

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120122\  
 Data File : VX033169.D  
 Acq On : 01 Dec 2022 17:27  
 Operator : JC/MD  
 Sample : N5821-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LEA-8I

Quant Time: Dec 02 00:54:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 22 13:58:46 2022  
 Response via : Initial Calibration

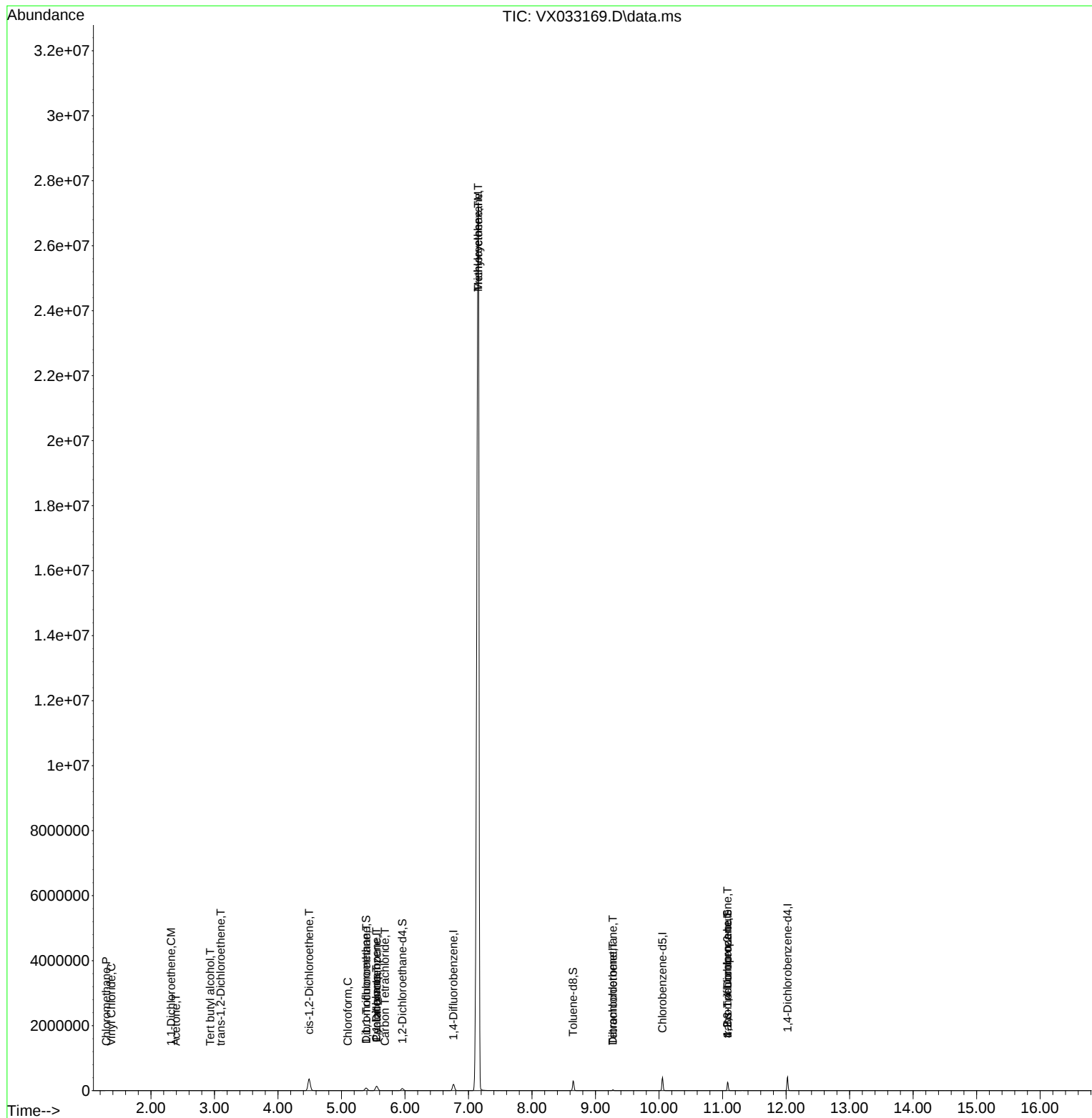
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 126695   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 204609   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 181610   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 85389    | 50.000    | ug/l   | 0.00     |
|                               |           |       |          |           |        |          |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 68061    | 55.309    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | =      | 110.620% |
| 35) Dibromofluoromethane      | 5.385     | 113   | 54651    | 47.378    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 94.760%  |
| 50) Toluene-d8                | 8.647     | 98    | 178501   | 51.495    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | =      | 103.000% |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 67851    | 44.779    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 89.560%  |
|                               |           |       |          |           |        |          |
| Target Compounds              |           |       |          |           |        | Qvalue   |
| 3) Chloromethane              | 1.294     | 50    | 236      | 0.226     | ug/l # | 43       |
| 4) Vinyl Chloride             | 1.374     | 62    | 1377     | 1.184     | ug/l # | 70       |
| 11) Tert butyl alcohol        | 2.934     | 59    | 256      | 1.309     | ug/l # | 72       |
| 12) 1,1-Dichloroethene        | 2.319     | 96    | 843      | 0.762     | ug/l   | 99       |
| 16) Acetone                   | 2.392     | 43    | 530      | 0.920     | ug/l # | 45       |
| 20) Methylene Chloride        | 2.788     | 84    | 146      | Below Cal | #      | 55       |
| 21) trans-1,2-Dichloroethene  | 3.099     | 96    | 1483     | 1.173     | ug/l   | 93       |
| 27) cis-1,2-Dichloroethene    | 4.489     | 96    | 225261   | 156.763   | ug/l   | 91       |
| 30) Chloroform                | 5.099     | 83    | 1600     | 0.642     | ug/l   | 96       |
| 31) Cyclohexane               | 5.550     | 56    | 2584     | 1.293     | ug/l # | 27       |
| 32) 1,1,1-Trichloroethane     | 5.391     | 97    | 18000    | 8.069     | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 10164    | 5.511     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.684     | 117   | 909      | 0.444     | ug/l # | 76       |
| 39) Methylcyclohexane         | 7.153     | 83    | 159180   | 75.640    | ug/l # | 1        |
| 44) Trichloroethene           | 7.153     | 130   | 12497301 | 8612.220  | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.275     | 129   | 4065     | 2.726     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275     | 164   | 4139     | 3.220     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 37349    | 23.096    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 37349    | 75.072    | ug/l # | 6        |
| -----                         |           |       |          |           |        |          |

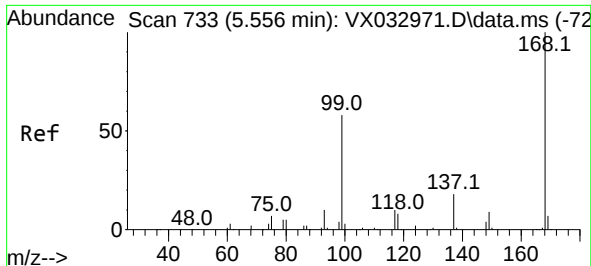
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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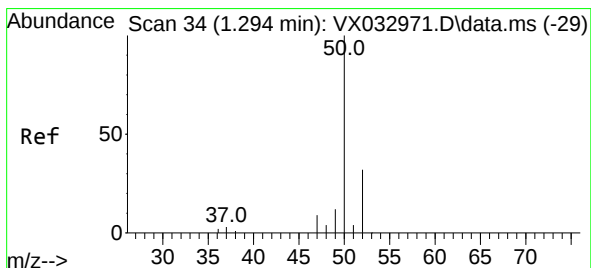
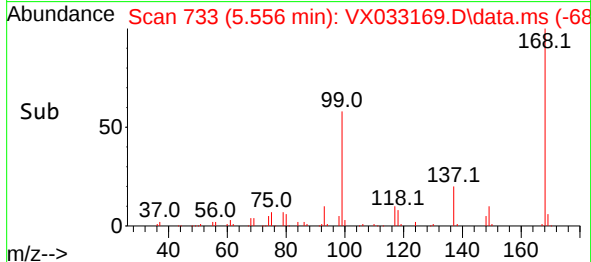
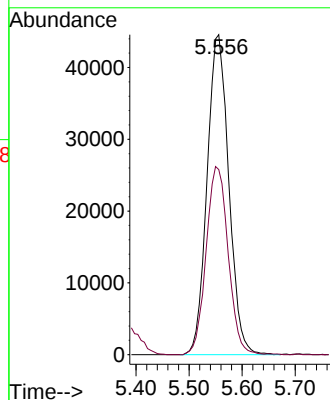
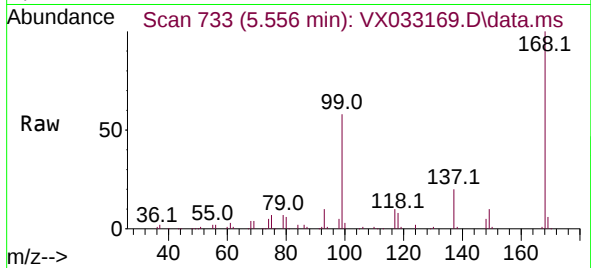




