

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070622\  
 Data File : VX029942.D  
 Acq On : 06 Jul 2022 14:30  
 Operator : JC/MD  
 Sample : N3599-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF0722

Quant Time: Jul 07 02:36:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 05:54:51 2022  
 Response via : Initial Calibration

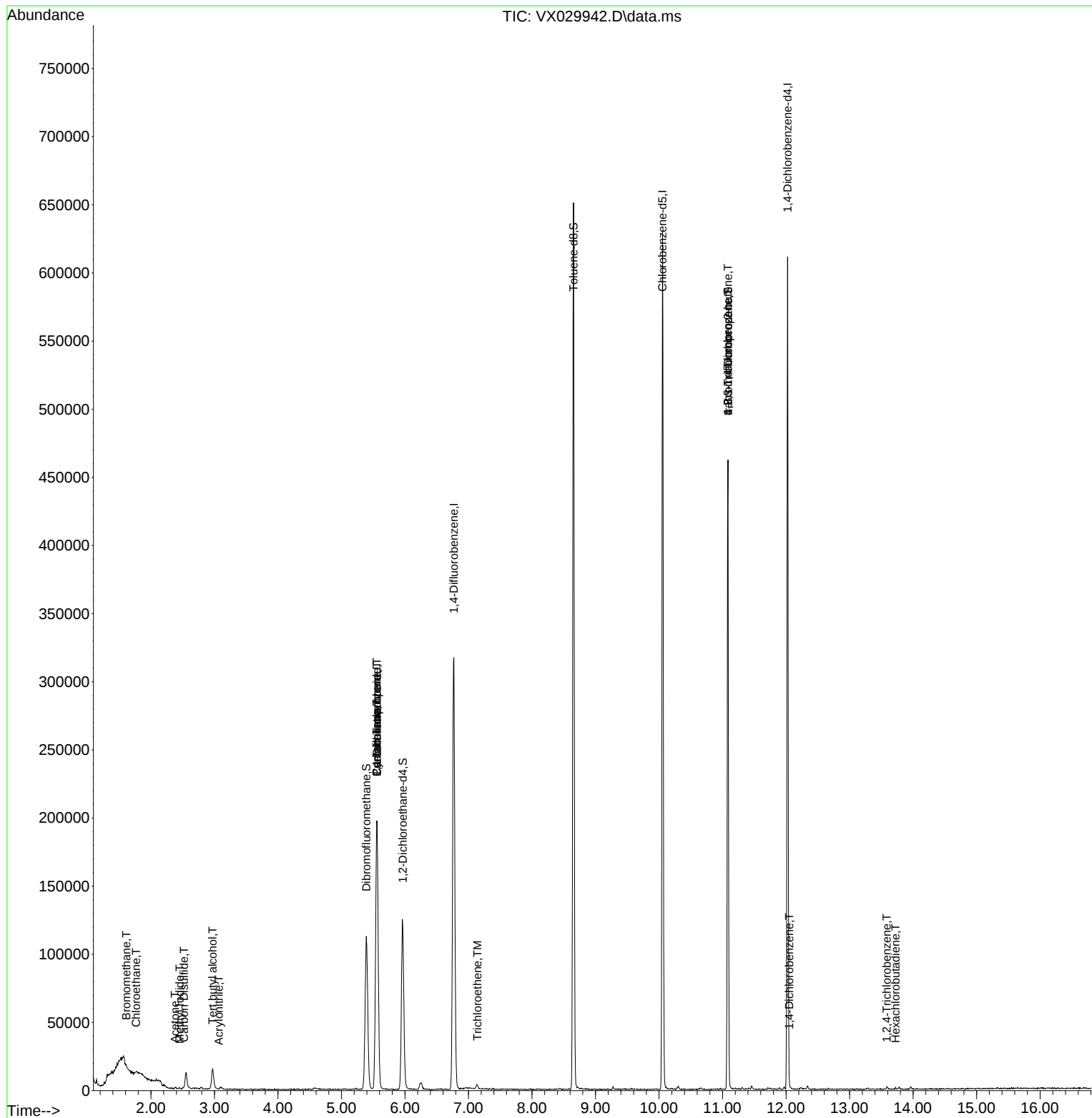
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 197340   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 344878   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 300041   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 124567   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 107961   | 43.219    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 86.440%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 100216   | 46.497    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 93.000%  |
| 50) Toluene-d8                | 8.653  | 98    | 385944   | 47.732    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 95.460%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 126358   | 44.210    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 88.420%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.611  | 94    | 439      | 0.361     | ug/l   | 85       |
| 6) Chloroethane               | 1.764  | 64    | 1991     | 2.241     | ug/l # | 60       |
| 10) Methyl Iodide             | 2.453  | 142   | 691      | 2.118     | ug/l # | 81       |
| 11) Tert butyl alcohol        | 2.971  | 59    | 18644    | 28.539    | ug/l   | 99       |
| 13) Acrolein                  | 2.227  | 56    | 132      | Below Cal | #      | 1        |
| 15) Acrylonitrile             | 3.068  | 53    | 307      | 0.201     | ug/l # | 36       |
| 16) Acetone                   | 2.380  | 43    | 1202     | 0.984     | ug/l # | 86       |
| 17) Carbon Disulfide          | 2.520  | 76    | 2737     | 0.542     | ug/l # | 74       |
| 31) Cyclohexane               | 5.556  | 56    | 3994     | 1.147     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 14696    | 5.127     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 18512    | 7.453     | ug/l # | 17       |
| 44) Trichloroethene           | 7.141  | 130   | 1045     | 0.419     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 58803    | 19.720    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 58803    | 62.625    | ug/l # | 13       |
| 88) 1,4-Dichlorobenzene       | 12.049 | 146   | 872      | 0.205     | ug/l # | 24       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180   | 543      | 0.219     | ug/l   | 80       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 224      | 0.244     | ug/l   | 90       |
| -----                         |        |       |          |           |        |          |

