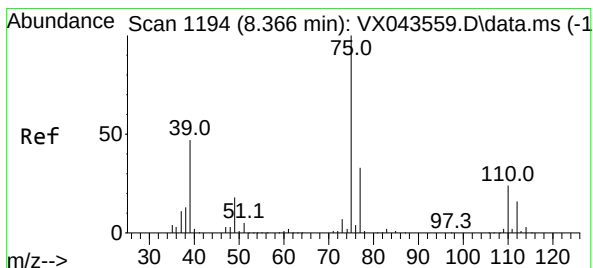
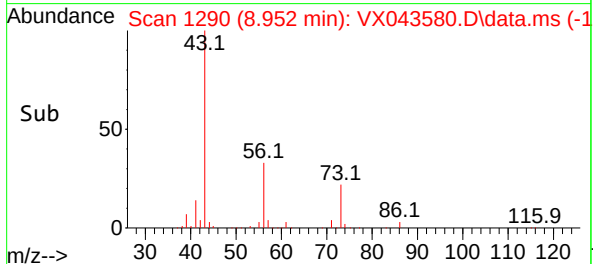
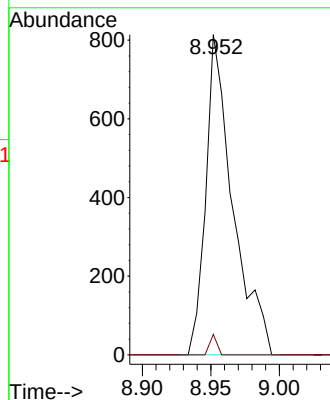
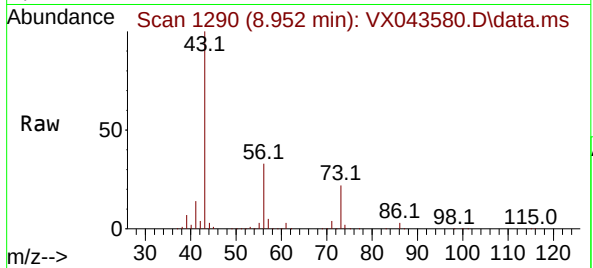




#53  
 t-1,3-Dichloropropene  
 Concen: 0.266 ug/l  
 RT: 8.952 min Scan# 1116  
 Delta R.T. -0.024 min  
 Lab File: VX043580.D  
 Acq: 28 Oct 2024 21:52

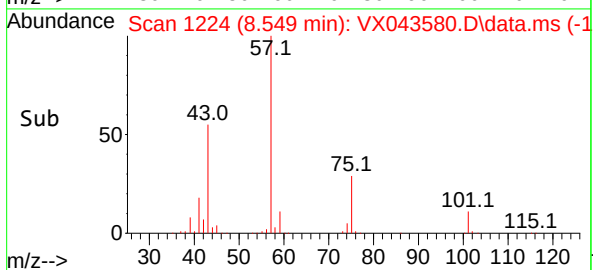
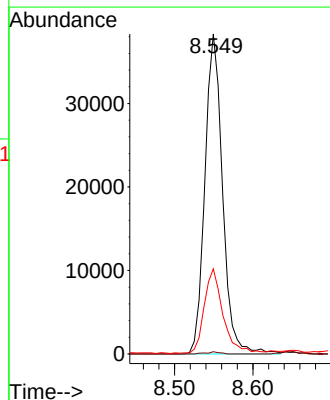
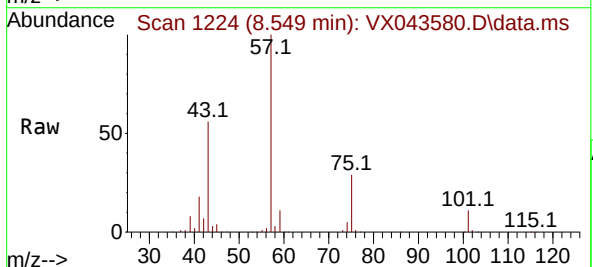
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB164394ZHE#12