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

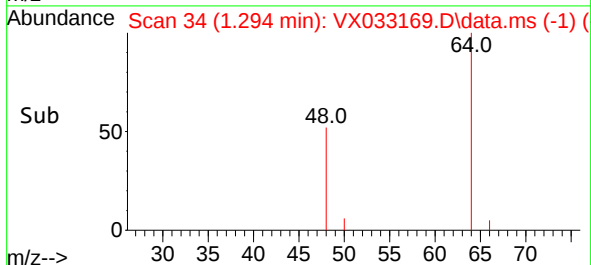
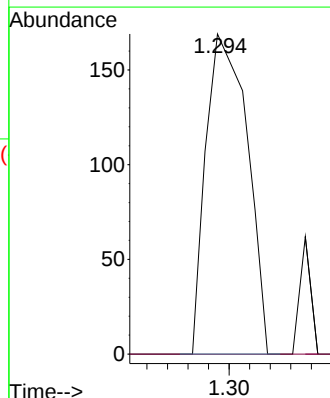
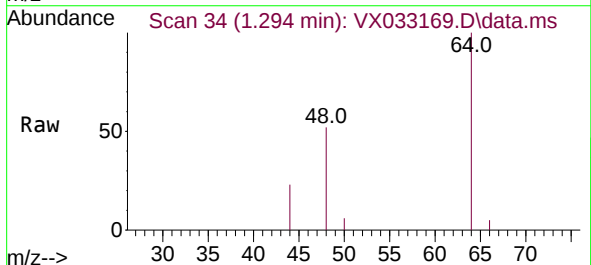
Instrument :  
MSVOA\_X  
ClientSampleId :  
LEA-8I

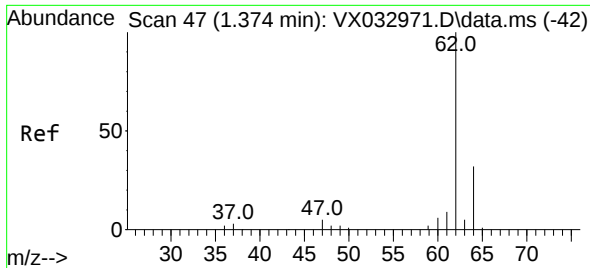
Tgt Ion:168 Resp: 126695  
Ion Ratio Lower Upper  
168 100  
99 57.9 46.1 69.1



#3  
Chloromethane  
Concen: 0.226 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

Tgt Ion: 50 Resp: 236  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.2#

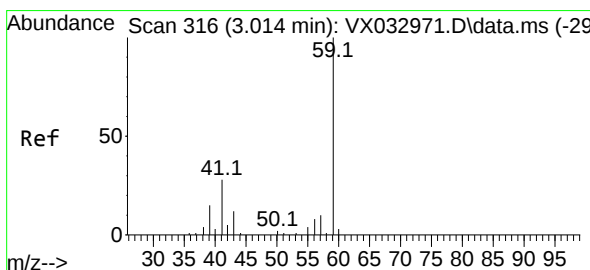
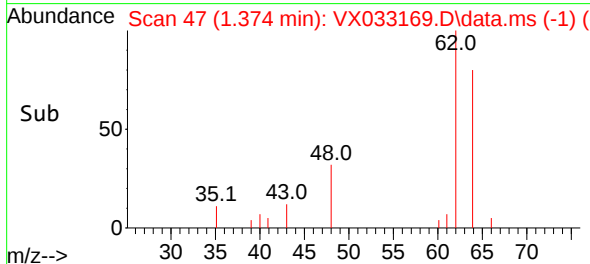
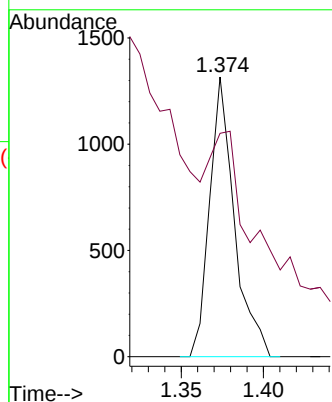
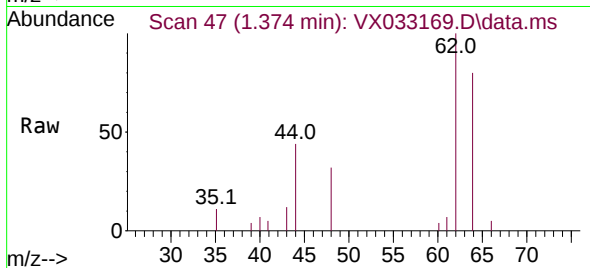




#4  
 Vinyl Chloride  
 Concen: 1.184 ug/l  
 RT: 1.374 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX033169.D  
 Acq: 01 Dec 2022 17:27

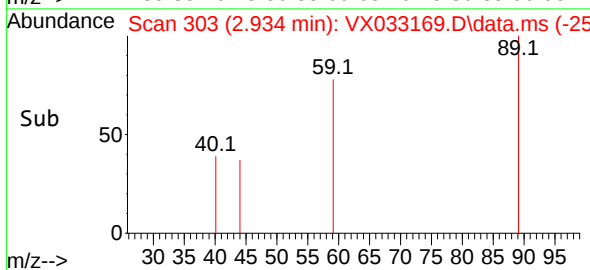
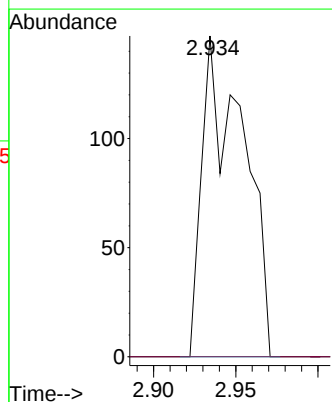
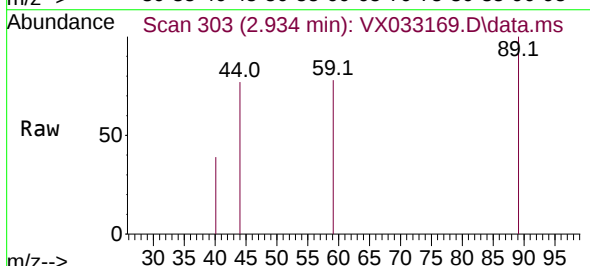
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LEA-8I

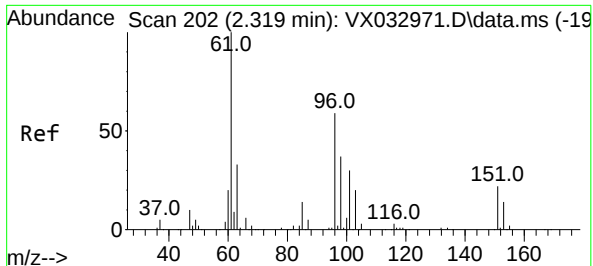
Tgt Ion: 62 Resp: 1377  
 Ion Ratio Lower Upper  
 62 100  
 64 48.9 25.8 38.6#



#11  
 Tert butyl alcohol  
 Concen: 1.309 ug/l  
 RT: 2.934 min Scan# 303  
 Delta R.T. -0.031 min  
 Lab File: VX033169.D  
 Acq: 01 Dec 2022 17:27

Tgt Ion: 59 Resp: 256  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.762 ug/l

RT: 2.319 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

Instrument :

MSVOA\_X

ClientSampleId :