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

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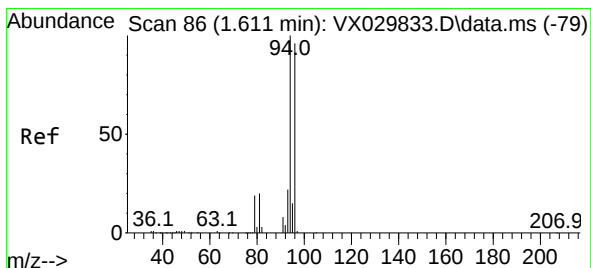
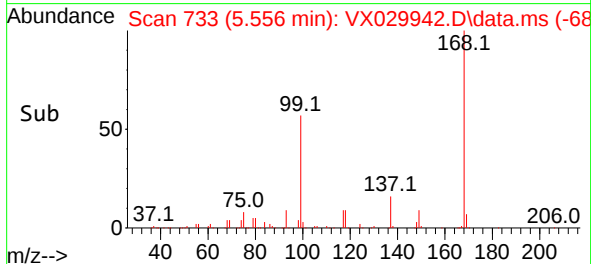
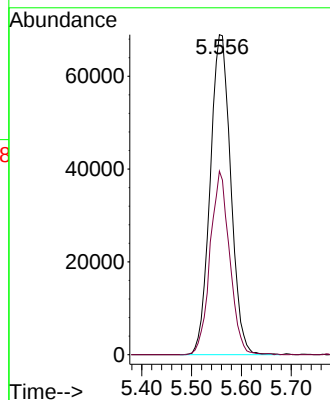
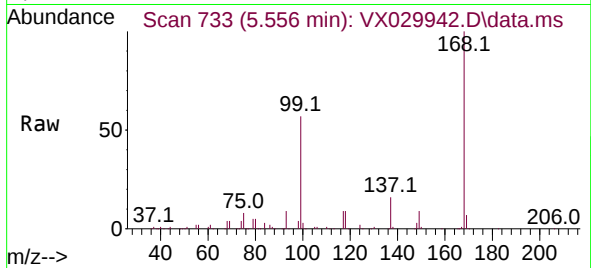




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

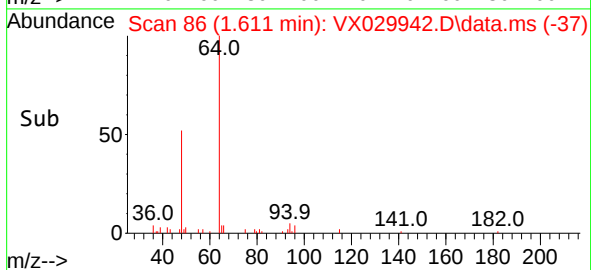
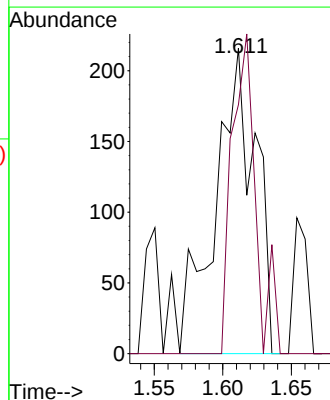
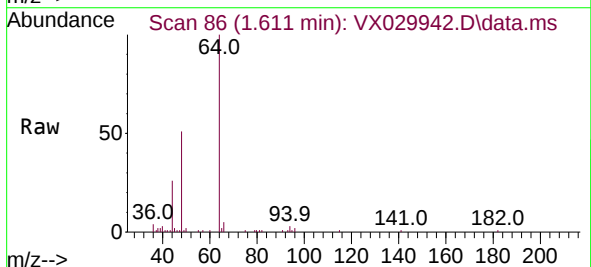
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

