

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061824\  
 Data File : VX041929.D  
 Acq On : 18 Jun 2024 17:35  
 Operator : JC/MD  
 Sample : P2927-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 19 08:48:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 19 07:57:22 2024  
 Response via : Initial Calibration

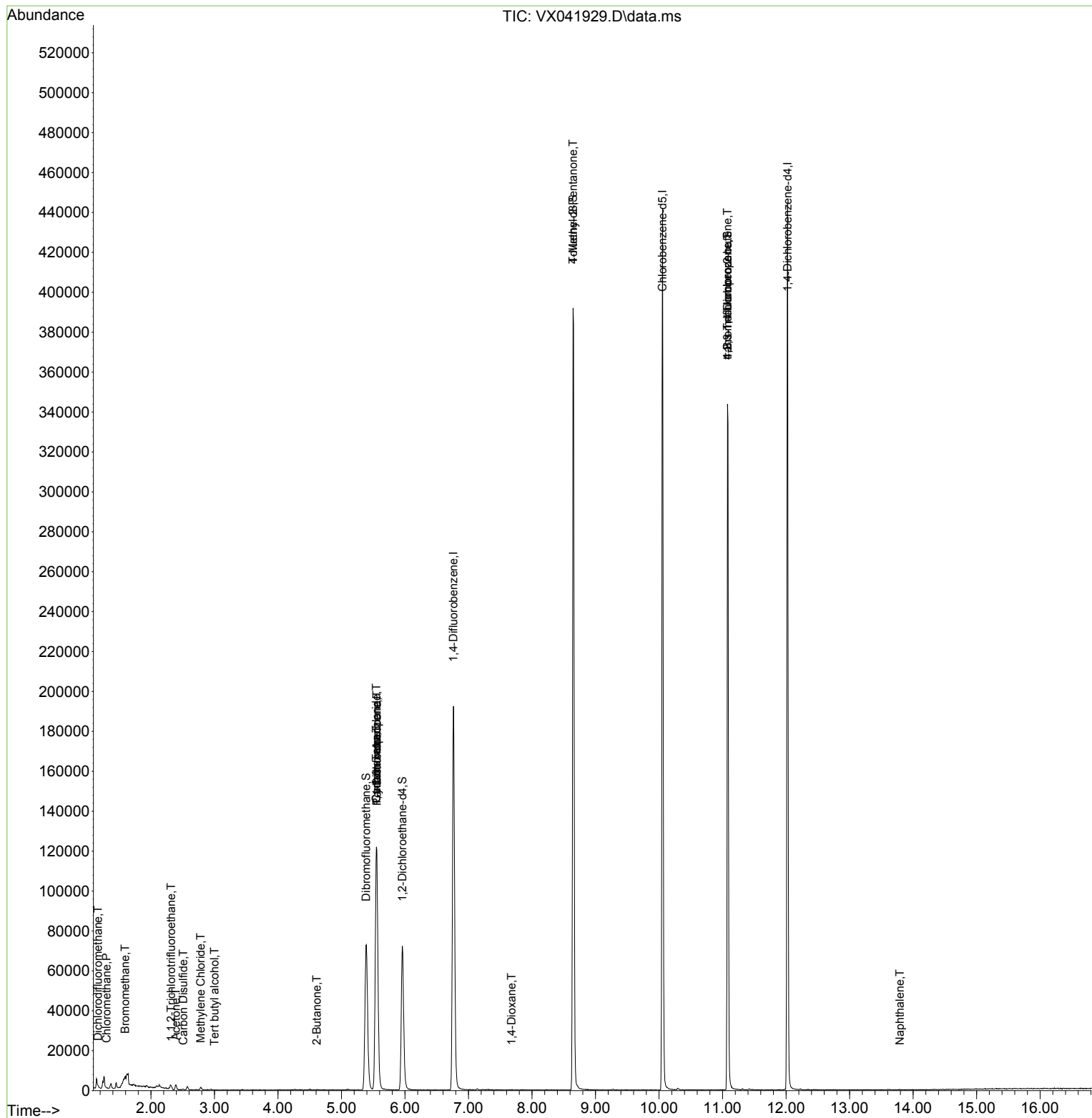
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| -----                         |        |       |          |           |       |          |
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 137354   | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 212041   | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 212571   | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 105913   | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 68829    | 43.456    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =     | 86.920%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 65836    | 43.758    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =     | 87.520%  |
| 50) Toluene-d8                | 8.647  | 98    | 250148   | 47.327    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =     | 94.660%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 94128    | 48.311    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =     | 96.620%  |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 437      | 0.418     | ug/l  | 98       |
| 3) Chloromethane              | 1.301  | 50    | 322      | 0.245     | ug/l  | # 43     |
| 5) Bromomethane               | 1.593  | 94    | 167      | 0.257     | ug/l  | # 37     |
| 6) Chloroethane               | 1.630  | 64    | 91       | Below Cal | #     | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319  | 101   | 771      | 0.649     | ug/l  | 93       |
| 11) Tert butyl alcohol        | 3.001  | 59    | 103      | 0.343     | ug/l  | # 78     |
| 16) Acetone                   | 2.392  | 43    | 2895     | 4.163     | ug/l  | 91       |
| 17) Carbon Disulfide          | 2.508  | 76    | 511      | 0.212     | ug/l  | # 76     |
| 20) Methylene Chloride        | 2.782  | 84    | 733      | 0.481     | ug/l  | # 85     |
| 25) 2-Butanone                | 4.611  | 43    | 260      | 0.240     | ug/l  | # 51     |
| 31) Cyclohexane               | 5.550  | 56    | 2051     | 1.107     | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 7866     | 4.923     | ug/l  | # 52     |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 11450    | 6.486     | ug/l  | # 14     |
| 49) 1,4-Dioxane               | 7.677  | 88    | 42       | 20.952    | ug/l  | # 12     |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 911      | 0.414     | ug/l  | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 42900    | 22.312    | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 42900    | 63.364    | ug/l  | # 5      |
| 95) Naphthalene               | 13.792 | 128   | 271      | 0.783     | ug/l  | # 69     |
| -----                         |        |       |          |           |       |          |

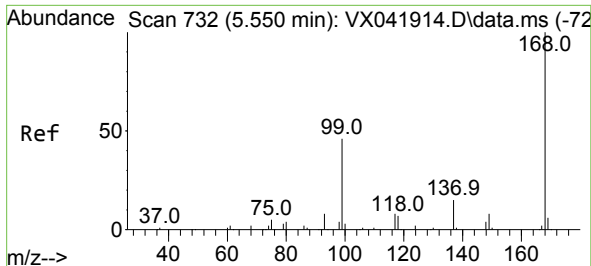
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 19 07:57:22 2024  
Response via : Initial Calibration

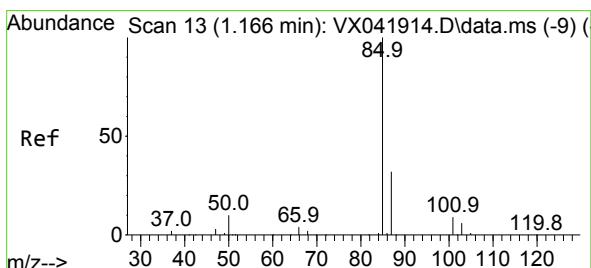
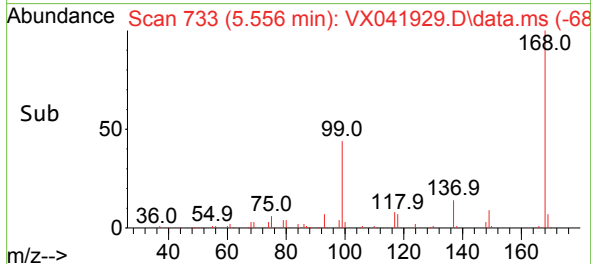
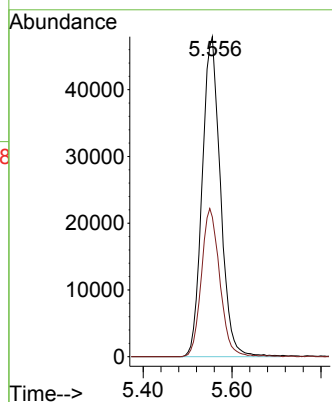
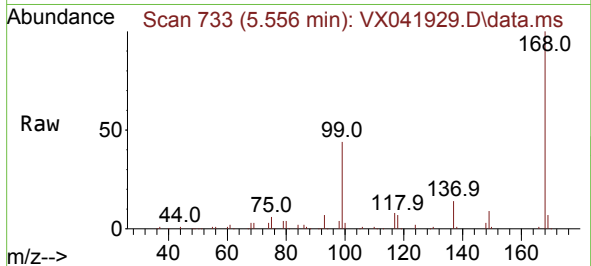




