

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051923\  
 Data File : VX035771.D  
 Acq On : 19 May 2023 19:23  
 Operator : JC/MD  
 Sample : 02860-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FSND-EQB-12-05172023

Quant Time: May 22 05:20:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 11 13:57:54 2023  
 Response via : Initial Calibration

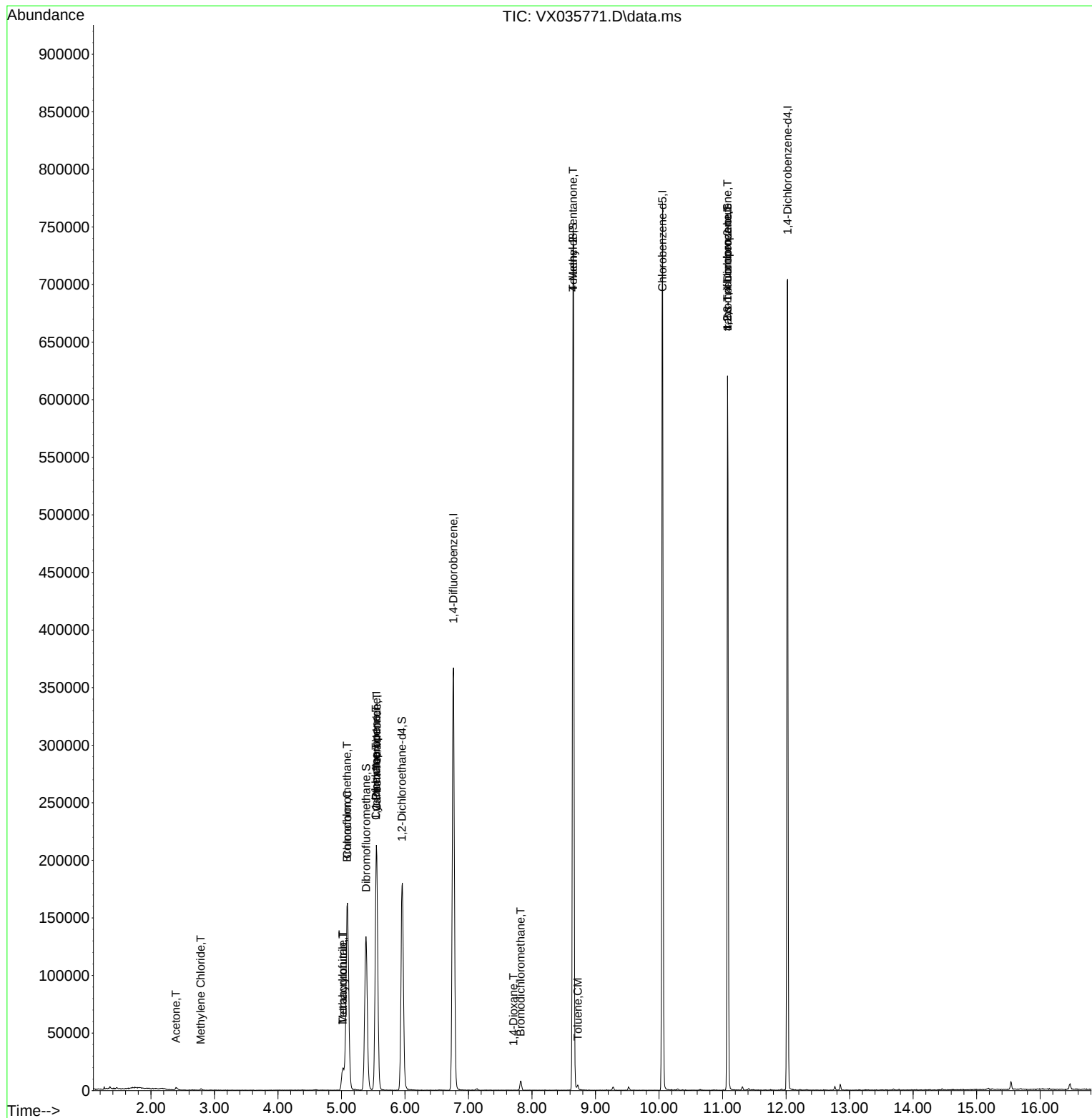
| Compound                      | R.T.           | QIon | Response             | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|----------------------|--------|-------|----------|
| -----                         |                |      |                      |        |       |          |
| Internal Standards            |                |      |                      |        |       |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 178473               | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 347371               | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 308808               | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 134222               | 50.000 | ug/l  | 0.00     |
|                               |                |      |                      |        |       |          |
| System Monitoring Compounds   |                |      |                      |        |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 182743               | 58.693 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 117.380%# |        |       |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 115928               | 49.486 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 98.980%   |        |       |          |
| 50) Toluene-d8                | 8.647          | 98   | 413960               | 47.832 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 95.660%   |        |       |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 160493               | 46.058 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 92.120%   |        |       |          |
|                               |                |      |                      |        |       |          |
| Target Compounds              |                |      |                      |        |       |          |
|                               |                |      |                      |        |       | Qvalue   |
| 16) Acetone                   | 2.392          | 43   | 3203                 | 2.394  | ug/l  | # 84     |
| 20) Methylene Chloride        | 2.782          | 84   | 530                  | 0.219  | ug/l  | # 73     |
| 28) Bromochloromethane        | 5.086          | 49   | 16636                | 8.295  | ug/l  | # 15     |
| 29) Tetrahydrofuran           | 5.019          | 42   | 21003                | 18.039 | ug/l  | 95       |
| 30) Chloroform                | 5.092          | 83   | 183630               | 40.191 | ug/l  | 100      |
| 31) Cyclohexane               | 5.543          | 56   | 4797                 | 1.219  | ug/l  | # 33     |
| 36) 1,1-Dichloropropene       | 5.543          | 75   | 17417                | 4.710  | ug/l  | # 49     |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 20909                | 5.969  | ug/l  | # 15     |
| 41) Methacrylonitrile         | 5.019          | 41   | 13224                | 5.775  | ug/l  | # 47     |
| 47) Bromodichloromethane      | 7.817          | 83   | 4947                 | 1.365  | ug/l  | 95       |
| 49) 1,4-Dioxane               | 7.708          | 88   | 52                   | 2.707  | ug/l  | # 23     |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 2014                 | 0.520  | ug/l  | # 1      |
| 52) Toluene                   | 8.720          | 92   | 1449                 | 0.222  | ug/l  | 84       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 90226                | 27.482 | ug/l  | # 34     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 90226                | 88.570 | ug/l  | # 8      |
| -----                         |                |      |                      |        |       |          |

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

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Acq On : 19 May 2023 19:23  
Operator : JC/MD  
Sample : 02860-17  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

Quant Time: May 22 05:20:34 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051123W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 11 13:57:54 2023  
Response via : Initial Calibration

