

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120224\  
 Data File : VX044068.D  
 Acq On : 02 Dec 2024 16:01  
 Operator : JC/MD  
 Sample : P5001-10DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 03 00:22:44 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 22 03:45:52 2024  
 Response via : Initial Calibration

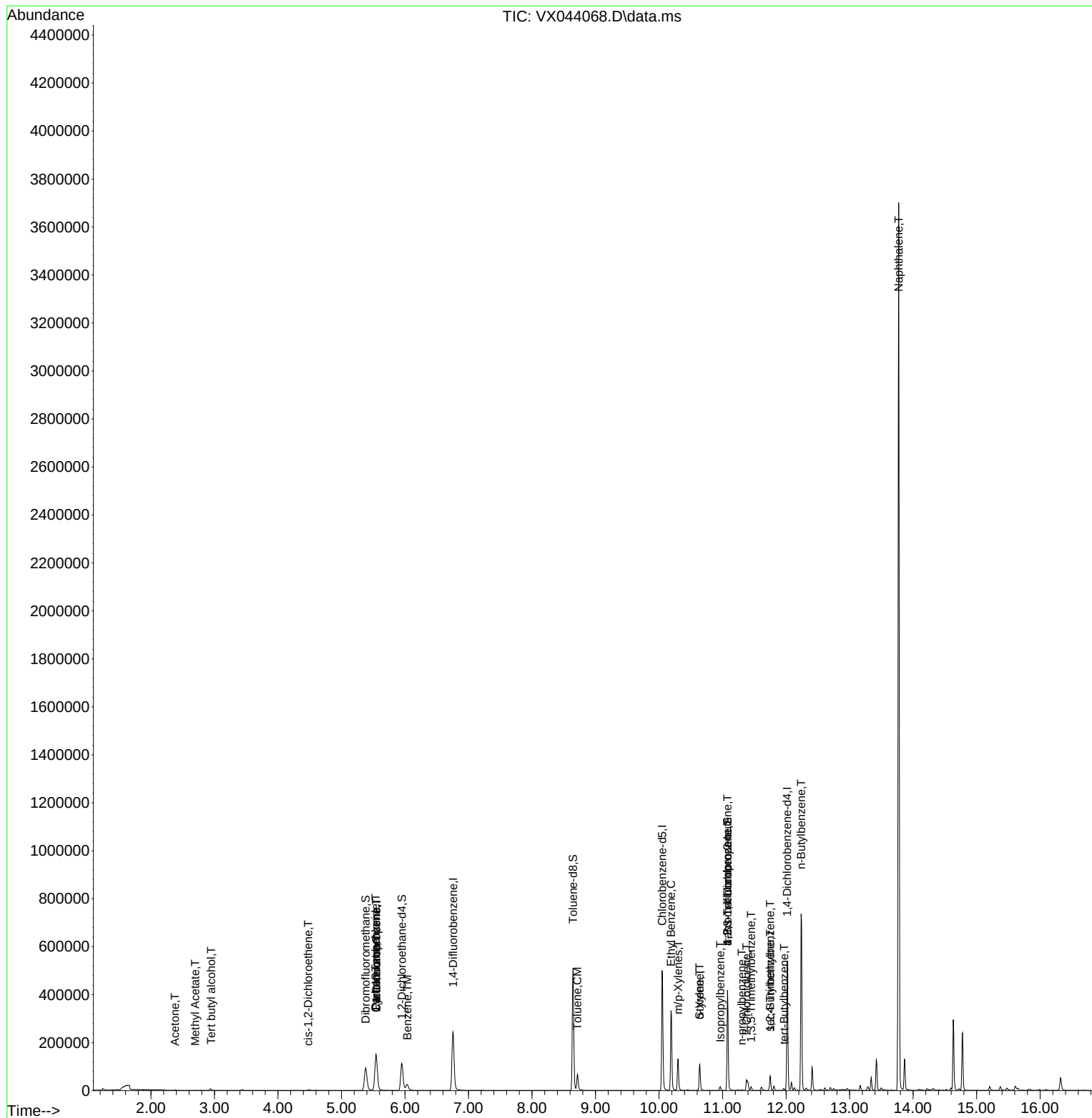
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 126077              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 246510              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 214521              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 101769              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 110759              | 51.220  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 102.440% |         |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 79600               | 45.190  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 90.380%  |         |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 303198              | 49.935  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 99.880%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 105242              | 50.930  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 101.860% |         |        |          |
| Target Compounds              |                |      |                     |         |        |          |
|                               |                |      |                     |         | Qvalue |          |
| 11) Tert butyl alcohol        | 2.947          | 59   | 3435                | 9.897   | ug/l # | 75       |
| 16) Acetone                   | 2.380          | 43   | 1523                | 1.533   | ug/l   | 95       |
| 18) Methyl Acetate            | 2.697          | 43   | 872                 | 0.377   | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 4.477          | 96   | 488                 | 0.263   | ug/l # | 1        |
| 31) Cyclohexane               | 5.550          | 56   | 3507                | 1.455   | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 11670               | 5.317   | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.538          | 117  | 15286               | 6.198   | ug/l # | 16       |
| 40) Benzene                   | 6.038          | 78   | 30383               | 4.444   | ug/l   | 96       |
| 52) Toluene                   | 8.714          | 92   | 24586               | 6.008   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.189         | 91   | 199557              | 24.996  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299         | 106  | 29052               | 9.758   | ug/l   | 97       |
| 69) o-Xylene                  | 10.640         | 106  | 23794               | 8.185   | ug/l   | 98       |
| 70) Styrene                   | 10.640         | 104  | 1337                | 0.278   | ug/l # | 1        |
| 73) Isopropylbenzene          | 10.963         | 105  | 8050                | 1.029   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 60750               | 27.220  | ug/l # | 34       |
| 78) n-propylbenzene           | 11.305         | 91   | 2016                | 0.231   | ug/l   | 90       |
| 79) 2-Chlorotoluene           | 11.378         | 91   | 5350                | 0.968   | ug/l # | 41       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 7474                | 1.161   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 60750               | 74.278  | ug/l # | 6        |
| 83) tert-Butylbenzene         | 11.969         | 119  | 1612                | 0.253   | ug/l   | 73       |
| 84) 1,2,4-Trimethylbenzene    | 11.750         | 105  | 24457               | 3.817   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.750         | 105  | 24457               | 3.129   | ug/l # | 57       |
| 89) n-Butylbenzene            | 12.238         | 91   | 51864               | 9.266   | ug/l # | 44       |
| 95) Naphthalene               | 13.774         | 128  | 2054202             | 282.194 | ug/l   | 100      |
| -----                         |                |      |                     |         |        |          |

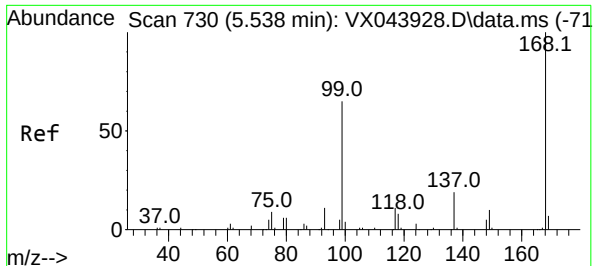
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

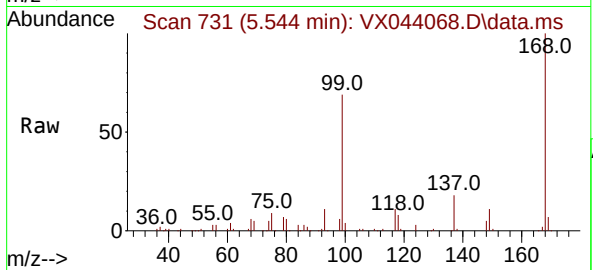
Quant Time: Dec 03 00:22:44 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 22 03:45:52 2024  
Response via : Initial Calibration



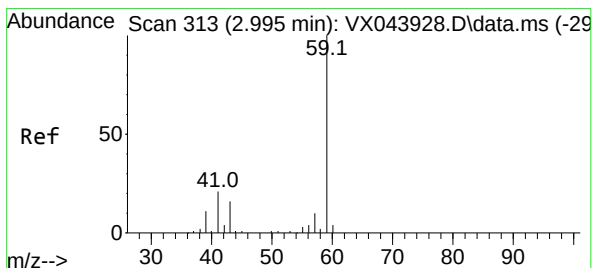
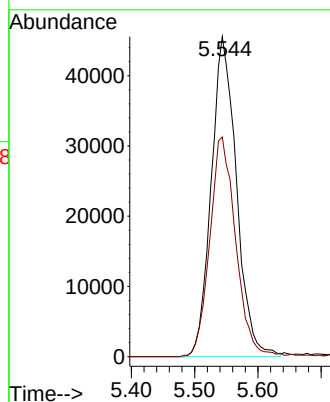
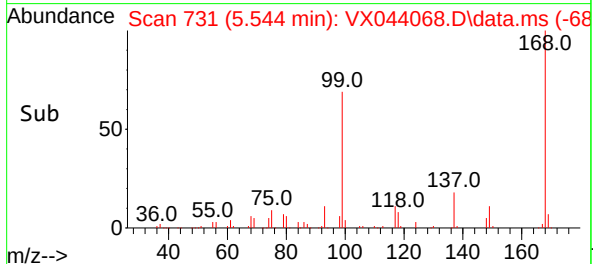