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

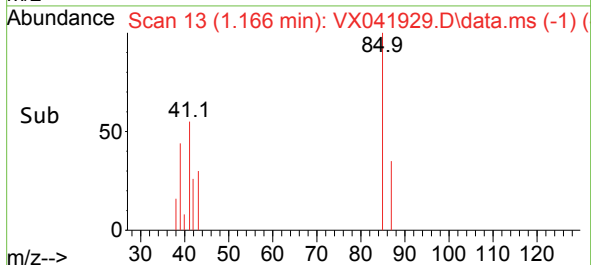
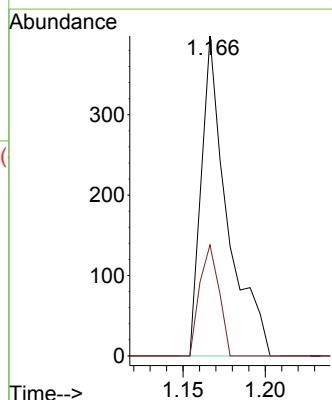
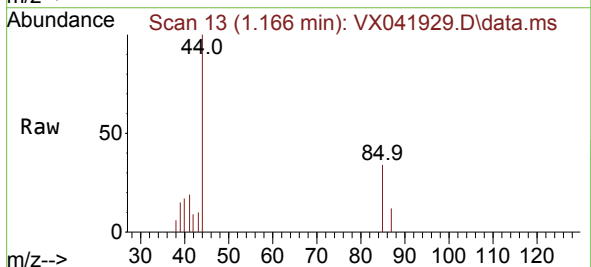
Instrument :  
MSVOA\_X  
ClientSampleId :

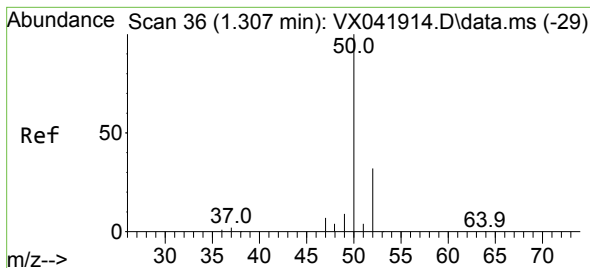
Tgt Ion:168 Resp: 137354  
Ion Ratio Lower Upper  
168 100  
99 43.6 56.6 85.0#



#2  
Dichlorodifluoromethane  
Concen: 0.418 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

Tgt Ion: 85 Resp: 437  
Ion Ratio Lower Upper  
85 100  
87 34.7 16.7 50.1





#3

Chloromethane

Concen: 0.245 ug/l

RT: 1.301 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX041929.D

Acq: 18 Jun 2024 17:35

Instrument :

MSVOA\_X

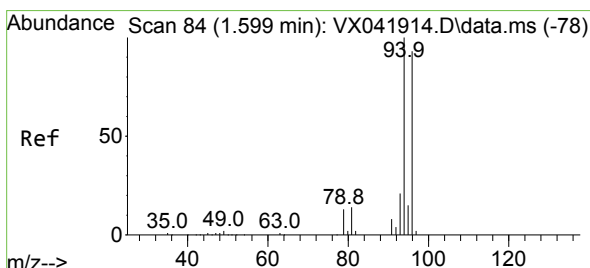
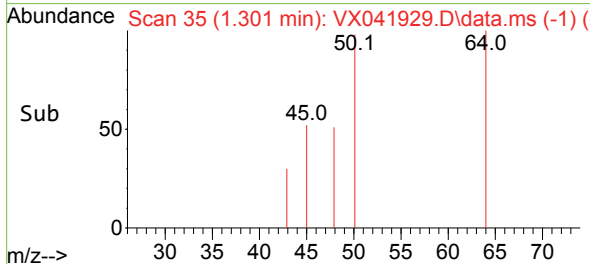
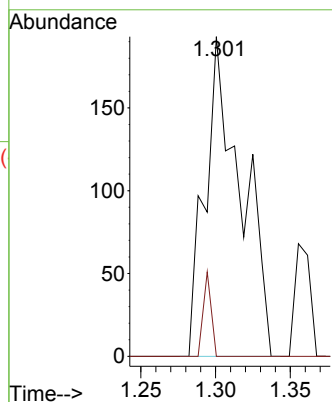
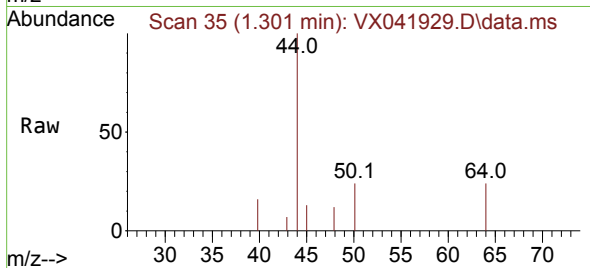
ClientSampleId :

Tgt Ion: 50 Resp: 322

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



#5

Bromomethane

Concen: 0.257 ug/l

RT: 1.593 min Scan# 83

Delta R.T. -0.006 min

Lab File: VX041929.D

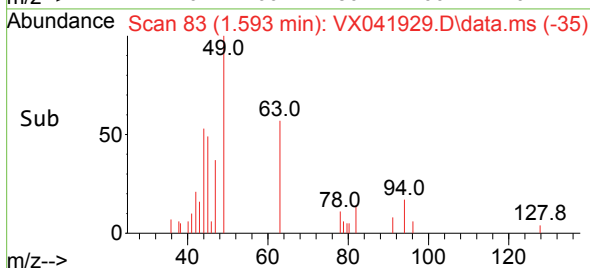
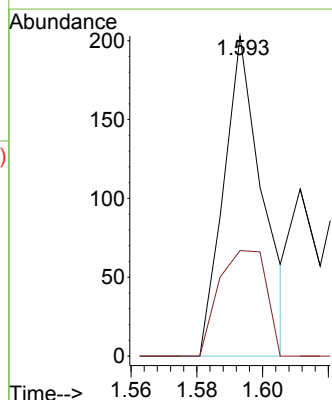
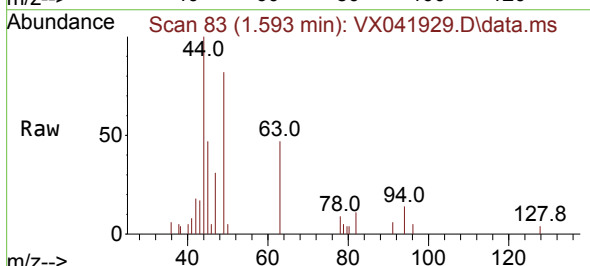
Acq: 18 Jun 2024 17:35

