

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101322\  
 Data File : VX032115.D  
 Acq On : 13 Oct 2022 17:00  
 Operator : JC/MD  
 Sample : N5046-23  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 R-4

Quant Time: Oct 14 07:52:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 06 14:28:46 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 82604    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 123028   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 127123   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 62969    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.958  | 65    | 91094    | 53.398   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 106.800% |
| 35) Dibromofluoromethane    | 5.385  | 113   | 66309    | 47.615   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 95.240%  |
| 50) Toluene-d8              | 8.647  | 98    | 249662   | 49.822   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 99.640%  |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 65938    | 37.220   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 74.440%# |

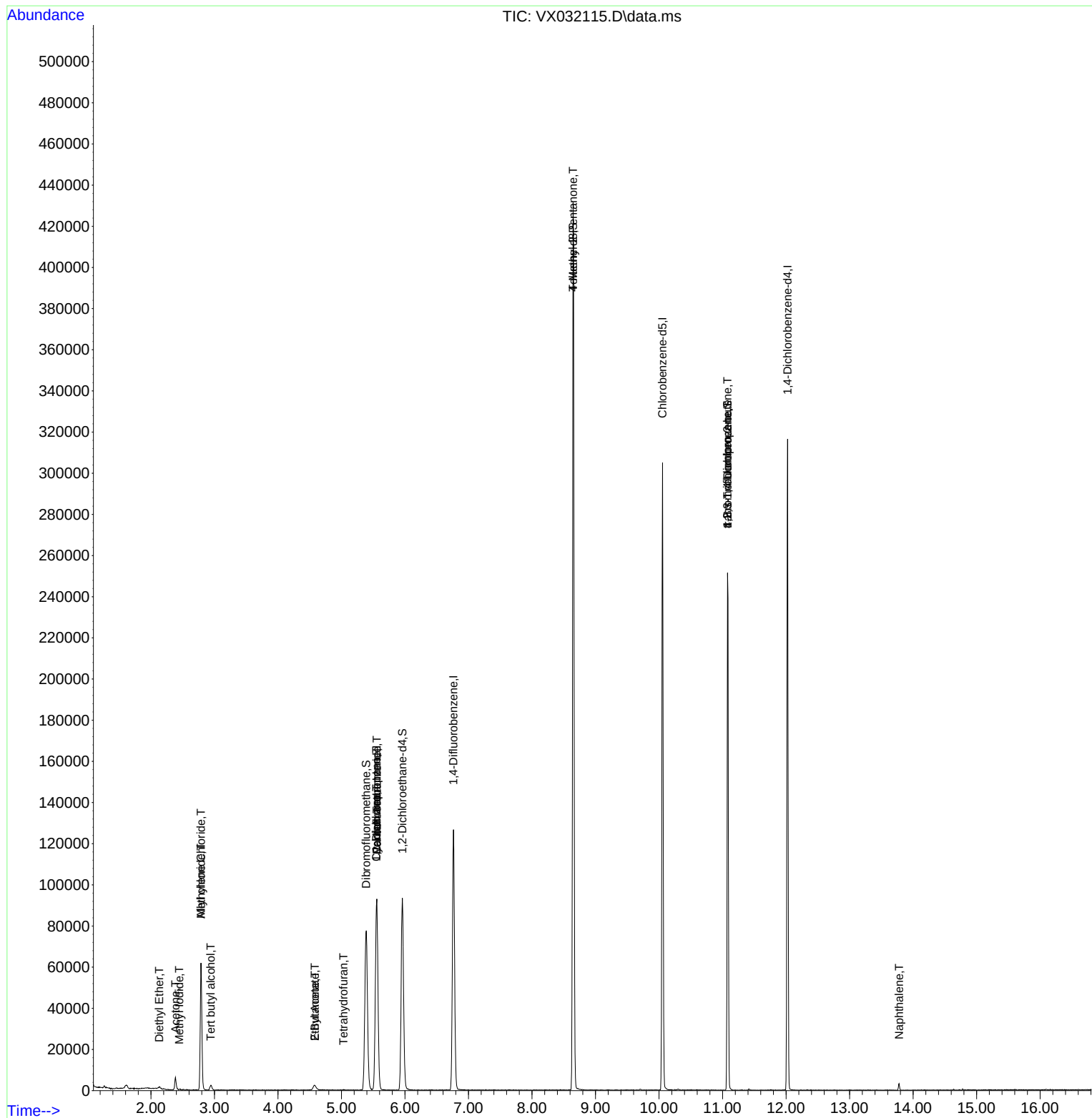
| Target Compounds              |        |     |       |           | Qvalue |    |
|-------------------------------|--------|-----|-------|-----------|--------|----|
| 5) Bromomethane               | 1.611  | 94  | 253   | Below Cal |        | 95 |
| 8) Diethyl Ether              | 2.130  | 74  | 276   | 0.299     | ug/l   | 89 |
| 10) Methyl Iodide             | 2.447  | 142 | 324   | 2.975     | ug/l # | 78 |
| 11) Tert butyl alcohol        | 2.940  | 59  | 1570  | 7.397     | ug/l # | 73 |
| 14) Allyl chloride            | 2.788  | 41  | 905   | 0.505     | ug/l # | 22 |
| 16) Acetone                   | 2.386  | 43  | 6340  | 10.935    | ug/l   | 94 |
| 20) Methylene Chloride        | 2.788  | 84  | 26365 | 17.305    | ug/l   | 98 |
| 25) 2-Butanone                | 4.580  | 43  | 773   | 0.853     | ug/l # | 49 |
| 29) Tetrahydrofuran           | 5.032  | 42  | 208   | 0.356     | ug/l # | 32 |
| 31) Cyclohexane               | 5.550  | 56  | 2147  | 1.053     | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 5.550  | 75  | 7106  | 3.848     | ug/l # | 50 |
| 37) Ethyl Acetate             | 4.580  | 43  | 773   | 0.445     | ug/l # | 68 |
| 38) Carbon Tetrachloride      | 5.556  | 117 | 9160  | 4.851     | ug/l # | 17 |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43  | 1299  | 0.743     | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 34428 | 26.677    | ug/l # | 36 |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 34428 | 91.453    | ug/l # | 11 |
| 95) Naphthalene               | 13.780 | 128 | 2565  | 0.557     | ug/l # | 91 |

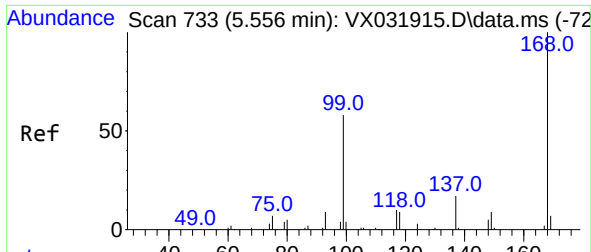
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101322\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
R-4

Quant Time: Oct 14 07:52:58 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100622W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 06 14:28:46 2022  
Response via : Initial Calibration