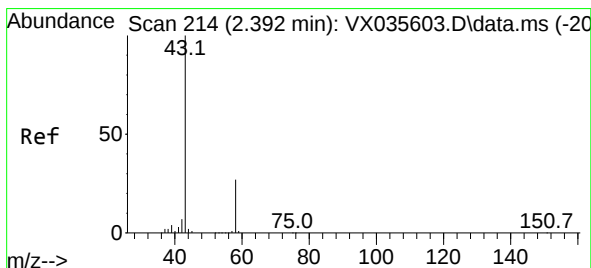
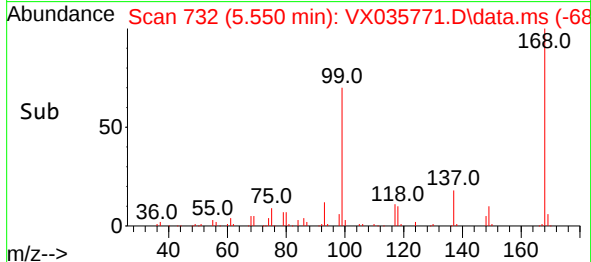
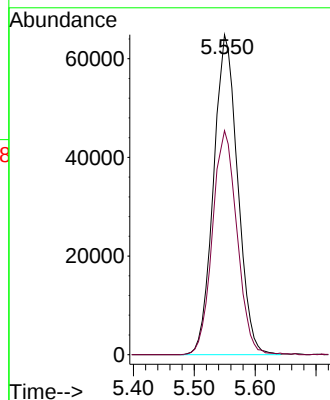
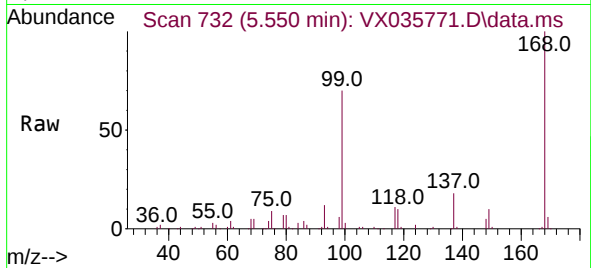




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

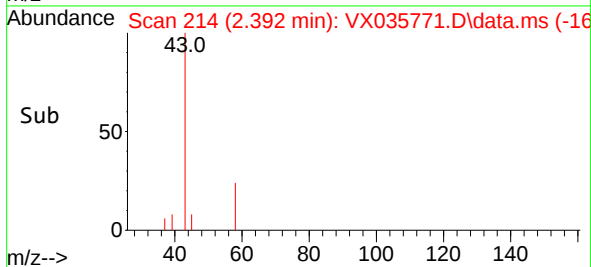
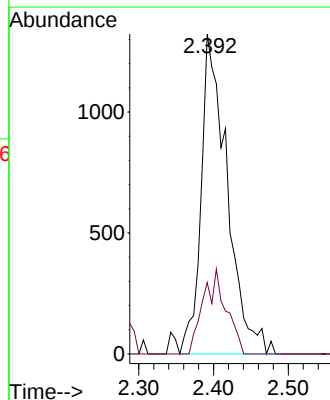
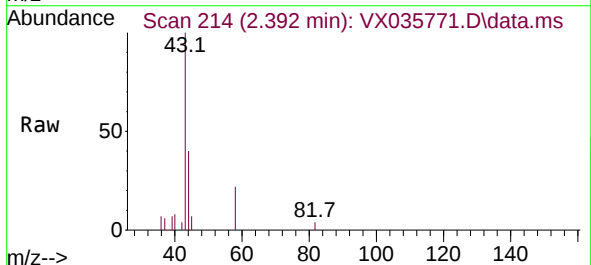
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

Tgt Ion:168 Resp: 178473  
Ion Ratio Lower Upper  
168 100  
99 70.0 45.7 68.5#



#16  
Acetone  
Concen: 2.394 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Tgt Ion: 43 Resp: 3203  
Ion Ratio Lower Upper  
43 100  
58 22.3 24.7 37.1#

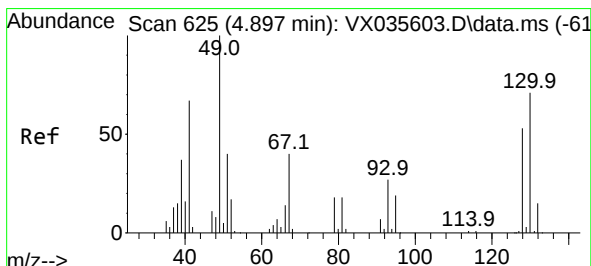
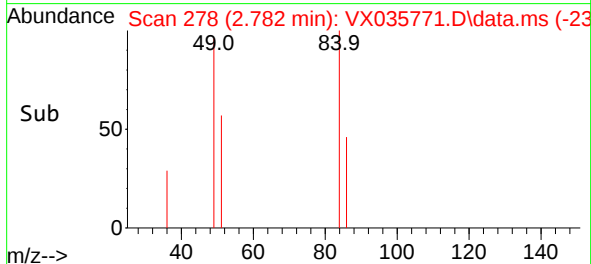
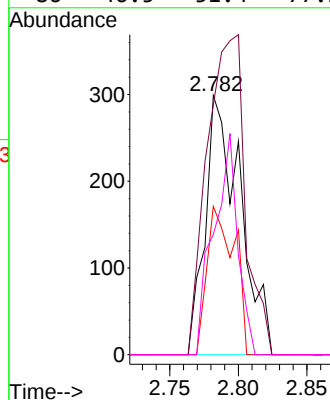
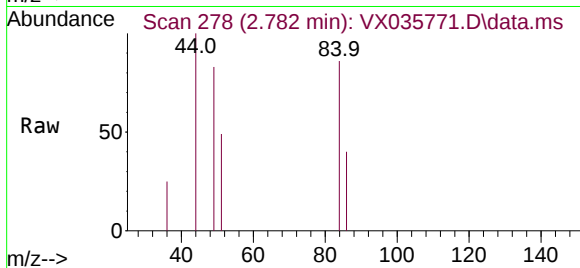




#20  
Methylene Chloride  
Concen: 0.219 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

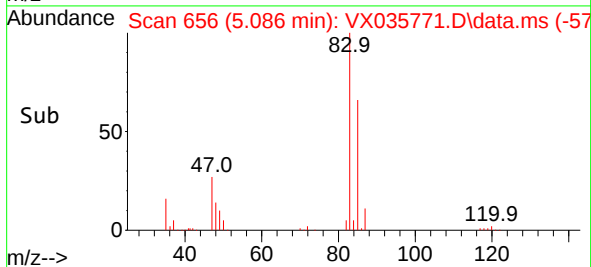
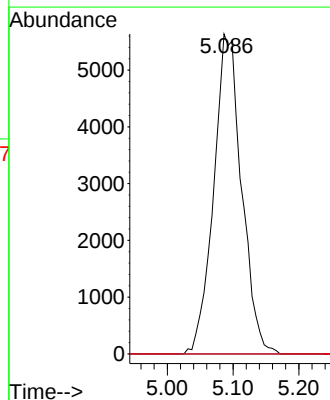
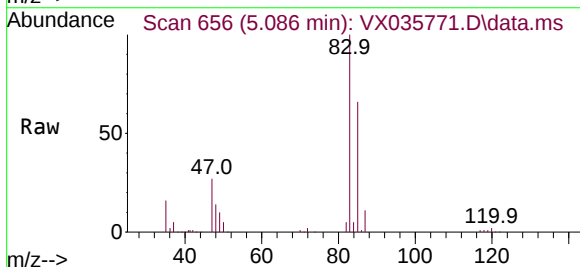
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