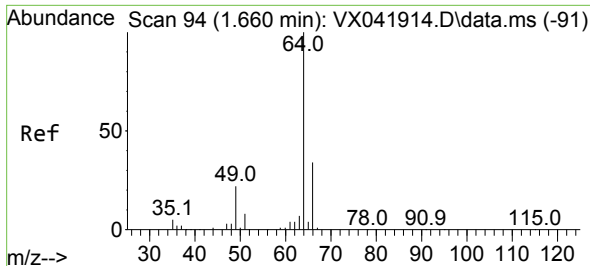
Tgt Ion: 94 Resp: 167

Ion Ratio Lower Upper

94 100

96 33.0 74.6 111.8#

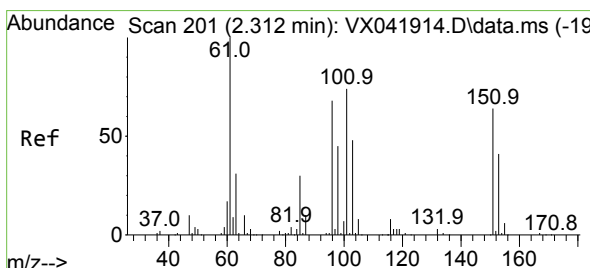
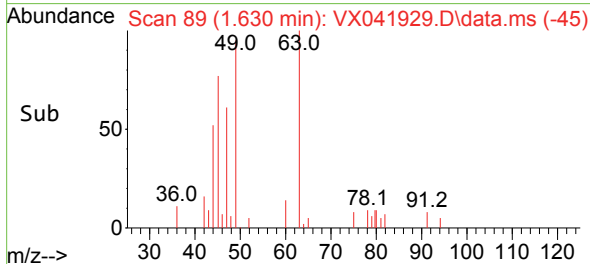
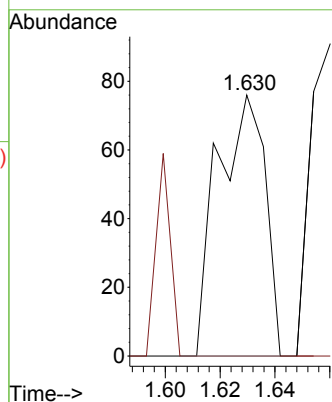
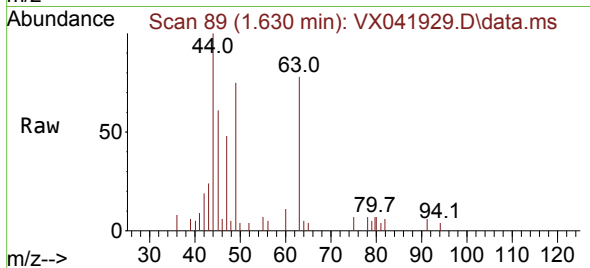




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.630 min Scan# 89  
Delta R.T. -0.030 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

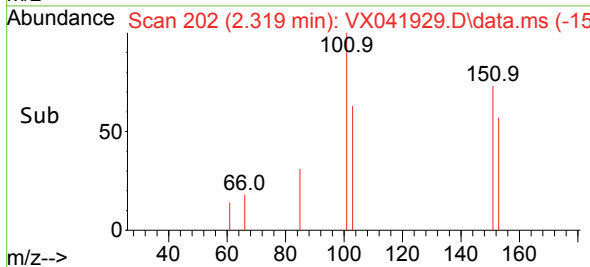
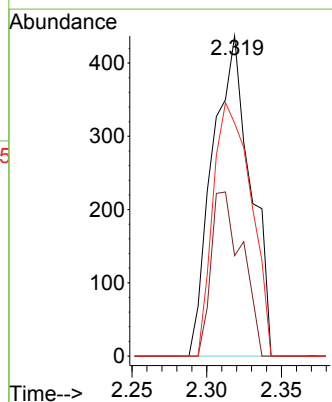
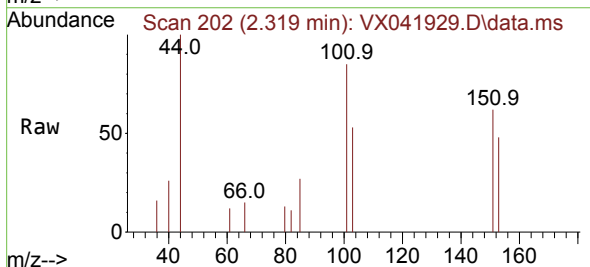
Instrument :  
MSVOA\_X  
ClientSampleId :

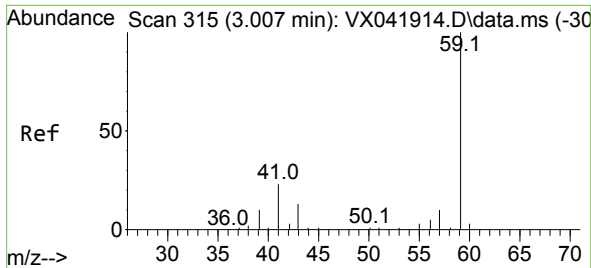
Tgt Ion: 64 Resp: 91  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.649 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. 0.006 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

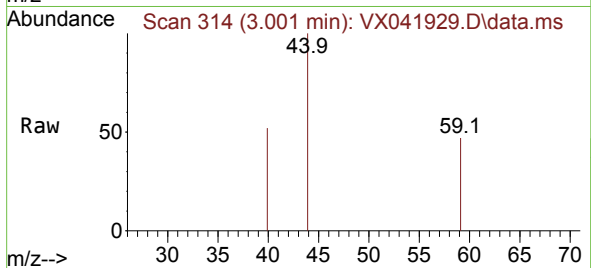
Tgt Ion: 101 Resp: 771  
Ion Ratio Lower Upper  
101 100  
85 41.9 37.0 55.6  
151 79.0 58.6 87.8



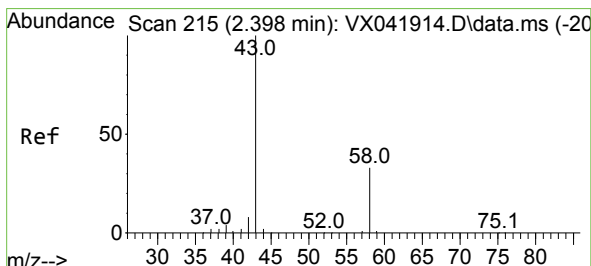
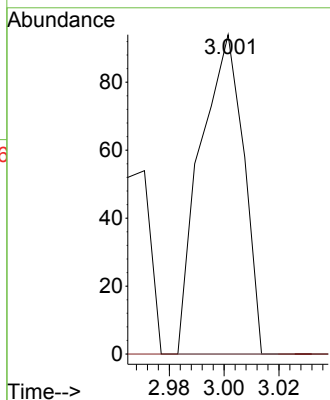
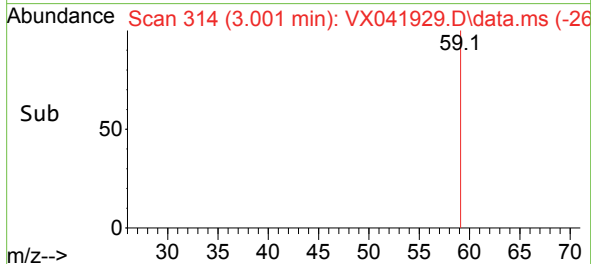


#11  
Tert butyl alcohol  
Concen: 0.343 ug/l  
RT: 3.001 min Scan# 315  
Delta R.T. -0.006 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

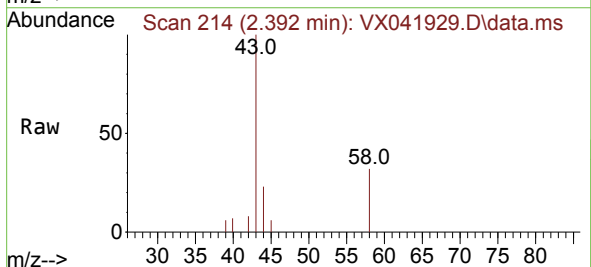
Instrument :  
MSVOA\_X  
ClientSampleId :



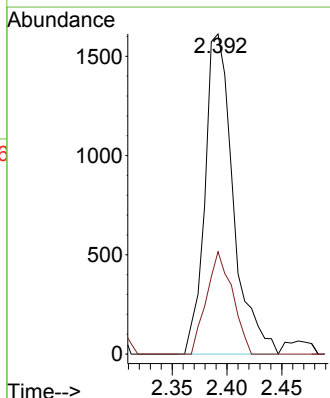
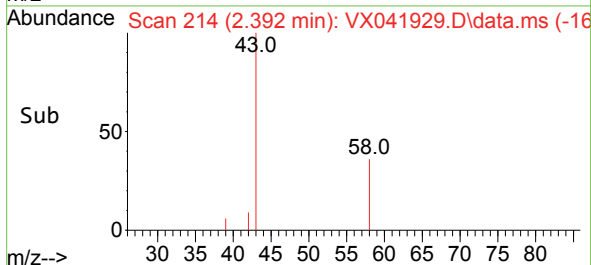
Tgt Ion: 59 Resp: 103  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

