

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050624\  
 Data File : VX041367.D  
 Acq On : 06 May 2024 10:26  
 Operator : JC/MD  
 Sample : VX0506MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 07 01:57:05 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 01 02:38:17 2024  
 Response via : Initial Calibration

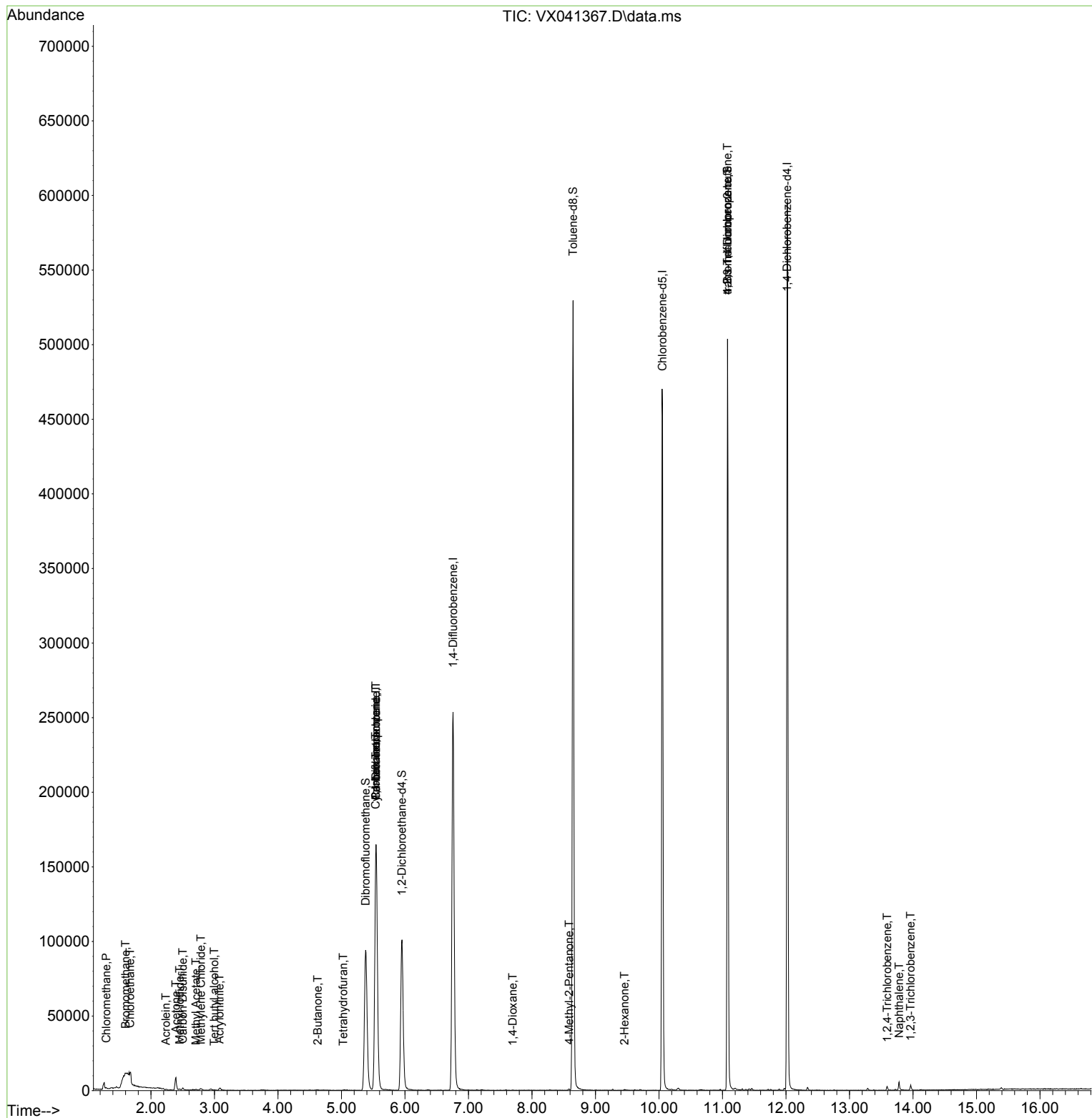
| Compound                      | R.T.           | QIon | Response            | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|-------|----------|
| -----                         |                |      |                     |        |       |          |
| Internal Standards            |                |      |                     |        |       |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 176818              | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 278419              | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 229757              | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 134615              | 50.000 | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 101547              | 52.754 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.500% |        |       |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 81230               | 43.053 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 86.100%  |        |       |          |
| 50) Toluene-d8                | 8.647          | 98   | 319186              | 53.449 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 106.900% |        |       |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 123385              | 53.374 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 106.740% |        |       |          |
| Target Compounds              |                |      |                     |        |       |          |
|                               |                |      |                     |        |       | Qvalue   |
| 3) Chloromethane              | 1.295          | 50   | 435                 | 0.289  | ug/l  | # 83     |
| 5) Bromomethane               | 1.599          | 94   | 1020                | 1.135  | ug/l  | 93       |
| 6) Chloroethane               | 1.673          | 64   | 239                 | 0.359  | ug/l  | # 82     |
| 10) Methyl Iodide             | 2.453          | 142  | 853                 | 0.571  | ug/l  | # 78     |
| 11) Tert butyl alcohol        | 2.995          | 59   | 347                 | 0.901  | ug/l  | # 78     |
| 13) Acrolein                  | 2.233          | 56   | 285                 | 0.932  | ug/l  | 94       |
| 15) Acrylonitrile             | 3.081          | 53   | 755                 | 0.859  | ug/l  | # 85     |
| 16) Acetone                   | 2.392          | 43   | 9487                | 7.396  | ug/l  | 99       |
| 17) Carbon Disulfide          | 2.502          | 76   | 1684                | 0.523  | ug/l  | # 88     |
| 18) Methyl Acetate            | 2.709          | 43   | 662                 | 0.336  | ug/l  | # 72     |
| 20) Methylene Chloride        | 2.788          | 84   | 603                 | 0.361  | ug/l  | # 79     |
| 25) 2-Butanone                | 4.623          | 43   | 418                 | 0.336  | ug/l  | # 51     |
| 29) Tetrahydrofuran           | 5.026          | 42   | 221                 | 0.271  | ug/l  | # 34     |
| 31) Cyclohexane               | 5.538          | 56   | 3219                | 1.386  | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 11207               | 4.967  | ug/l  | # 51     |
| 38) Carbon Tetrachloride      | 5.544          | 117  | 15206               | 5.883  | ug/l  | # 15     |
| 49) 1,4-Dioxane               | 7.696          | 88   | 113                 | 2.694  | ug/l  | # 12     |
| 51) 4-Methyl-2-Pentanone      | 8.586          | 43   | 700                 | 0.276  | ug/l  | 88       |
| 59) 2-Hexanone                | 9.458          | 43   | 724                 | 0.356  | ug/l  | # 63     |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 61283               | 27.935 | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 61283               | 76.091 | ug/l  | # 5      |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 936                 | 0.301  | ug/l  | 78       |
| 95) Naphthalene               | 13.780         | 128  | 4205                | 0.456  | ug/l  | # 94     |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 1340                | 0.421  | ug/l  | 85       |
| -----                         |                |      |                     |        |       |          |

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

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Sample : VX0506MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

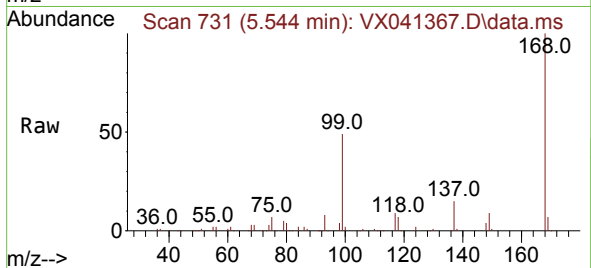
Quant Time: May 07 01:57:05 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 01 02:38:17 2024  
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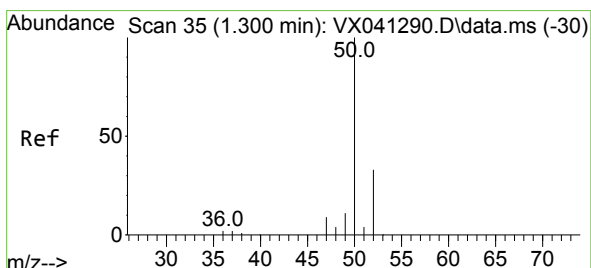
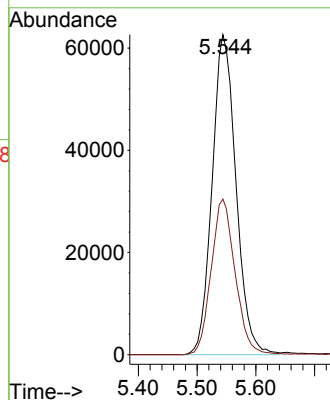
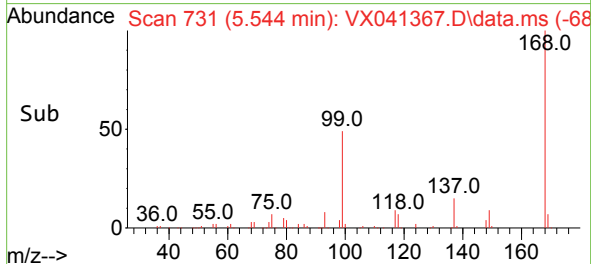


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

Instrument :  
MSVOA\_X  
ClientSampleId :