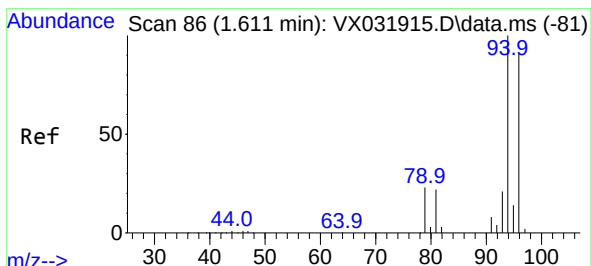
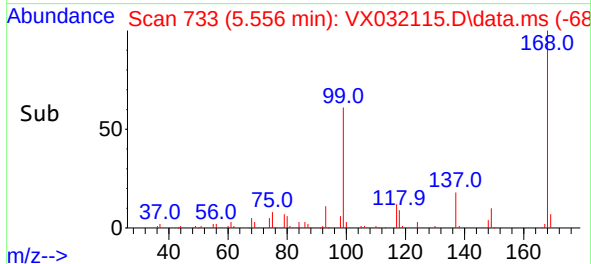
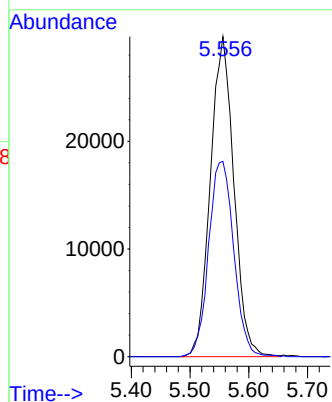
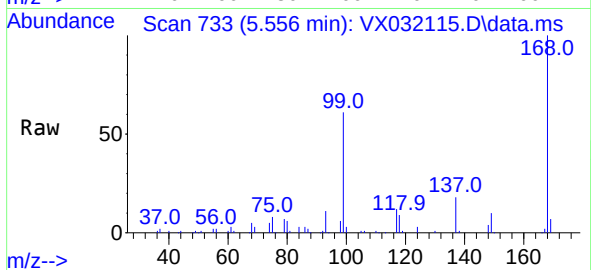




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

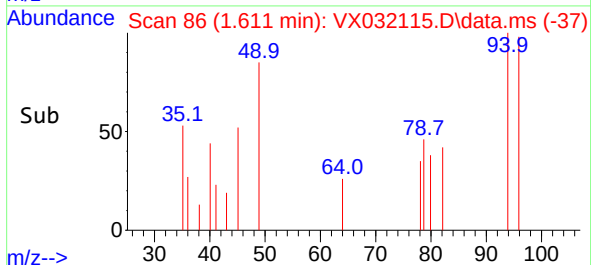
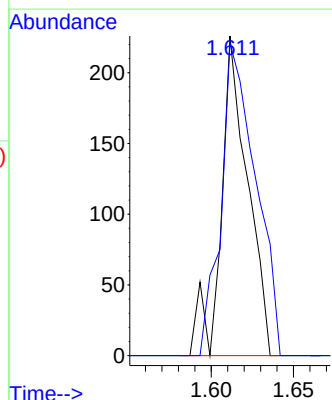
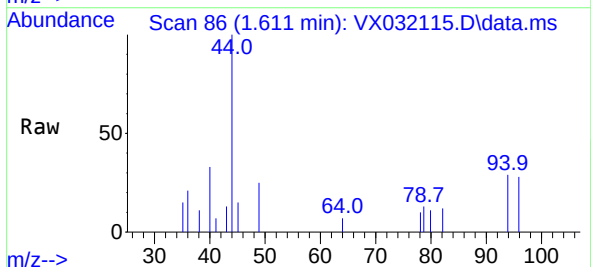
Instrument :  
MSVOA\_X  
ClientSampleId :  
R-4

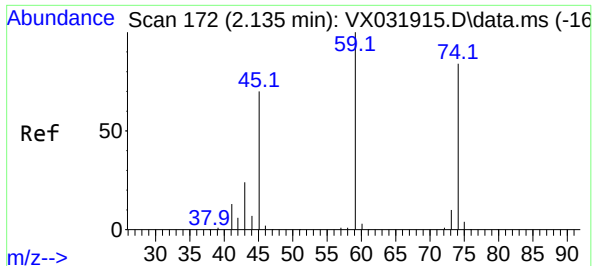
Tgt Ion:168 Resp: 82604  
Ion Ratio Lower Upper  
168 100  
99 61.0 48.8 73.2



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 86  
Delta R.T. 0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion: 94 Resp: 253  
Ion Ratio Lower Upper  
94 100  
96 97.8 74.4 111.6

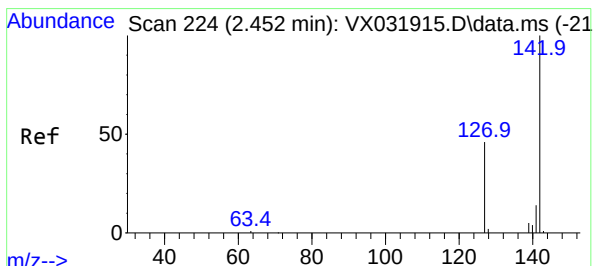
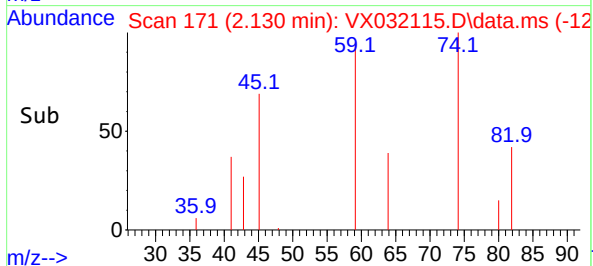
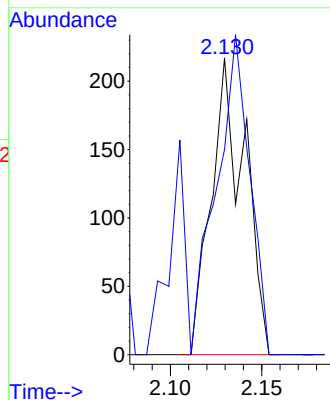
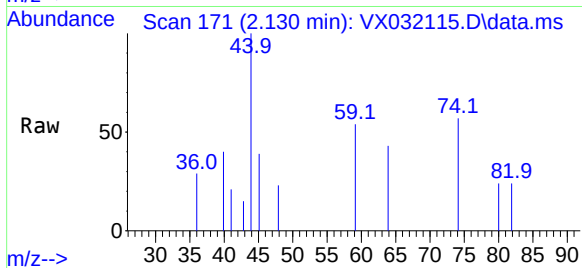




#8  
Diethyl Ether  
Concen: 0.299 ug/l  
RT: 2.130 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

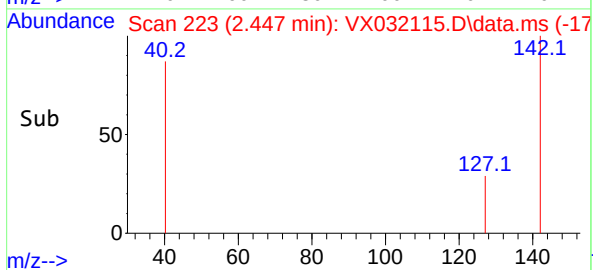
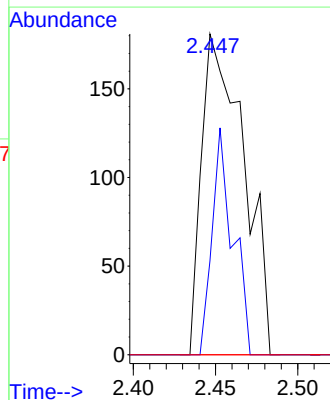
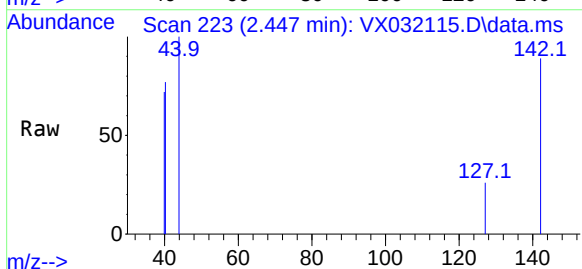
Instrument :  
MSVOA\_X  
ClientSampleId :  
R-4

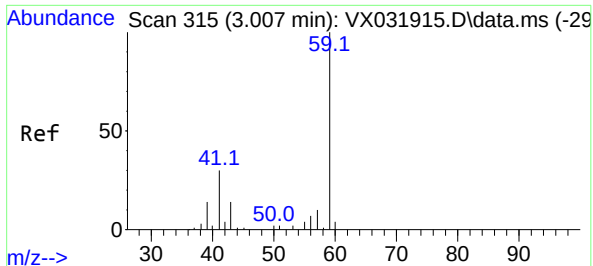
Tgt Ion: 74 Resp: 276  
Ion Ratio Lower Upper  
74 100  
45 108.0 48.5 145.6