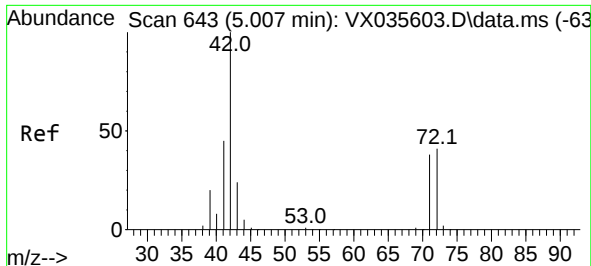
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 530    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 96.3  | 103.8 | 155.8# |
| 51       | 57.2  | 31.8  | 47.8#  |
| 86       | 46.5  | 51.4  | 77.2#  |



#28  
Bromochloromethane  
Concen: 8.295 ug/l  
RT: 5.086 min Scan# 656  
Delta R.T. 0.189 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 16636 |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 0.0   | 0.0   | 4.0   |
| 130      | 0.0   | 58.2  | 87.2# |





#29

Tetrahydrofuran

Concen: 18.039 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX035771.D

Acq: 19 May 2023 19:23

Instrument :

MSVOA\_X

ClientSampleId :

FSND-EQB-12-05172023

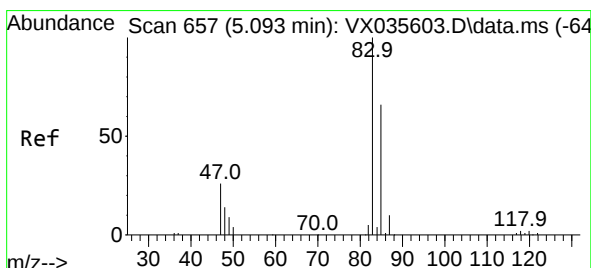
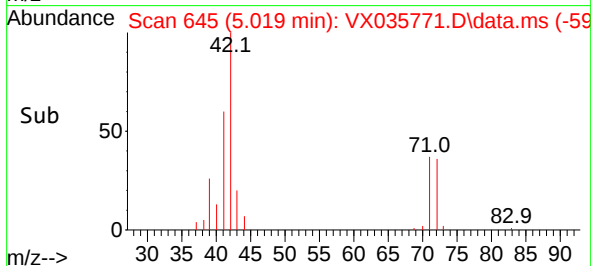
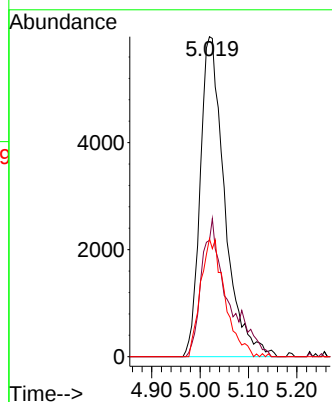
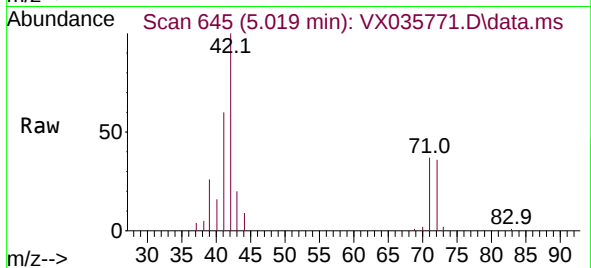
Tgt Ion: 42 Resp: 21003

Ion Ratio Lower Upper

42 100

72 45.9 34.5 51.7

71 36.6 32.1 48.1



#30

Chloroform

Concen: 40.191 ug/l

RT: 5.092 min Scan# 657

Delta R.T. -0.001 min

Lab File: VX035771.D

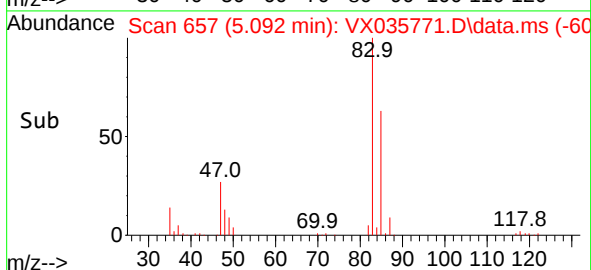
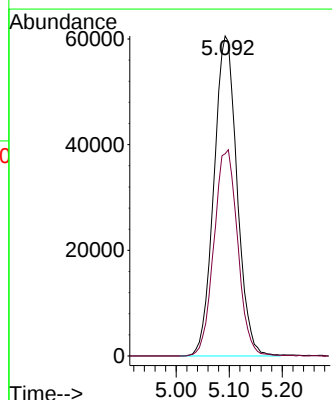
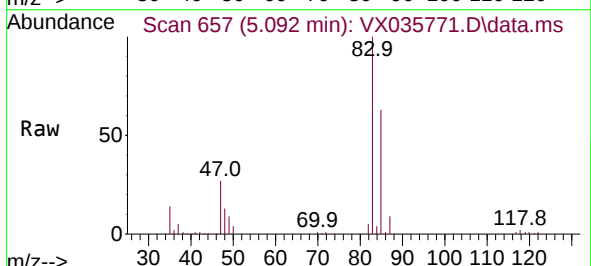
Acq: 19 May 2023 19:23

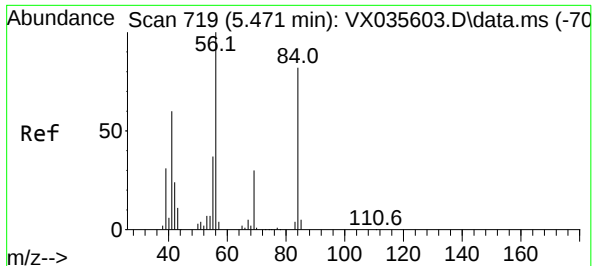
Tgt Ion: 83 Resp: 183630

Ion Ratio Lower Upper

83 100

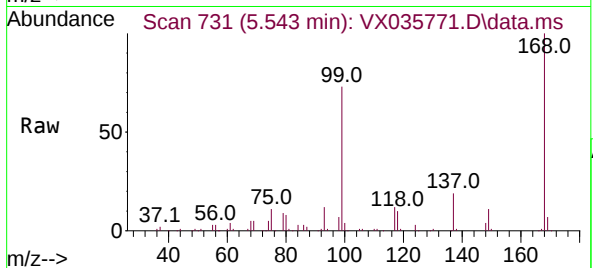
85 63.2 50.6 76.0





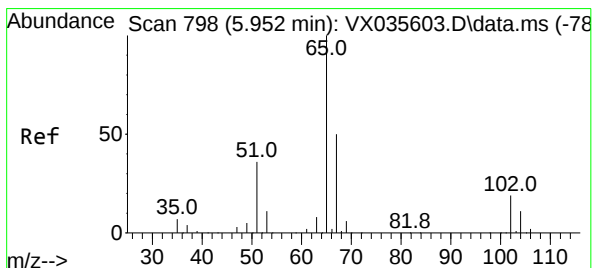
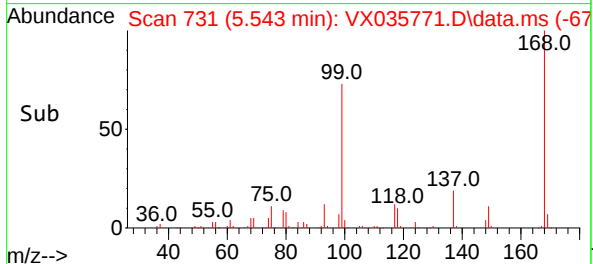
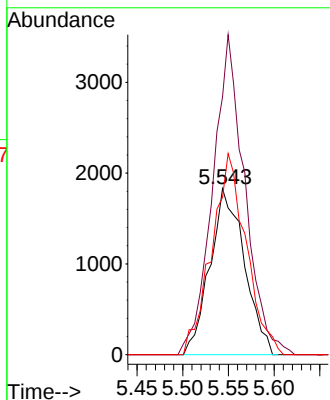
#31  
Cyclohexane  
Concen: 1.219 ug/l  
RT: 5.543 min Scan# 719  
Delta R.T. 0.072 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023