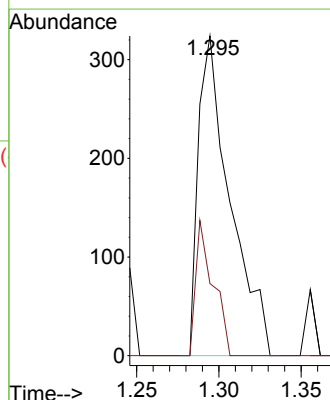
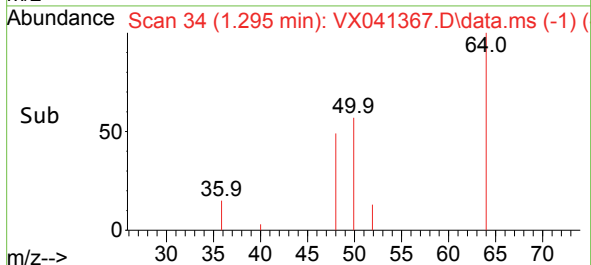
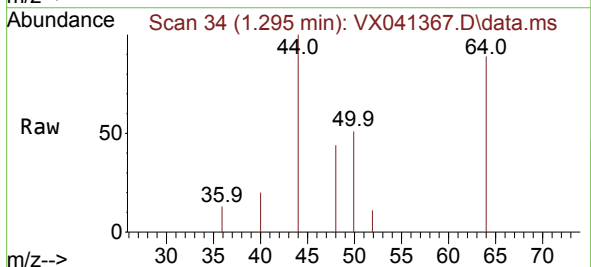


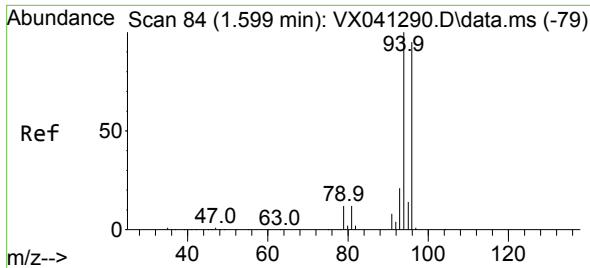
Tgt Ion:168 Resp: 176818  
Ion Ratio Lower Upper  
168 100  
99 48.6 56.6 85.0#



#3  
Chloromethane  
Concen: 0.289 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

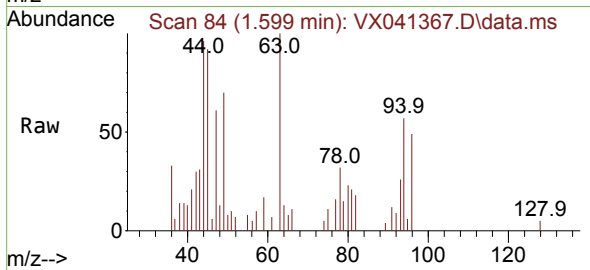
Tgt Ion: 50 Resp: 435  
Ion Ratio Lower Upper  
50 100  
52 22.5 25.5 38.3#



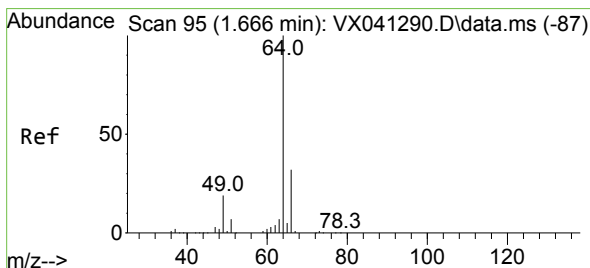
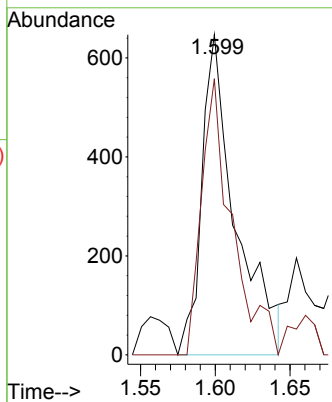
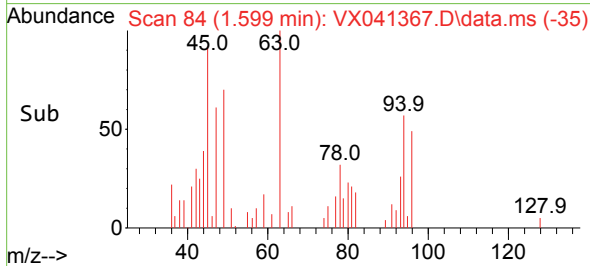


#5  
 Bromomethane  
 Concen: 1.135 ug/l  
 RT: 1.599 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VX041367.D  
 Acq: 06 May 2024 10:26

Instrument :  
 MSVOA\_X  
 ClientSampleId :

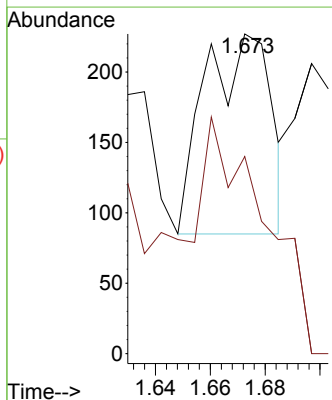
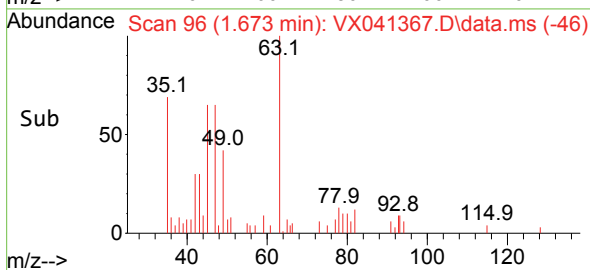
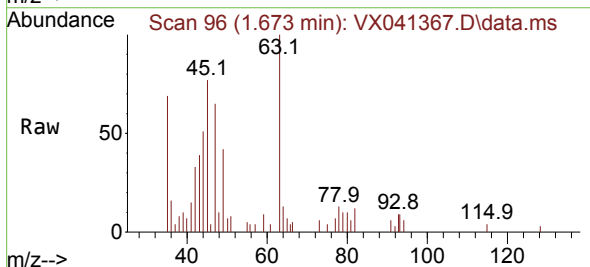


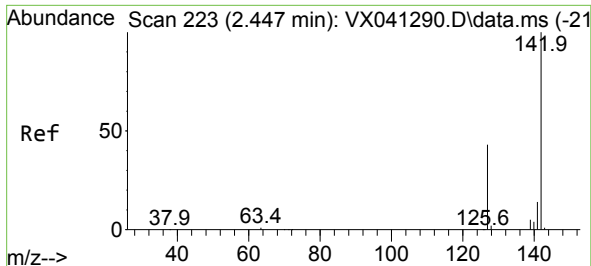
Tgt Ion: 94 Resp: 1020  
 Ion Ratio Lower Upper  
 94 100  
 96 86.2 74.6 111.8



#6  
 Chloroethane  
 Concen: 0.359 ug/l  
 RT: 1.673 min Scan# 96  
 Delta R.T. 0.006 min  
 Lab File: VX041367.D  
 Acq: 06 May 2024 10:26

Tgt Ion: 64 Resp: 239  
 Ion Ratio Lower Upper  
 64 100  
 66 41.5 25.1 37.7#





#10

Methyl Iodide

Concen: 0.571 ug/l

RT: 2.453 min Scan# 21

Delta R.T. 0.006 min

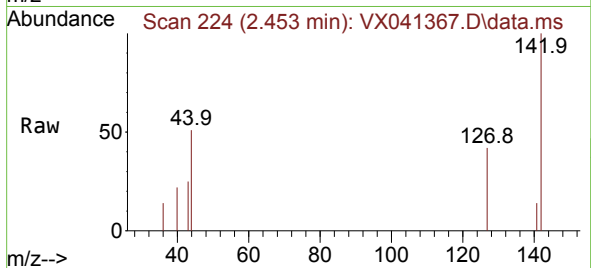
Lab File: VX041367.D

Acq: 06 May 2024 10:26

Instrument :

MSVOA\_X

ClientSampleId :



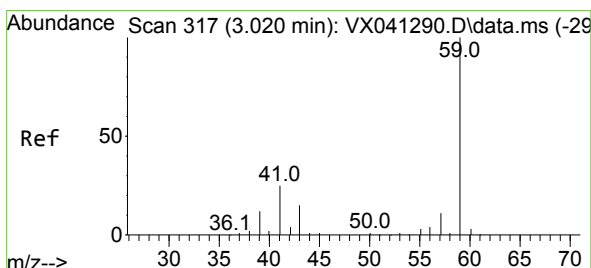
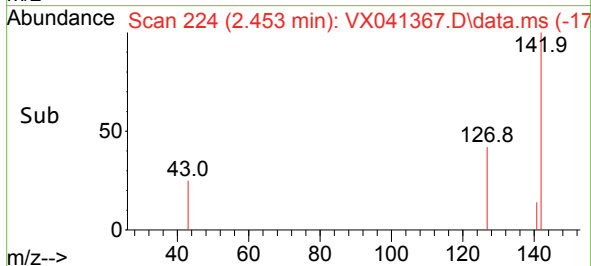
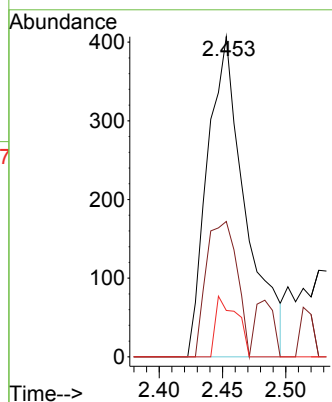
Tgt Ion:142 Resp: 853