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

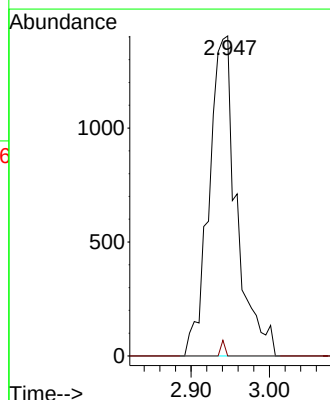
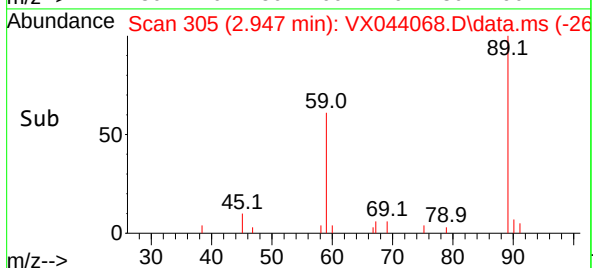
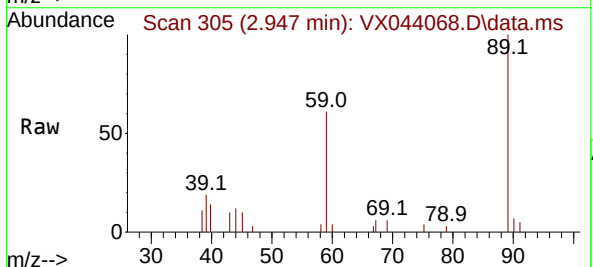


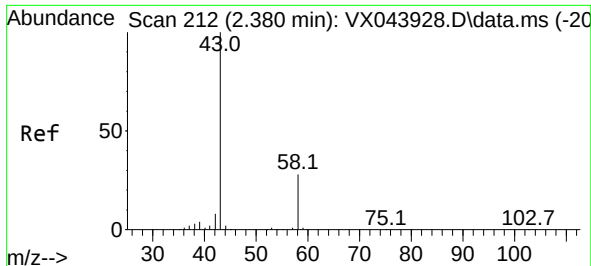
Tgt Ion:168 Resp: 126077  
Ion Ratio Lower Upper  
168 100  
99 68.6 51.8 77.8



#11  
Tert butyl alcohol  
Concen: 9.897 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.049 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion: 59 Resp: 3435  
Ion Ratio Lower Upper  
59 100  
57 0.7 7.9 11.9#

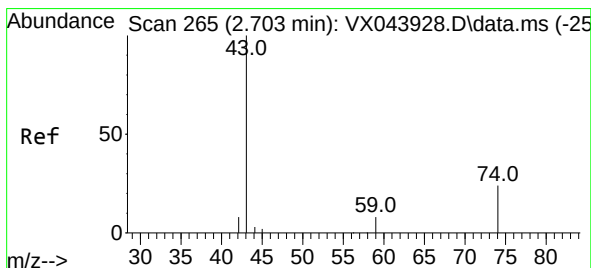
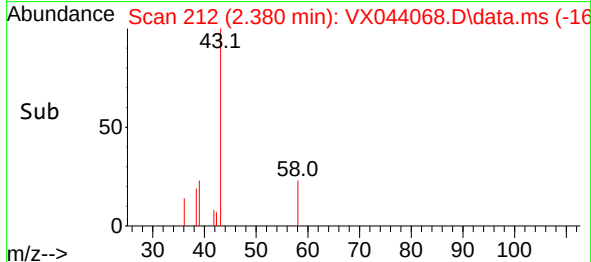
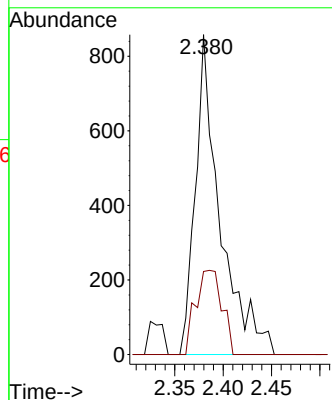
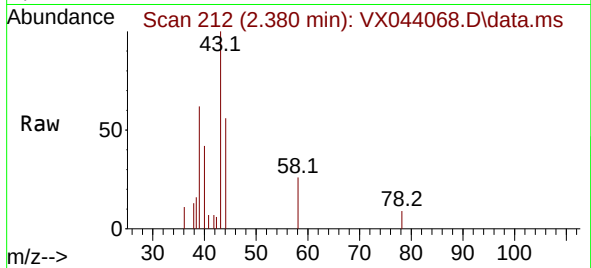




#16  
Acetone  
Concen: 1.533 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

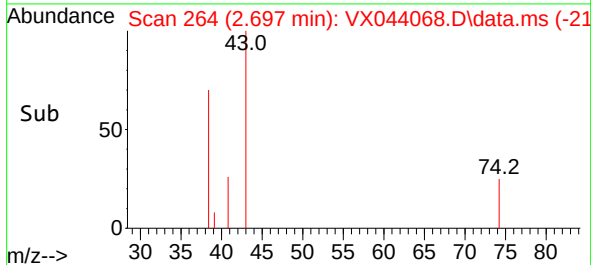
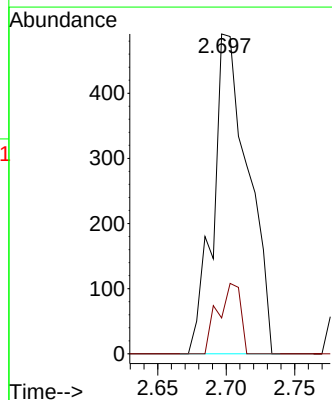
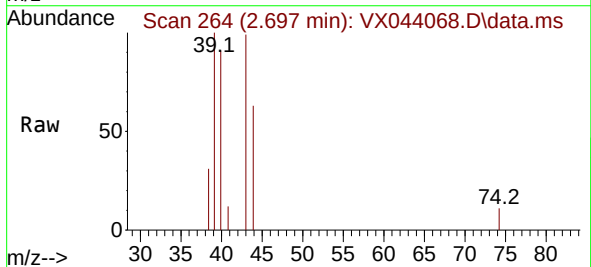
Instrument :  
MSVOA\_X  
ClientSampleId :

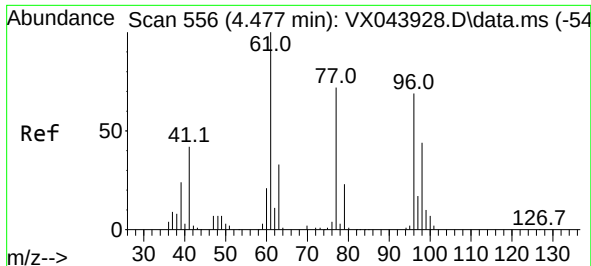
Tgt Ion: 43 Resp: 1523  
Ion Ratio Lower Upper  
43 100  
58 26.0 22.7 34.1



#18  
Methyl Acetate  
Concen: 0.377 ug/l  
RT: 2.697 min Scan# 264  
Delta R.T. -0.006 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion: 43 Resp: 872  
Ion Ratio Lower Upper  
43 100  
74 14.2 18.9 28.3#





#27

cis-1,2-Dichloroethene

Concen: 0.263 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.000 min

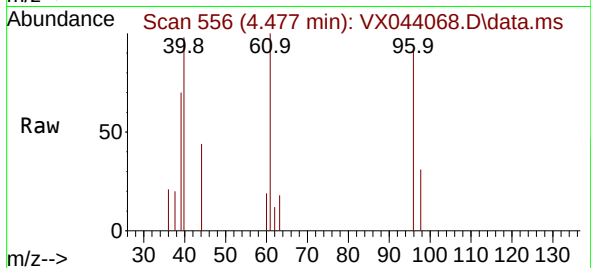
Lab File: VX044068.D

Acq: 02 Dec 2024 16:01

Instrument :

MSVOA\_X

ClientSampleId :



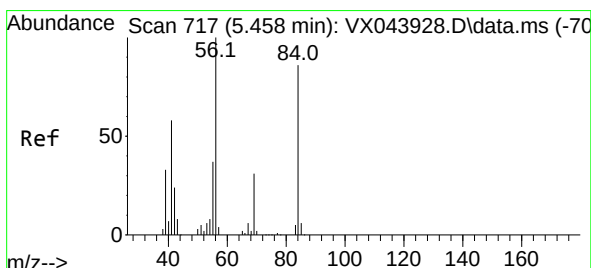
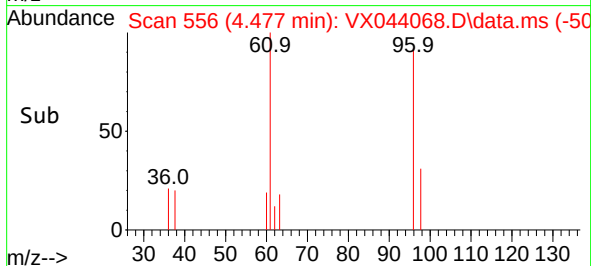
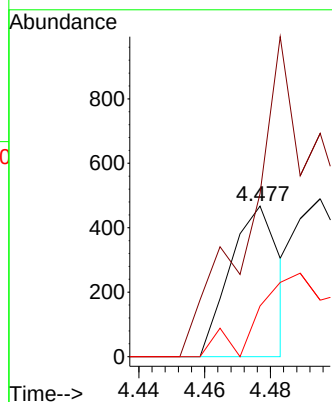
Tgt Ion: 96 Resp: 488

Ion Ratio Lower Upper

96 100

61 413.1 0.0 297.4#

98 136.9 0.0 127.8#



#31

Cyclohexane

Concen: 1.455 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.091 min

Lab File: VX044068.D

Acq: 02 Dec 2024 16:01

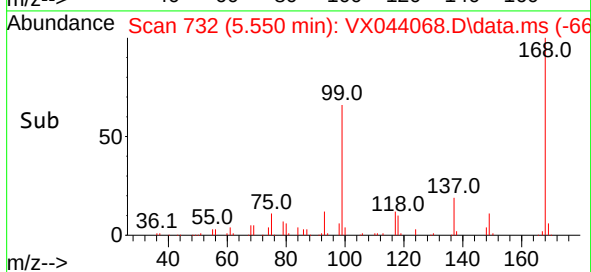
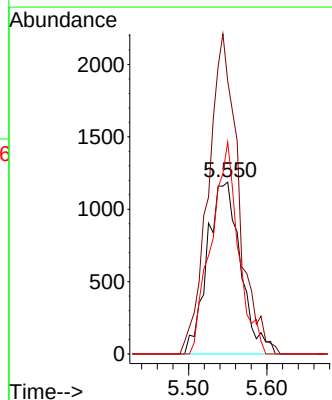
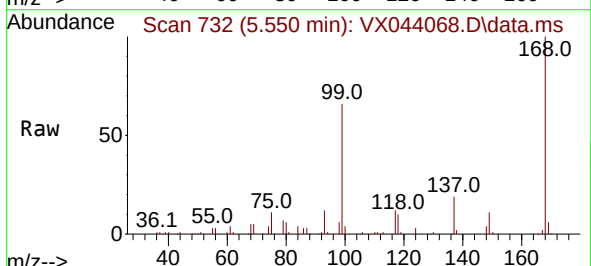
Tgt Ion: 56 Resp: 3507