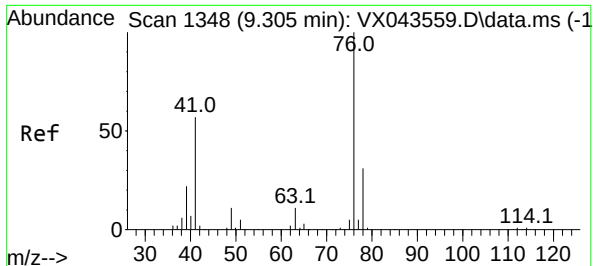
Tgt Ion: 75 Resp: 1116  
 Ion Ratio Lower Upper  
 75 100  
 77 6.4 26.0 39.0#



#54  
 cis-1,3-Dichloropropene  
 Concen: 13.408 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX043580.D  
 Acq: 28 Oct 2024 21:52

Tgt Ion: 75 Resp: 59947  
 Ion Ratio Lower Upper  
 75 100  
 77 0.7 24.8 37.2#  
 39 26.4 37.7 56.5#





#57

1,3-Dichloropropane

Concen: 1.604 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX043580.D

Acq: 28 Oct 2024 21:52

Instrument :

MSVOA\_X

ClientSampleId :

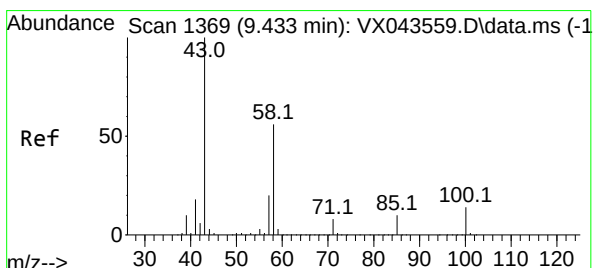
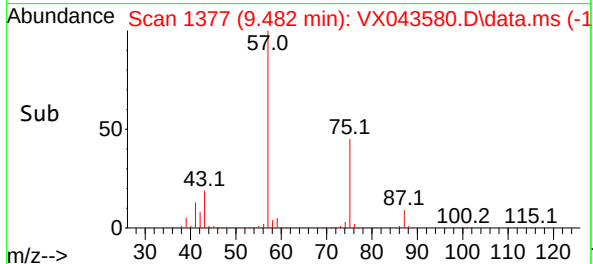
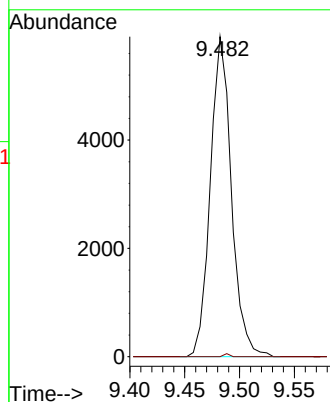
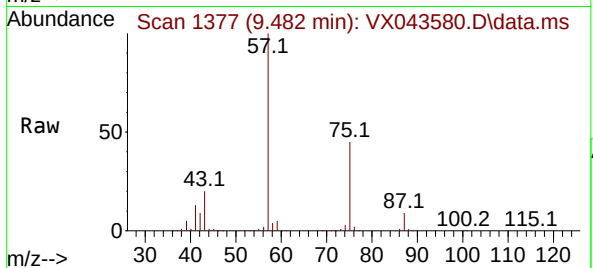
PB164394ZHE#12