Tgt Ion: 56 Resp: 4797

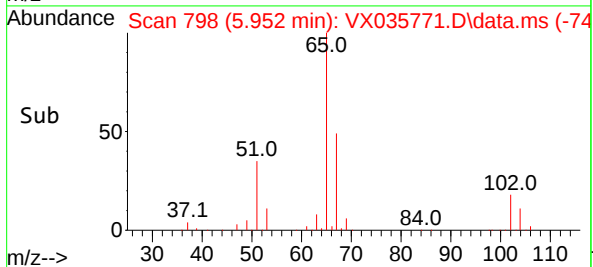
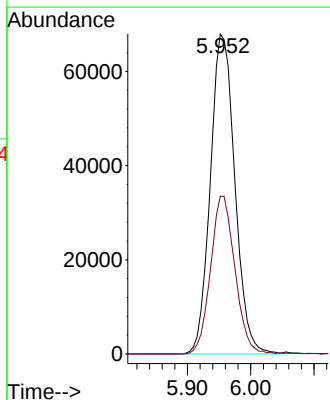
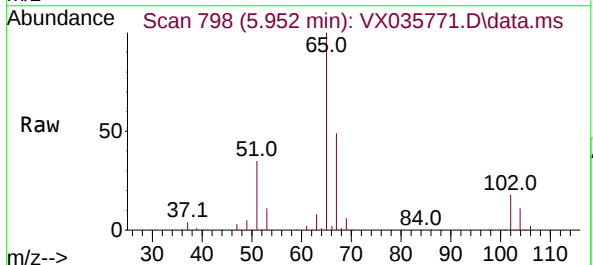
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 155.0 | 23.7  | 35.5# |
| 84  | 94.6  | 68.5  | 102.7 |

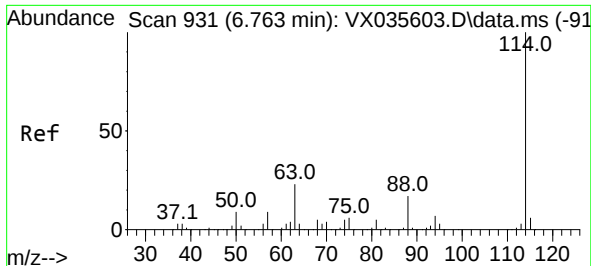


#33  
1,2-Dichloroethane-d4  
Concen: 58.693 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Tgt Ion: 65 Resp: 182743

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 49.2  | 0.0   | 104.0 |

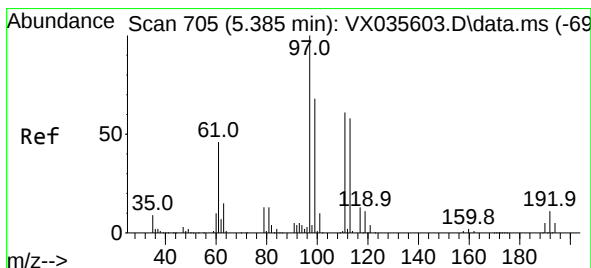
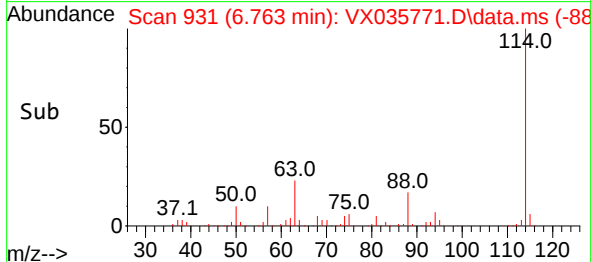
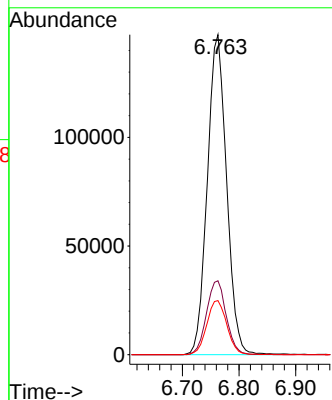
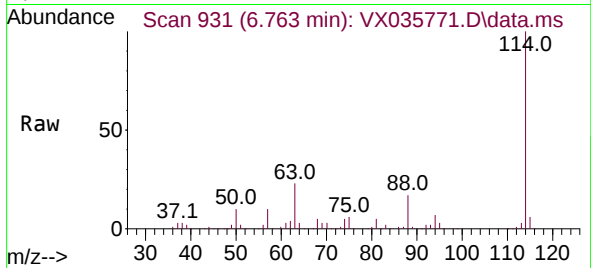




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

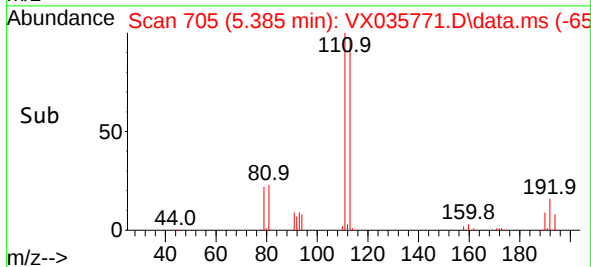
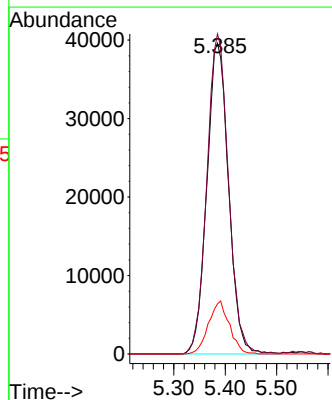
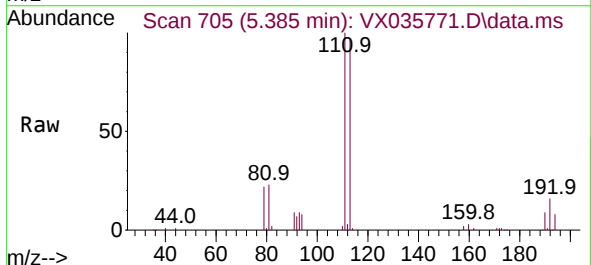
Instrument :  
MSVOA\_X  
ClientSampleId :  
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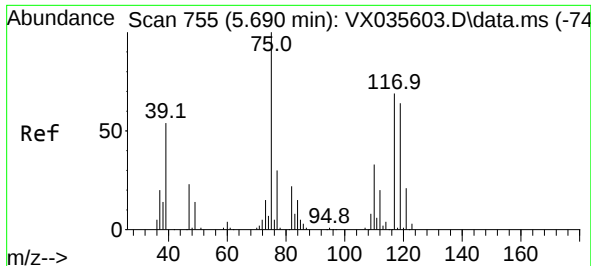
Tgt Ion:114 Resp: 347371  
Ion Ratio Lower Upper  
114 100  
63 23.1 0.0 42.2  
88 16.9 0.0 33.2