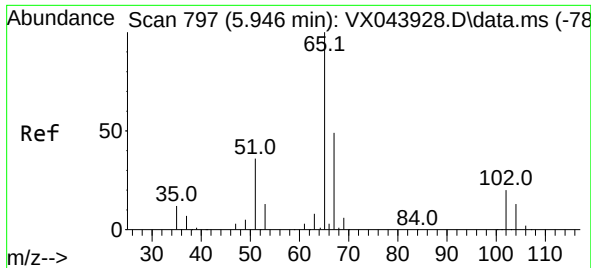
Ion Ratio Lower Upper

56 100

69 158.7 24.7 37.1#

84 123.3 68.7 103.1#

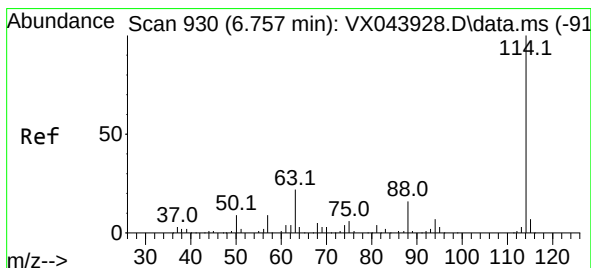
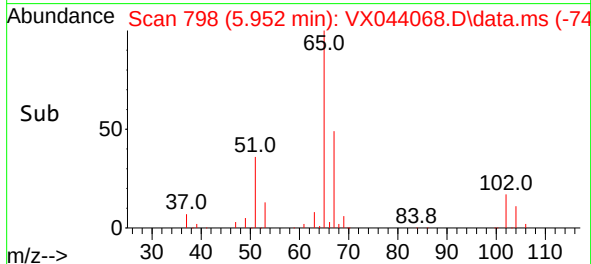
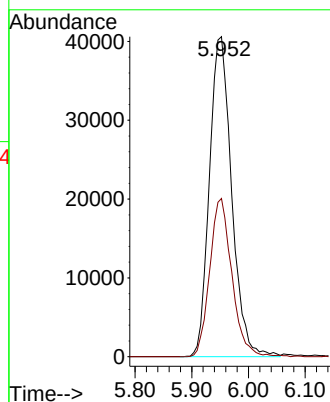
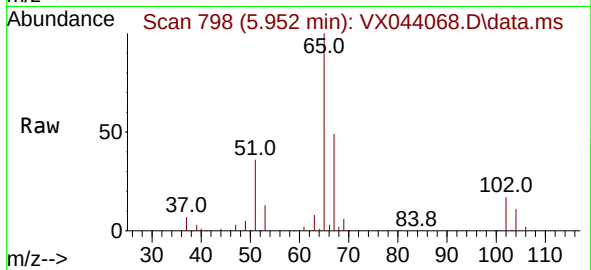




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.220 ug/l  
 RT: 5.952 min Scan# 797  
 Delta R.T. 0.006 min  
 Lab File: VX044068.D  
 Acq: 02 Dec 2024 16:01

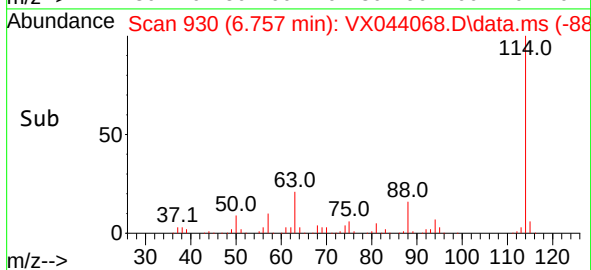
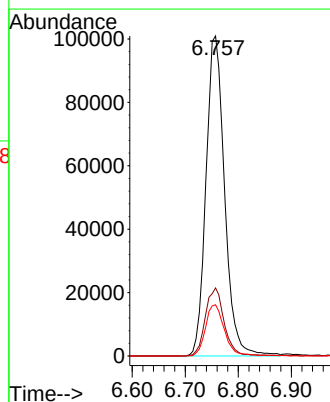
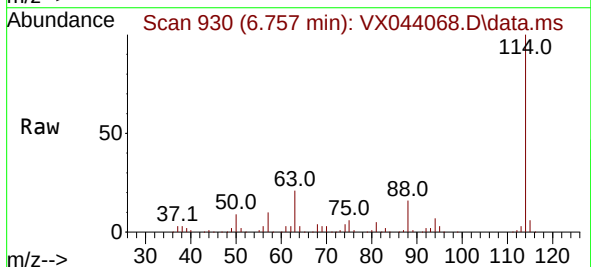
Instrument :  
 MSVOA\_X  
 ClientSampleId :

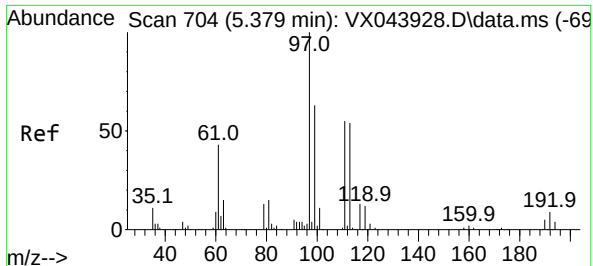
Tgt Ion: 65 Resp: 110759  
 Ion Ratio Lower Upper  
 65 100  
 67 49.1 0.0 100.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.757 min Scan# 930  
 Delta R.T. -0.000 min  
 Lab File: VX044068.D  
 Acq: 02 Dec 2024 16:01

Tgt Ion: 114 Resp: 246510  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 44.0  
 88 16.0 0.0 32.4





#35

Dibromofluoromethane

Concen: 45.190 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

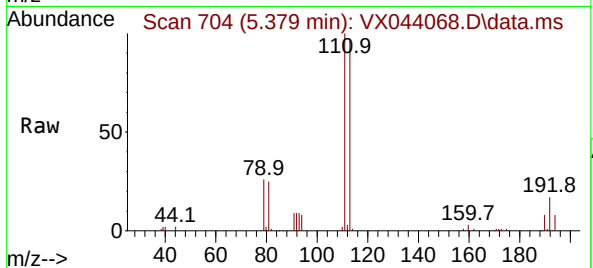
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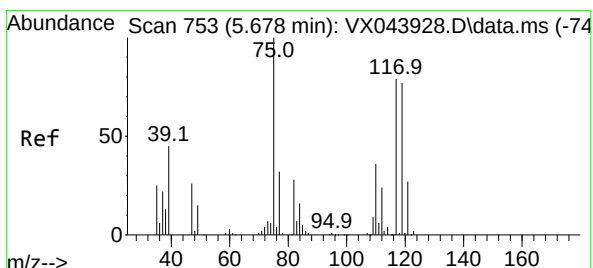
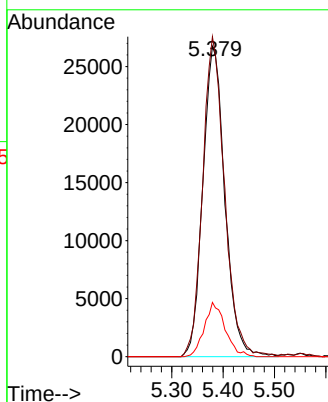
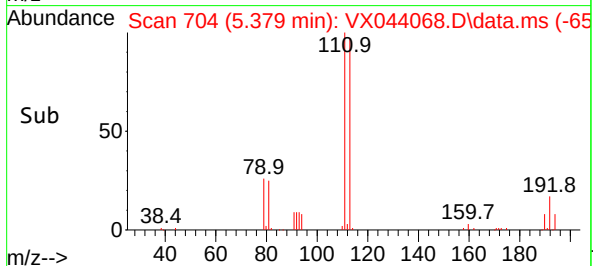
Instrument :

MSVOA\_X

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 79600 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.6 | 81.0  | 121.4 |
| 192      | 16.6  | 13.0  | 19.6  |



#36

1,1-Dichloropropene

Concen: 5.317 ug/l

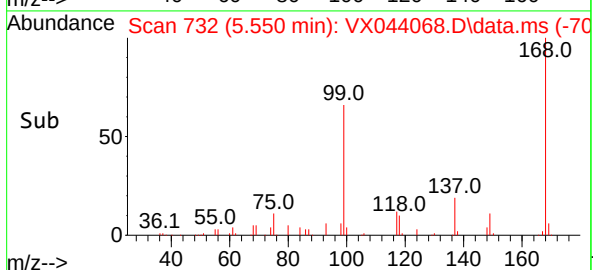
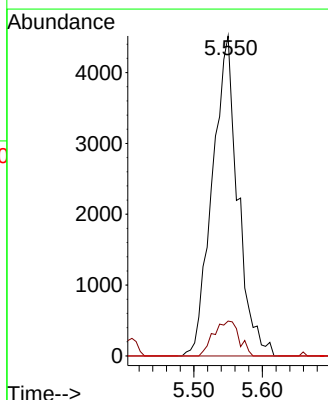
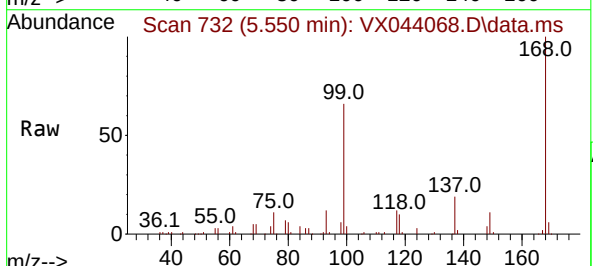
RT: 5.550 min Scan# 732