Tgt Ion: 76 Resp: 7911

Ion Ratio Lower Upper

76 100

78 0.3 25.9 38.9#



#59

2-Hexanone

Concen: 30.650 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX043580.D

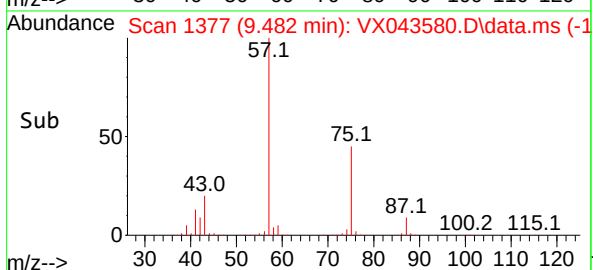
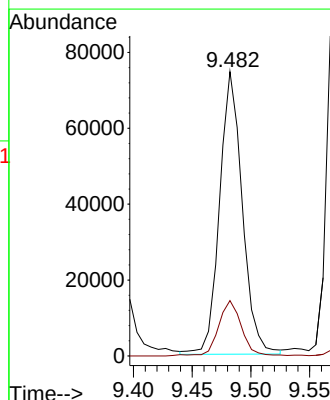
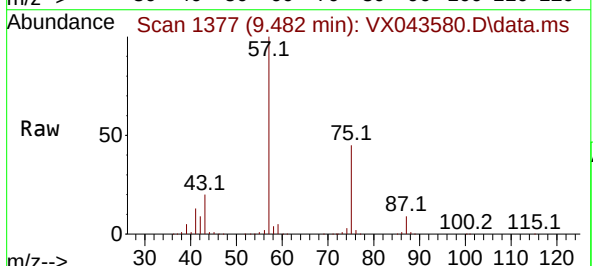
Acq: 28 Oct 2024 21:52

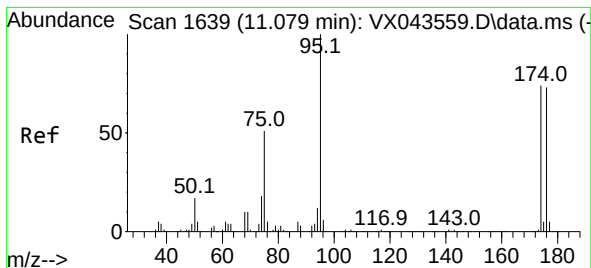
Tgt Ion: 43 Resp: 100305

Ion Ratio Lower Upper

43 100

58 19.8 27.5 82.5#

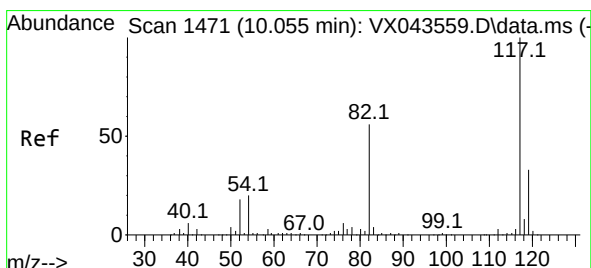
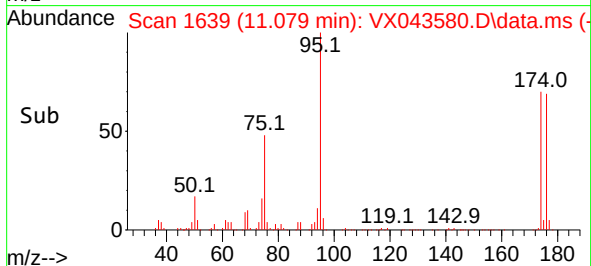
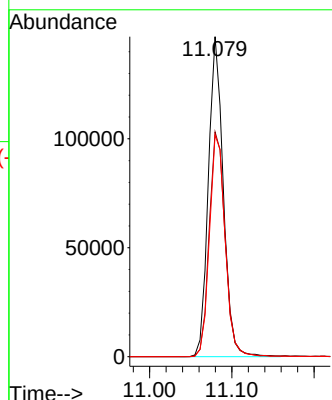
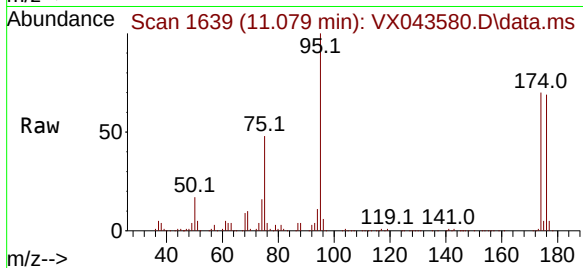