Ion Ratio Lower Upper

142 100

127 34.0 41.6 62.4#

141 10.4 11.6 17.4#



#11

Tert butyl alcohol

Concen: 0.901 ug/l

RT: 2.995 min Scan# 313

Delta R.T. -0.024 min

Lab File: VX041367.D

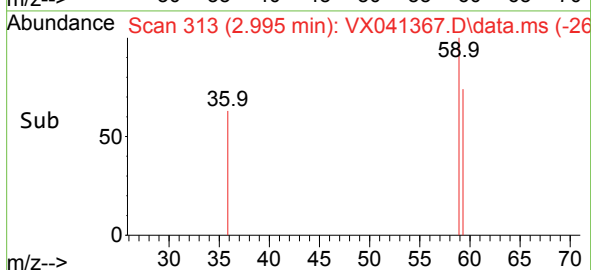
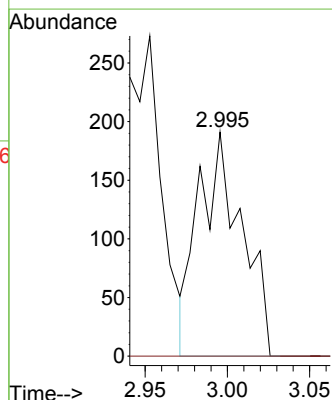
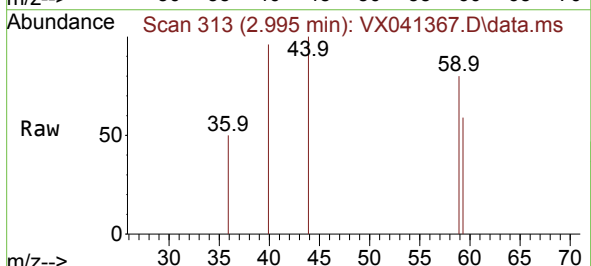
Acq: 06 May 2024 10:26

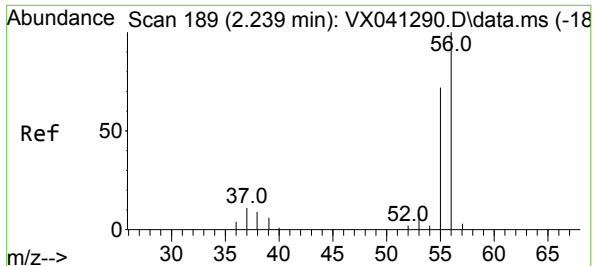
Tgt Ion: 59 Resp: 347

Ion Ratio Lower Upper

59 100

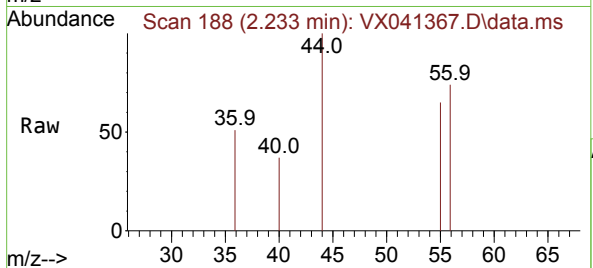
57 0.0 6.0 9.0#



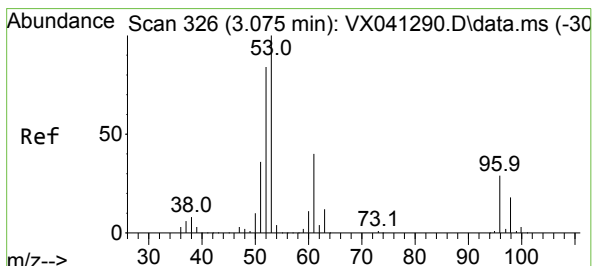
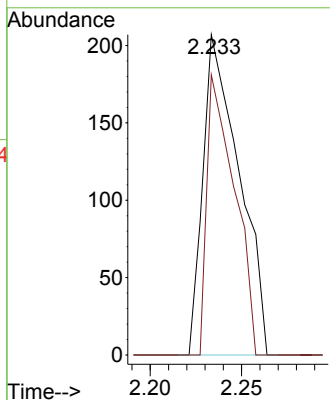
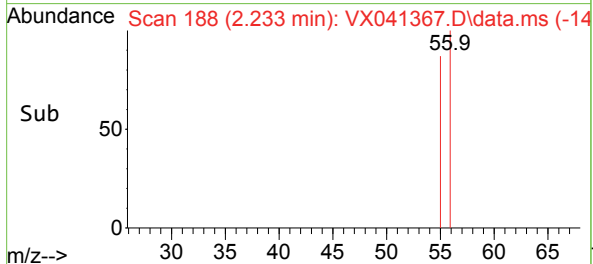


#13  
Acrolein  
Concen: 0.932 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

Instrument :  
MSVOA\_X  
ClientSampleId :

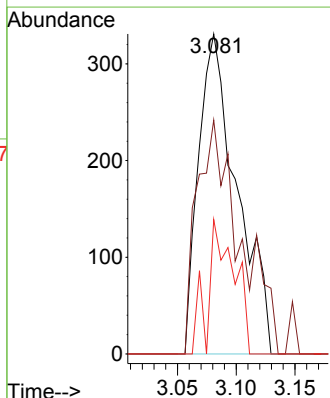
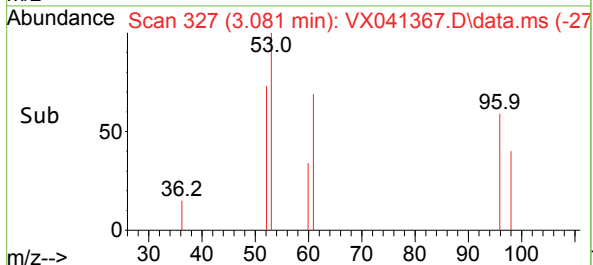
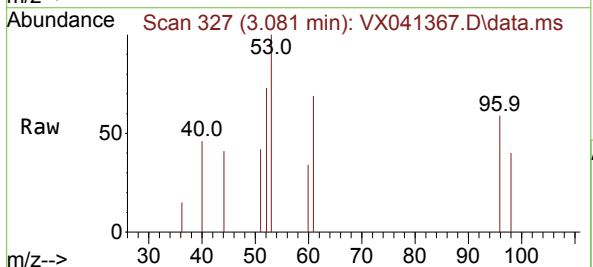


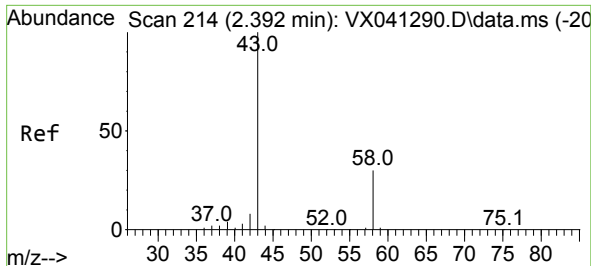
Tgt Ion: 56 Resp: 285  
Ion Ratio Lower Upper  
56 100  
55 66.3 57.1 85.7



#15  
Acrylonitrile  
Concen: 0.859 ug/l  
RT: 3.081 min Scan# 327  
Delta R.T. 0.006 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

Tgt Ion: 53 Resp: 755  
Ion Ratio Lower Upper  
53 100  
52 69.1 66.0 99.0  
51 29.0 29.8 44.6#





#16

Acetone

Concen: 7.396 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX041367.D

Acq: 06 May 2024 10:26

Instrument :

MSVOA\_X

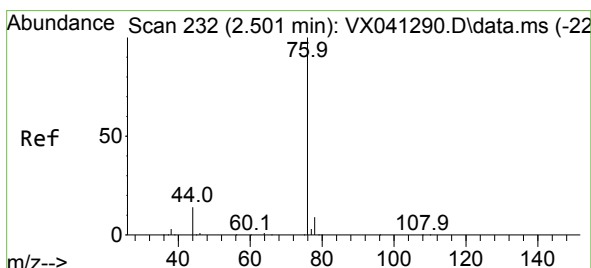
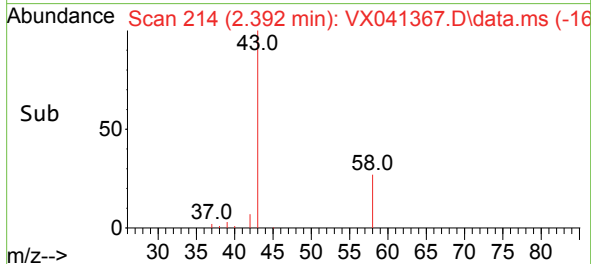
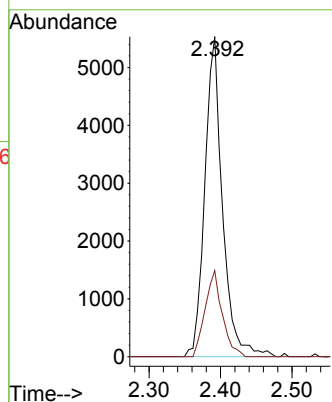
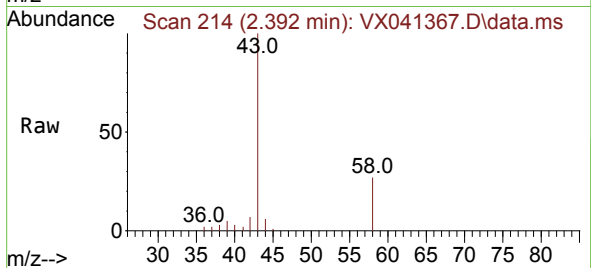
ClientSampleId :