#10  
Methyl Iodide  
Concen: 2.975 ug/l  
RT: 2.447 min Scan# 223  
Delta R.T. -0.005 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion: 142 Resp: 324  
Ion Ratio Lower Upper  
142 100  
127 34.6 37.4 56.0#  
141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 7.397 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.067 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

Instrument :

MSVOA\_X

ClientSampleId :

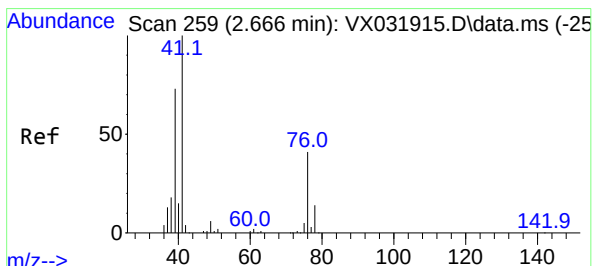
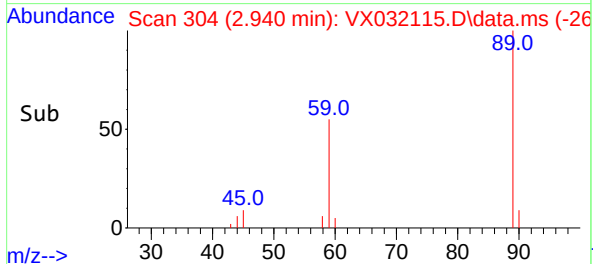
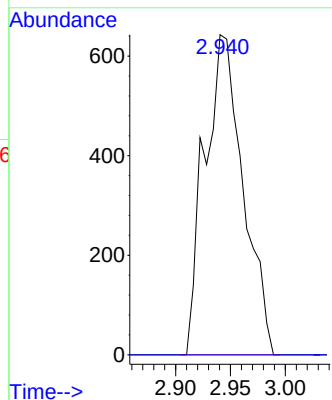
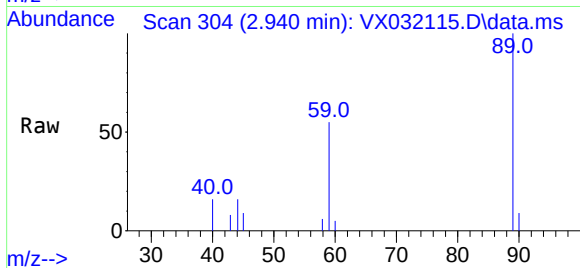
R-4

Tgt Ion: 59 Resp: 1570

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#14

Allyl chloride

Concen: 0.505 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.122 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

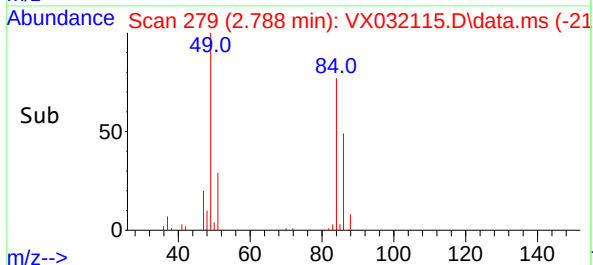
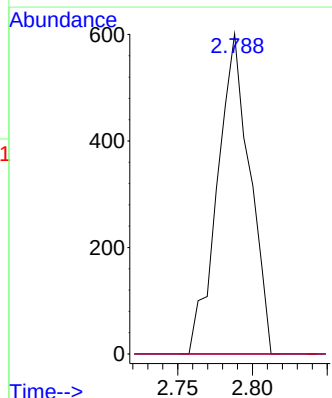
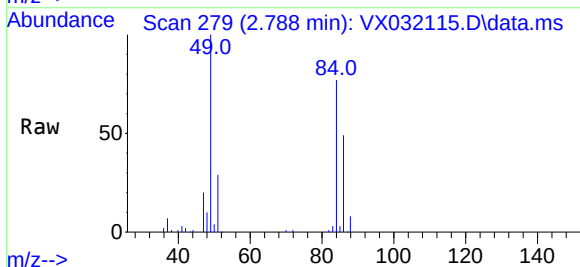
Tgt Ion: 41 Resp: 905

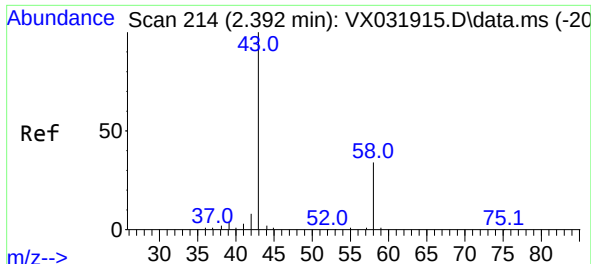
Ion Ratio Lower Upper

41 100

39 0.0 58.2 87.4#

76 0.0 26.9 40.3#

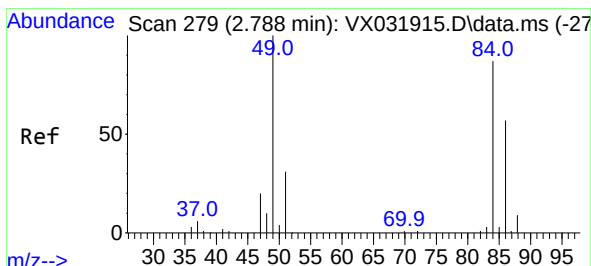
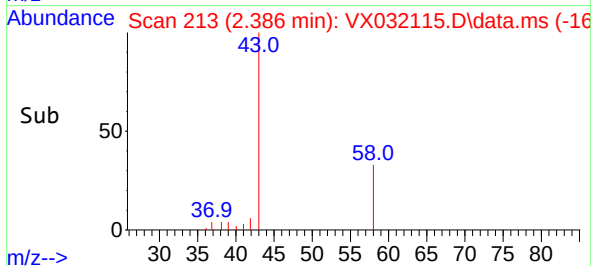
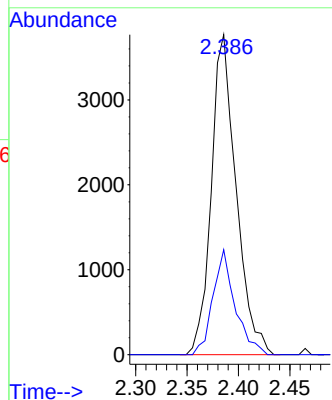
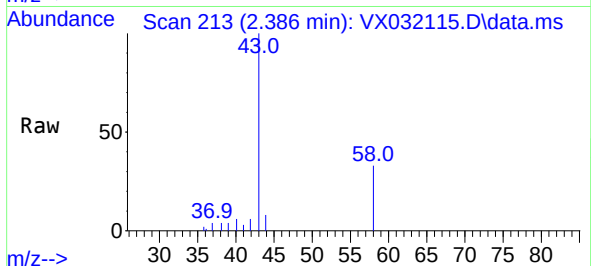




#16  
Acetone  
Concen: 10.935 ug/l  
RT: 2.386 min Scan# 214  
Delta R.T. -0.006 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