LEA-8I

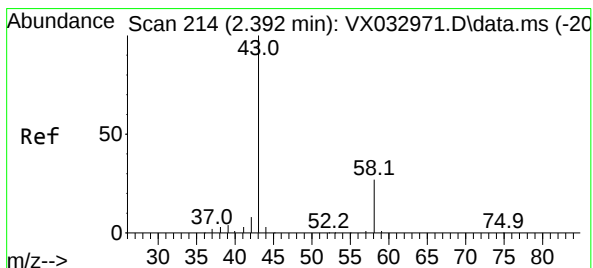
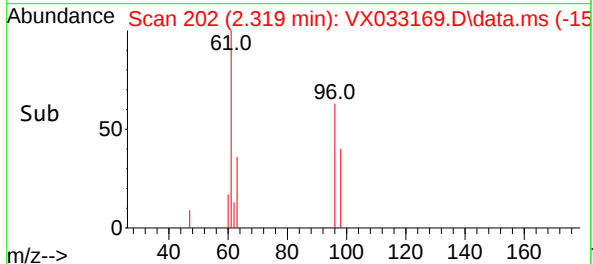
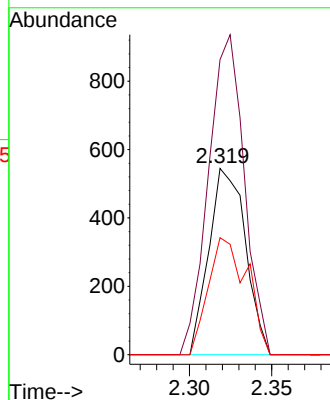
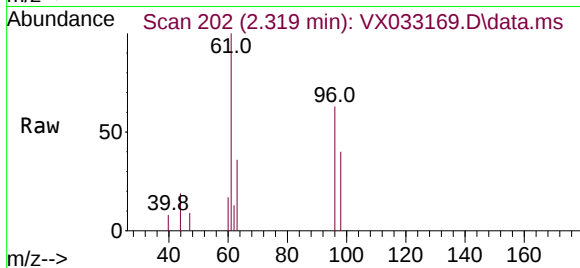
Tgt Ion: 96 Resp: 843

Ion Ratio Lower Upper

96 100

61 158.3 125.1 187.7

98 62.8 50.6 76.0



#16

Acetone

Concen: 0.920 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.012 min

Lab File: VX033169.D

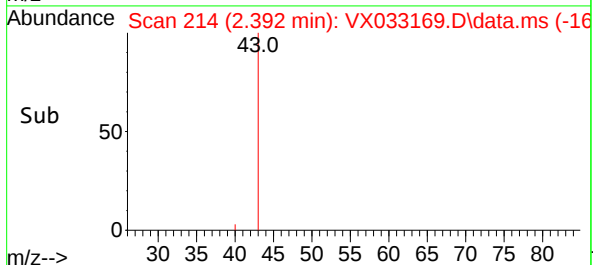
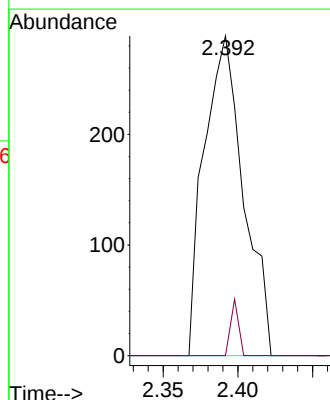
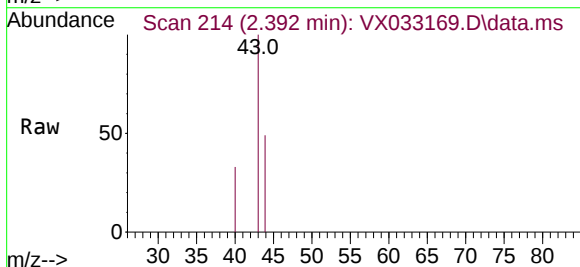
Acq: 01 Dec 2022 17:27

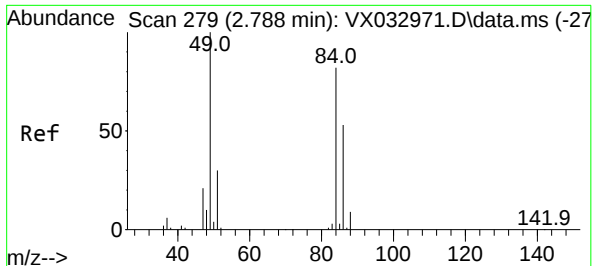
Tgt Ion: 43 Resp: 530

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

Instrument :

MSVOA\_X

ClientSampleId :

LEA-8I

Tgt Ion: 84 Resp: 146

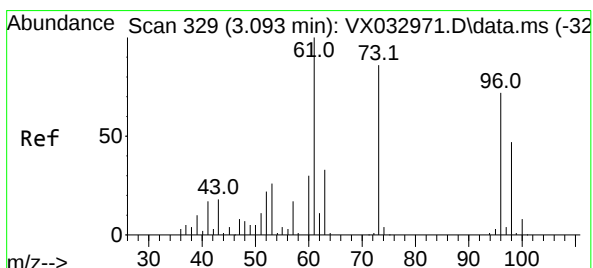
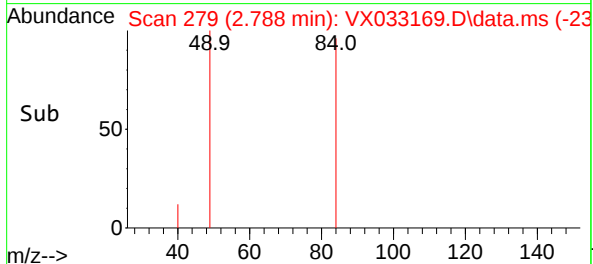
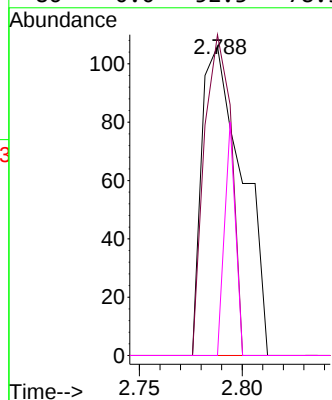
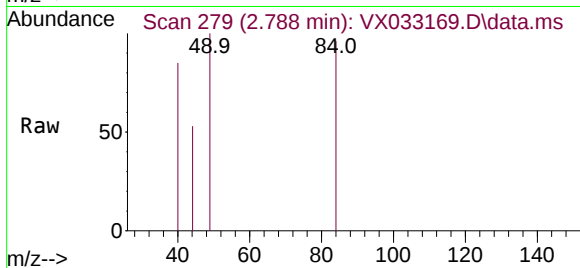
Ion Ratio Lower Upper

84 100

49 103.8 101.0 151.6

51 0.0 31.1 46.7#

86 0.0 52.3 78.5#



#21

trans-1,2-Dichloroethene

Concen: 1.173 ug/l

RT: 3.099 min Scan# 330

Delta R.T. 0.006 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

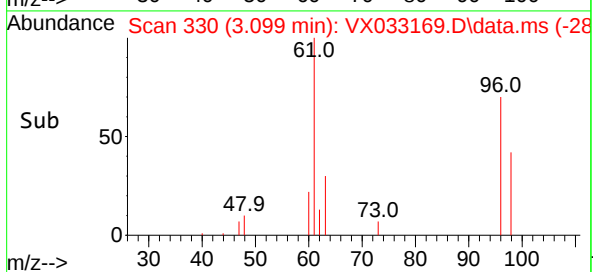
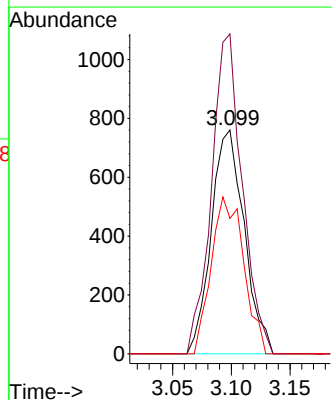
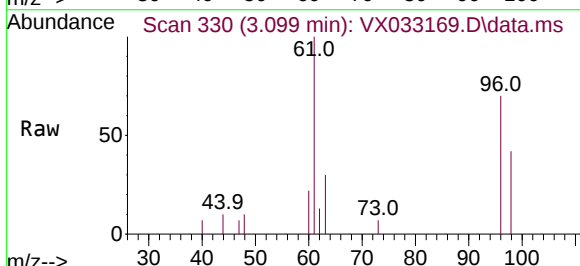
Tgt Ion: 96 Resp: 1483