Tgt Ion: 43 Resp: 9487

Ion Ratio Lower Upper

43 100

58 26.9 21.9 32.9



#17

Carbon Disulfide

Concen: 0.523 ug/l

RT: 2.502 min Scan# 232

Delta R.T. 0.001 min

Lab File: VX041367.D

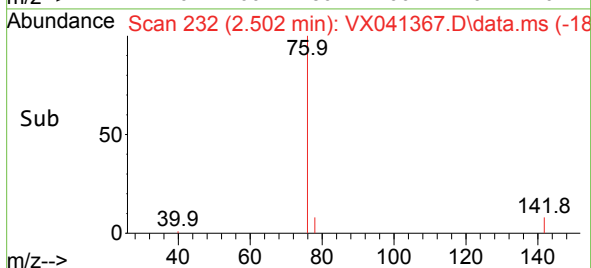
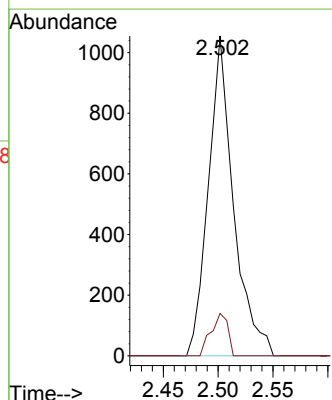
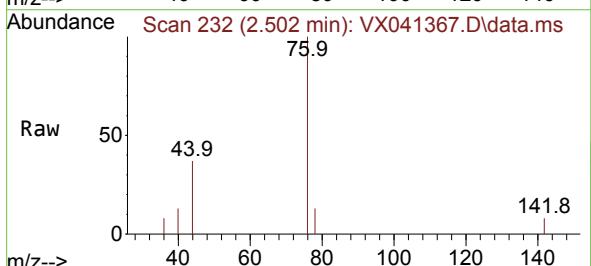
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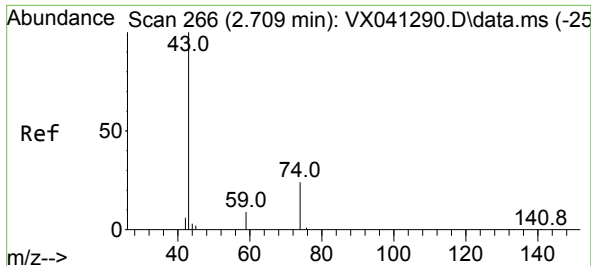
Tgt Ion: 76 Resp: 1684

Ion Ratio Lower Upper

76 100

78 13.3 7.0 10.6#





#18

Methyl Acetate

Concen: 0.336 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX041367.D

Acq: 06 May 2024 10:26

Instrument :

MSVOA\_X

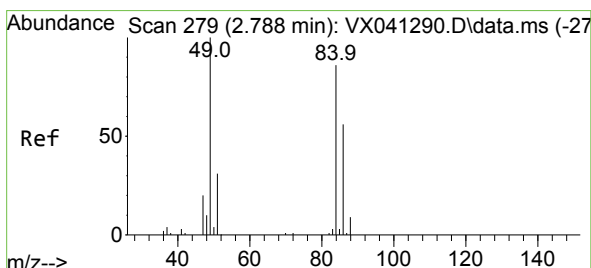
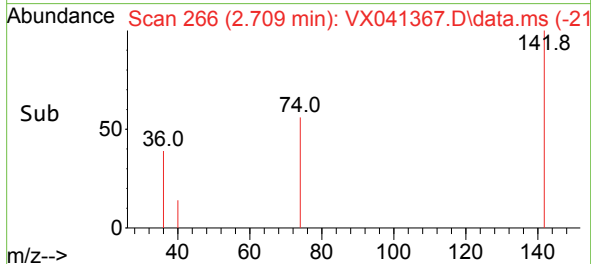
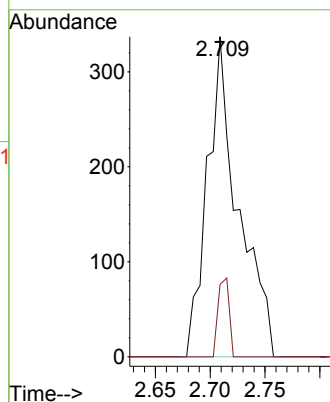
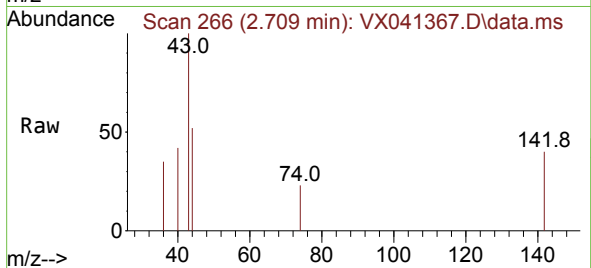
ClientSampleId :

Tgt Ion: 43 Resp: 662

Ion Ratio Lower Upper

43 100

74 8.8 17.8 26.8#



#20

Methylene Chloride

Concen: 0.361 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX041367.D

Acq: 06 May 2024 10:26

Tgt Ion: 84 Resp: 603

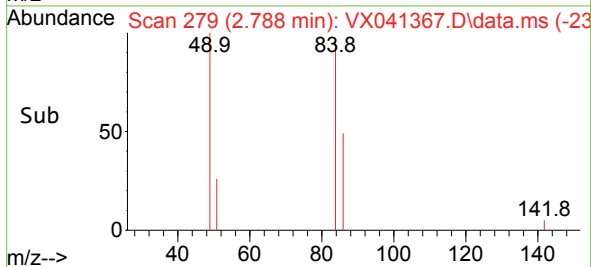
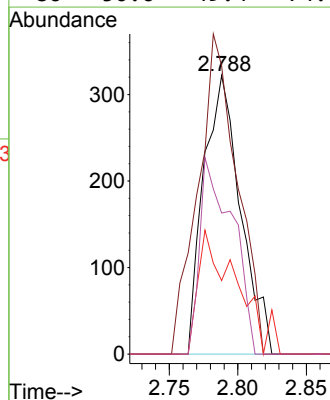
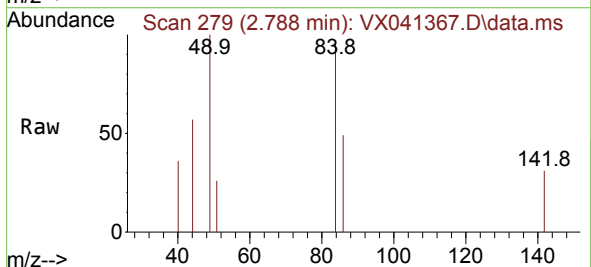
Ion Ratio Lower Upper

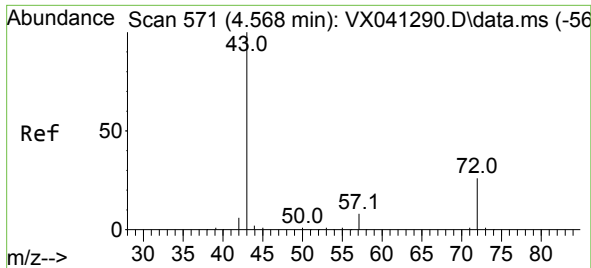
84 100

49 103.4 103.6 155.4#

51 26.4 33.8 50.6#

86 50.6 49.4 74.0

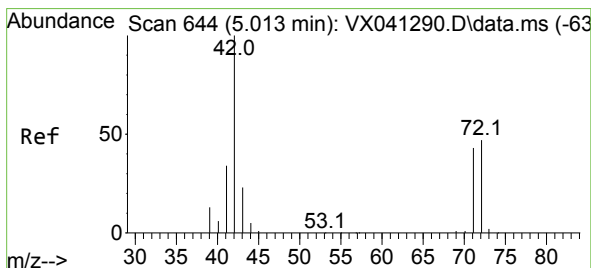
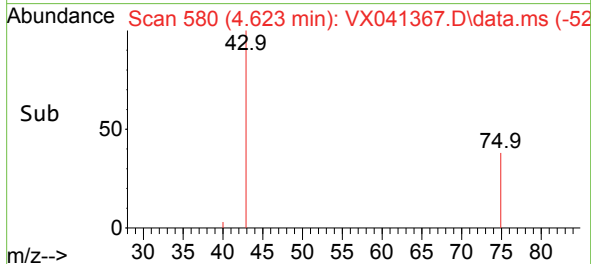
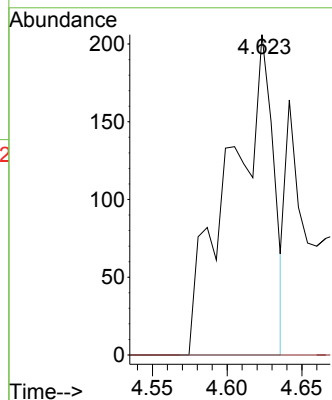
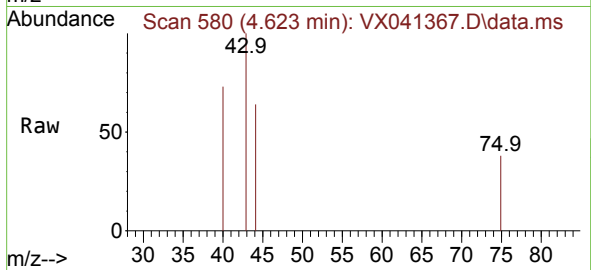




#25  
2-Butanone  
Concen: 0.336 ug/l  
RT: 4.623 min Scan# 51  
Delta R.T. 0.055 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

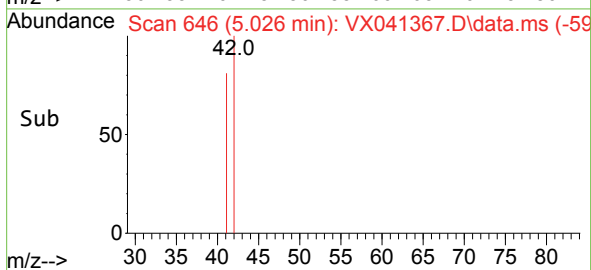
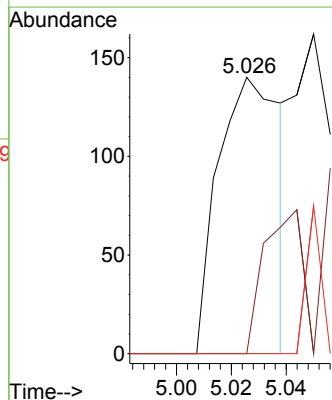
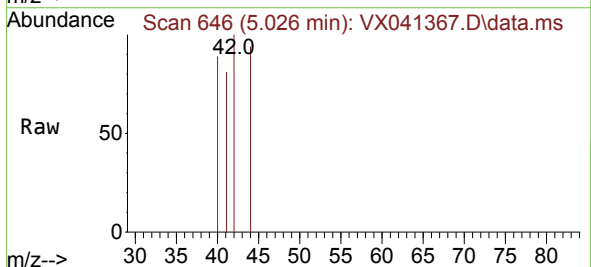
Instrument :  
MSVOA\_X  
ClientSampleId :