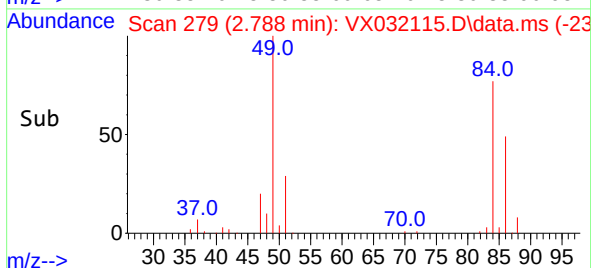
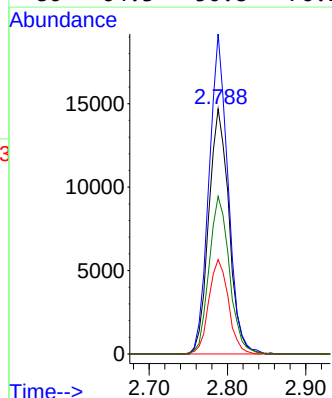
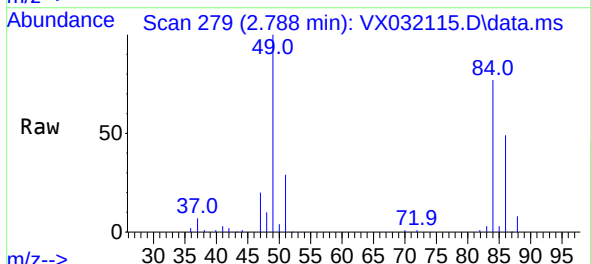
Instrument :  
MSVOA\_X  
ClientSampleId :  
R-4

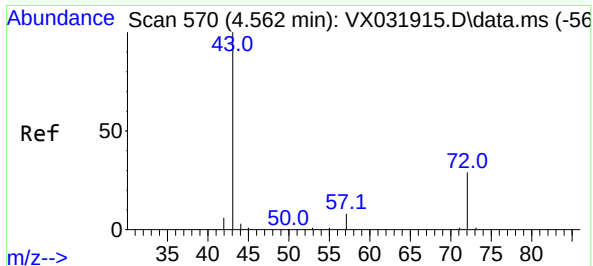
Tgt Ion: 43 Resp: 6340  
Ion Ratio Lower Upper  
43 100  
58 32.8 23.8 35.8



#20  
Methylene Chloride  
Concen: 17.305 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion: 84 Resp: 26365  
Ion Ratio Lower Upper  
84 100  
49 130.5 105.9 158.9  
51 38.5 32.2 48.2  
86 64.3 50.8 76.2





#25

2-Butanone

Concen: 0.853 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

Instrument :

MSVOA\_X

ClientSampleId :

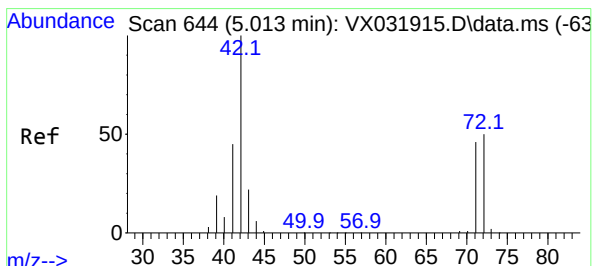
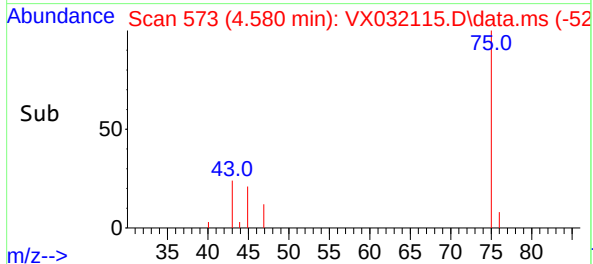
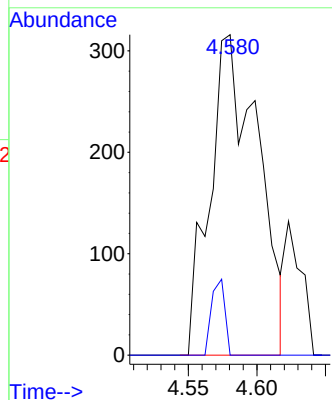
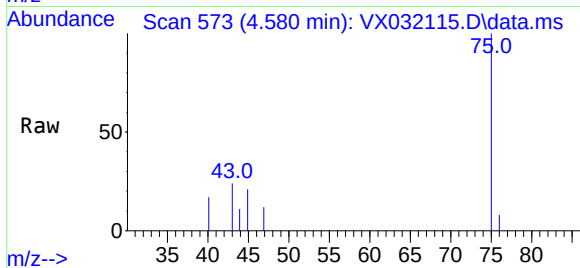
R-4

Tgt Ion: 43 Resp: 773

Ion Ratio Lower Upper

43 100

72 0.0 21.1 31.7#



#29

Tetrahydrofuran

Concen: 0.356 ug/l

RT: 5.032 min Scan# 647

Delta R.T. 0.019 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

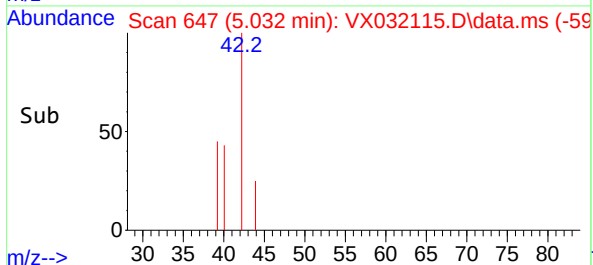
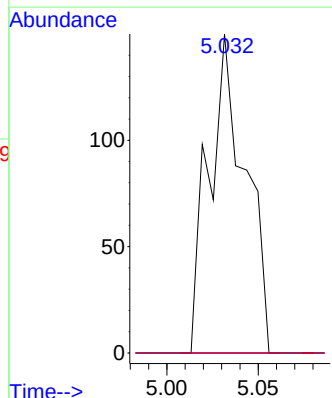
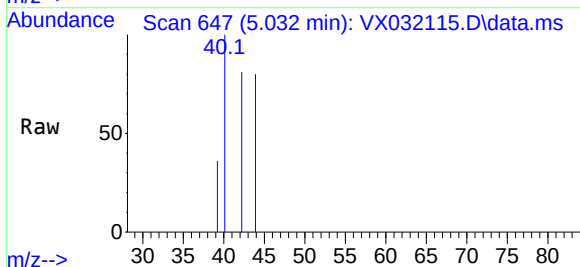
Tgt Ion: 42 Resp: 208

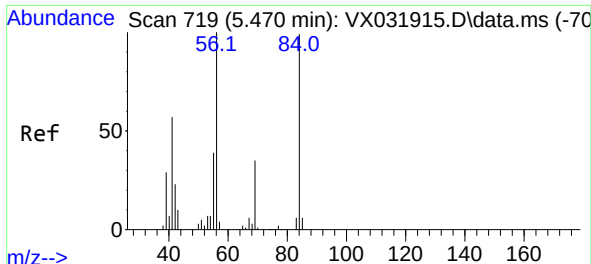
Ion Ratio Lower Upper

42 100

72 0.0 36.4 54.6#

71 0.0 33.5 50.3#

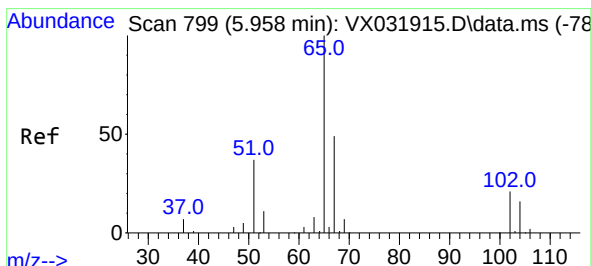
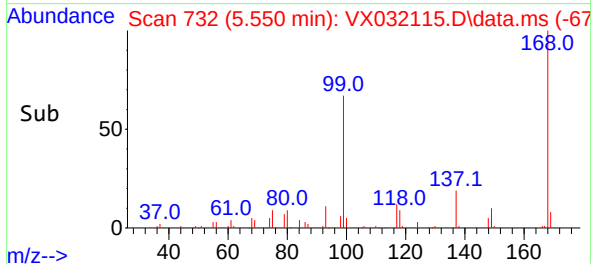
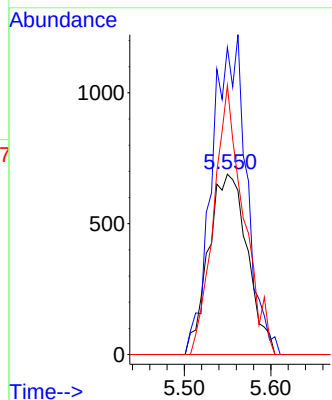
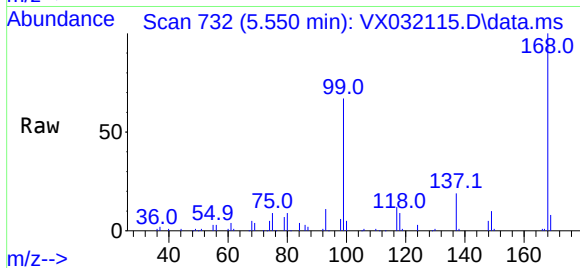