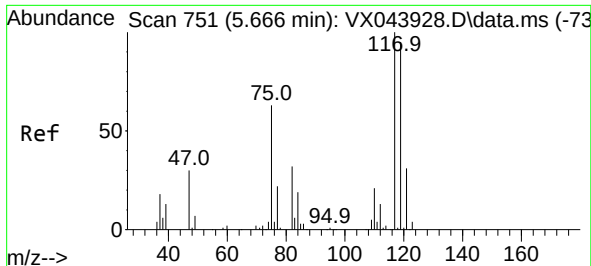
Delta R.T. -0.128 min

Lab File: VX044068.D

Acq: 02 Dec 2024 16:01

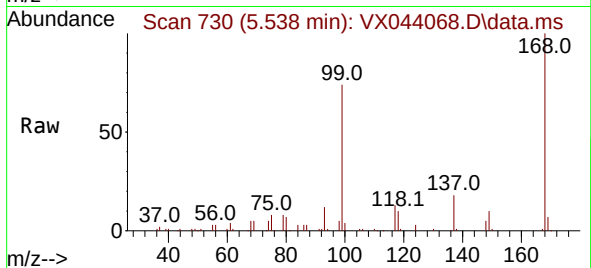
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|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11670 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.9  | 17.4  | 52.2# |
| 77       | 0.0   | 25.8  | 38.8# |



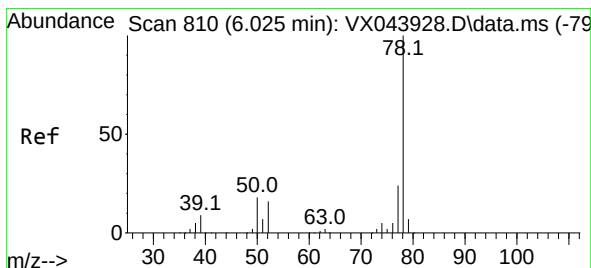
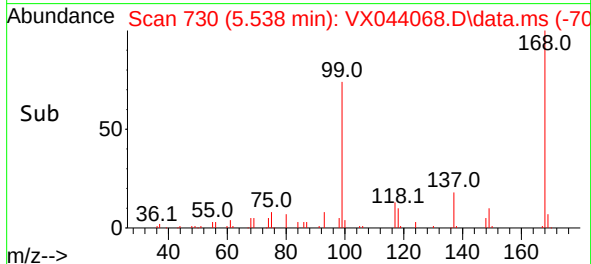
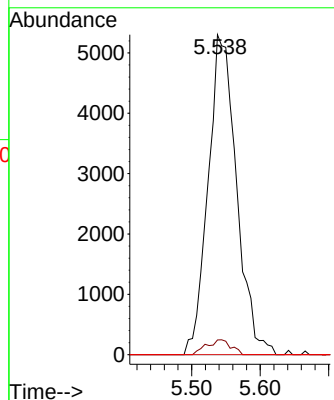


#38  
Carbon Tetrachloride  
Concen: 6.198 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

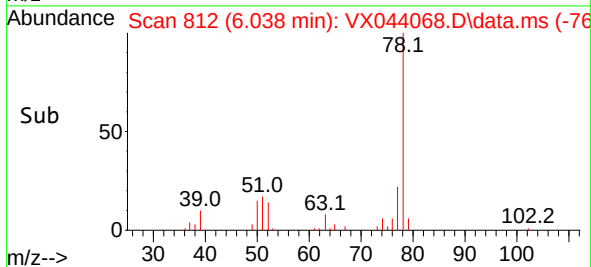
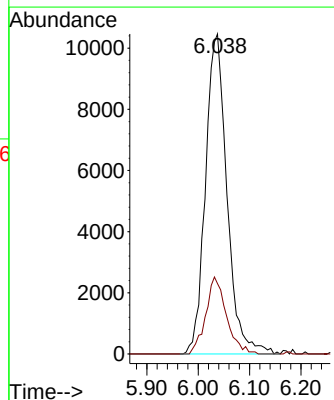
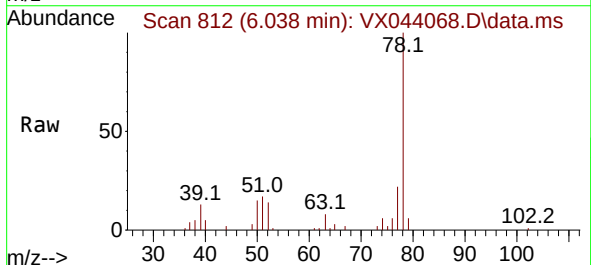


Tgt Ion:117 Resp: 15286  
Ion Ratio Lower Upper  
117 100  
119 4.6 75.2 112.8#  
121 0.0 24.5 36.7#

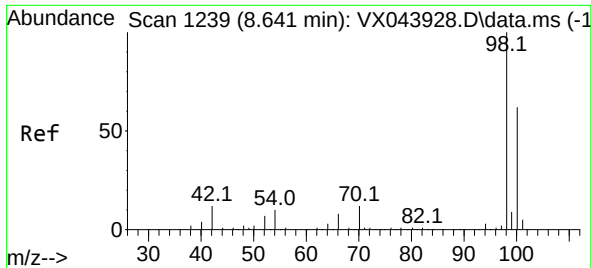


#40  
Benzene  
Concen: 4.444 ug/l  
RT: 6.038 min Scan# 812  
Delta R.T. 0.012 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion: 78 Resp: 30383  
Ion Ratio Lower Upper  
78 100  
77 22.0 19.2 28.8



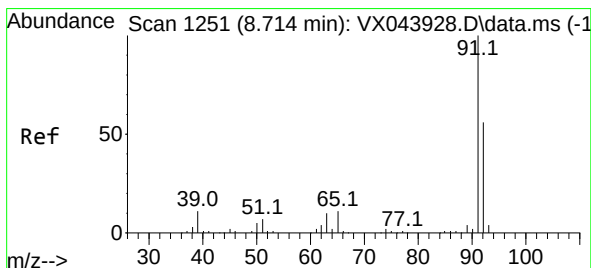
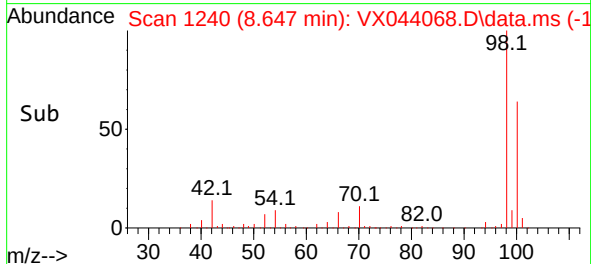
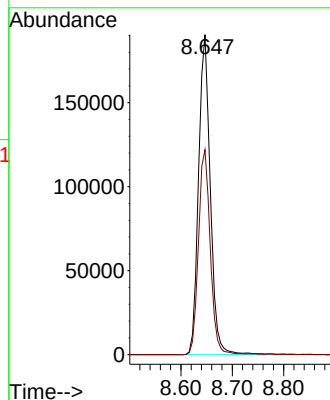
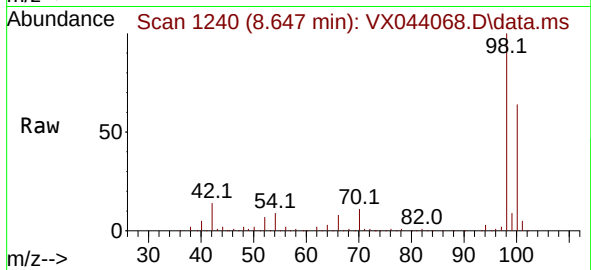




#50  
Toluene-d8  
Concen: 49.935 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

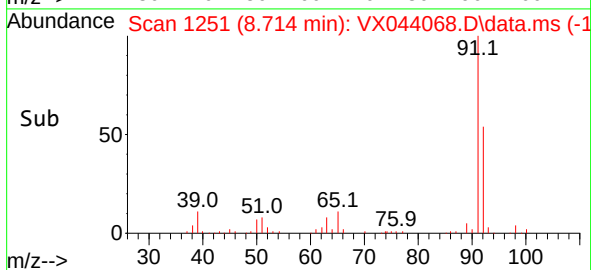
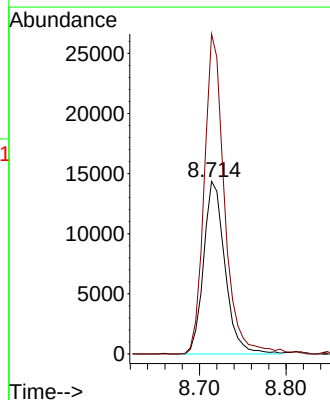
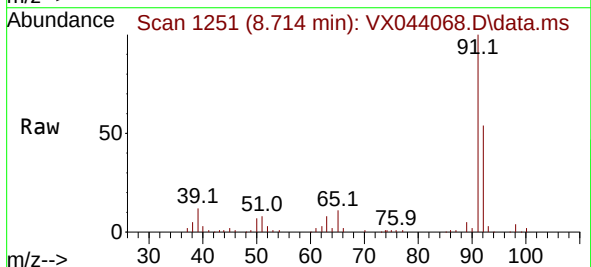
Instrument :  
MSVOA\_X  
ClientSampleId :

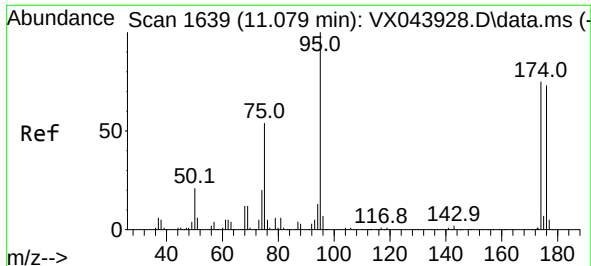
Tgt Ion: 98 Resp: 303198  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.6 79.0