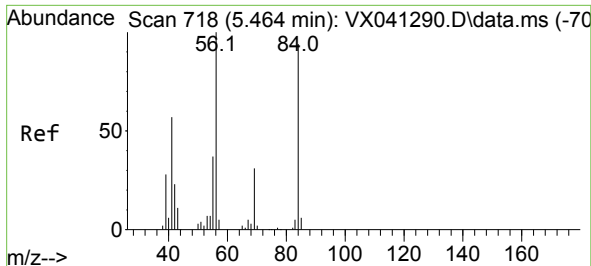
Tgt Ion: 43 Resp: 418  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 0.271 ug/l  
RT: 5.026 min Scan# 646  
Delta R.T. 0.012 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

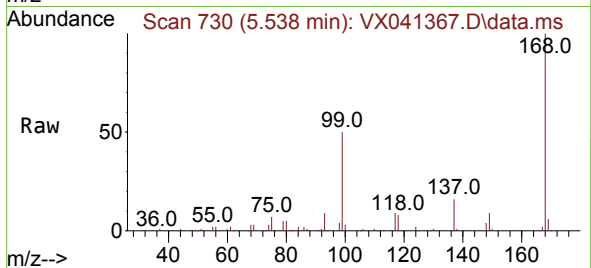
Tgt Ion: 42 Resp: 221  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 0.0 32.2 48.2#



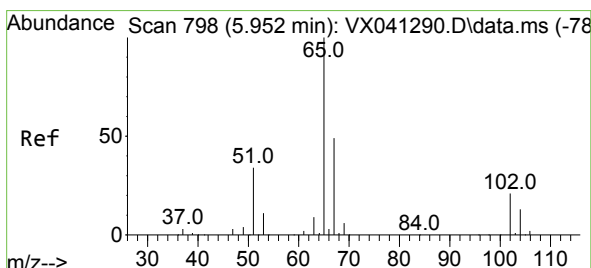
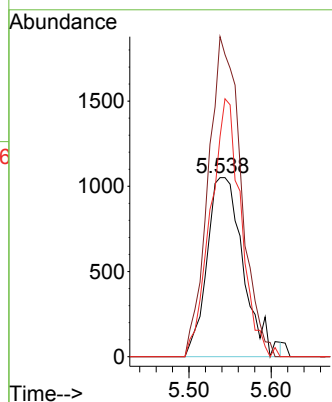
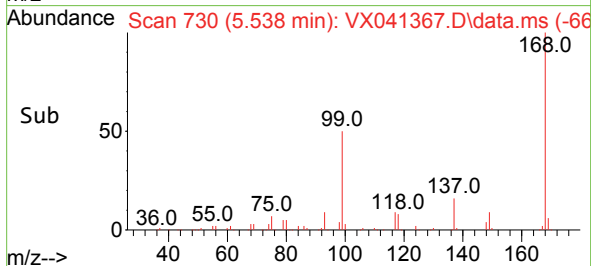


#31  
Cyclohexane  
Concen: 1.386 ug/l  
RT: 5.538 min Scan# 718  
Delta R.T. 0.073 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

Instrument :  
MSVOA\_X  
ClientSampleId :

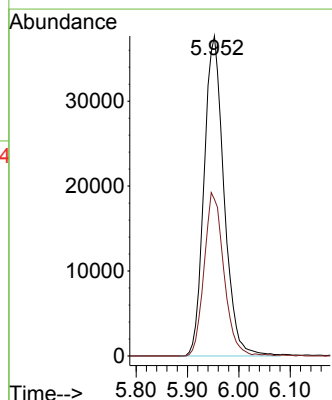
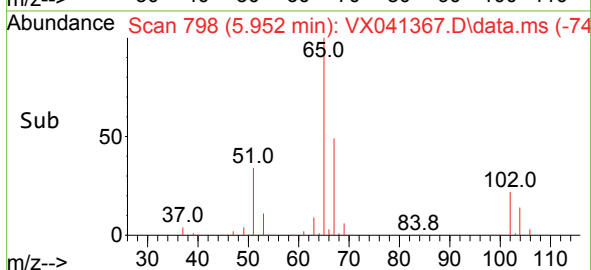
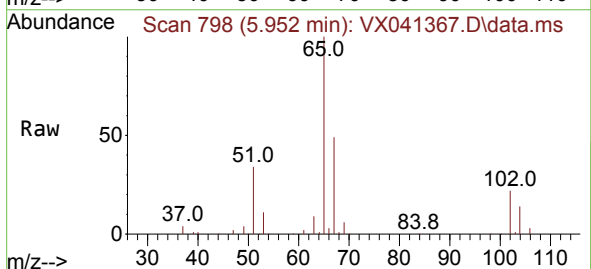


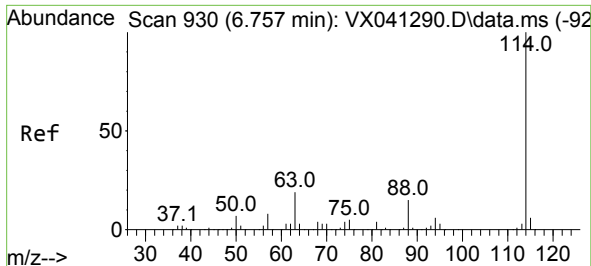
Tgt Ion: 56 Resp: 3219  
Ion Ratio Lower Upper  
56 100  
69 178.7 23.4 35.2#  
84 122.8 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 52.754 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

Tgt Ion: 65 Resp: 101547  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 100.2

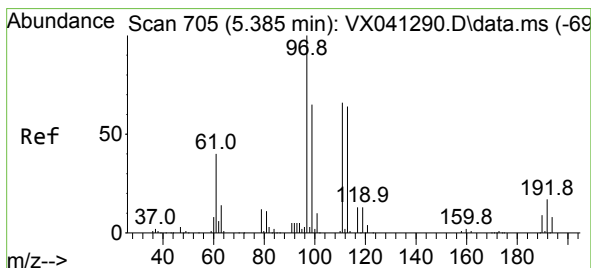
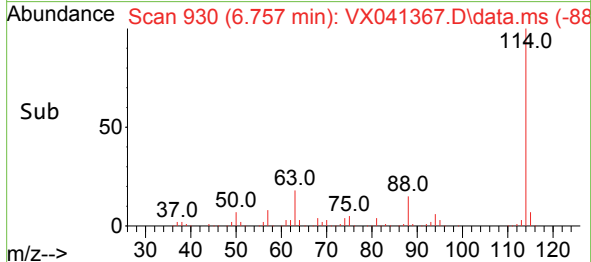
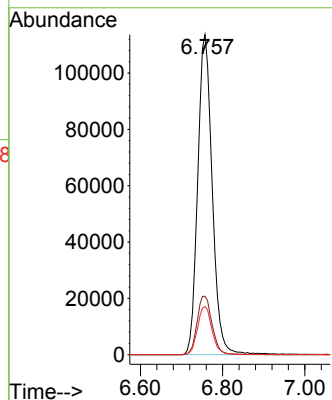
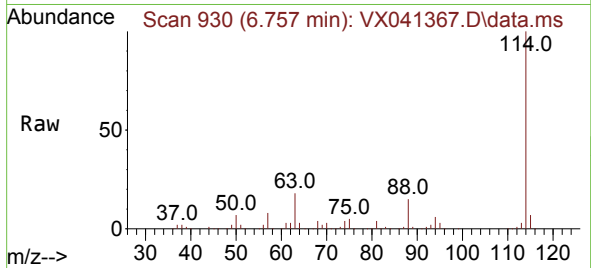




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

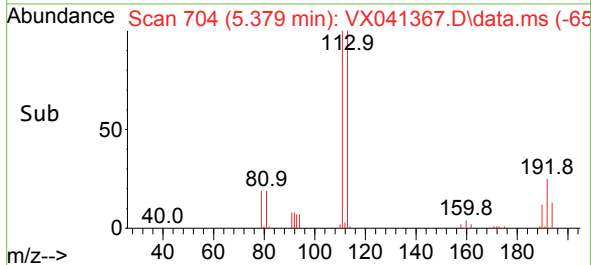
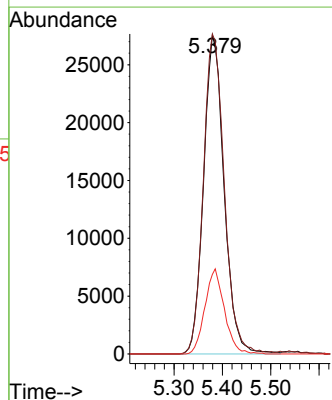
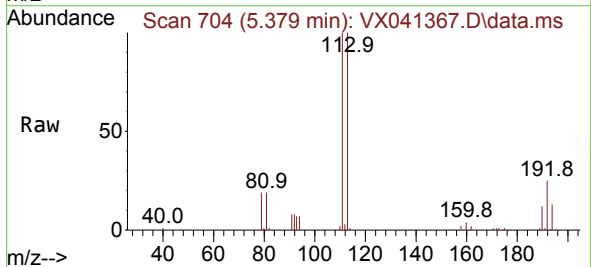
Instrument :  
MSVOA\_X  
ClientSampleId :

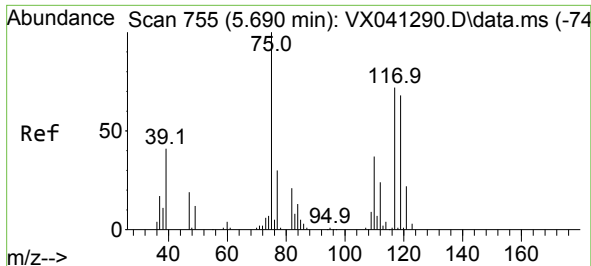
Tgt Ion:114 Resp: 278419  
Ion Ratio Lower Upper  
114 100  
63 18.3 0.0 45.0  
88 15.0 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 43.053 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