#31  
Cyclohexane  
Concen: 1.053 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.080 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

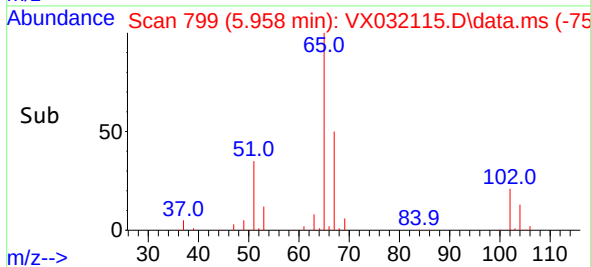
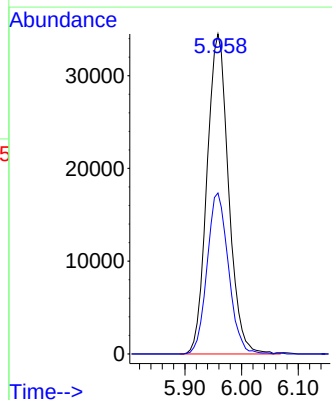
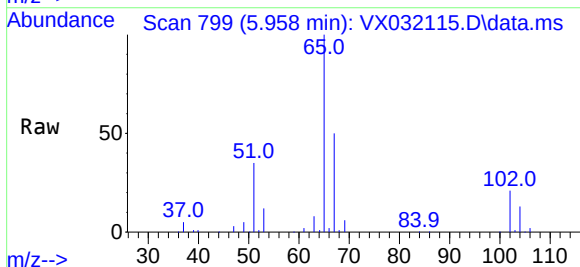
Instrument :  
MSVOA\_X  
ClientSampleId :  
R-4

Tgt Ion: 56 Resp: 2147  
Ion Ratio Lower Upper  
56 100  
69 170.2 25.1 37.7#  
84 149.2 70.2 105.4#

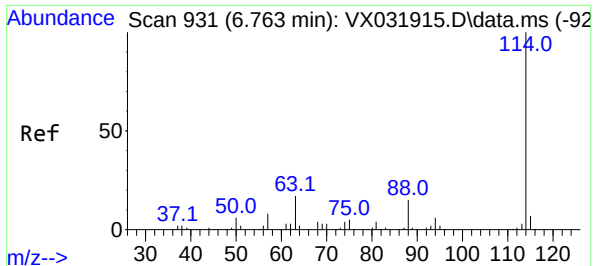


#33  
1,2-Dichloroethane-d4  
Concen: 53.398 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion: 65 Resp: 91094  
Ion Ratio Lower Upper  
65 100  
67 49.9 0.0 102.4







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

Instrument :

MSVOA\_X

ClientSampleId :

R-4

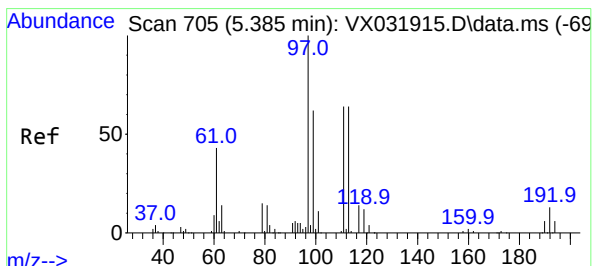
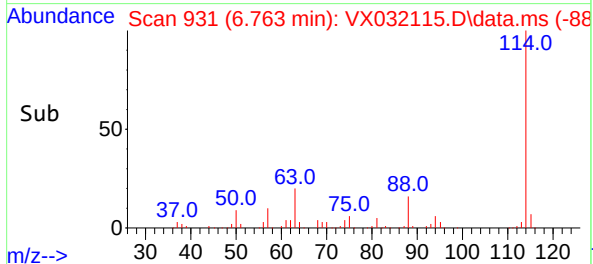
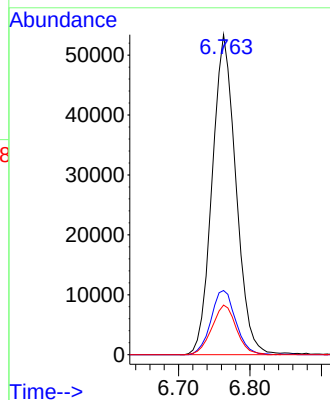
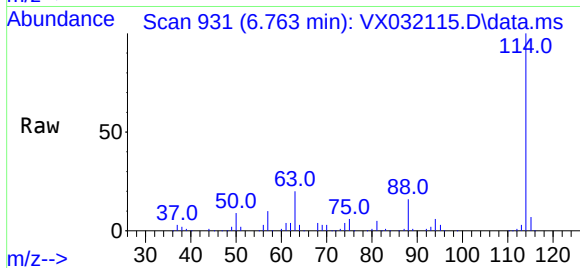
Tgt Ion:114 Resp: 123028

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 15.5 0.0 33.0



#35

Dibromofluoromethane

Concen: 47.615 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

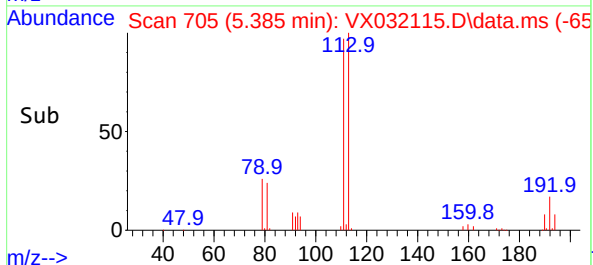
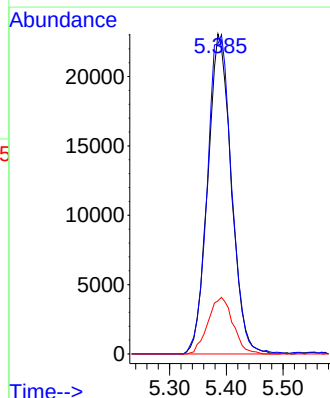
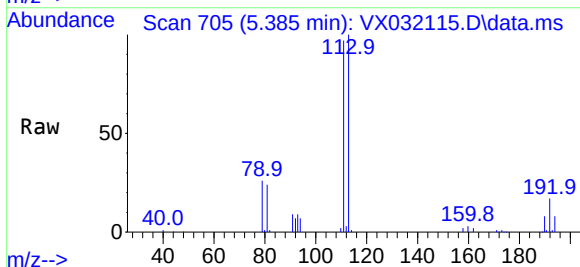
Tgt Ion:113 Resp: 66309

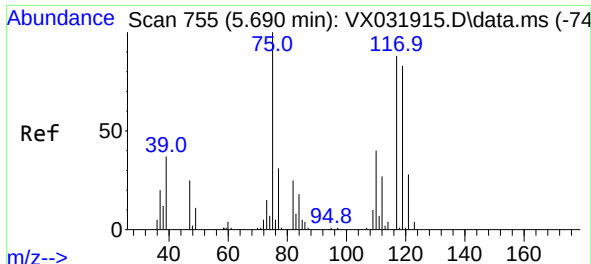
Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

192 18.8 14.1 21.1





#36

1,1-Dichloropropene

Concen: 3.848 ug/l

RT: 5.550 min Scan# 710

Delta R.T. -0.140 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

Instrument :

MSVOA\_X

ClientSampleId :