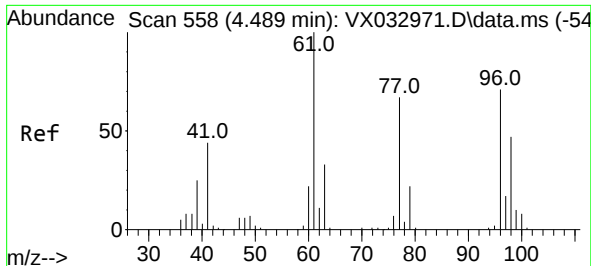
Ion Ratio Lower Upper

96 100

61 142.8 106.6 160.0

98 60.4 51.0 76.6





#27

cis-1,2-Dichloroethene

Concen: 156.763 ug/l

RT: 4.489 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

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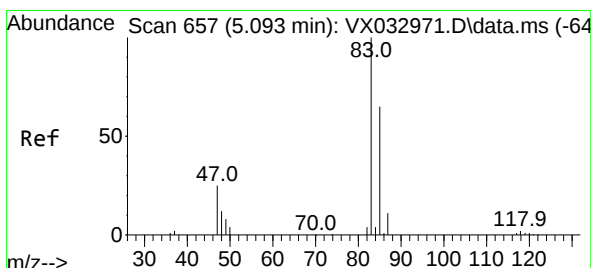
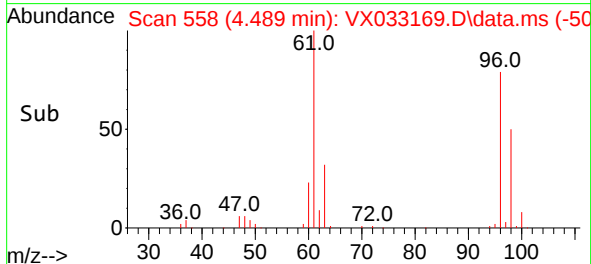
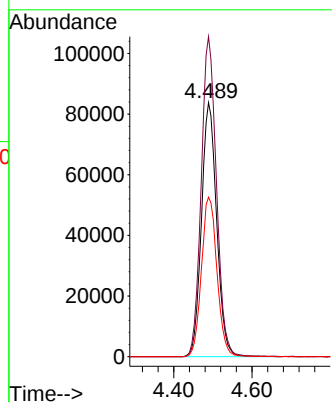
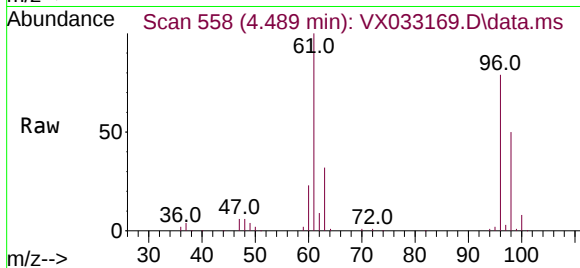
Tgt Ion: 96 Resp: 225261

Ion Ratio Lower Upper

96 100

61 126.4 0.0 286.0

98 64.3 0.0 129.6



#30

Chloroform

Concen: 0.642 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.000 min

Lab File: VX033169.D

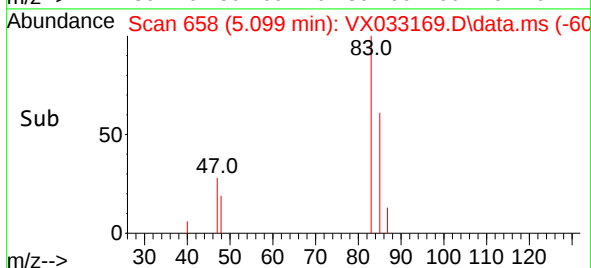
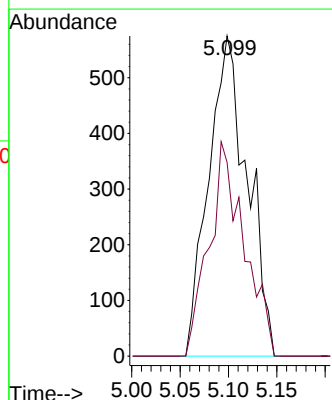
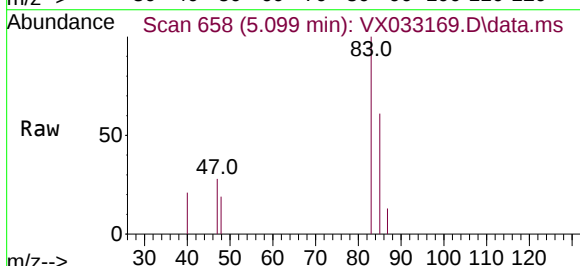
Acq: 01 Dec 2022 17:27

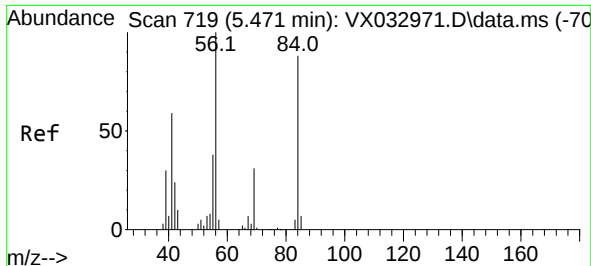
Tgt Ion: 83 Resp: 1600

Ion Ratio Lower Upper

83 100

85 60.5 51.1 76.7

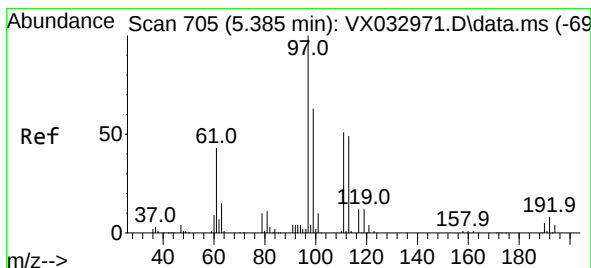
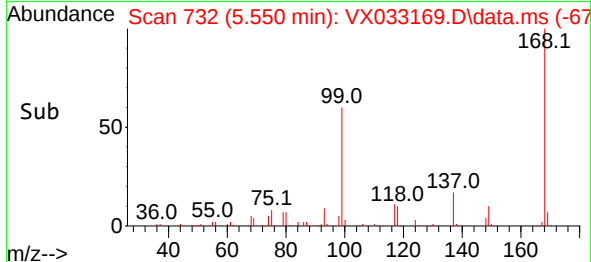
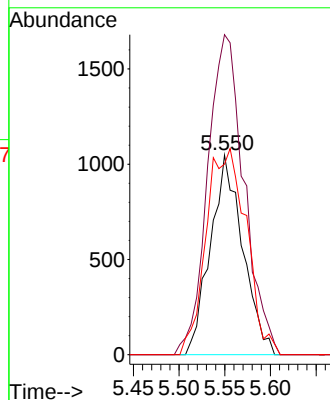
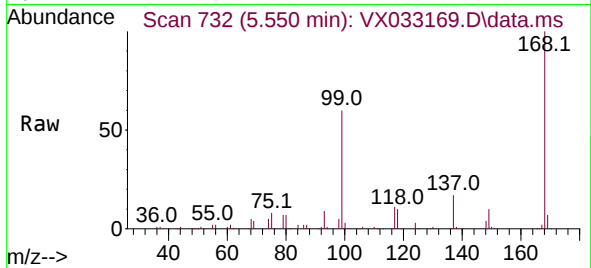




#31  
Cyclohexane  
Concen: 1.293 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.080 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

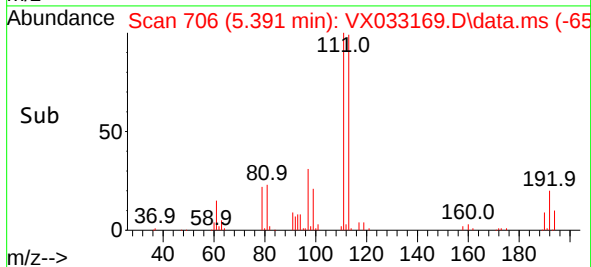
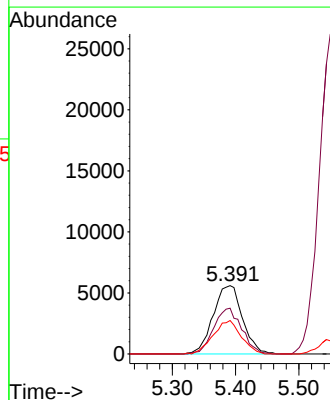
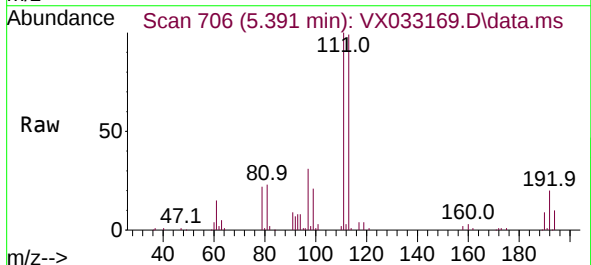
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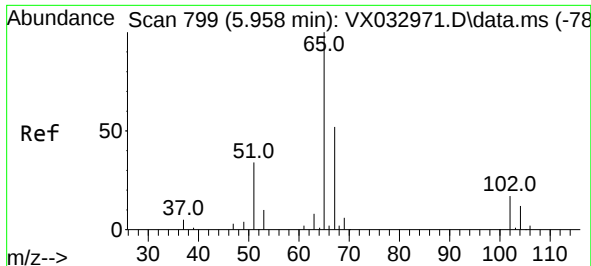
Tgt Ion: 56 Resp: 2584  
Ion Ratio Lower Upper  
56 100  
69 160.3 24.1 36.1#  
84 95.5 66.9 100.3