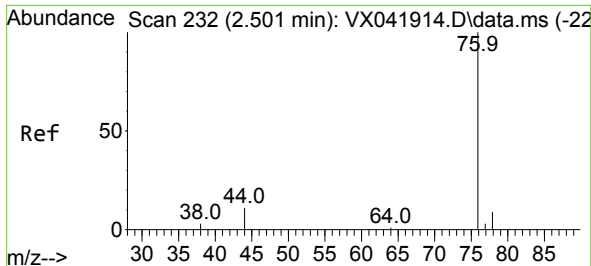


#16  
Acetone  
Concen: 4.163 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.006 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35



Tgt Ion: 43 Resp: 2895  
Ion Ratio Lower Upper  
43 100  
58 32.0 21.9 32.9





#17

Carbon Disulfide

Concen: 0.212 ug/l

RT: 2.508 min Scan# 21

Delta R.T. 0.006 min

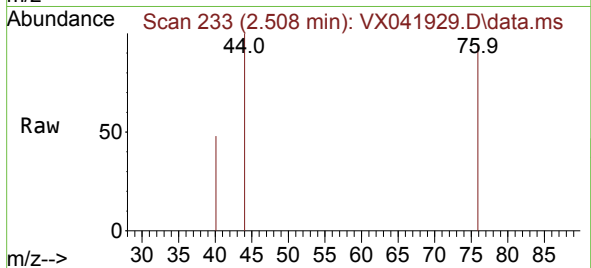
Lab File: VX041929.D

Acq: 18 Jun 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

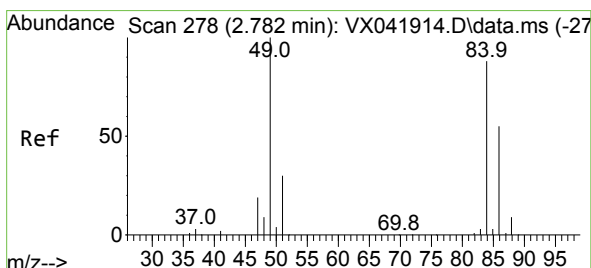
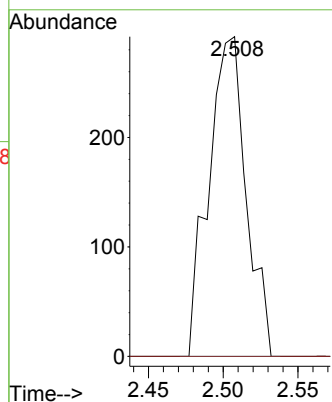


Tgt Ion: 76 Resp: 511

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#20

Methylene Chloride

Concen: 0.481 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX041929.D

Acq: 18 Jun 2024 17:35

Tgt Ion: 84 Resp: 733

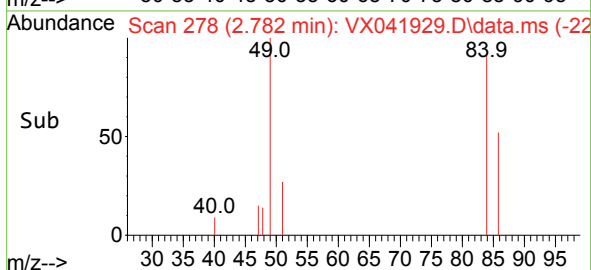
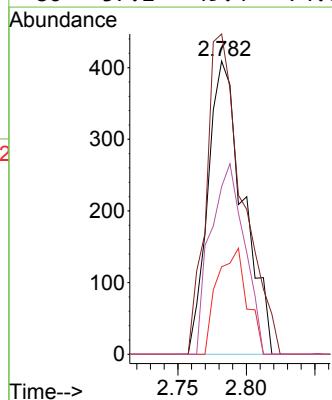
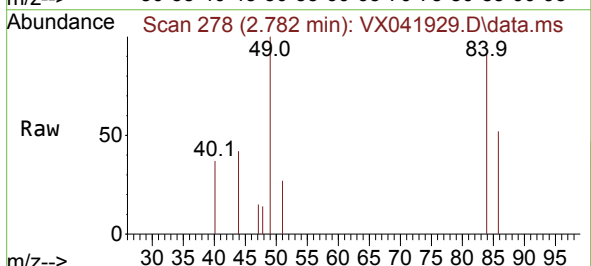
Ion Ratio Lower Upper

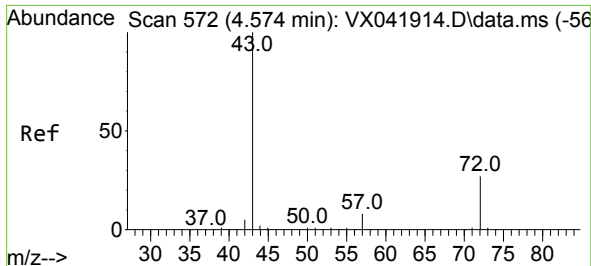
84 100

49 109.3 103.6 155.4

51 29.8 33.8 50.6#

86 57.2 49.4 74.0

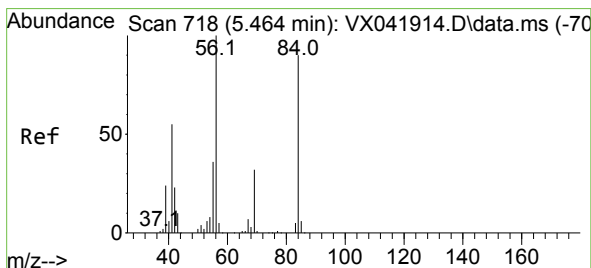
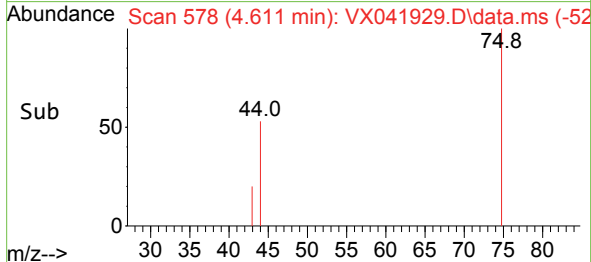
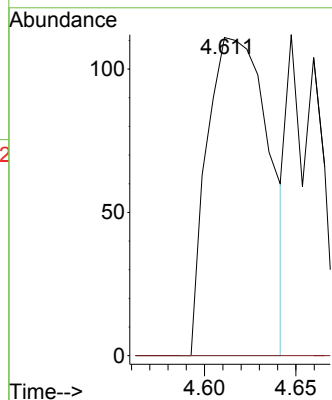
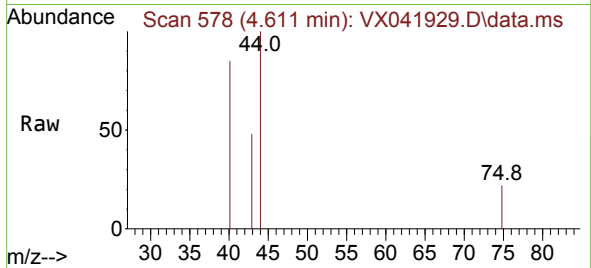




#25  
2-Butanone  
Concen: 0.240 ug/l  
RT: 4.611 min Scan# 51  
Delta R.T. 0.037 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