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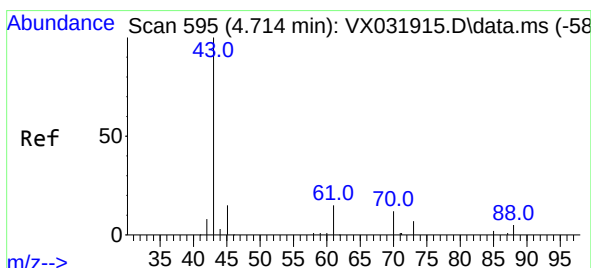
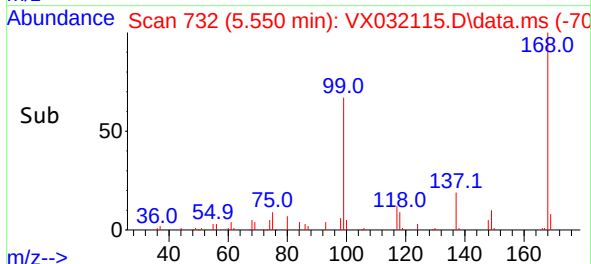
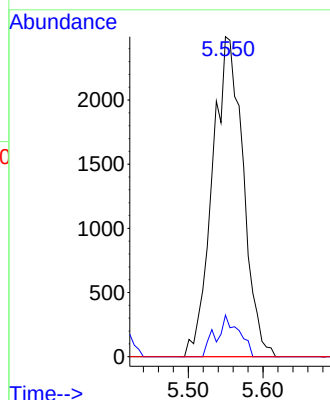
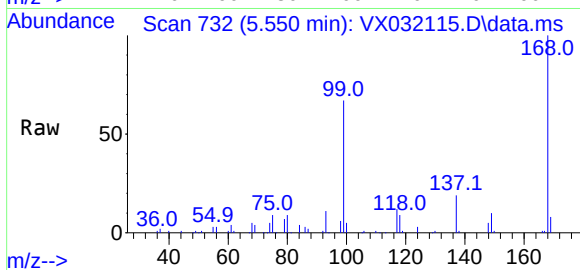
Tgt Ion: 75 Resp: 7106

Ion Ratio Lower Upper

75 100

110 9.6 17.5 52.5#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.445 ug/l

RT: 4.580 min Scan# 573

Delta R.T. -0.134 min

Lab File: VX032115.D

Acq: 13 Oct 2022 17:00

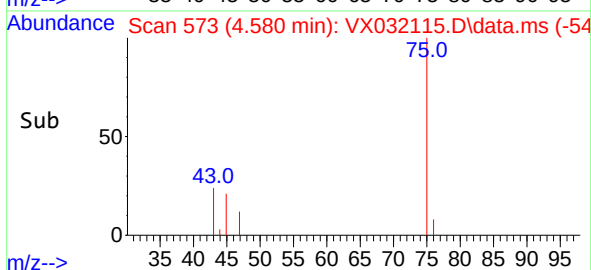
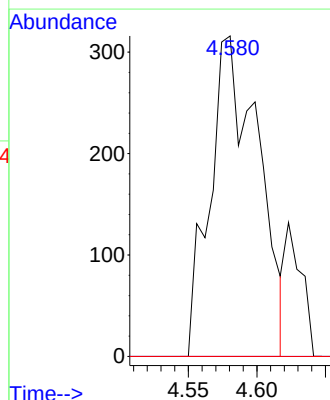
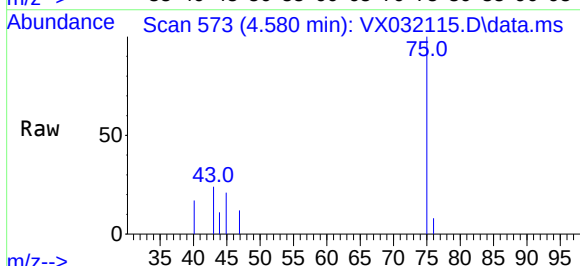
Tgt Ion: 43 Resp: 773

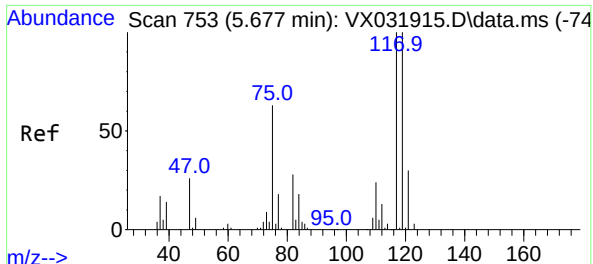
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.6 13.0#

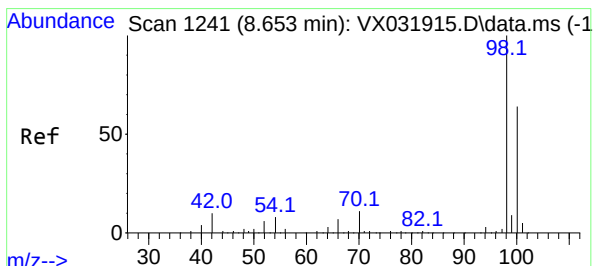
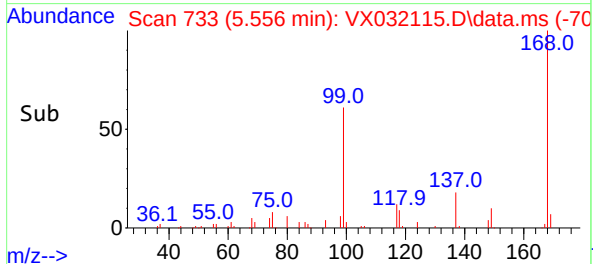
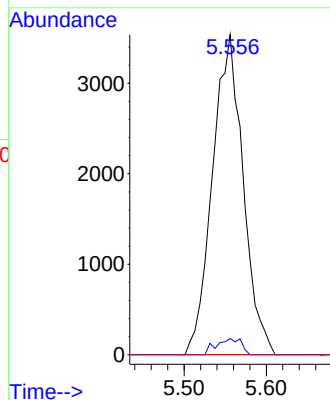
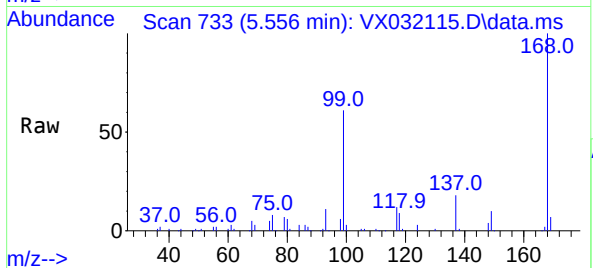




#38  
Carbon Tetrachloride  
Concen: 4.851 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.121 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

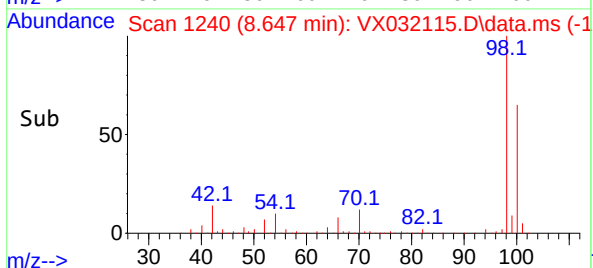
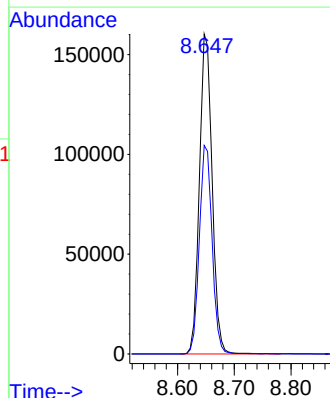
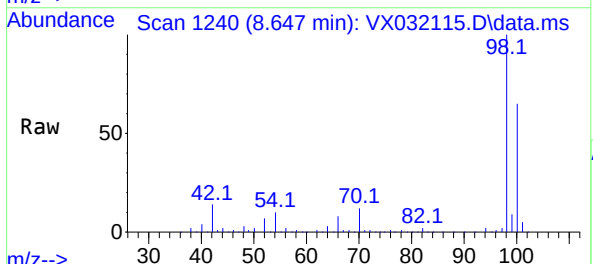
Instrument :  
MSVOA\_X  
ClientSampleId :  
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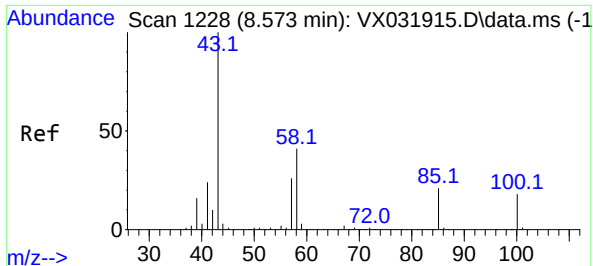
Tgt Ion:117 Resp: 9160  
Ion Ratio Lower Upper  
117 100  
119 5.1 74.6 112.0#  
121 0.0 25.3 37.9#