#32  
1,1,1-Trichloroethane  
Concen: 8.069 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

Tgt Ion: 97 Resp: 18000  
Ion Ratio Lower Upper  
97 100  
99 63.6 51.4 77.0  
61 46.6 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 55.309 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

Instrument :

MSVOA\_X

ClientSampleId :

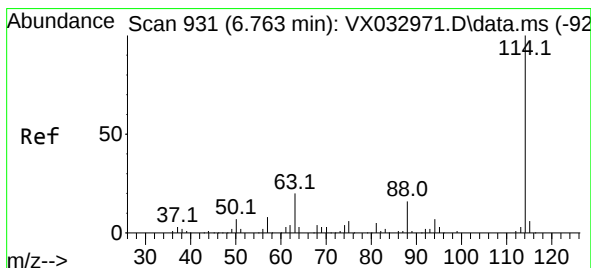
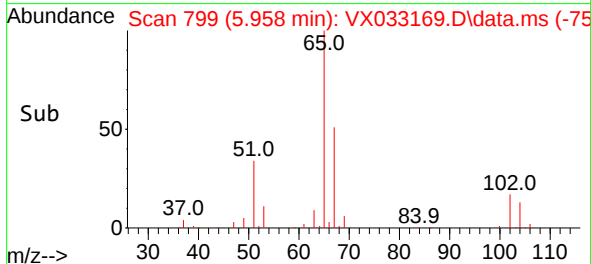
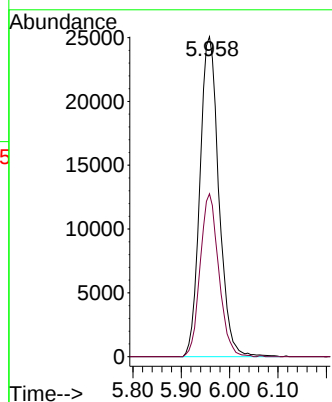
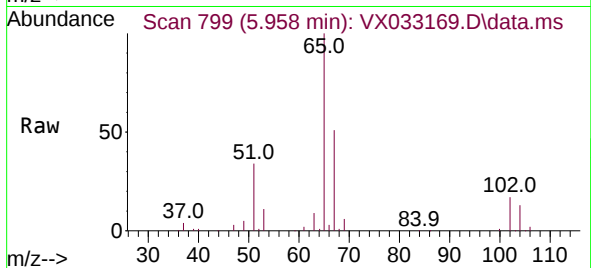
LEA-8I

Tgt Ion: 65 Resp: 68061

Ion Ratio Lower Upper

65 100

67 50.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

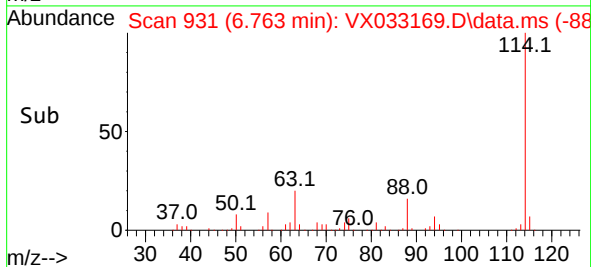
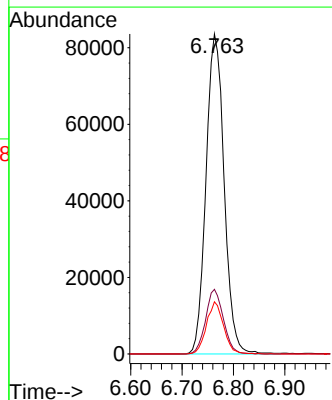
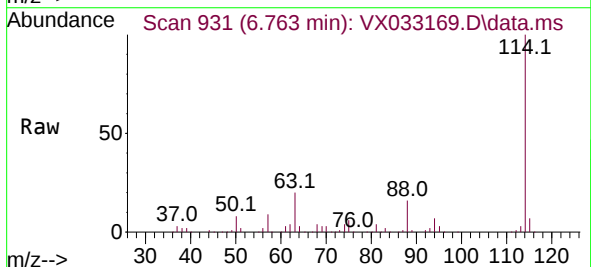
Tgt Ion: 114 Resp: 204609

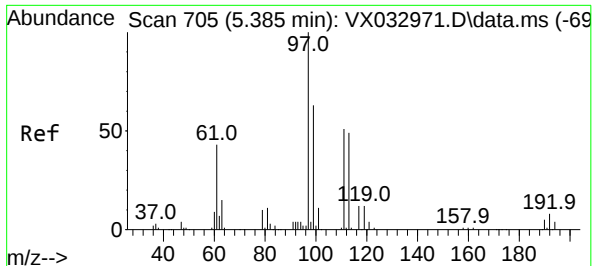
Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.6

88 16.3 0.0 33.4

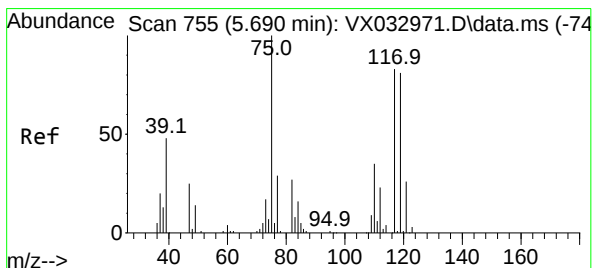
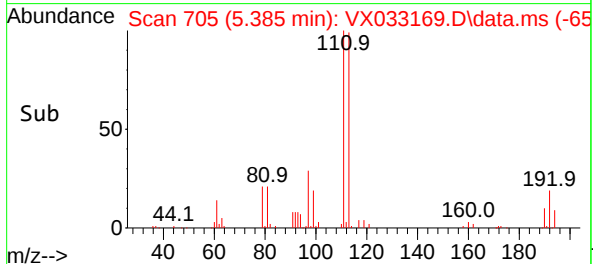
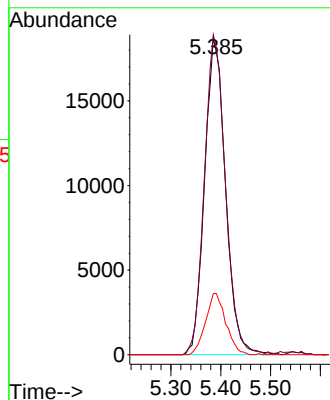
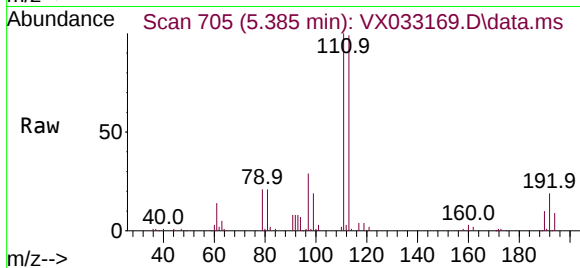




#35  
Dibromofluoromethane  
Concen: 47.378 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

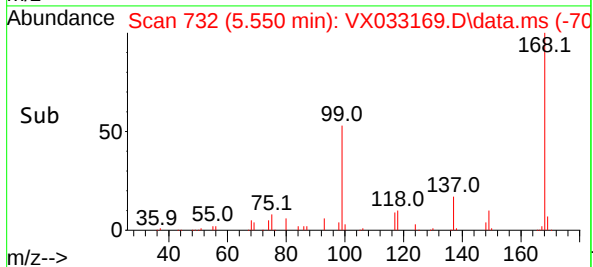
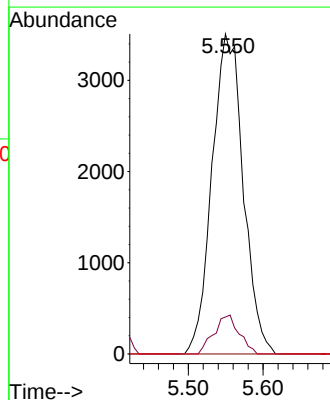
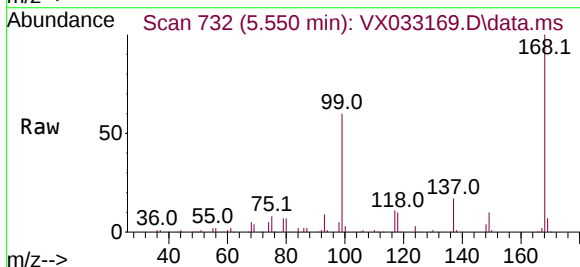
Instrument :  
MSVOA\_X  
ClientSampleId :  
LEA-8I