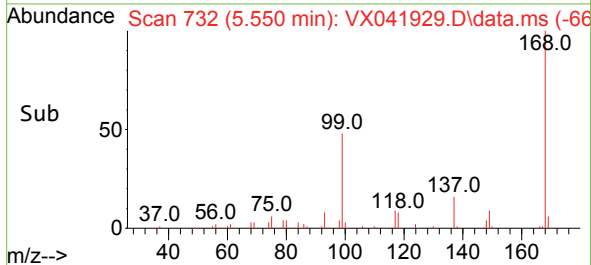
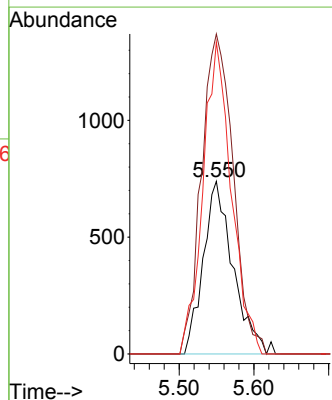
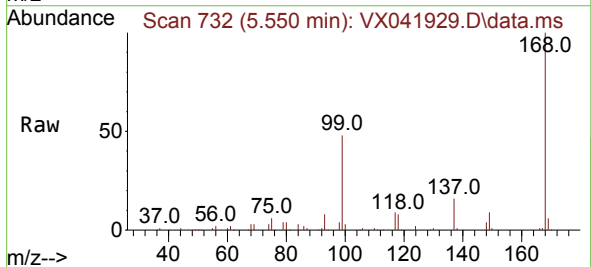
Instrument :  
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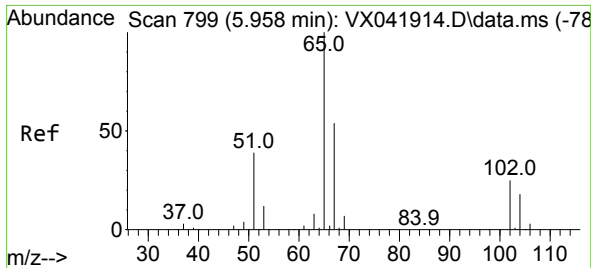
Tgt Ion: 43 Resp: 260  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



#31  
Cyclohexane  
Concen: 1.107 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.085 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

Tgt Ion: 56 Resp: 2051  
Ion Ratio Lower Upper  
56 100  
69 185.4 23.4 35.2#  
84 180.6 65.9 98.9#

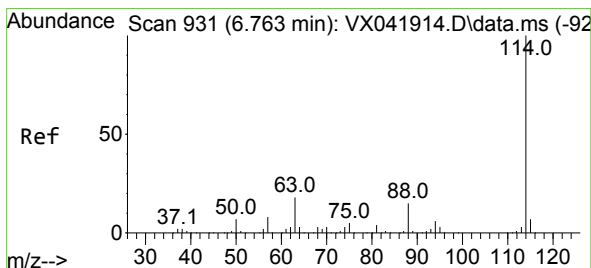
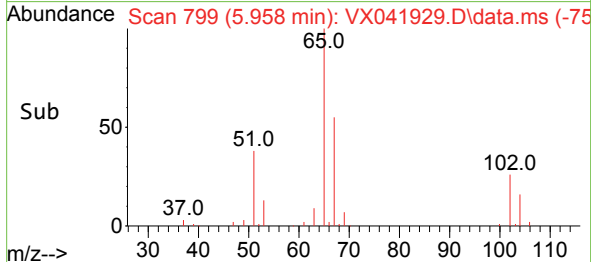
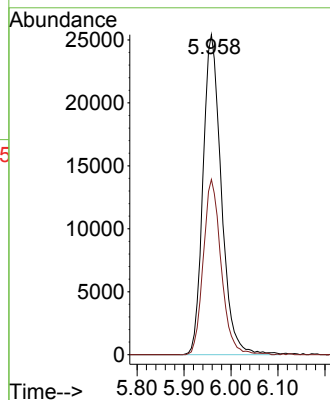
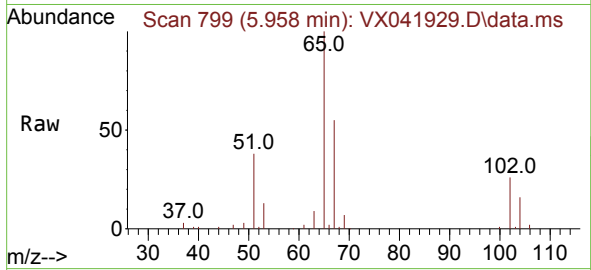




#33  
 1,2-Dichloroethane-d4  
 Concen: 43.456 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX041929.D  
 Acq: 18 Jun 2024 17:35

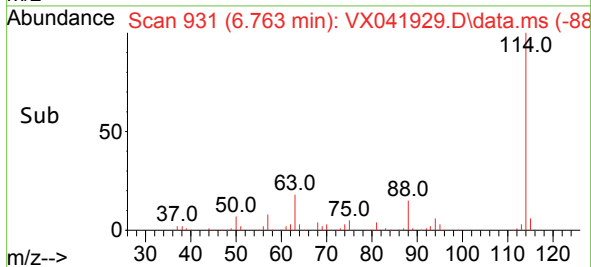
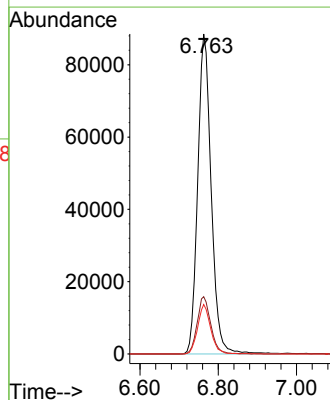
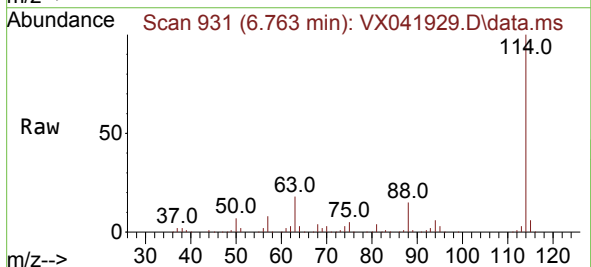
Instrument :  
 MSVOA\_X  
 ClientSampleId :

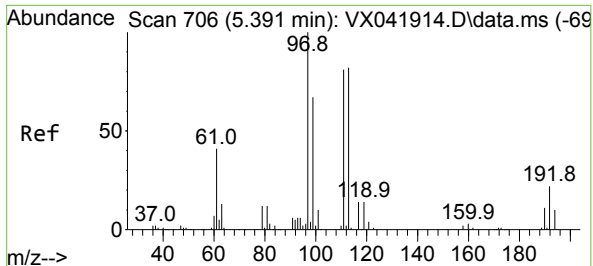
Tgt Ion: 65 Resp: 68829  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: VX041929.D  
 Acq: 18 Jun 2024 17:35

Tgt Ion: 114 Resp: 212041  
 Ion Ratio Lower Upper  
 114 100  
 63 17.9 0.0 45.0  
 88 15.5 0.0 36.6

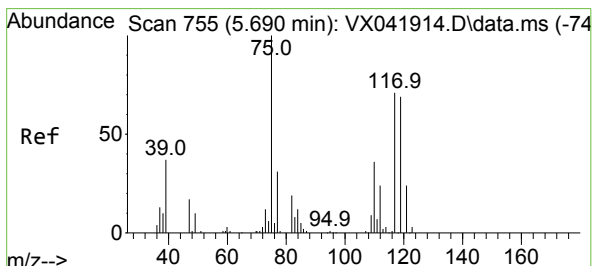
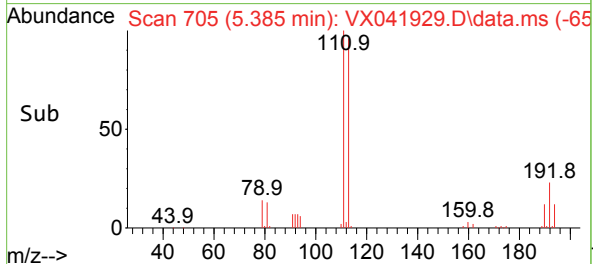
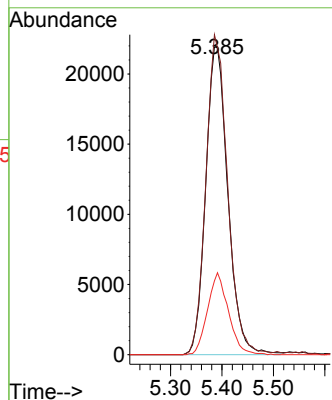
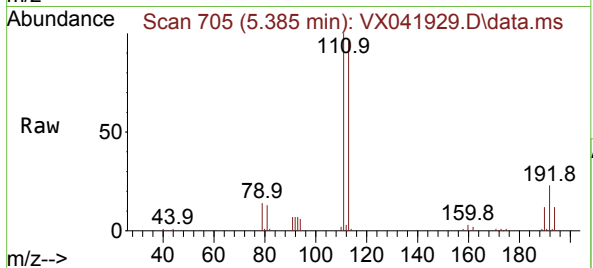