#35  
Dibromofluoromethane  
Concen: 49.486 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Tgt Ion:113 Resp: 115928  
Ion Ratio Lower Upper  
113 100  
111 102.9 83.7 125.5  
192 16.4 15.4 23.2

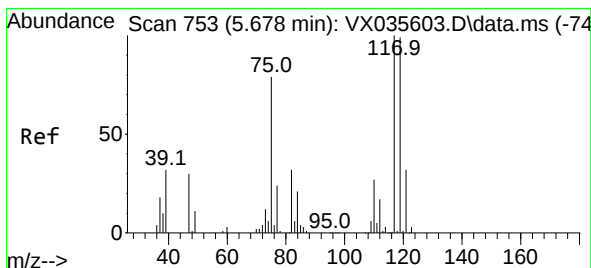
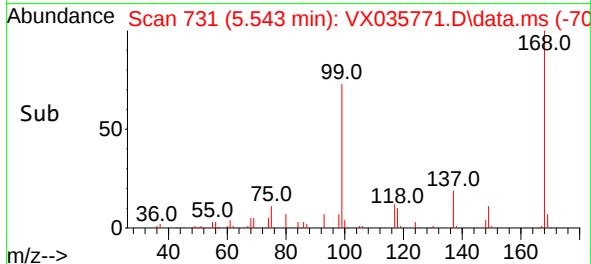
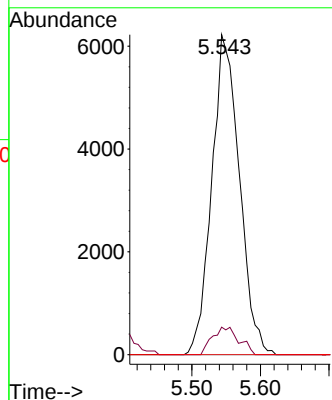
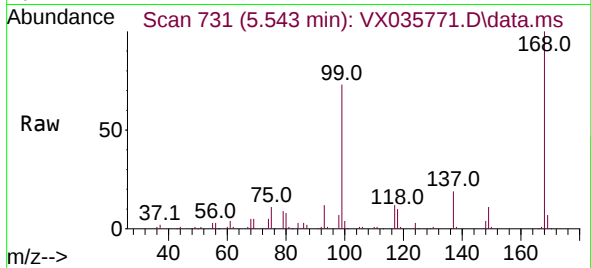




#36  
1,1-Dichloropropene  
Concen: 4.710 ug/l  
RT: 5.543 min Scan# 711  
Delta R.T. -0.147 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

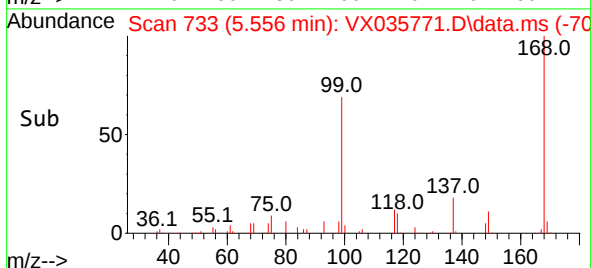
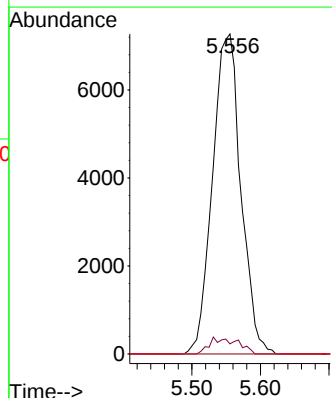
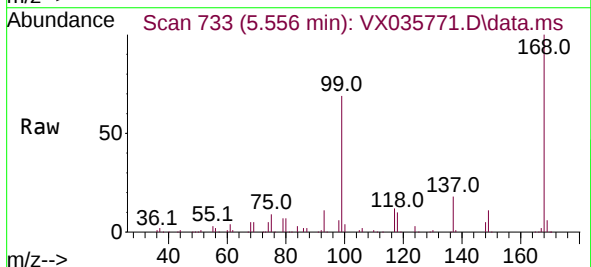
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

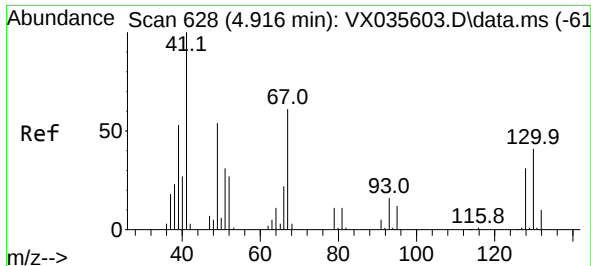
Tgt Ion: 75 Resp: 17417  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.5 52.5#  
77 0.0 24.3 36.5#



#38  
Carbon Tetrachloride  
Concen: 5.969 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Tgt Ion: 117 Resp: 20909  
Ion Ratio Lower Upper  
117 100  
119 3.1 76.6 114.8#  
121 0.0 23.8 35.6#

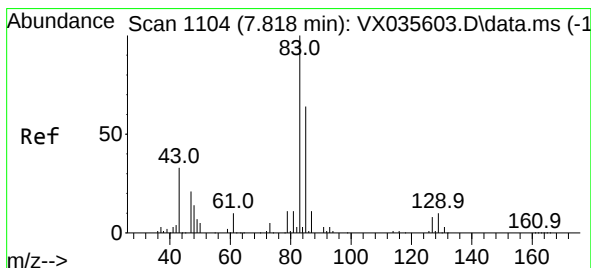
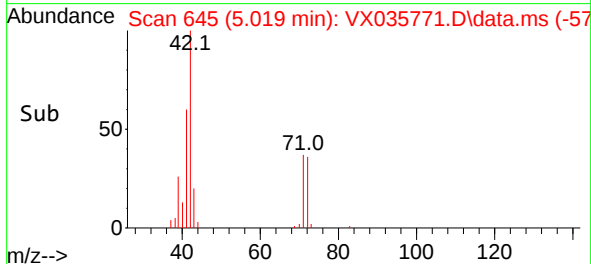
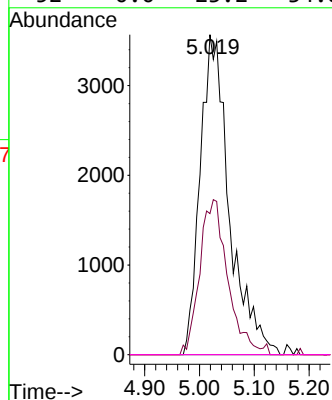
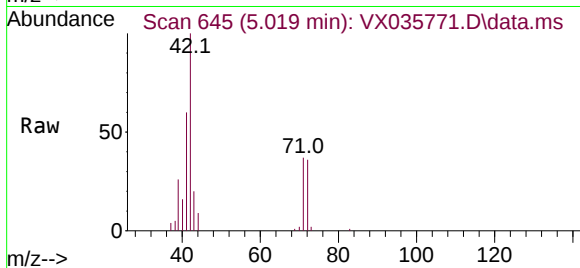