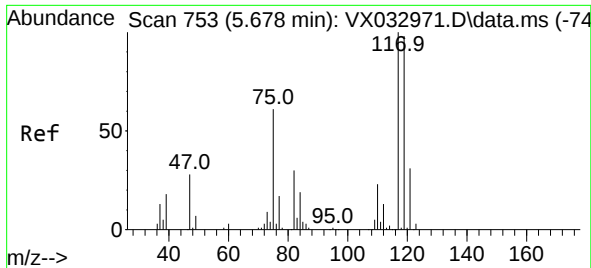
Tgt Ion:113 Resp: 54651  
Ion Ratio Lower Upper  
113 100  
111 101.1 82.4 123.6  
192 18.7 15.4 23.2



#36  
1,1-Dichloropropene  
Concen: 5.511 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

Tgt Ion: 75 Resp: 10164  
Ion Ratio Lower Upper  
75 100  
110 9.8 18.4 55.2#  
77 0.0 24.5 36.7#

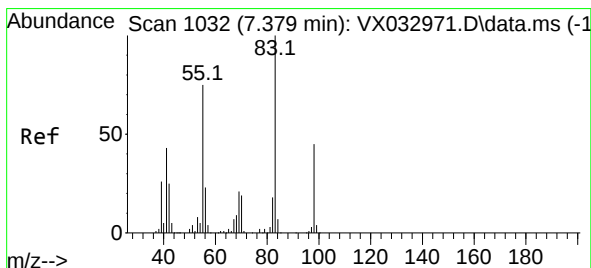
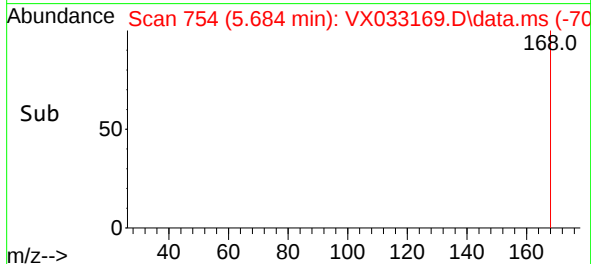
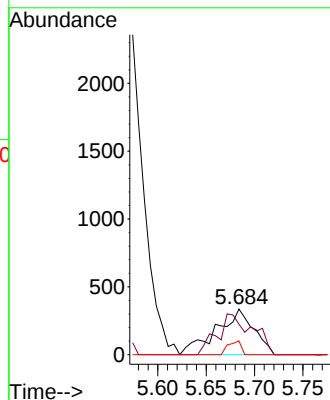
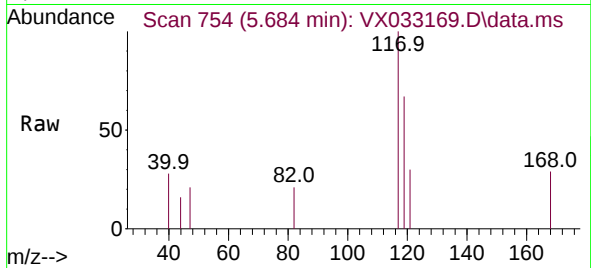




#38  
Carbon Tetrachloride  
Concen: 0.444 ug/l  
RT: 5.684 min Scan# 711  
Delta R.T. -0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

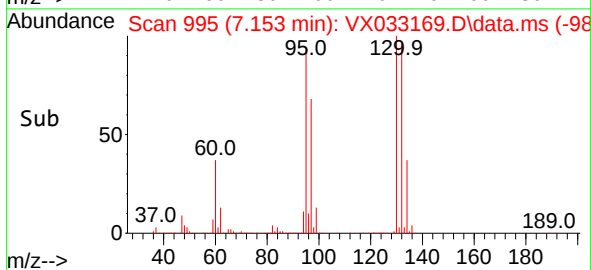
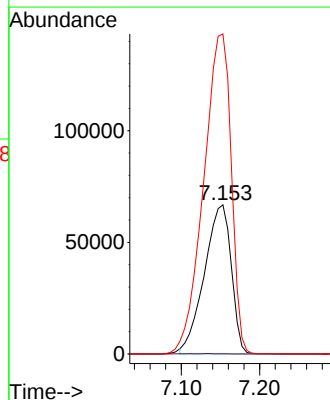
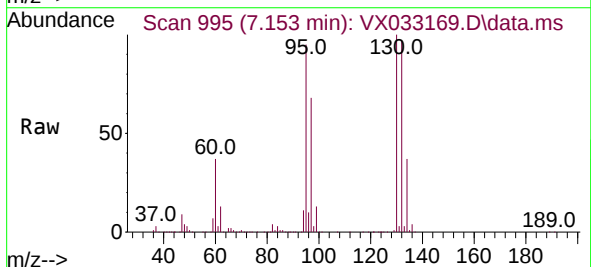
Instrument :  
MSVOA\_X  
ClientSampleId :  
LEA-8I

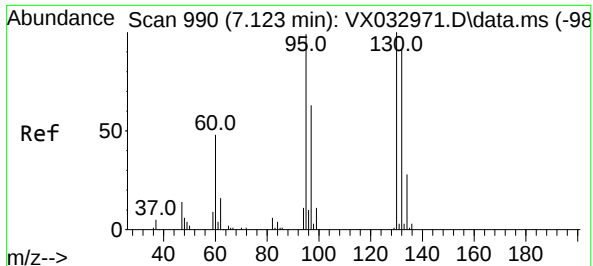
Tgt Ion:117 Resp: 909  
Ion Ratio Lower Upper  
117 100  
119 67.0 77.2 115.8#  
121 30.1 25.8 38.6



#39  
Methylcyclohexane  
Concen: 75.640 ug/l  
RT: 7.153 min Scan# 995  
Delta R.T. -0.232 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

Tgt Ion: 83 Resp: 159180  
Ion Ratio Lower Upper  
83 100  
55 0.1 58.4 87.6#  
98 214.6 37.2 55.8#

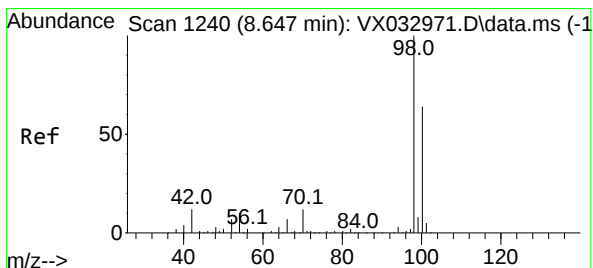
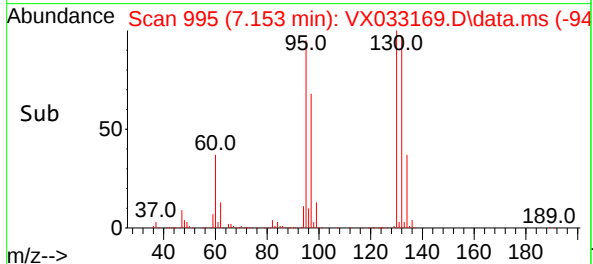
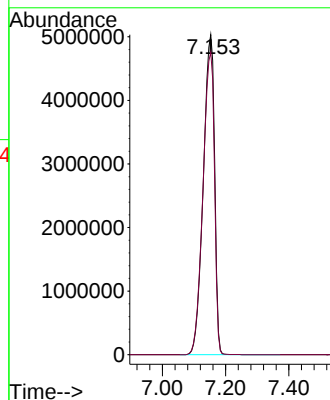
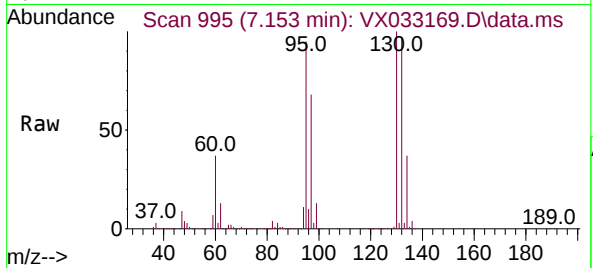