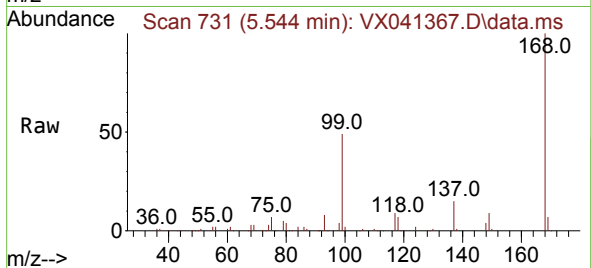
Tgt Ion:113 Resp: 81230  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.9 124.3  
192 25.3 13.3 19.9#



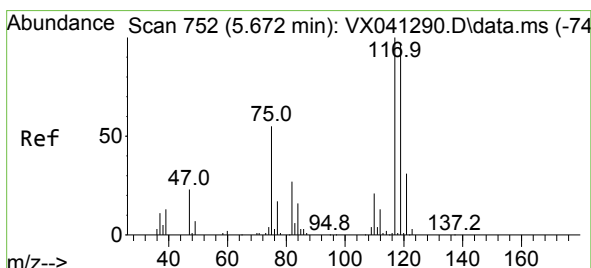
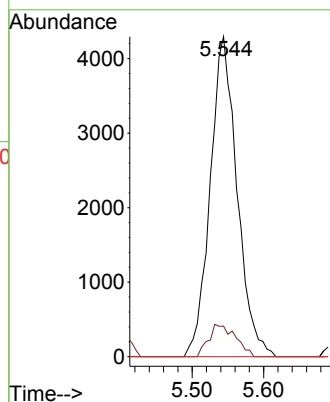
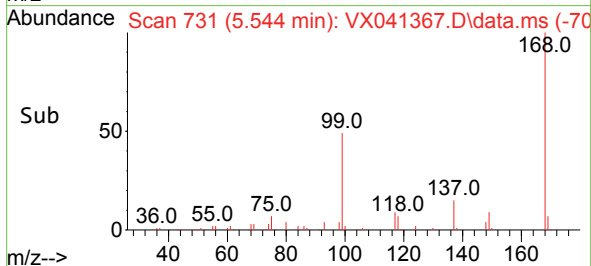


#36  
1,1-Dichloropropene  
Concen: 4.967 ug/l  
RT: 5.544 min Scan# 711  
Delta R.T. -0.146 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

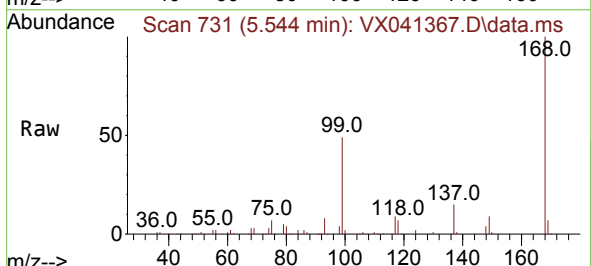
Instrument :  
MSVOA\_X  
ClientSampleId :



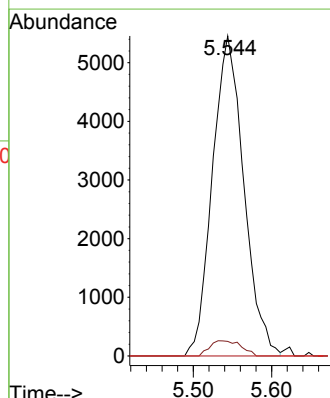
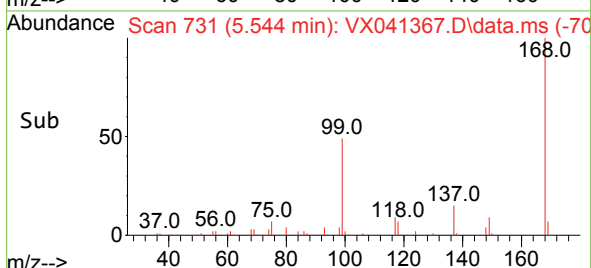
Tgt Ion: 75 Resp: 11207  
Ion Ratio Lower Upper  
75 100  
110 10.0 17.0 50.9#  
77 0.0 24.7 37.1#

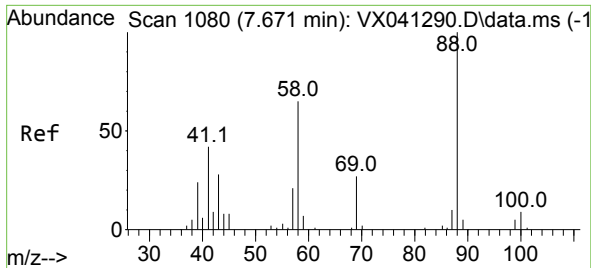


#38  
Carbon Tetrachloride  
Concen: 5.883 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26



Tgt Ion: 117 Resp: 15206  
Ion Ratio Lower Upper  
117 100  
119 4.6 78.2 117.2#  
121 0.0 24.4 36.6#

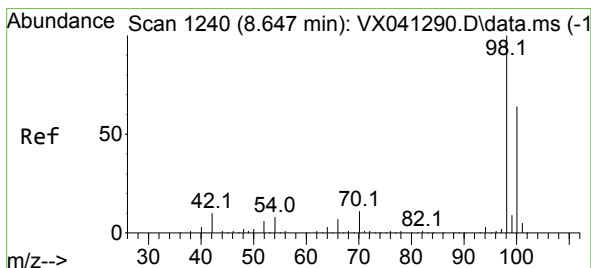
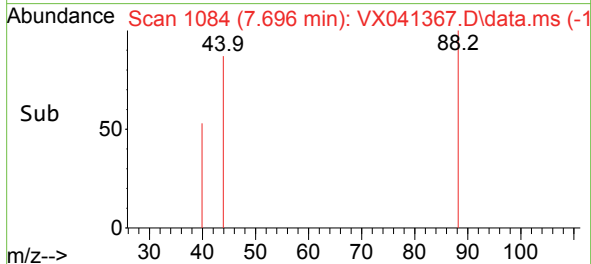
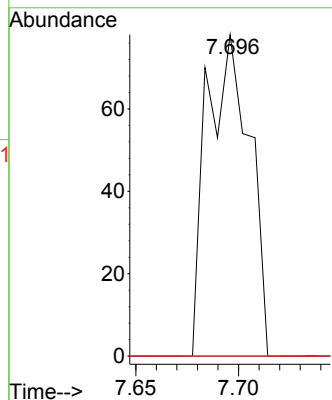
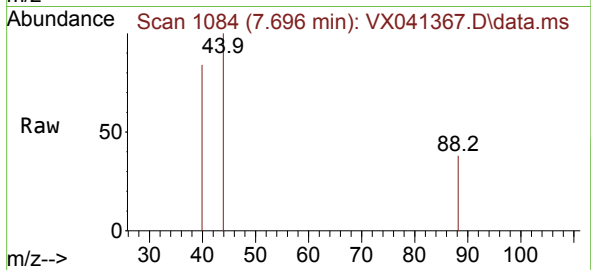




#49  
1,4-Dioxane  
Concen: 2.694 ug/l  
RT: 7.696 min Scan# 1084  
Delta R.T. 0.025 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

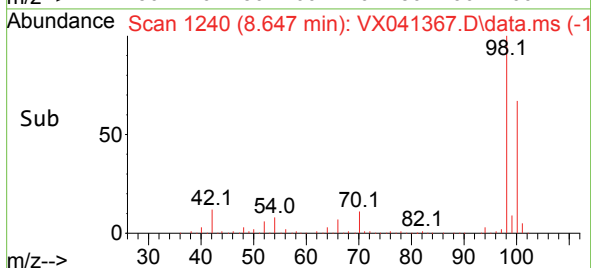
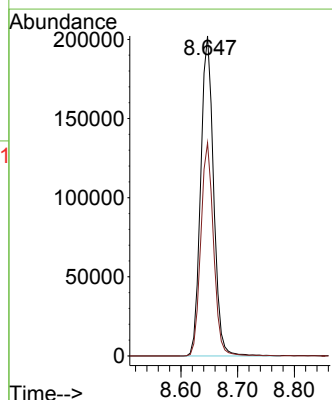
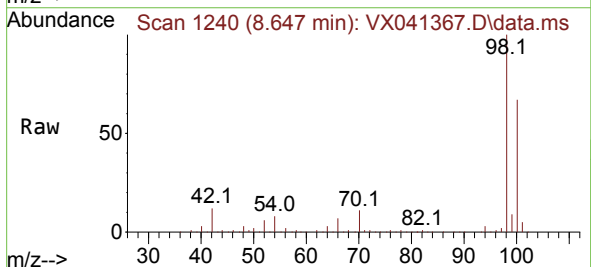
Instrument :  
MSVOA\_X  
ClientSampleId :

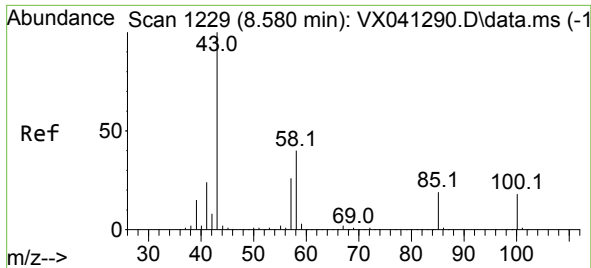
Tgt Ion: 88 Resp: 113  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 53.449 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

Tgt Ion: 98 Resp: 319186  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.1 79.7