#50  
Toluene-d8  
Concen: 49.822 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion: 98 Resp: 249662  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.5 78.7

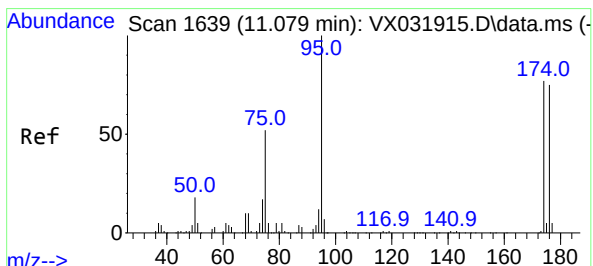
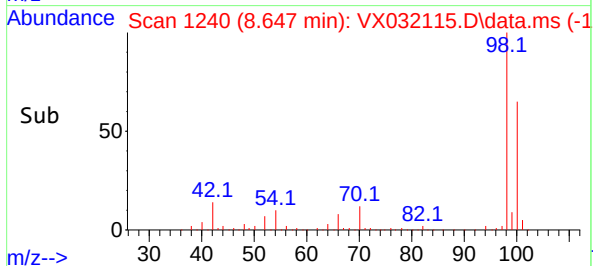
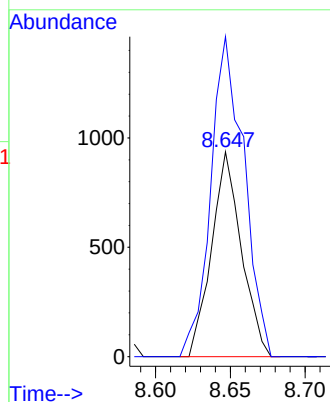
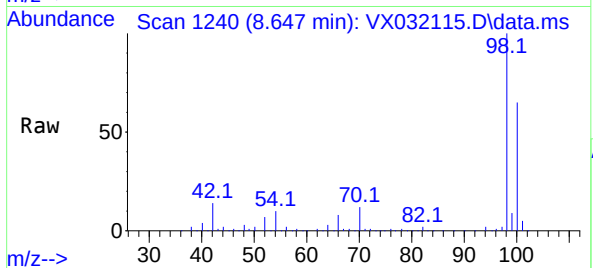




#51  
4-Methyl-2-Pentanone  
Concen: 0.743 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.074 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

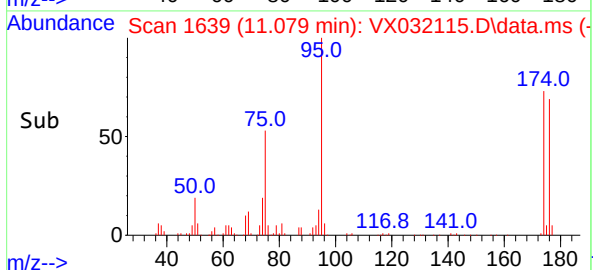
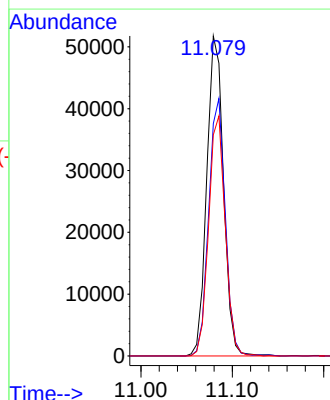
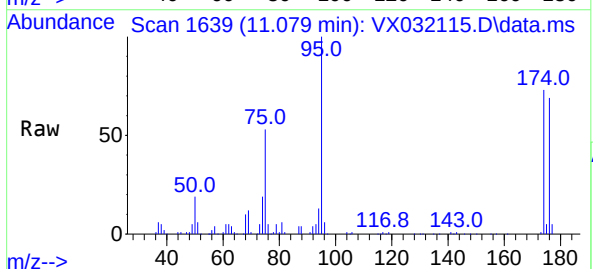
Instrument :  
MSVOA\_X  
ClientSampleId :  
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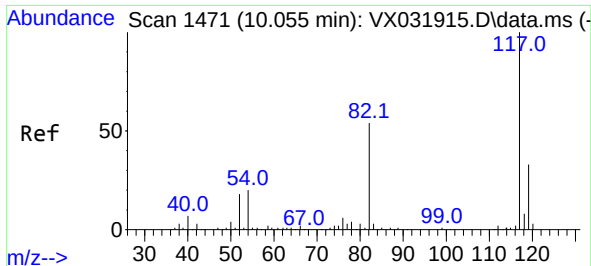
Tgt Ion: 43 Resp: 1299  
Ion Ratio Lower Upper  
43 100  
58 174.1 30.6 46.0#



#62  
4-Bromofluorobenzene  
Concen: 37.220 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion: 95 Resp: 65938  
Ion Ratio Lower Upper  
95 100  
174 79.8 0.0 153.2  
176 74.3 0.0 144.0

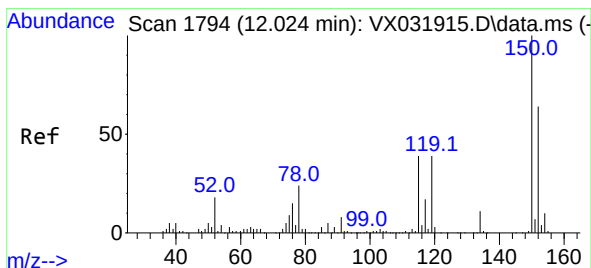
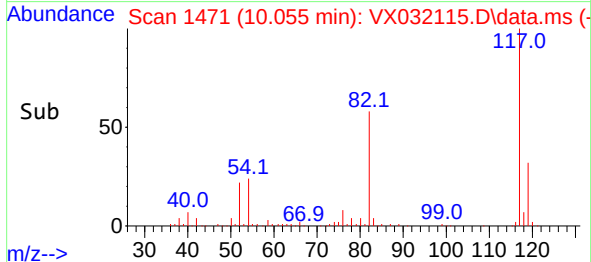
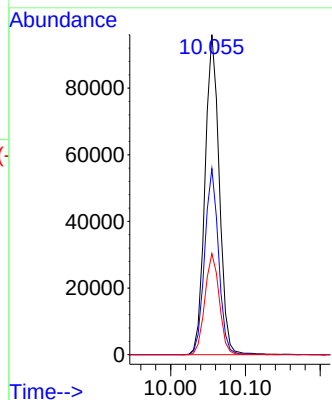
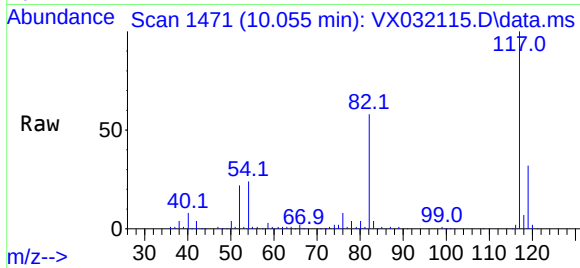