#41  
Methacrylonitrile  
Concen: 5.775 ug/l  
RT: 5.019 min Scan# 645  
Delta R.T. 0.103 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

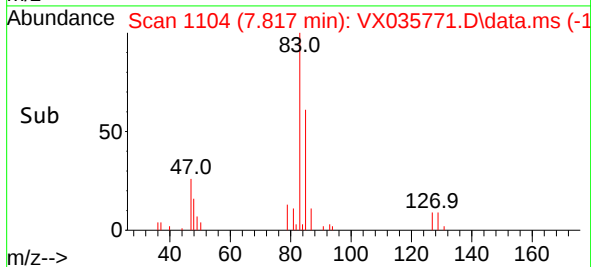
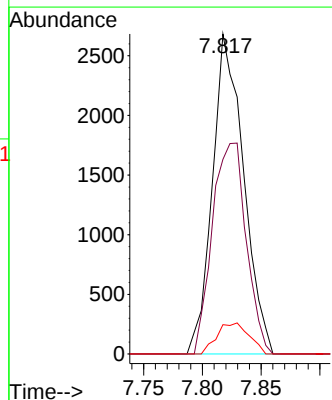
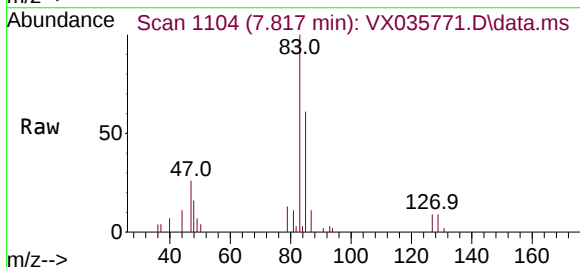
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

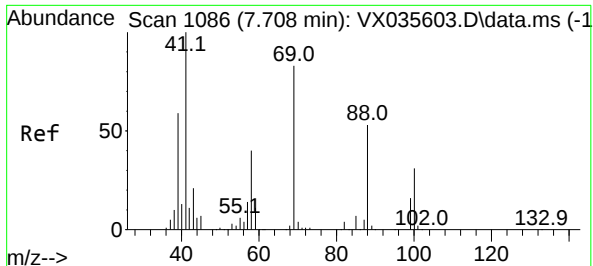
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 13224 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 46.2  | 45.0  | 67.6  |
| 67       | 0.0   | 55.6  | 83.4# |
| 52       | 0.0   | 23.2  | 34.8# |



#47  
Bromodichloromethane  
Concen: 1.365 ug/l  
RT: 7.817 min Scan# 1104  
Delta R.T. -0.001 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 4947  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 60.8  | 52.2  | 78.4  |
| 127      | 9.2   | 6.6   | 9.8   |





#49

1,4-Dioxane

Concen: 2.707 ug/l

RT: 7.708 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX035771.D

Acq: 19 May 2023 19:23

Instrument :

MSVOA\_X

ClientSampleId :

FSND-EQB-12-05172023

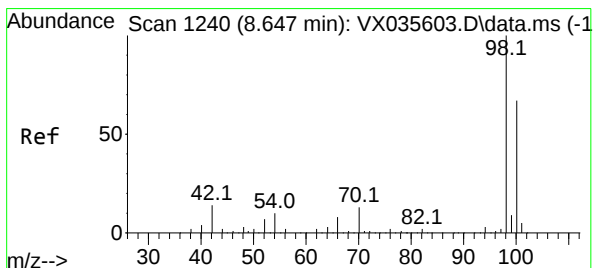
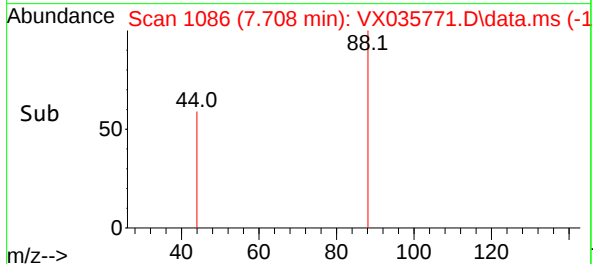
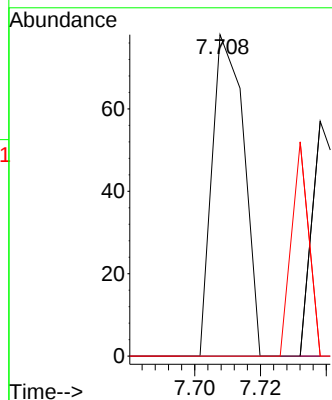
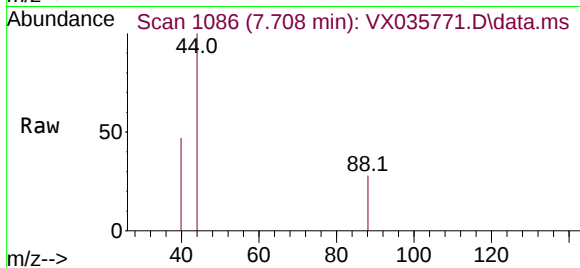
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 0.0 27.7 41.5#

58 0.0 56.8 85.2#



#50

Toluene-d8

Concen: 47.832 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX035771.D

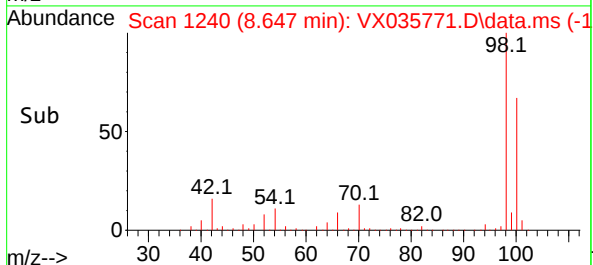
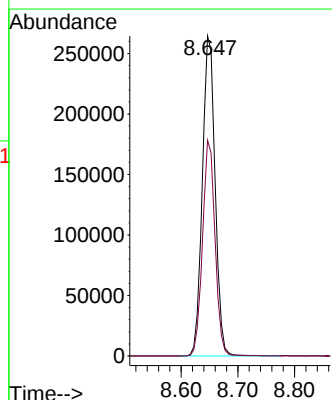
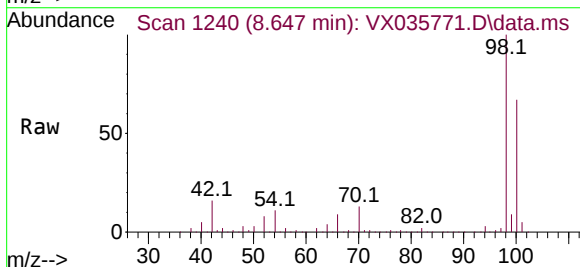
Acq: 19 May 2023 19:23