#62  
4-Bromofluorobenzene  
Concen: 48.634 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

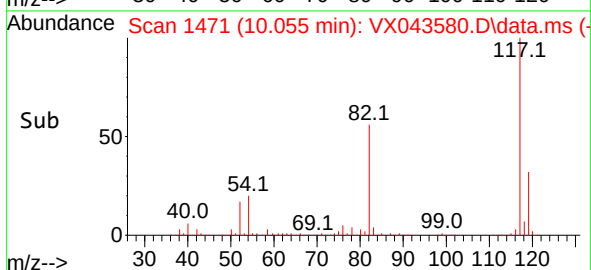
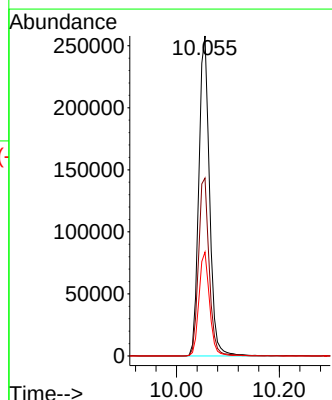
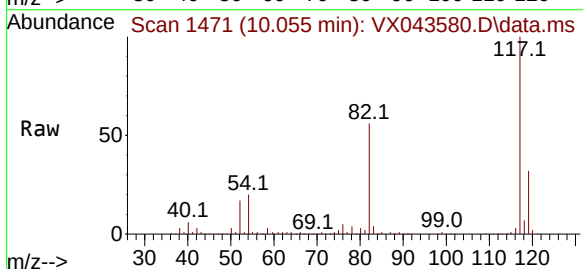
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164394ZHE#12

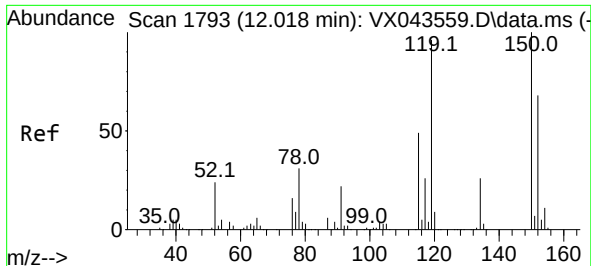
Tgt Ion: 95 Resp: 185247  
Ion Ratio Lower Upper  
95 100  
174 75.0 0.0 146.6  
176 72.7 0.0 139.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX043580.D  
Acq: 28 Oct 2024 21:52

Tgt Ion: 117 Resp: 373229  
Ion Ratio Lower Upper  
117 100  
82 55.6 42.1 63.1  
119 32.5 25.4 38.2