#52  
Toluene  
Concen: 6.008 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion: 92 Resp: 24586  
Ion Ratio Lower Upper  
92 100  
91 176.3 139.7 209.5

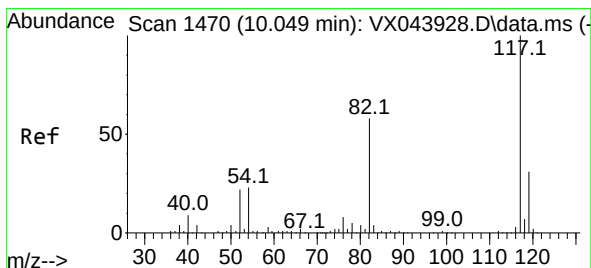
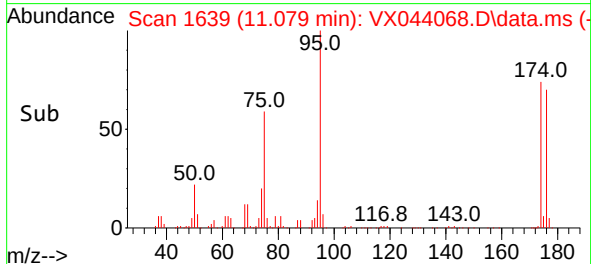
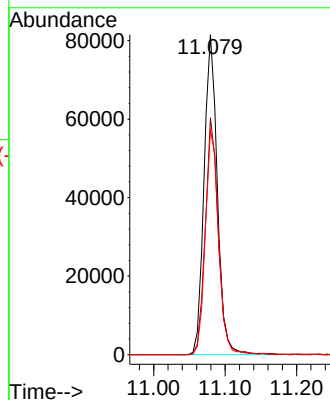
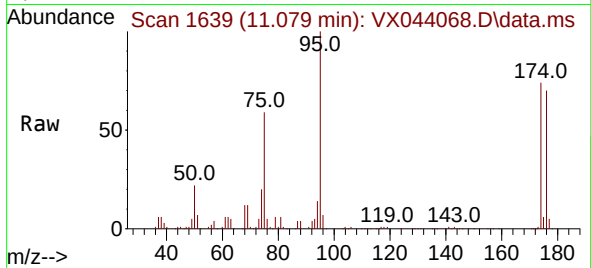




#62  
4-Bromofluorobenzene  
Concen: 50.930 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

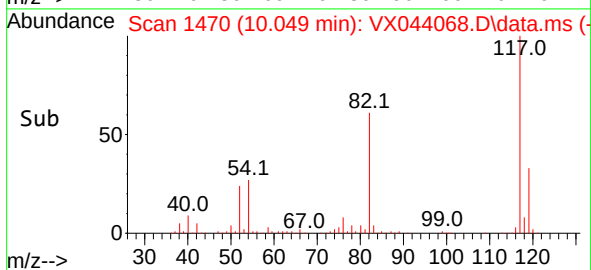
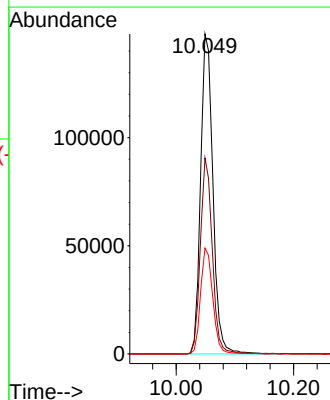
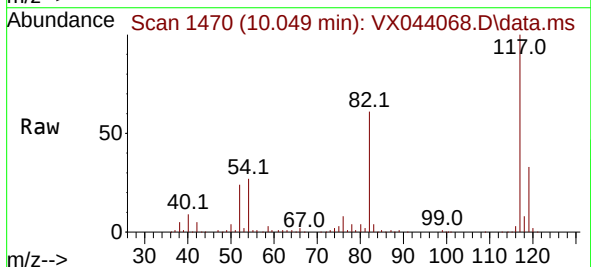
Instrument :  
MSVOA\_X  
ClientSampleId :

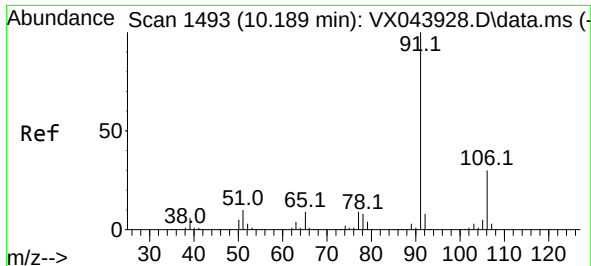
Tgt Ion: 95 Resp: 105242  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 150.4  
176 70.2 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion: 117 Resp: 214521  
Ion Ratio Lower Upper  
117 100  
82 61.3 46.4 69.6  
119 33.1 24.6 37.0





#67

Ethyl Benzene

Concen: 24.996 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX044068.D

Acq: 02 Dec 2024 16:01

Instrument :

MSVOA\_X

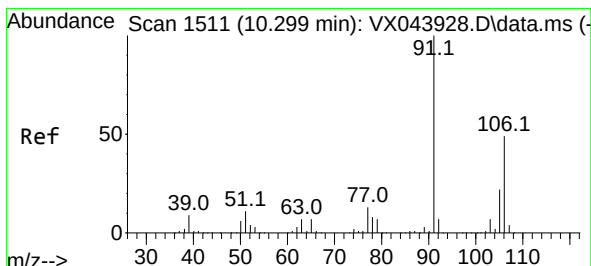
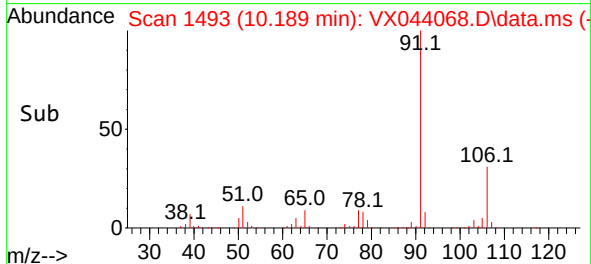
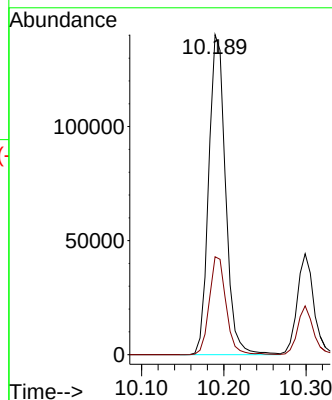
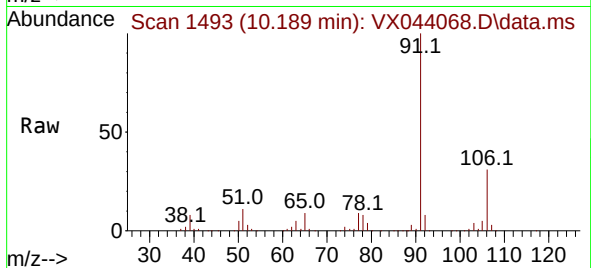
ClientSampleId :

Tgt Ion: 91 Resp: 199557

Ion Ratio Lower Upper

91 100

106 30.6 23.6 35.4



#68

m/p-Xylenes

Concen: 9.758 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044068.D

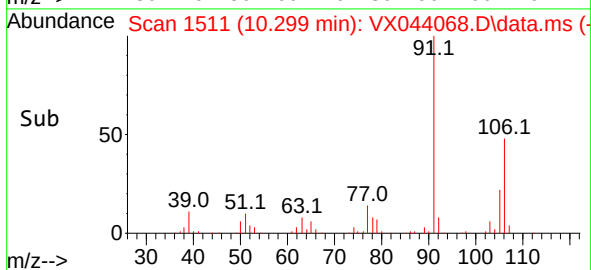
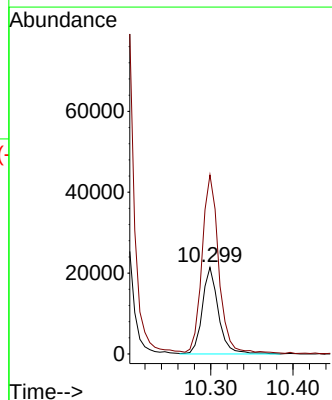
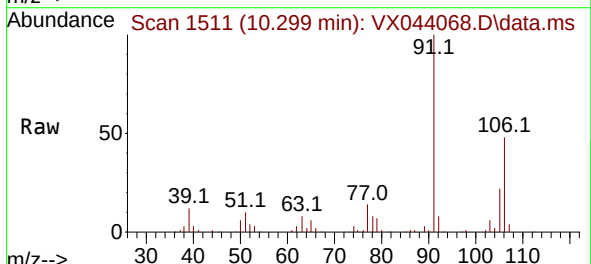
Acq: 02 Dec 2024 16:01