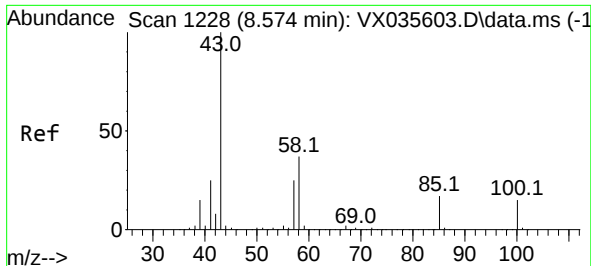
Tgt Ion: 98 Resp: 413960

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7

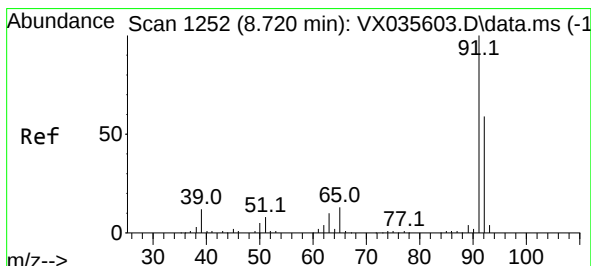
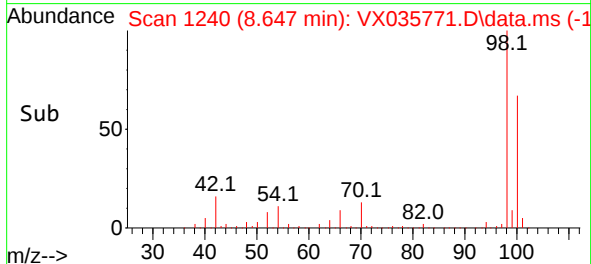
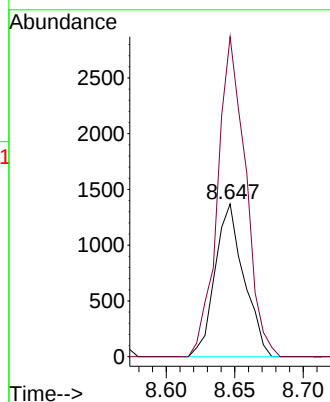
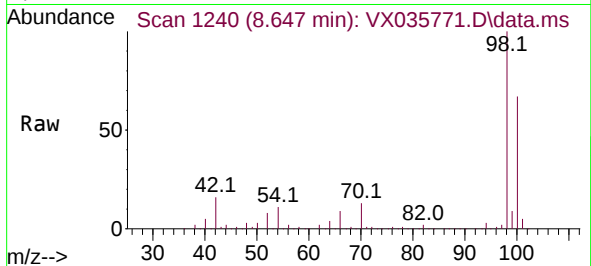




#51  
4-Methyl-2-Pentanone  
Concen: 0.520 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

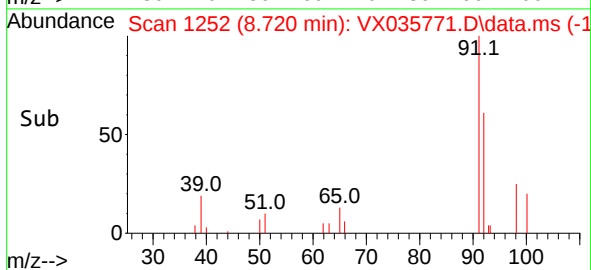
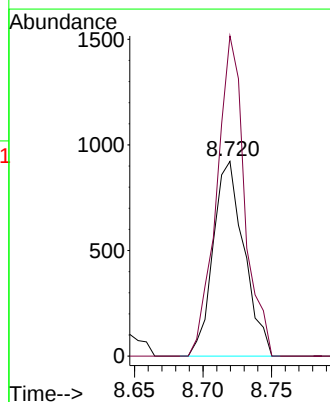
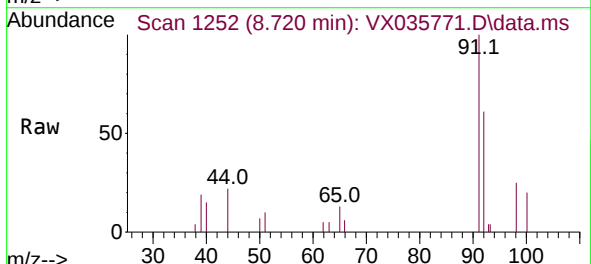
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

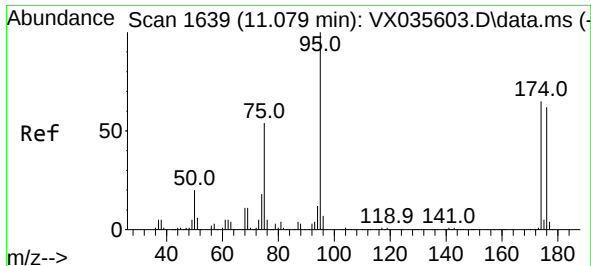
Tgt Ion: 43 Resp: 2014  
Ion Ratio Lower Upper  
43 100  
58 203.2 30.6 46.0#



#52  
Toluene  
Concen: 0.222 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Tgt Ion: 92 Resp: 1449  
Ion Ratio Lower Upper  
92 100  
91 149.3 136.8 205.2





#62

4-Bromofluorobenzene

Concen: 46.058 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX035771.D

Acq: 19 May 2023 19:23

Instrument :

MSVOA\_X

ClientSampleId :

FSND-EQB-12-05172023

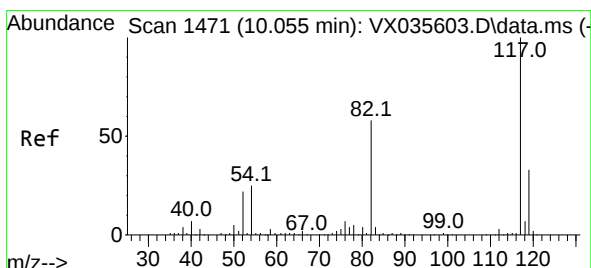
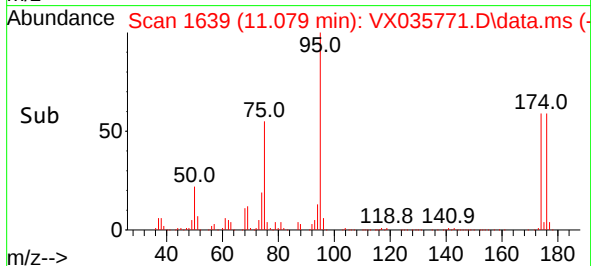
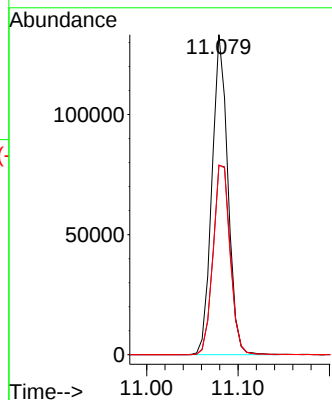
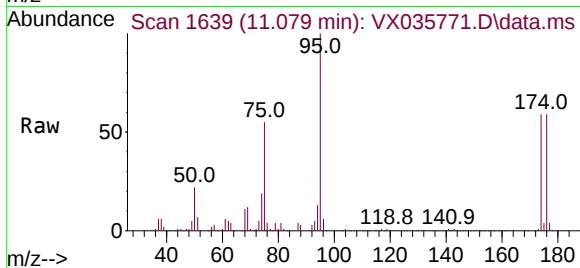
Tgt Ion: 95 Resp: 160493