#44  
 Trichloroethene  
 Concen: 8612.220 ug/l  
 RT: 7.153 min Scan# 990  
 Delta R.T. 0.024 min  
 Lab File: VX033169.D  
 Acq: 01 Dec 2022 17:27

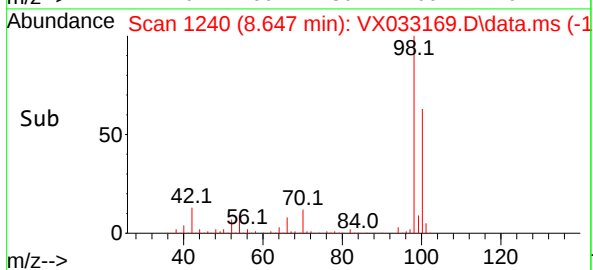
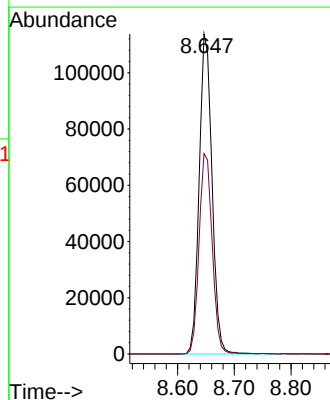
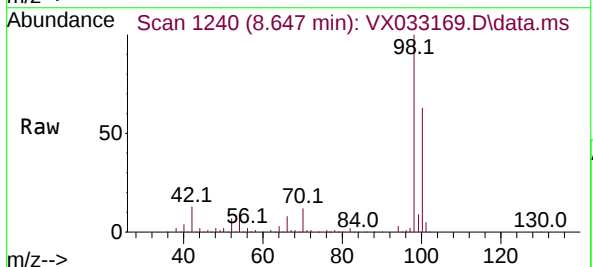
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LEA-8I

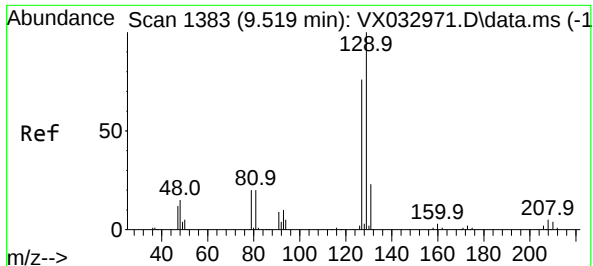
Tgt Ion:130 Resp:12497301  
 Ion Ratio Lower Upper  
 130 100  
 95 94.6 0.0 195.2



#50  
 Toluene-d8  
 Concen: 51.495 ug/l  
 RT: 8.647 min Scan# 1240  
 Delta R.T. -0.006 min  
 Lab File: VX033169.D  
 Acq: 01 Dec 2022 17:27

Tgt Ion: 98 Resp: 178501  
 Ion Ratio Lower Upper  
 98 100  
 100 64.1 50.9 76.3

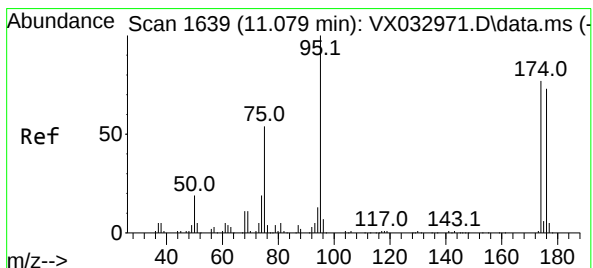
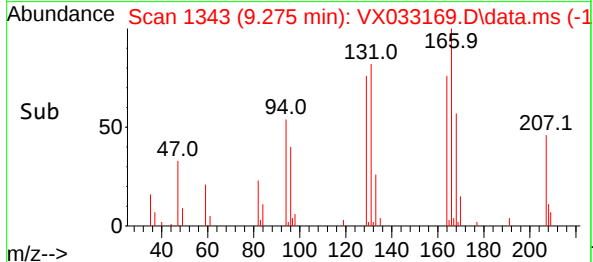
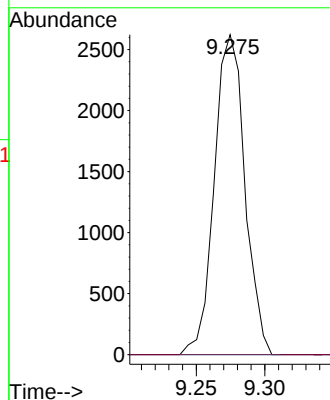
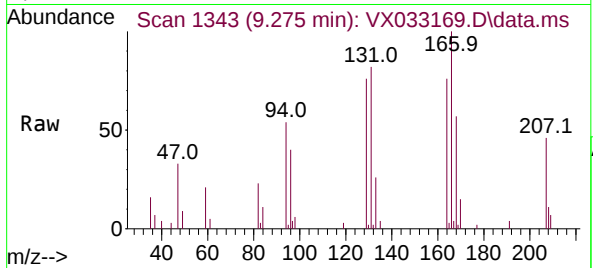




#60  
Dibromochloromethane  
Concen: 2.726 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

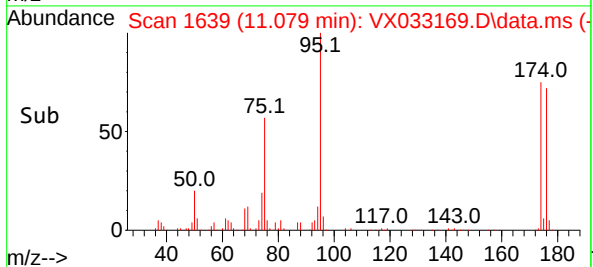
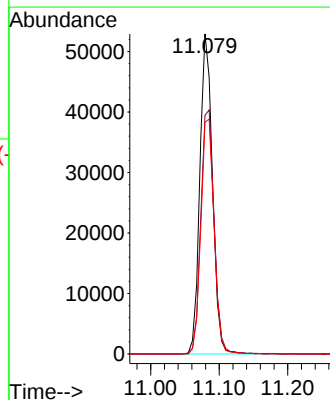
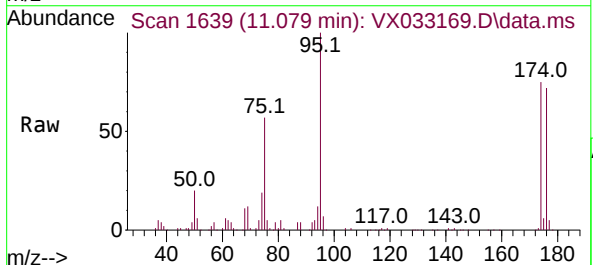
Instrument :  
MSVOA\_X  
ClientSampleId :  
LEA-8I

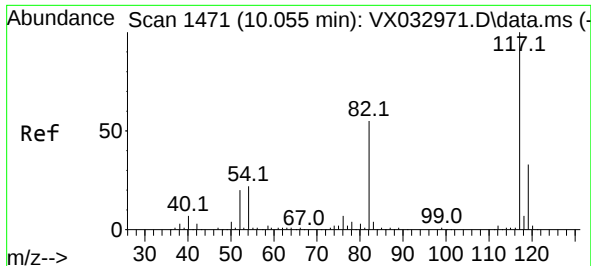
Tgt Ion:129 Resp: 4065  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.8#



#62  
4-Bromofluorobenzene  
Concen: 44.779 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

Tgt Ion: 95 Resp: 67851  
Ion Ratio Lower Upper  
95 100  
174 80.9 0.0 164.0  
176 77.0 0.0 154.4