#35  
Dibromofluoromethane  
Concen: 43.758 ug/l  
RT: 5.385 min Scan# 706  
Delta R.T. -0.006 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

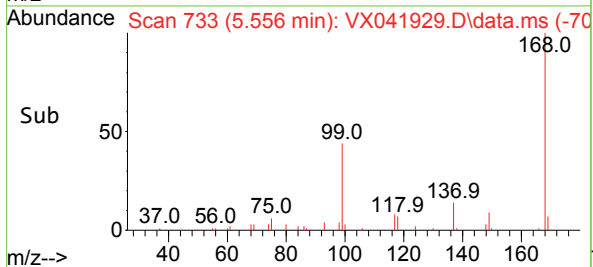
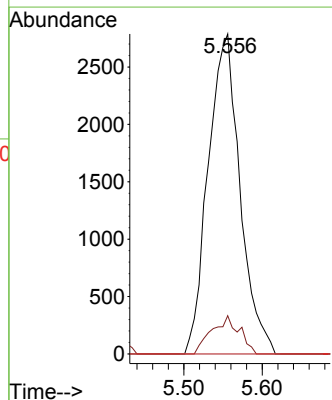
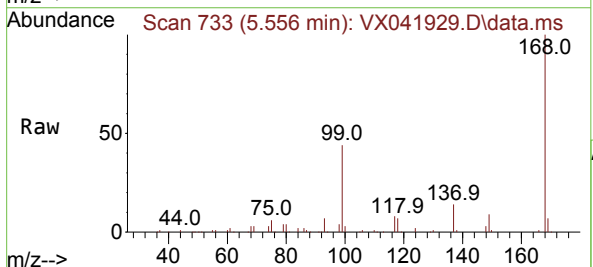
Instrument :  
MSVOA\_X  
ClientSampleId :

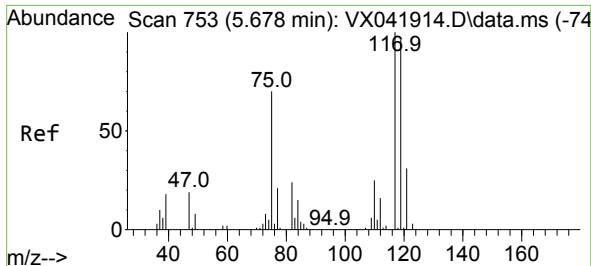
Tgt Ion:113 Resp: 65836  
Ion Ratio Lower Upper  
113 100  
111 101.7 82.9 124.3  
192 25.0 13.3 19.9#



#36  
1,1-Dichloropropene  
Concen: 4.923 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

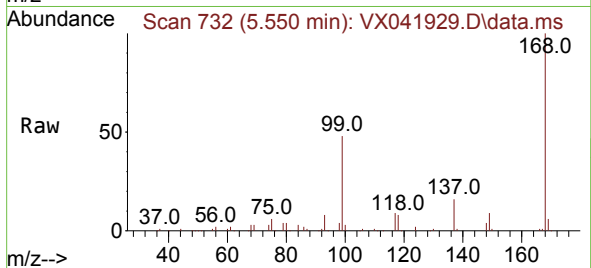
Tgt Ion: 75 Resp: 7866  
Ion Ratio Lower Upper  
75 100  
110 10.3 17.0 50.9#  
77 0.0 24.7 37.1#



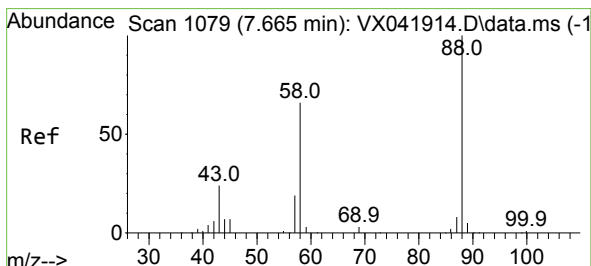
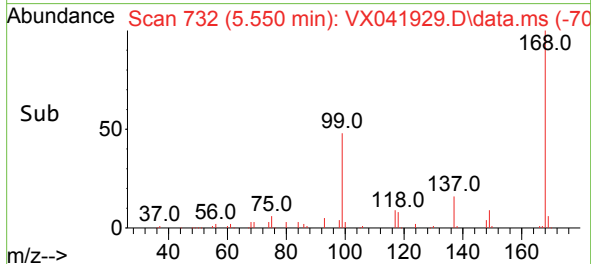
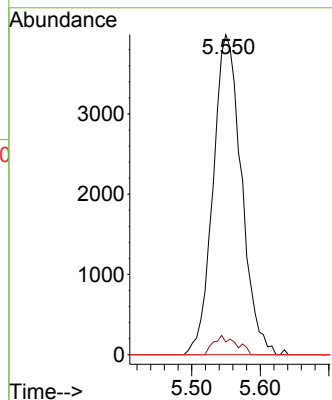


#38  
Carbon Tetrachloride  
Concen: 6.486 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

Instrument :  
MSVOA\_X  
ClientSampleId :

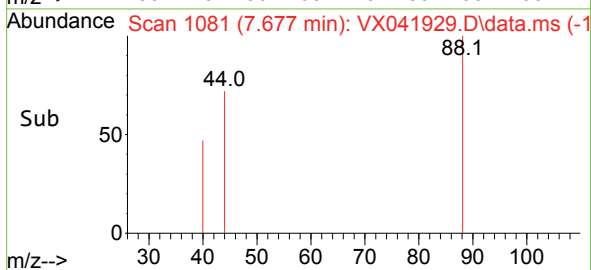
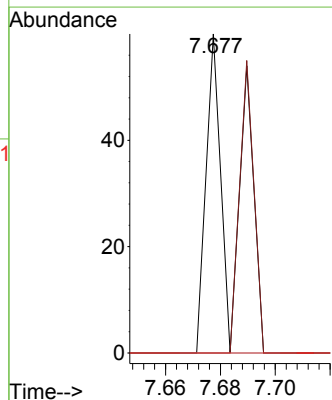
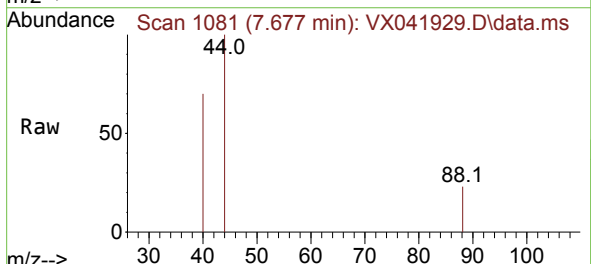


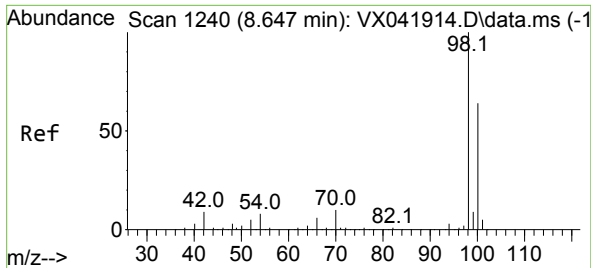
Tgt Ion:117 Resp: 11450  
Ion Ratio Lower Upper  
117 100  
119 4.0 78.2 117.2#  
121 0.0 24.4 36.6#



#49  
1,4-Dioxane  
Concen: 20.952 ug/l  
RT: 7.677 min Scan# 1081  
Delta R.T. 0.012 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

Tgt Ion: 88 Resp: 42  
Ion Ratio Lower Upper  
88 100  
43 47.6 0.0 0.0#  
58 0.0 60.1 90.1#