Ion Ratio Lower Upper

95 100

174 64.3 0.0 147.4

176 63.5 0.0 140.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX035771.D

Acq: 19 May 2023 19:23

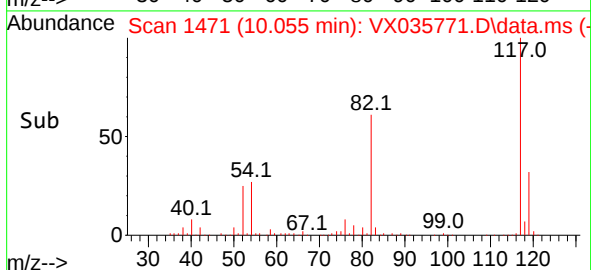
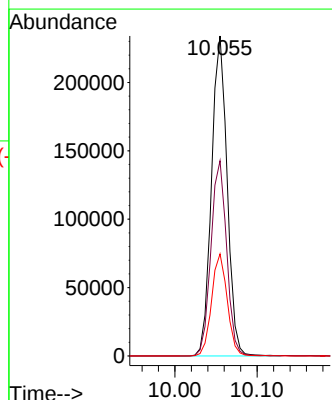
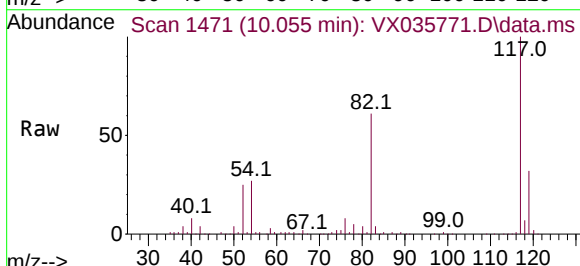
Tgt Ion: 117 Resp: 308808

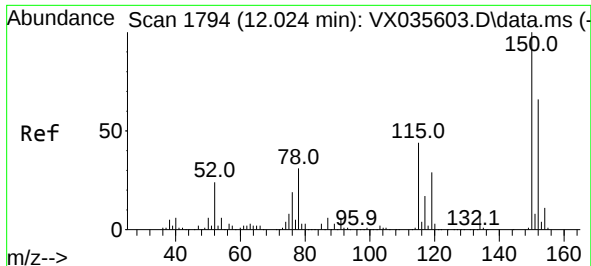
Ion Ratio Lower Upper

117 100

82 61.0 45.0 67.4

119 31.9 26.0 39.0

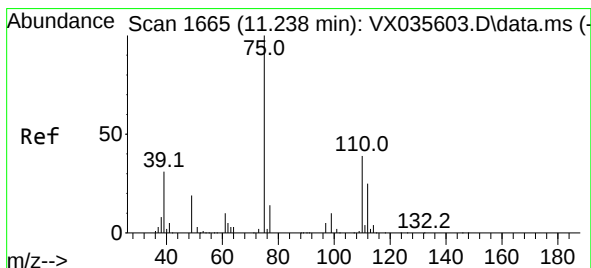
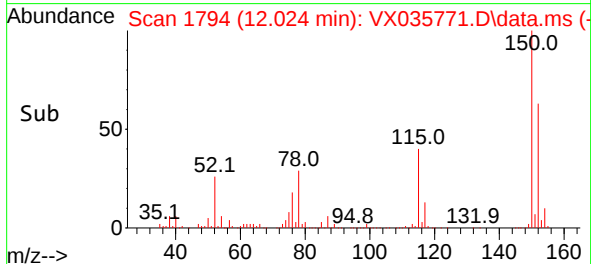
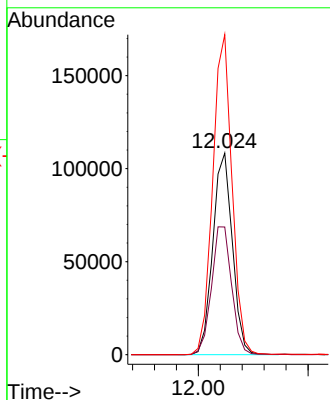
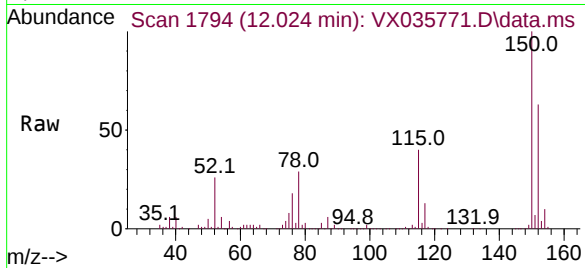




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX035771.D  
 Acq: 19 May 2023 19:23

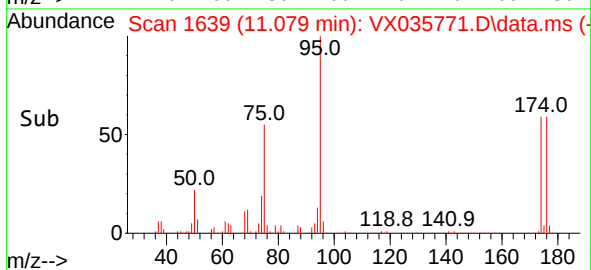
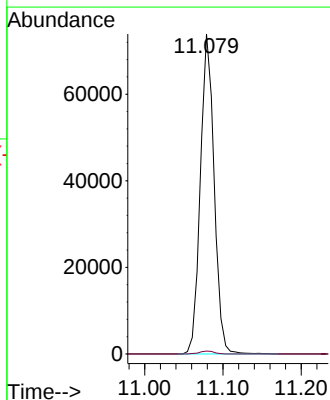
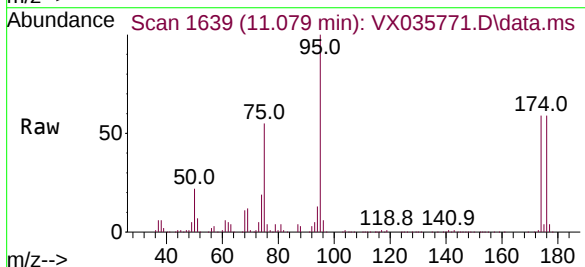
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FSND-EQB-12-05172023

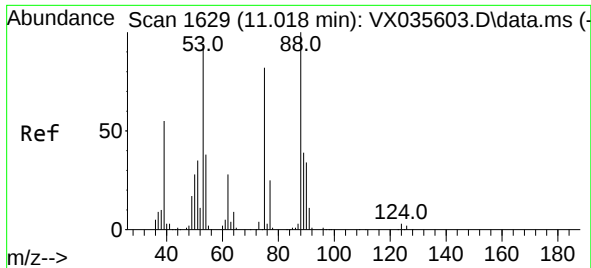
Tgt Ion:152 Resp: 134222  
 Ion Ratio Lower Upper  
 152 100  
 115 65.5 45.0 135.0  
 150 156.7 0.0 352.4



#76  
 1,2,3-Trichloropropane  
 Concen: 27.482 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX035771.D  
 Acq: 19 May 2023 19:23

Tgt Ion: 75 Resp: 90226  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 21.6 64.8#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.570 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX035771.D  
Acq: 19 May 2023 19:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-EQB-12-05172023

Tgt Ion: 75 Resp: 90226  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.6 124.0#  
89 0.0 36.9 55.3#