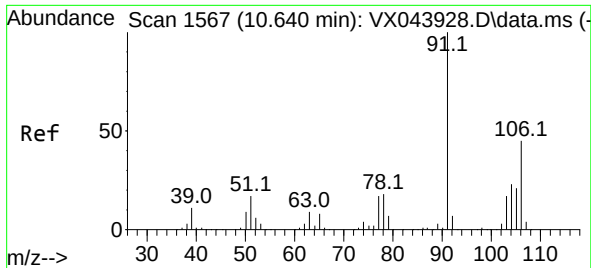
Tgt Ion:106 Resp: 29052

Ion Ratio Lower Upper

106 100

91 214.7 168.1 252.1

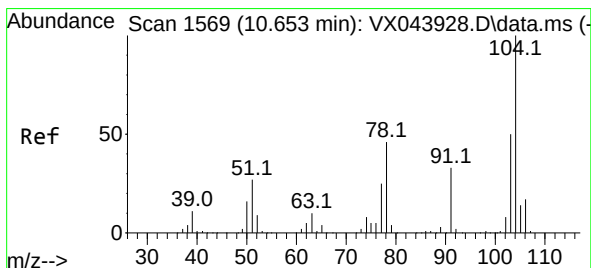
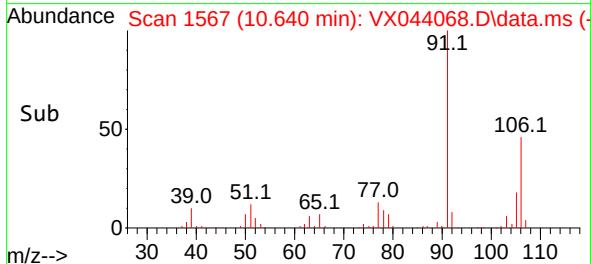
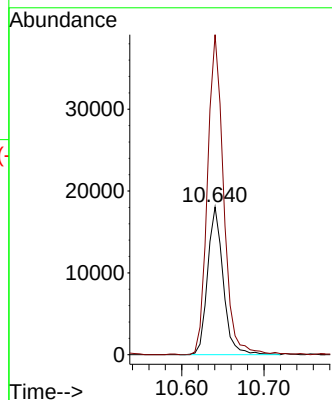
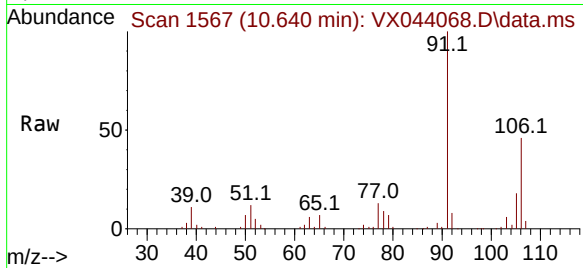




#69  
o-Xylene  
Concen: 8.185 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

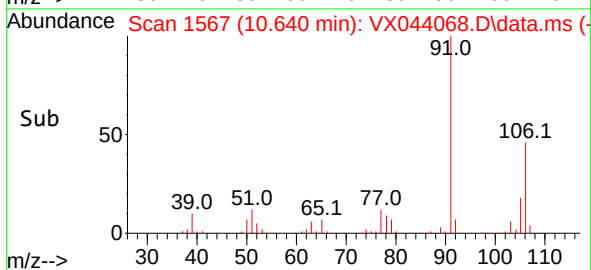
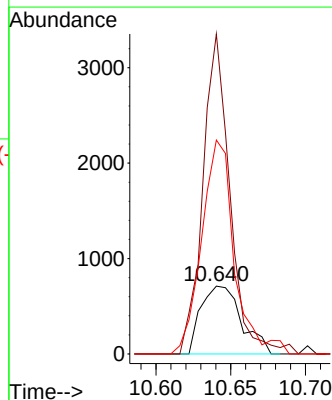
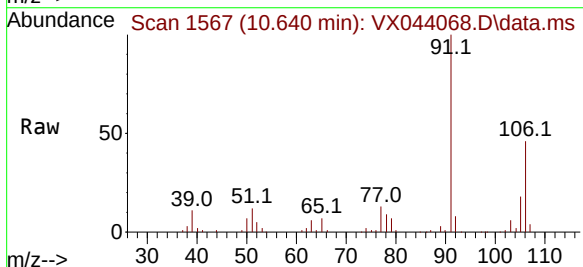
Instrument :  
MSVOA\_X  
ClientSampleId :

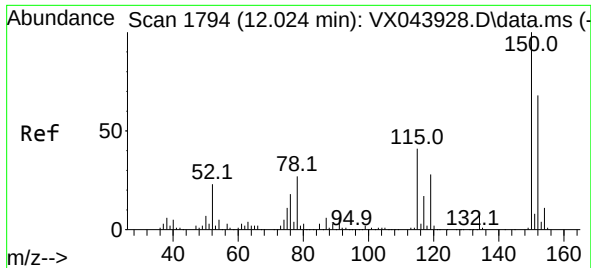
Tgt Ion:106 Resp: 23794  
Ion Ratio Lower Upper  
106 100  
91 222.9 110.2 330.6



#70  
Styrene  
Concen: 0.278 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.012 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion:104 Resp: 1337  
Ion Ratio Lower Upper  
104 100  
78 316.8 42.2 63.2#  
103 254.4 44.7 67.1#

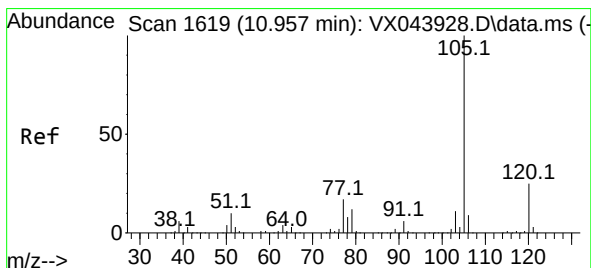
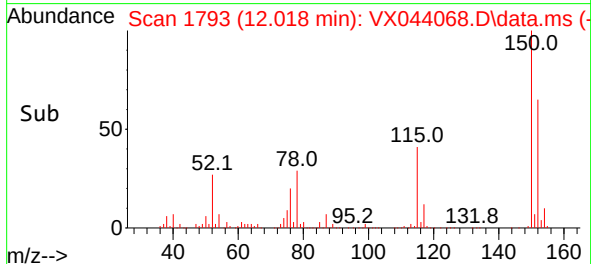
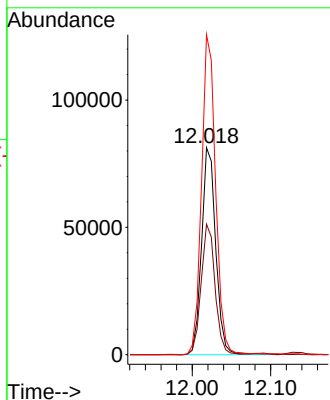
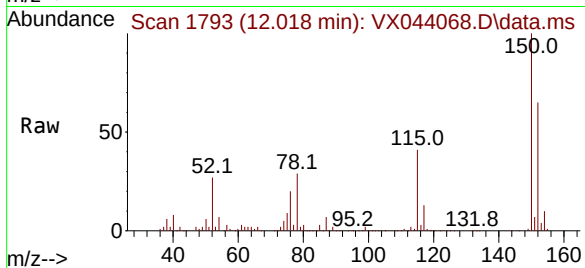




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

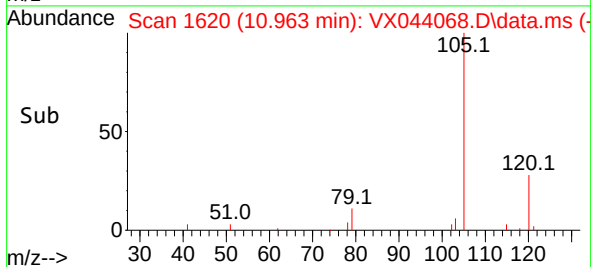
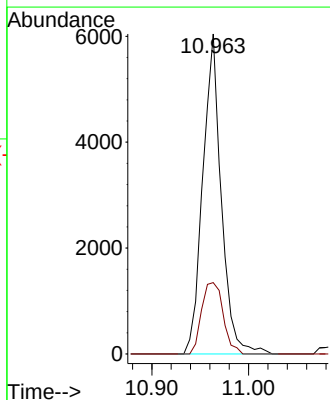
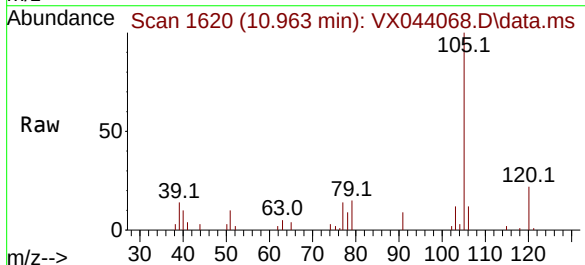
Instrument :  
MSVOA\_X  
ClientSampleId :

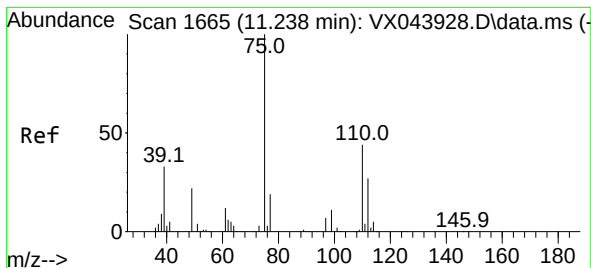
Tgt Ion:152 Resp: 101769  
Ion Ratio Lower Upper  
152 100  
115 62.1 45.4 136.2  
150 153.9 0.0 353.0



#73  
Isopropylbenzene  
Concen: 1.029 ug/l  
RT: 10.963 min Scan# 1620  
Delta R.T. 0.006 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion:105 Resp: 8050  
Ion Ratio Lower Upper  
105 100  
120 26.0 13.0 38.9





#76

1,2,3-Trichloropropane

Concen: 27.220 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX044068.D

Acq: 02 Dec 2024 16:01

Instrument :

MSVOA\_X

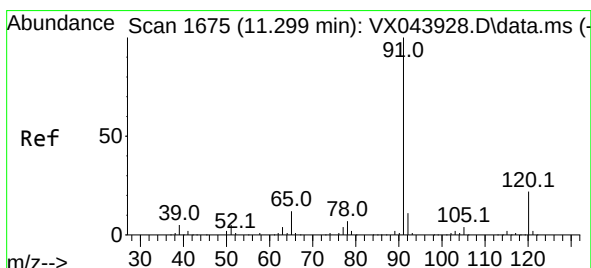
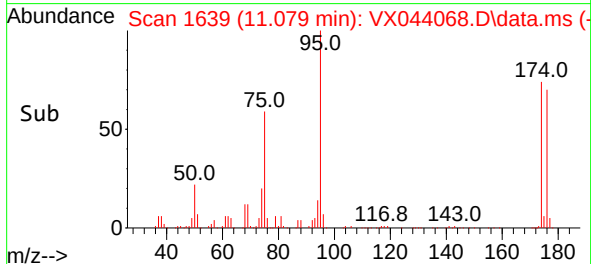
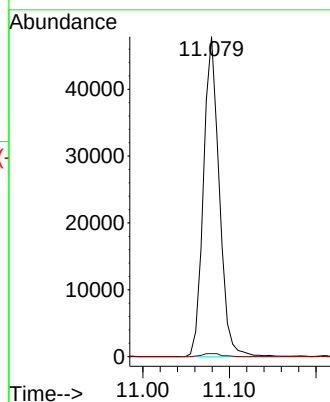
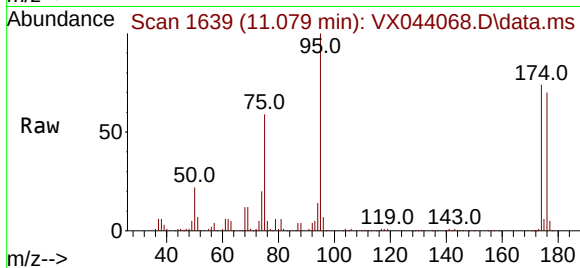
ClientSampleId :