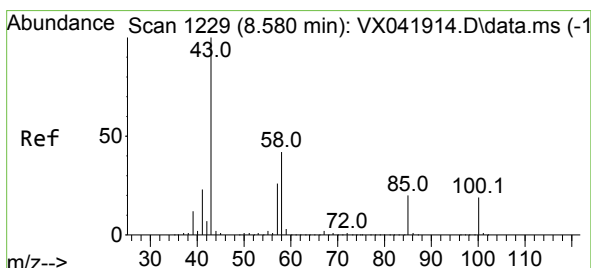
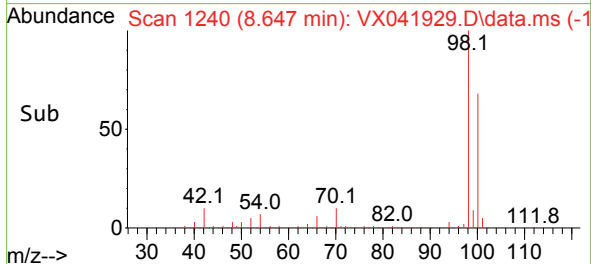
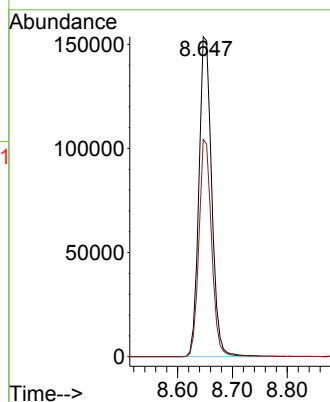
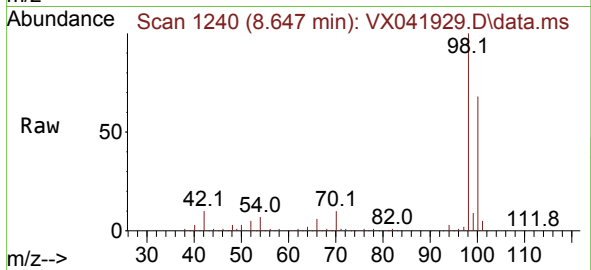




#50  
Toluene-d8  
Concen: 47.327 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

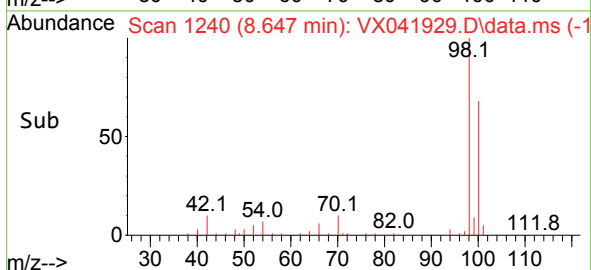
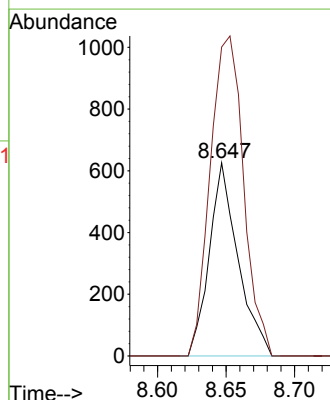
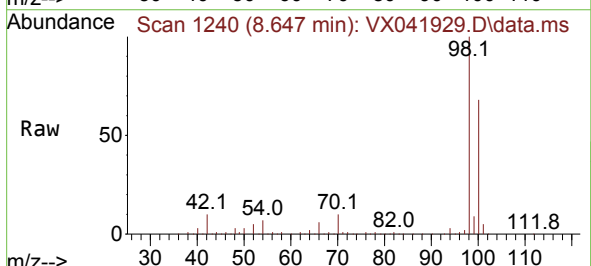
Instrument :  
MSVOA\_X  
ClientSampleId :

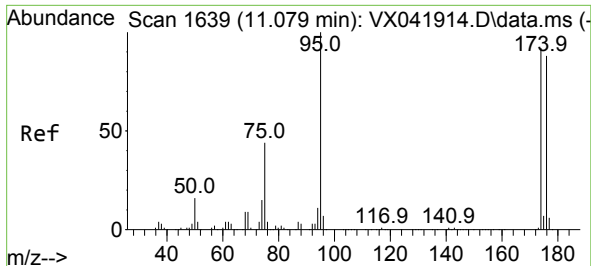
Tgt Ion: 98 Resp: 250148  
Ion Ratio Lower Upper  
98 100  
100 67.1 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.414 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.067 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

Tgt Ion: 43 Resp: 911  
Ion Ratio Lower Upper  
43 100  
58 192.8 30.4 45.6#

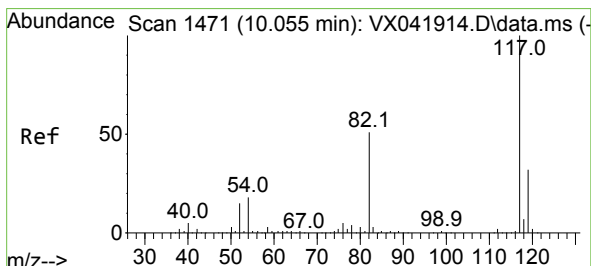
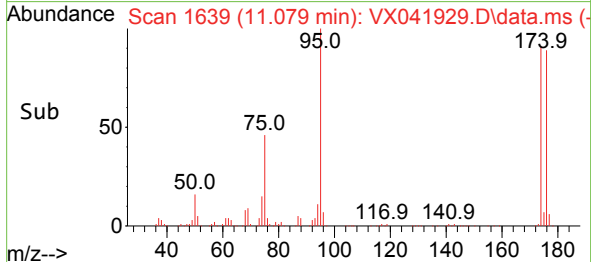
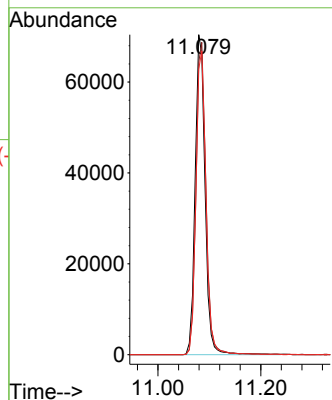
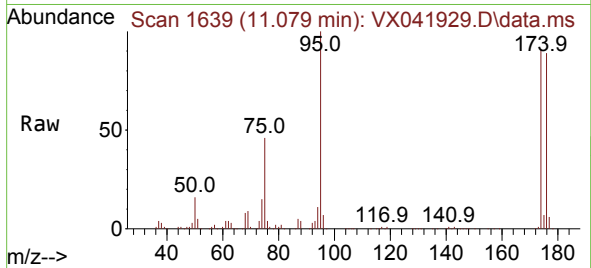




#62  
4-Bromofluorobenzene  
Concen: 48.311 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

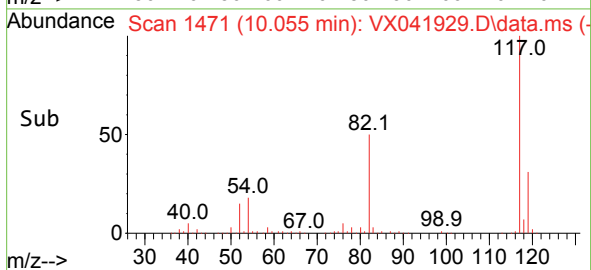
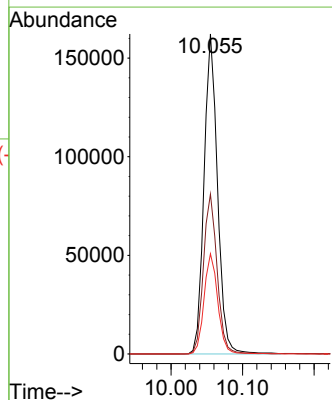
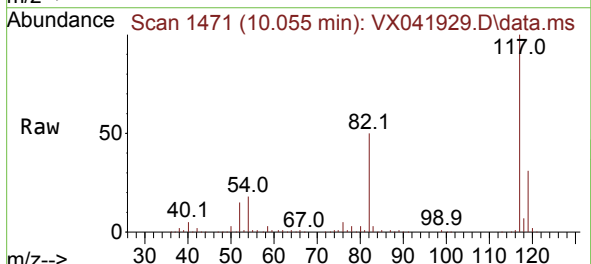
Instrument :  
MSVOA\_X  
ClientSampleId :