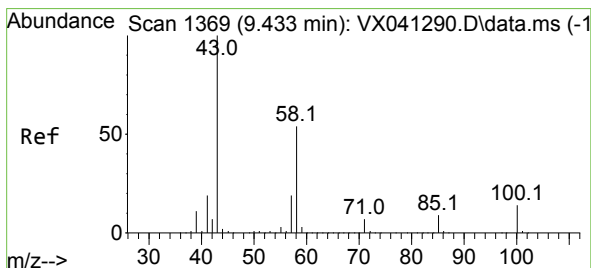
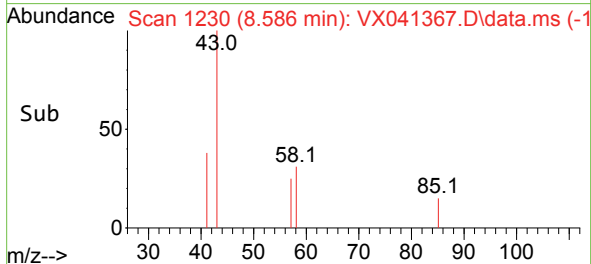
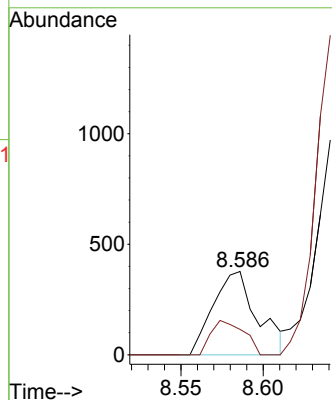
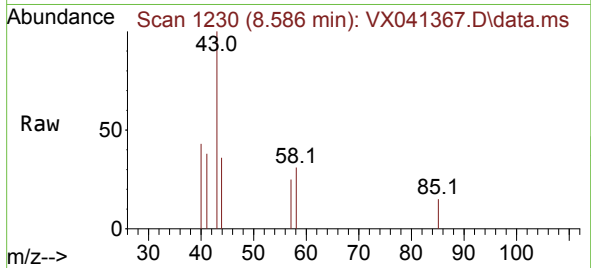




#51  
4-Methyl-2-Pentanone  
Concen: 0.276 ug/l  
RT: 8.586 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

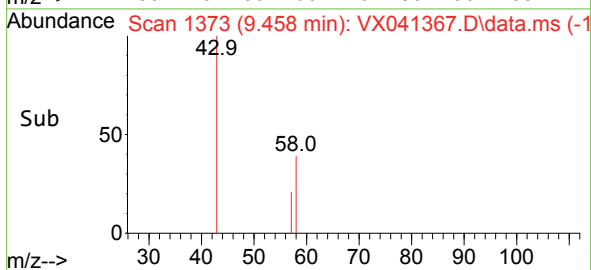
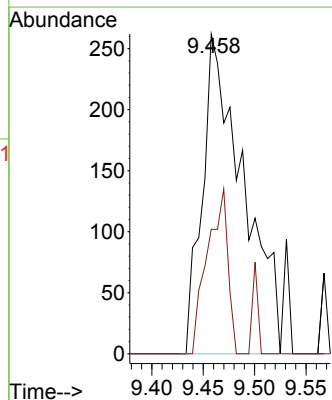
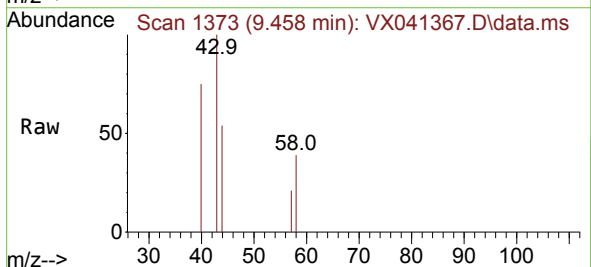
Instrument :  
MSVOA\_X  
ClientSampleId :

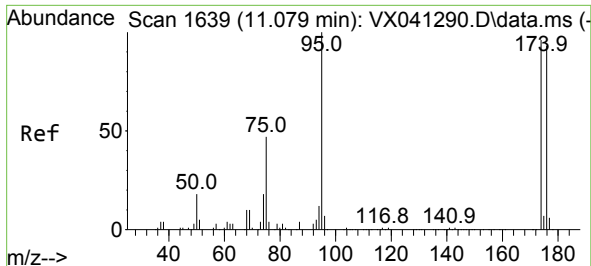
Tgt Ion: 43 Resp: 700  
Ion Ratio Lower Upper  
43 100  
58 30.9 30.4 45.6



#59  
2-Hexanone  
Concen: 0.356 ug/l  
RT: 9.458 min Scan# 1373  
Delta R.T. 0.025 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

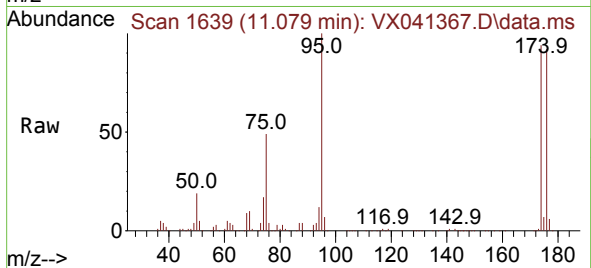
Tgt Ion: 43 Resp: 724  
Ion Ratio Lower Upper  
43 100  
58 26.0 26.2 78.5#



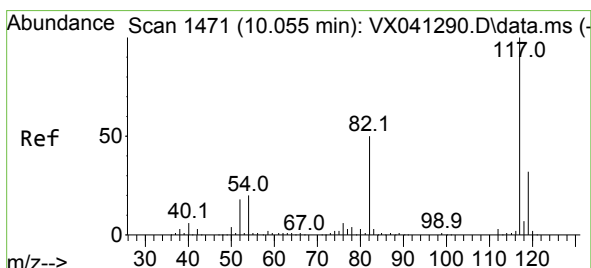
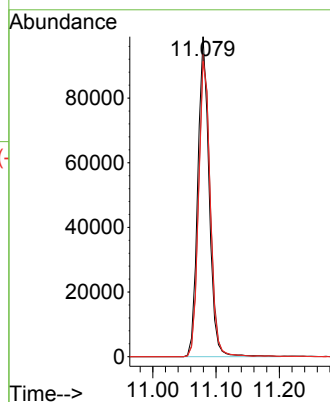
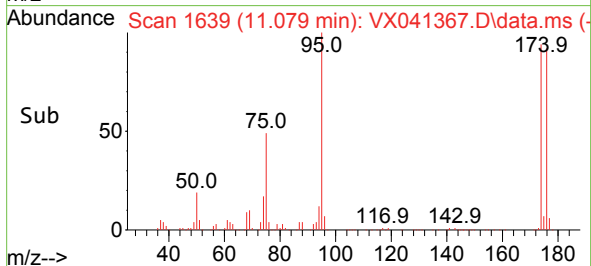


#62  
4-Bromofluorobenzene  
Concen: 53.374 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26

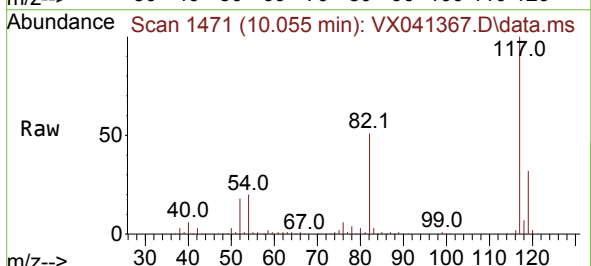
Instrument :  
MSVOA\_X  
ClientSampleId :



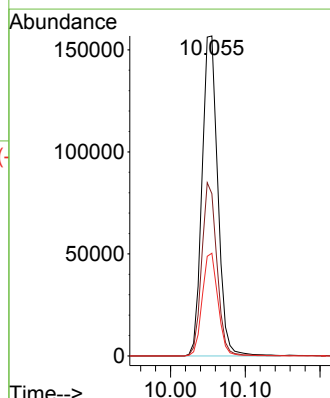
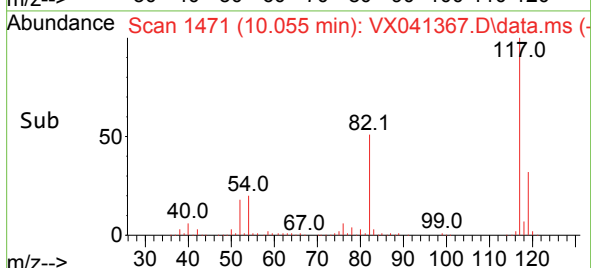
Tgt Ion: 95 Resp: 123385  
Ion Ratio Lower Upper  
95 100  
174 97.4 0.0 135.6  
176 94.8 0.0 131.0

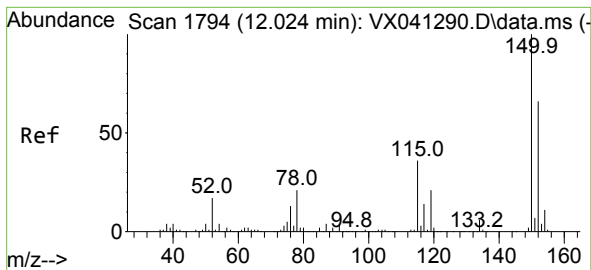


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041367.D  
Acq: 06 May 2024 10:26



Tgt Ion: 117 Resp: 229757  
Ion Ratio Lower Upper  
117 100  
82 50.7 46.2 69.4  
119 32.1 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX041367.D

Acq: 06 May 2024 10:26

Instrument :

MSVOA\_X

ClientSampleId :

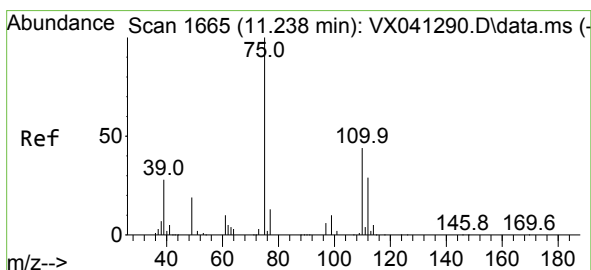
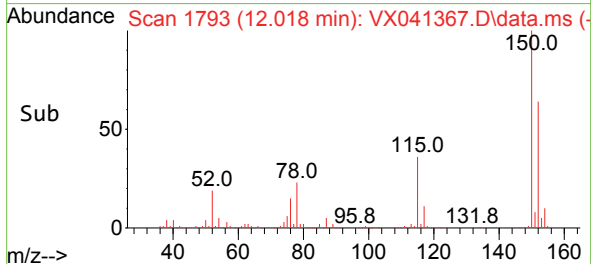
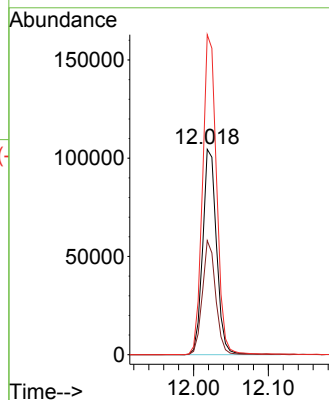
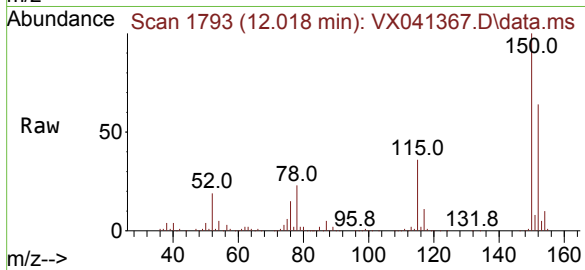
Tgt Ion:152 Resp: 134615