Tgt Ion: 75 Resp: 60750

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#78

n-propylbenzene

Concen: 0.231 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.006 min

Lab File: VX044068.D

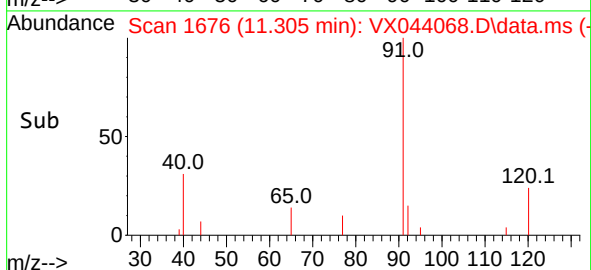
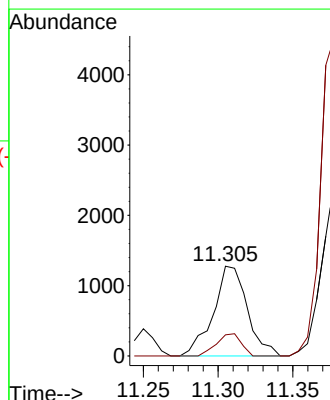
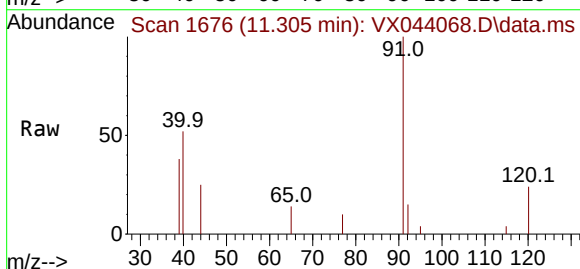
Acq: 02 Dec 2024 16:01

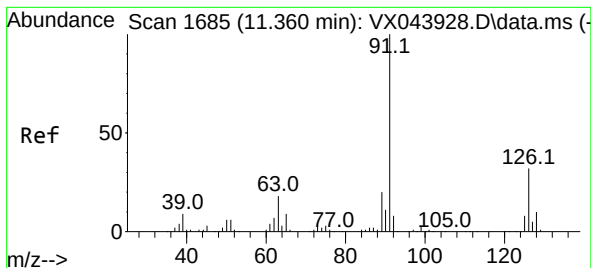
Tgt Ion: 91 Resp: 2016

Ion Ratio Lower Upper

91 100

120 18.1 11.5 34.4





#79

2-Chlorotoluene

Concen: 0.968 ug/l

RT: 11.378 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX044068.D

Acq: 02 Dec 2024 16:01

Instrument :

MSVOA\_X

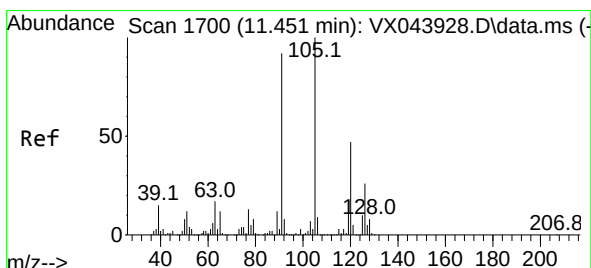
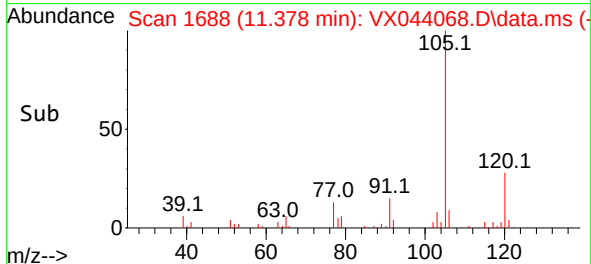
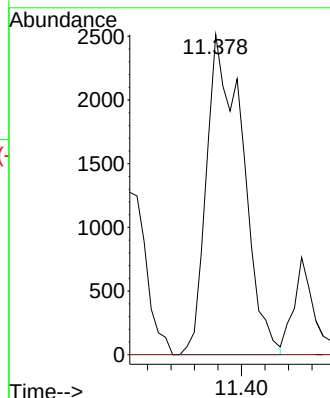
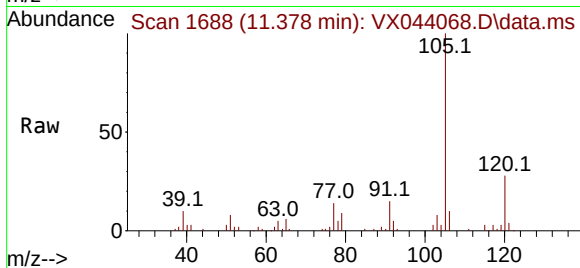
ClientSampleId :

Tgt Ion: 91 Resp: 5350

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.8#



#80

1,3,5-Trimethylbenzene

Concen: 1.161 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044068.D

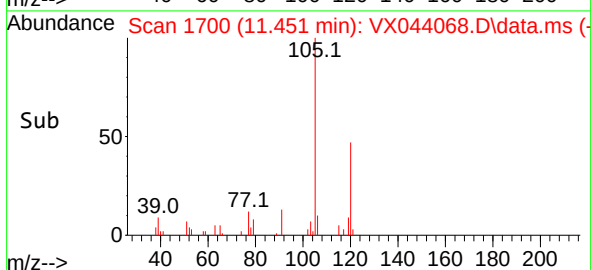
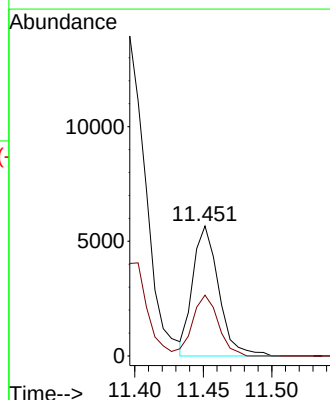
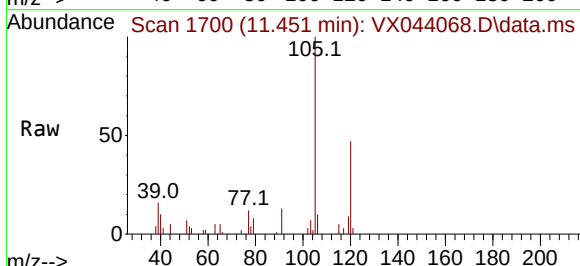
Acq: 02 Dec 2024 16:01

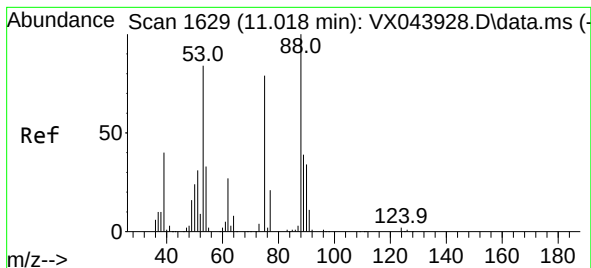
Tgt Ion:105 Resp: 7474

Ion Ratio Lower Upper

105 100

120 46.8 23.3 69.8

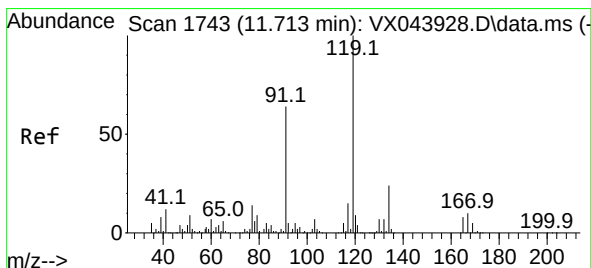
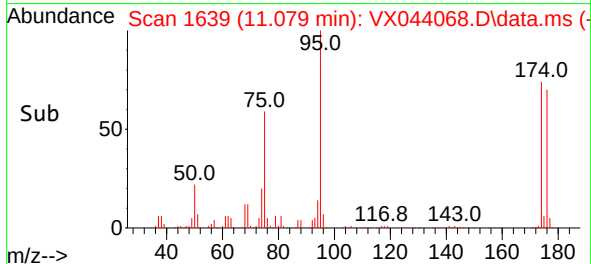
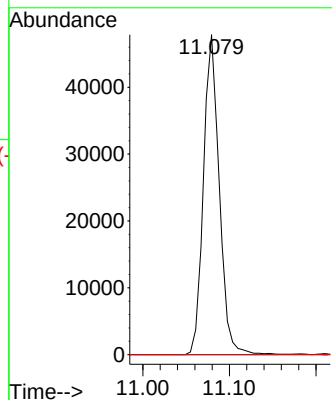
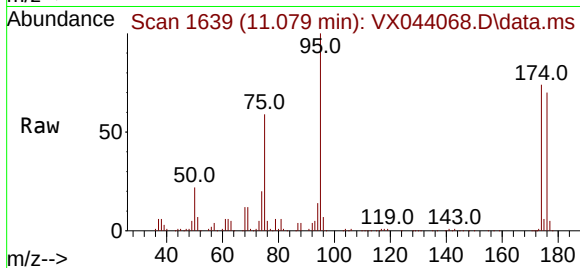