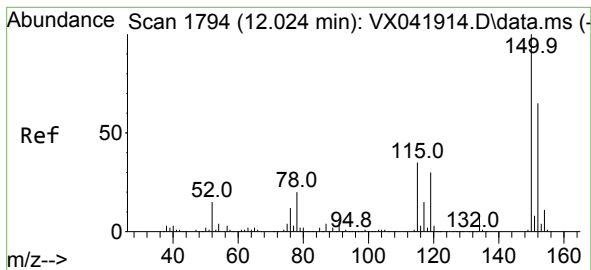
Tgt Ion: 95 Resp: 94128  
Ion Ratio Lower Upper  
95 100  
174 98.3 0.0 135.6  
176 96.4 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

Tgt Ion: 117 Resp: 212571  
Ion Ratio Lower Upper  
117 100  
82 49.9 46.2 69.4  
119 31.3 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX041929.D

Acq: 18 Jun 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

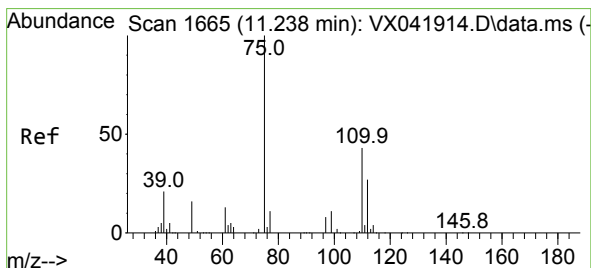
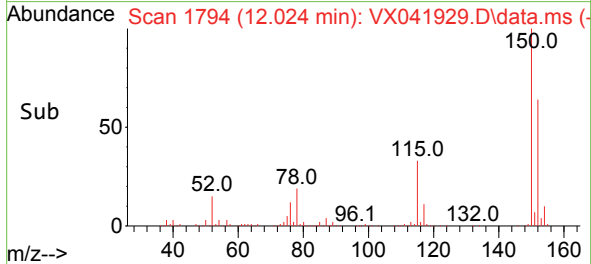
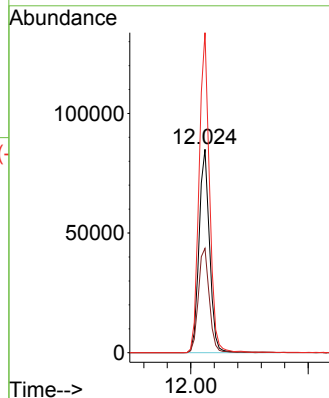
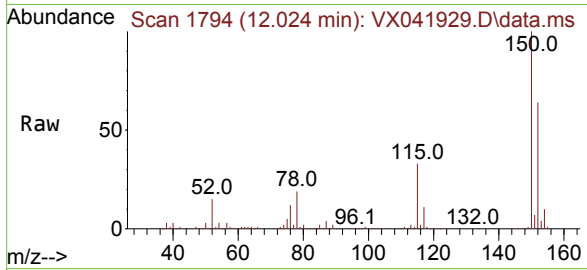
Tgt Ion:152 Resp: 105913

Ion Ratio Lower Upper

152 100

115 53.3 43.3 129.9

150 154.9 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 22.312 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX041929.D

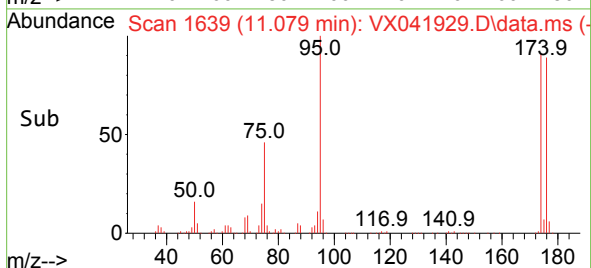
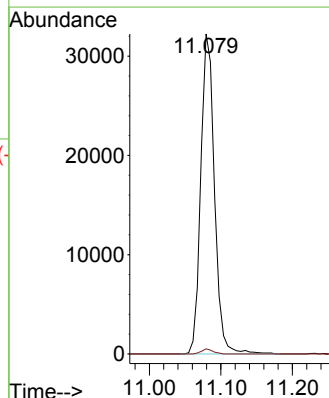
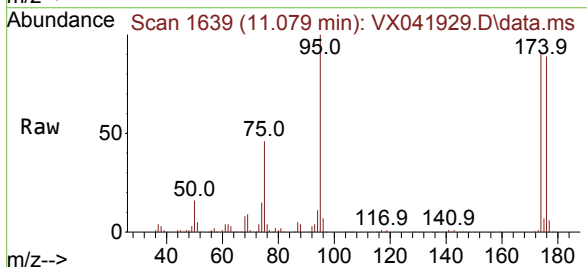
Acq: 18 Jun 2024 17:35

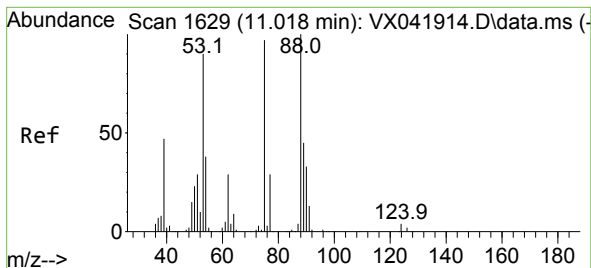
Tgt Ion: 75 Resp: 42900

Ion Ratio Lower Upper

75 100

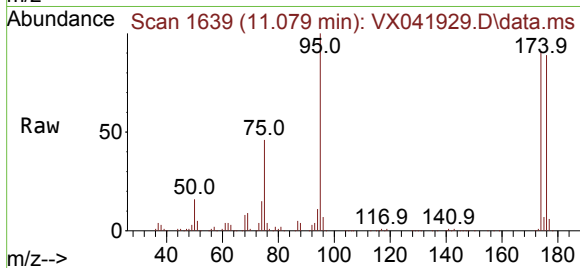
77 1.3 19.1 57.5#



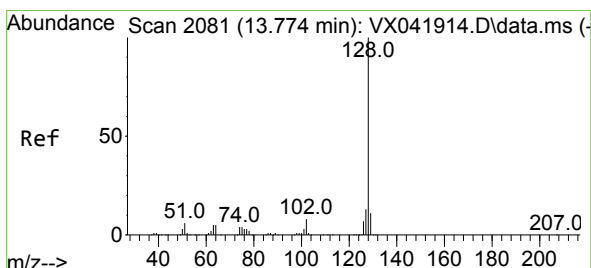
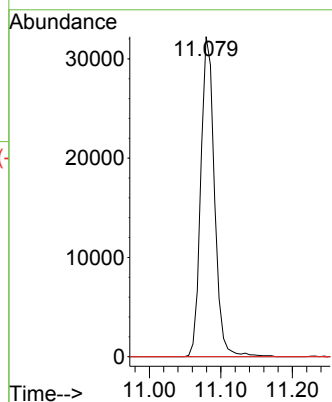
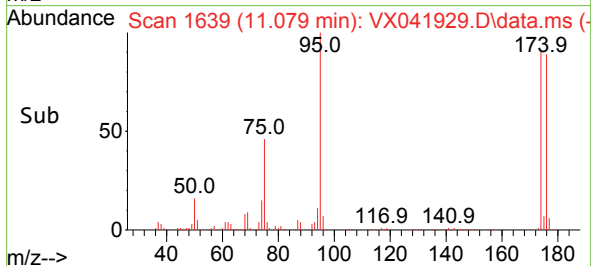


#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.364 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35

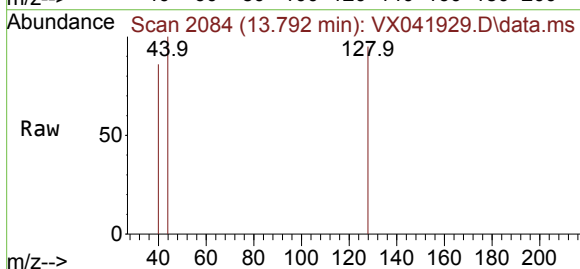
Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 42900  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#95  
Naphthalene  
Concen: 0.783 ug/l  
RT: 13.792 min Scan# 2084  
Delta R.T. 0.018 min  
Lab File: VX041929.D  
Acq: 18 Jun 2024 17:35



Tgt Ion: 128 Resp: 271  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