Ion Ratio Lower Upper

152 100

115 53.5 43.3 129.9

150 157.8 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 27.935 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX041367.D

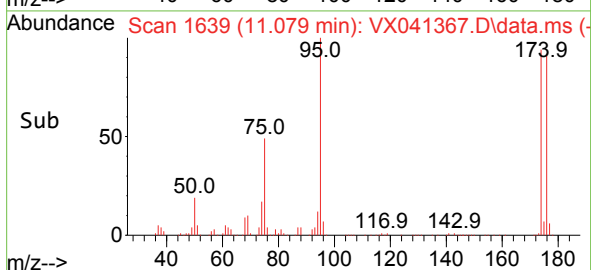
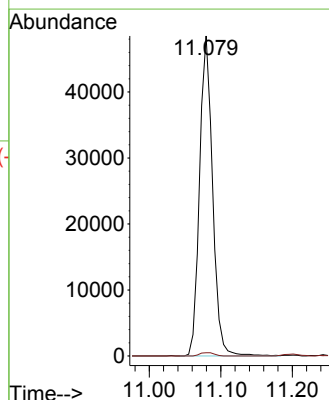
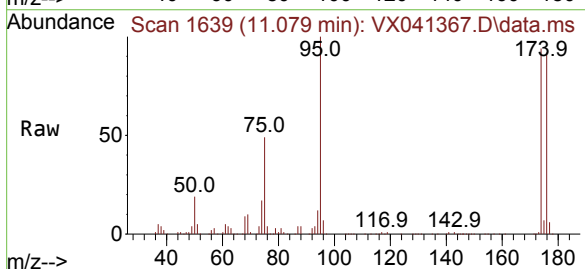
Acq: 06 May 2024 10:26

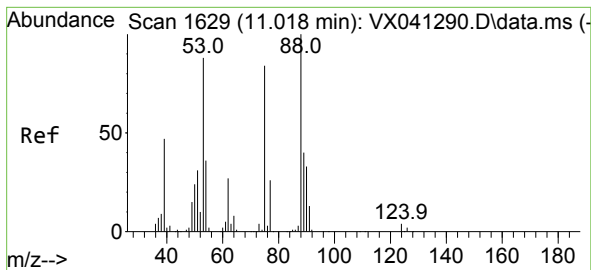
Tgt Ion: 75 Resp: 61283

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

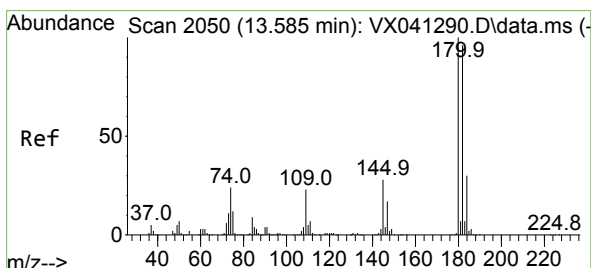
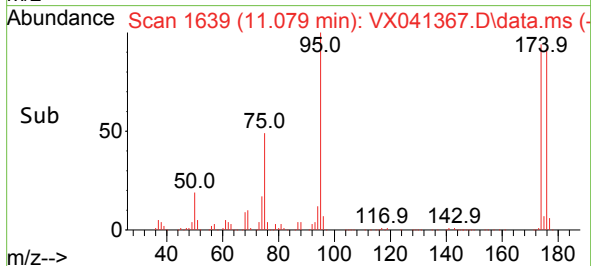
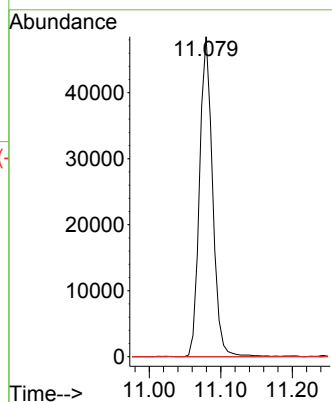
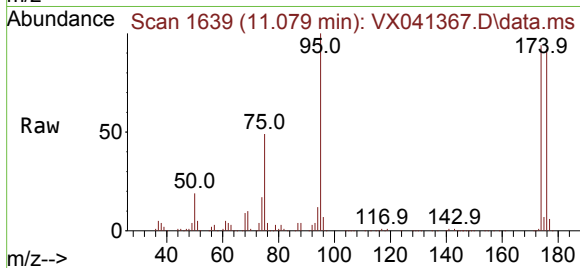




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.091 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX041367.D  
 Acq: 06 May 2024 10:26

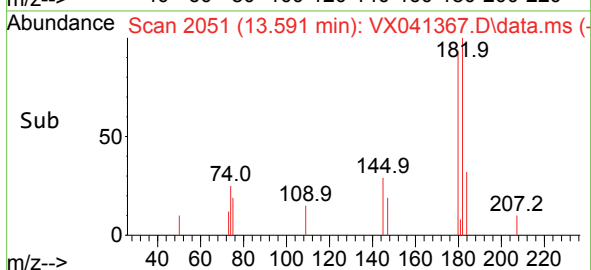
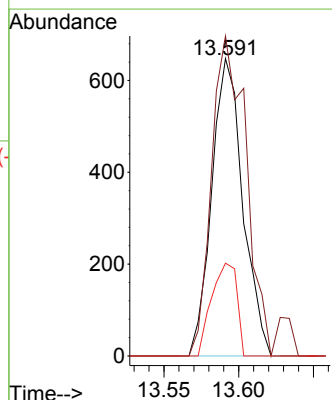
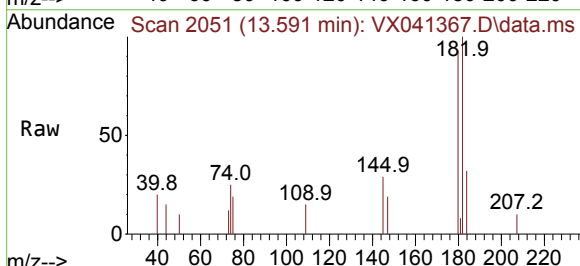
Instrument :  
 MSVOA\_X  
 ClientSampleId :

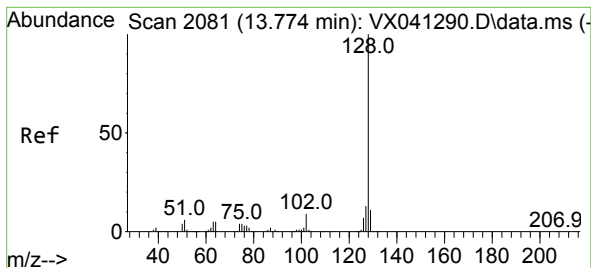
Tgt Ion: 75 Resp: 61283  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.301 ug/l  
 RT: 13.591 min Scan# 2051  
 Delta R.T. 0.006 min  
 Lab File: VX041367.D  
 Acq: 06 May 2024 10:26

Tgt Ion:180 Resp: 936  
 Ion Ratio Lower Upper  
 180 100  
 182 119.1 48.3 144.8  
 145 25.3 18.0 54.0





#95

Naphthalene

Concen: 0.456 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

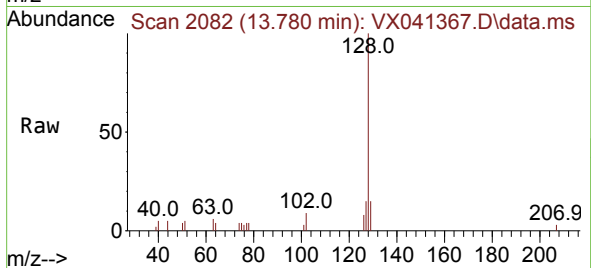
Lab File: VX041367.D

Acq: 06 May 2024 10:26

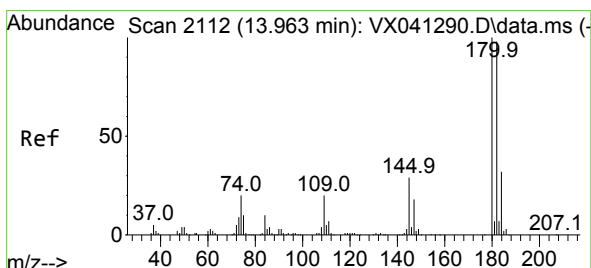
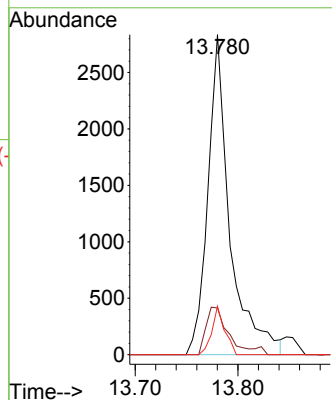
Instrument :

MSVOA\_X

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 4205  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 15.5  | 10.3  | 15.5# |
| 129       | 8.8   | 8.8   | 13.2  |



#96

1,2,3-Trichlorobenzene

Concen: 0.421 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX041367.D

Acq: 06 May 2024 10:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 1340  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 81.4  | 46.9  | 140.6 |
| 145       | 23.0  | 17.8  | 53.5  |