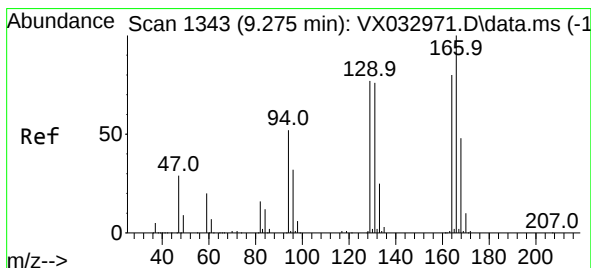
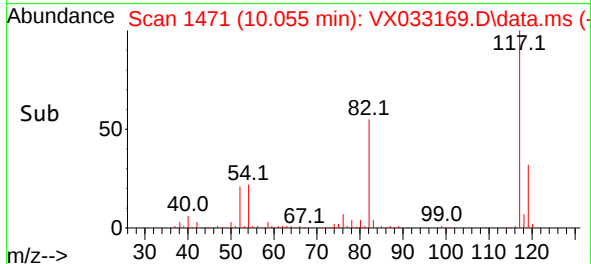
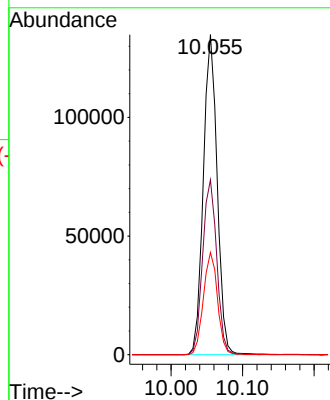
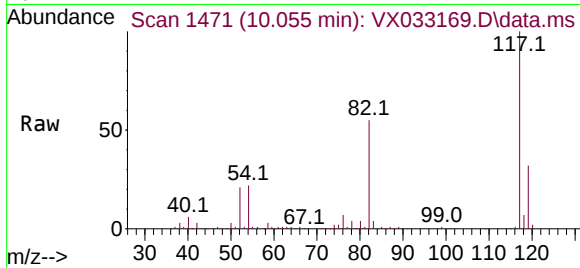




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

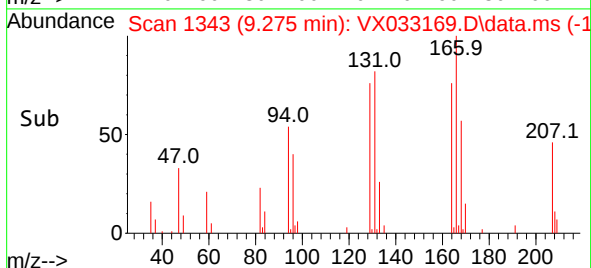
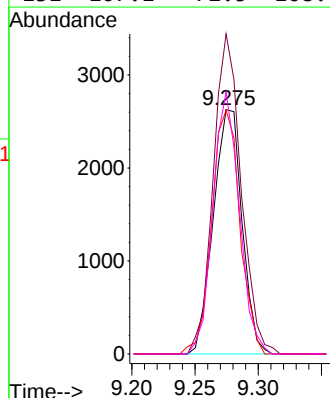
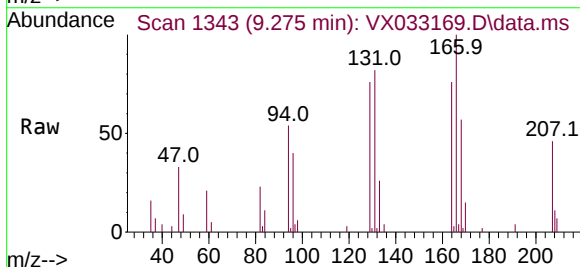
Instrument :  
MSVOA\_X  
ClientSampleId :  
LEA-8I

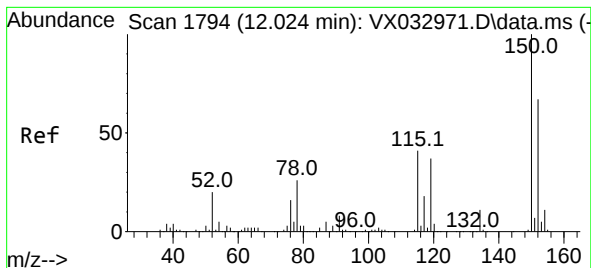
Tgt Ion:117 Resp: 181610  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.3 66.5  
119 31.9 25.7 38.5



#64  
Tetrachloroethene  
Concen: 3.220 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX033169.D  
Acq: 01 Dec 2022 17:27

Tgt Ion:164 Resp: 4139  
Ion Ratio Lower Upper  
164 100  
166 130.9 105.4 158.2  
129 99.8 78.2 117.2  
131 107.1 72.5 108.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX033169.D

Acq: 01 Dec 2022 17:27

Instrument :

MSVOA\_X

ClientSampleId :

LEA-8I

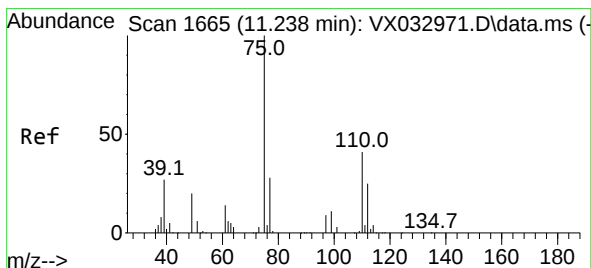
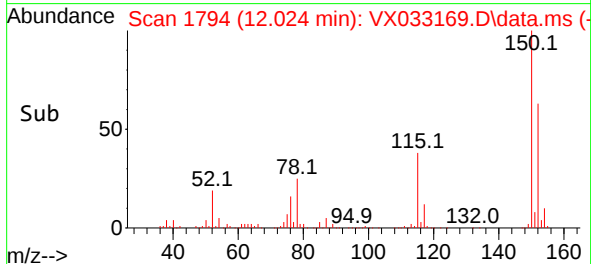
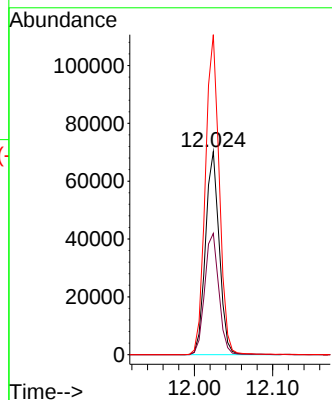
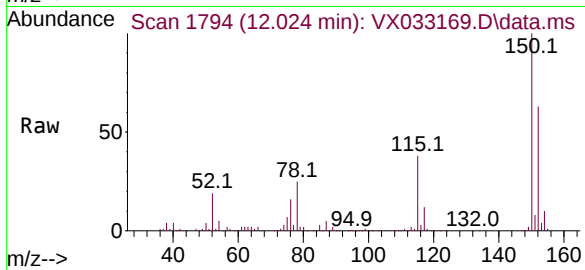
Tgt Ion:152 Resp: 85389

Ion Ratio Lower Upper

152 100

115 61.2 44.0 132.0

150 159.7 0.0 351.8



#76

1,2,3-Trichloropropane

Concen: 23.096 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX033169.D

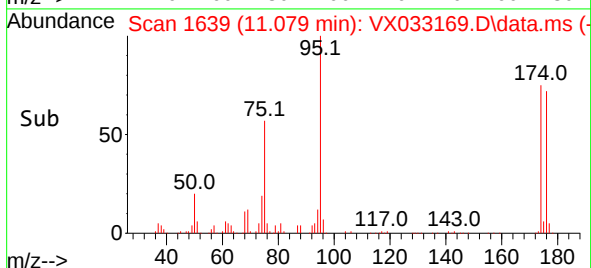
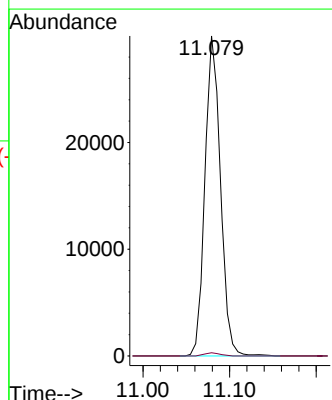
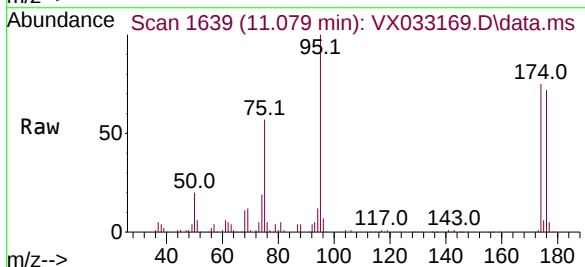
Acq: 01 Dec 2022 17:27

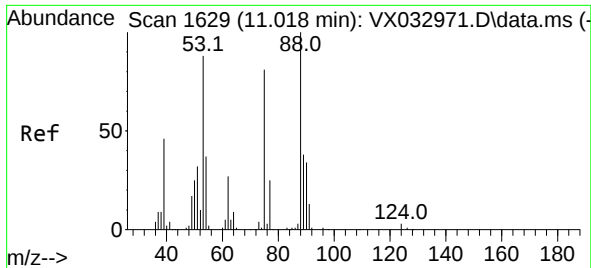
Tgt Ion: 75 Resp: 37349

Ion Ratio Lower Upper

75 100

77 1.0 20.0 60.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 75.072 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX033169.D  
 Acq: 01 Dec 2022 17:27

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LEA-8I

Tgt Ion: 75 Resp: 37349  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 86.9 130.3#  
 89 0.0 38.3 57.5#