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

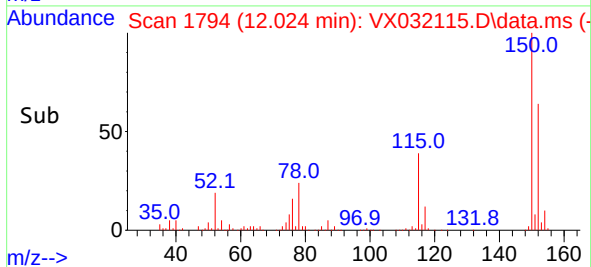
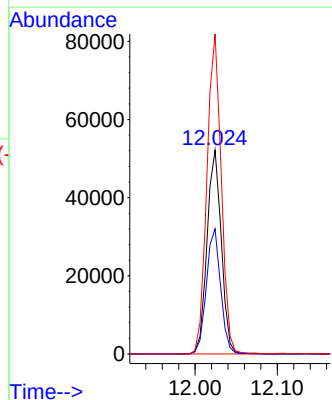
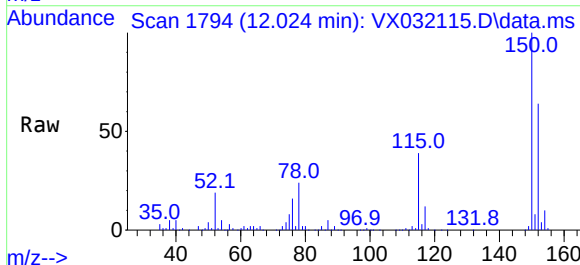
Instrument :  
MSVOA\_X  
ClientSampleId :  
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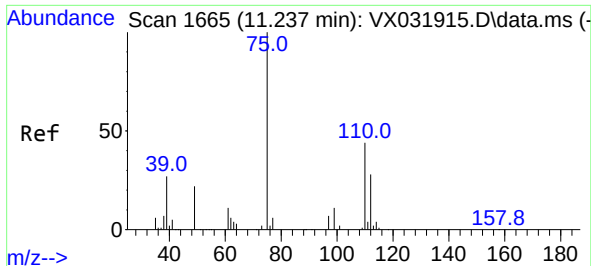
Tgt Ion:117 Resp: 127123  
Ion Ratio Lower Upper  
117 100  
82 58.1 46.8 70.2  
119 31.6 26.4 39.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Tgt Ion:152 Resp: 62969  
Ion Ratio Lower Upper  
152 100  
115 61.4 43.4 130.1  
150 157.8 0.0 346.8

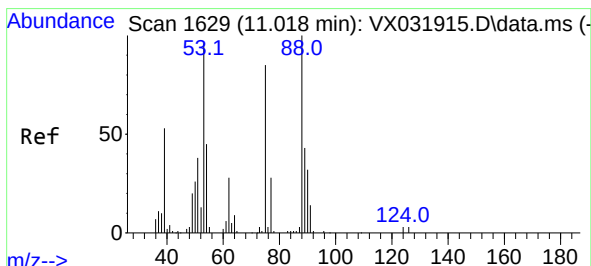
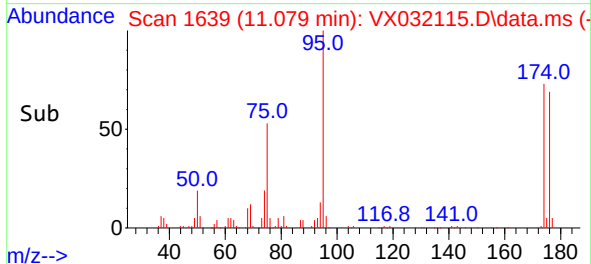
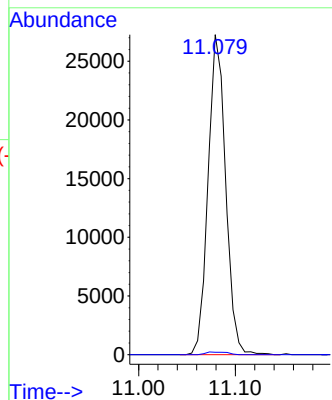
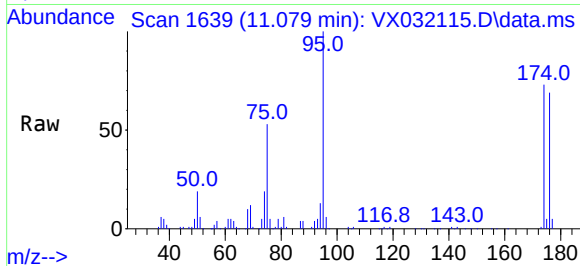




#76  
1,2,3-Trichloropropane  
Concen: 26.677 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

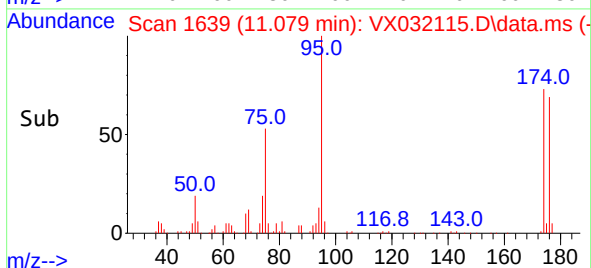
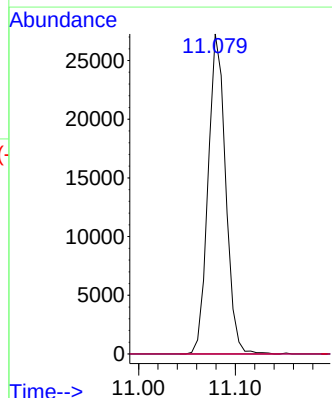
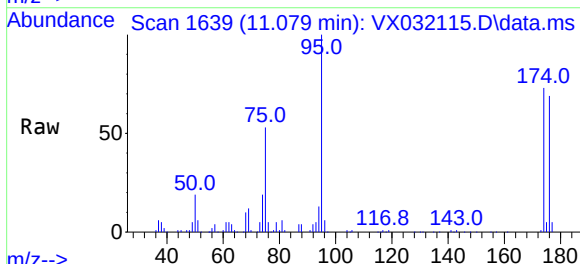
Instrument :  
MSVOA\_X  
ClientSampleId :  
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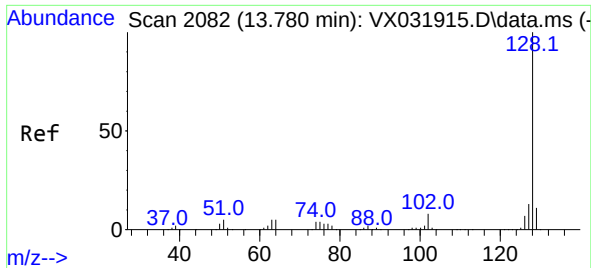
Tgt Ion: 75 Resp: 34428  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.3 60.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.453 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

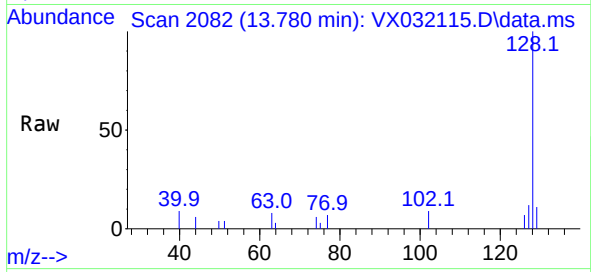
Tgt Ion: 75 Resp: 34428  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.6 116.4#  
89 0.0 37.4 56.0#





#95  
Naphthalene  
Concen: 0.557 ug/l  
RT: 13.780 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX032115.D  
Acq: 13 Oct 2022 17:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tgt Ion:128 Resp: 2565

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 8.8   | 10.4  | 15.6# |
| 129 | 8.7   | 8.8   | 13.2# |