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.278 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX044068.D  
 Acq: 02 Dec 2024 16:01

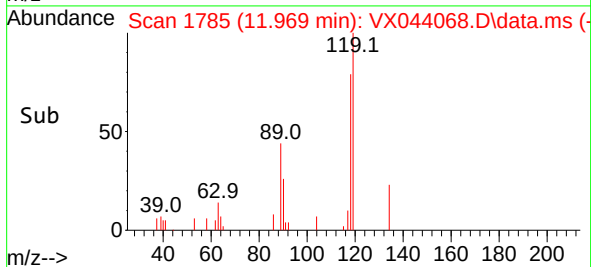
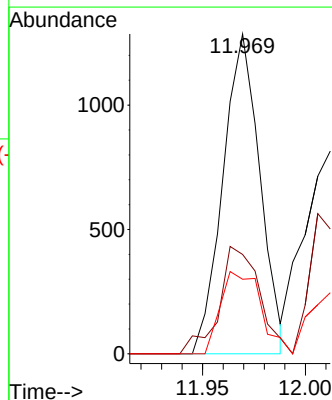
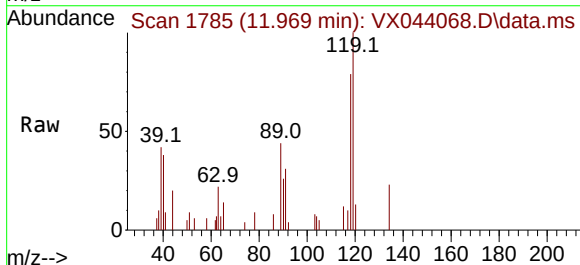
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 75 Resp: 60750  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 86.7 130.1#  
 89 0.0 38.2 57.2#

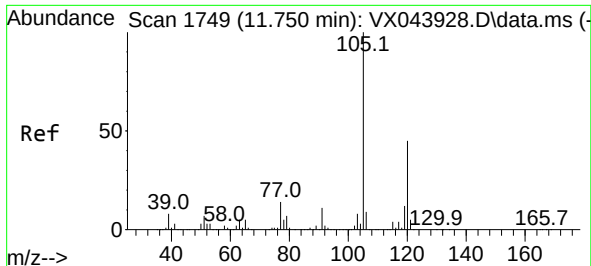


#83  
 tert-Butylbenzene  
 Concen: 0.253 ug/l  
 RT: 11.969 min Scan# 1785  
 Delta R.T. 0.256 min  
 Lab File: VX044068.D  
 Acq: 02 Dec 2024 16:01

Tgt Ion: 119 Resp: 1612  
 Ion Ratio Lower Upper  
 119 100  
 91 36.6 31.0 93.0  
 134 28.0 11.6 34.8



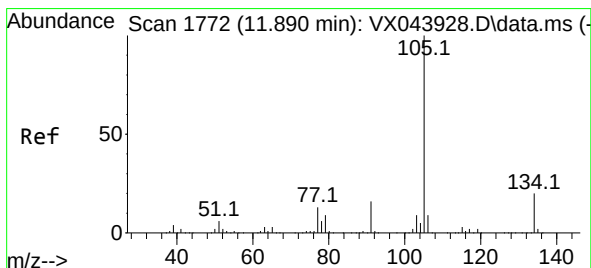
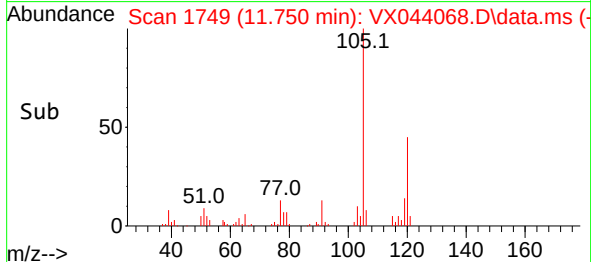
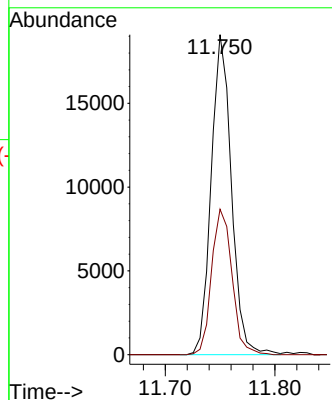
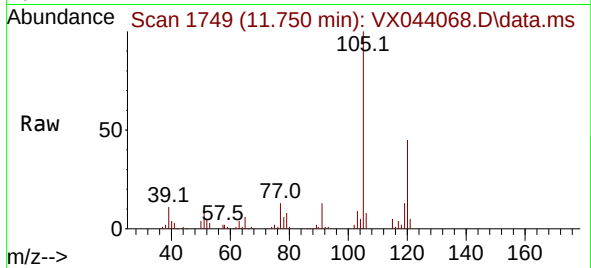




#84  
1,2,4-Trimethylbenzene  
Concen: 3.817 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

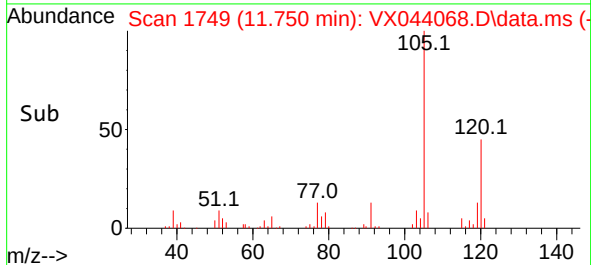
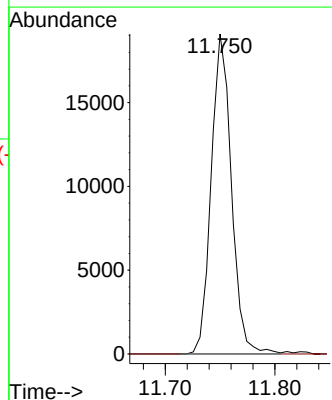
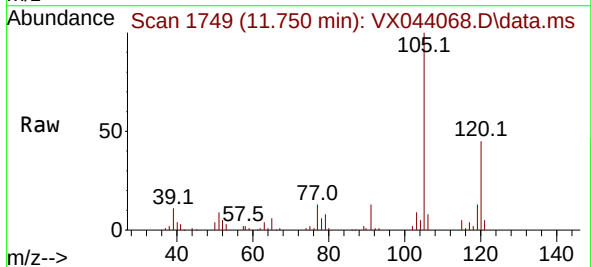
Instrument :  
MSVOA\_X  
ClientSampleId :

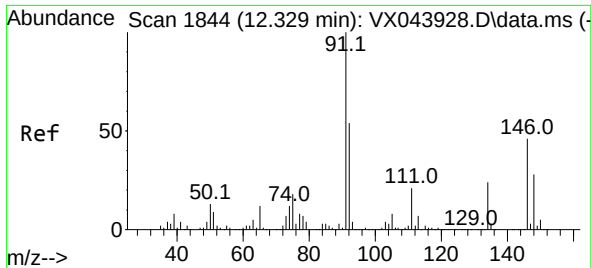
Tgt Ion:105 Resp: 24457  
Ion Ratio Lower Upper  
105 100  
120 45.9 21.9 65.7



#85  
sec-Butylbenzene  
Concen: 3.129 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.140 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

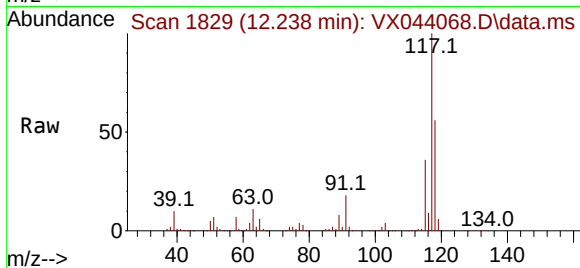
Tgt Ion:105 Resp: 24457  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.7 29.1#



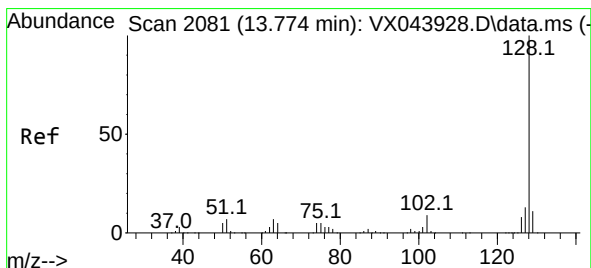
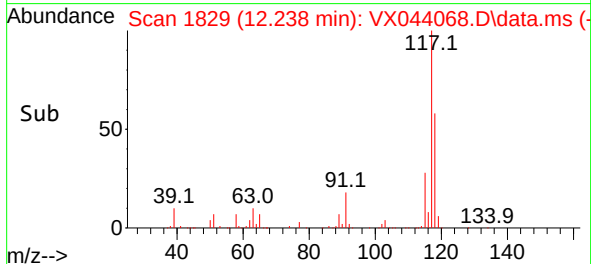
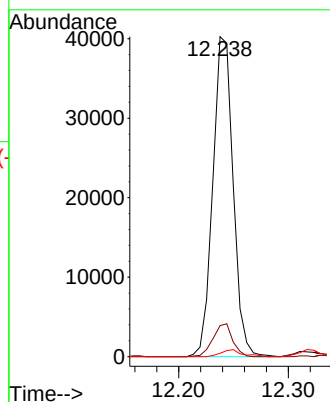


#89  
n-Butylbenzene  
Concen: 9.266 ug/l  
RT: 12.238 min Scan# 1829  
Delta R.T. -0.092 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 91 Resp: 51864  
Ion Ratio Lower Upper  
91 100  
92 10.0 26.6 79.8#  
134 2.2 12.4 37.2#



#95  
Naphthalene  
Concen: 282.194 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX044068.D  
Acq: 02 Dec 2024 16:01

Tgt Ion:128 Resp: 2054202  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.2  
129 10.9 8.6 12.8