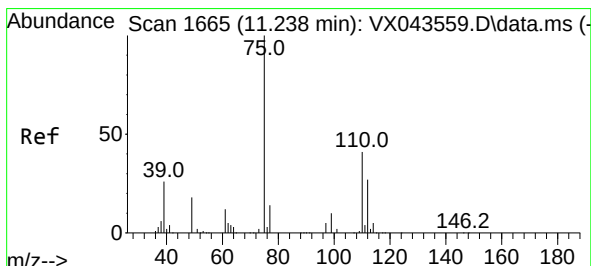
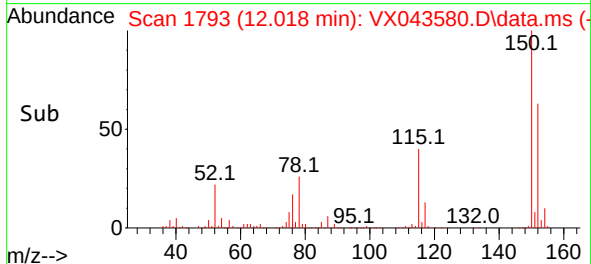
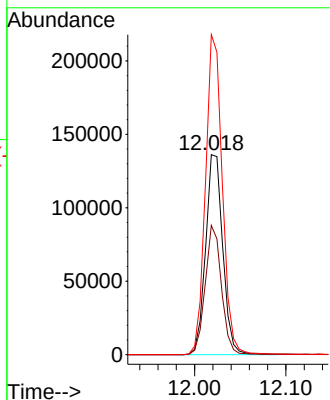
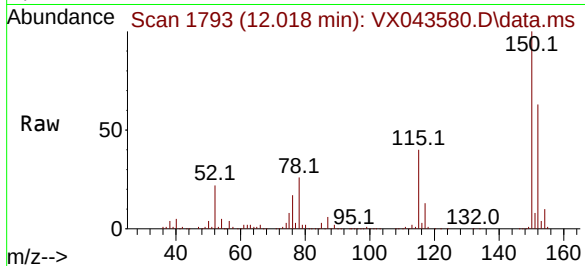




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.018 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: VX043580.D  
 Acq: 28 Oct 2024 21:52

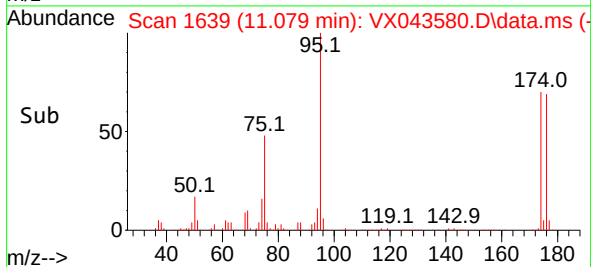
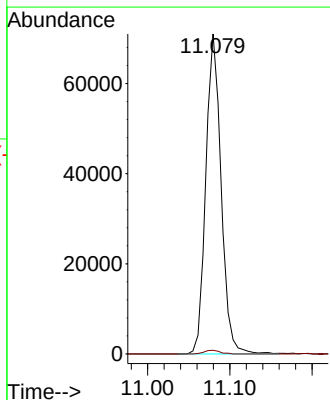
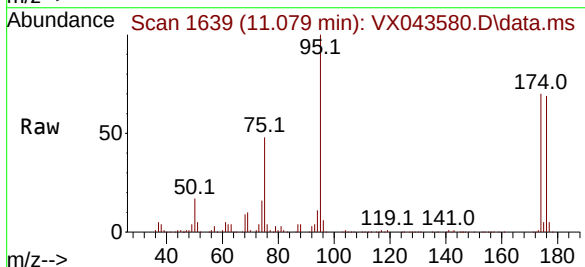
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB164394ZHE#12

Tgt Ion:152 Resp: 178109  
 Ion Ratio Lower Upper  
 152 100  
 115 61.1 42.9 128.7  
 150 156.6 0.0 343.6

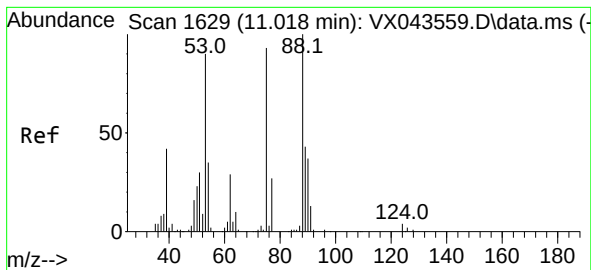


#76  
 1,2,3-Trichloropropane  
 Concen: 24.084 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX043580.D  
 Acq: 28 Oct 2024 21:52

Tgt Ion: 75 Resp: 91717  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 22.4 67.2#







#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.256 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX043580.D  
 Acq: 28 Oct 2024 21:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB164394ZHE#12

Tgt Ion: 75 Resp: 91717  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 84.6 126.8#  
 89 0.0 38.6 58.0#