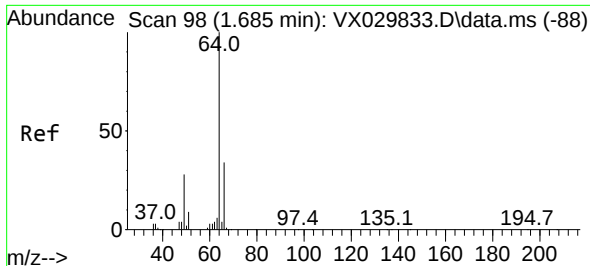
Tgt Ion:168 Resp: 197340  
Ion Ratio Lower Upper  
168 100  
99 57.3 44.0 66.0



#5  
Bromomethane  
Concen: 0.361 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion: 94 Resp: 439  
Ion Ratio Lower Upper  
94 100  
96 81.5 76.9 115.3

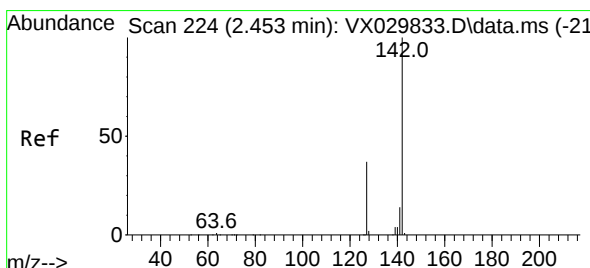
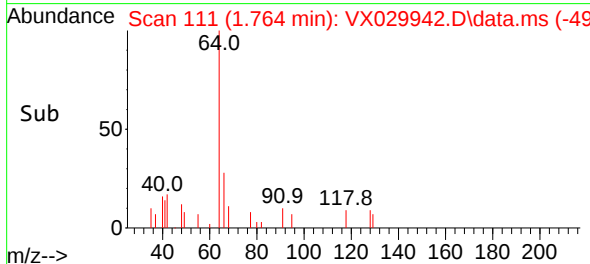
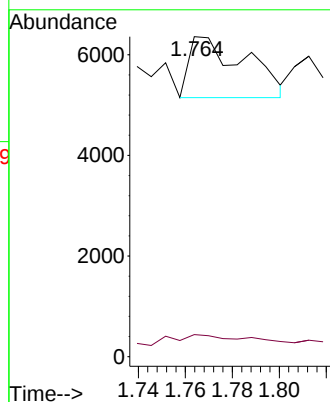
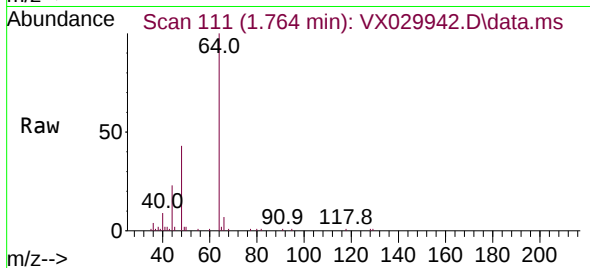




#6  
Chloroethane  
Concen: 2.241 ug/l  
RT: 1.764 min Scan# 111  
Delta R.T. 0.079 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

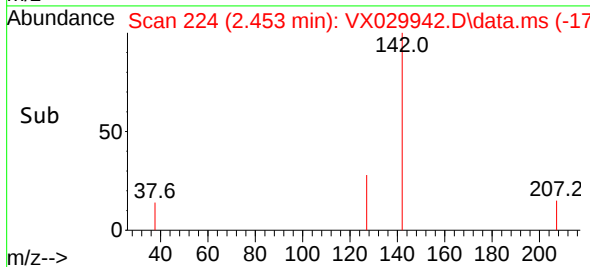
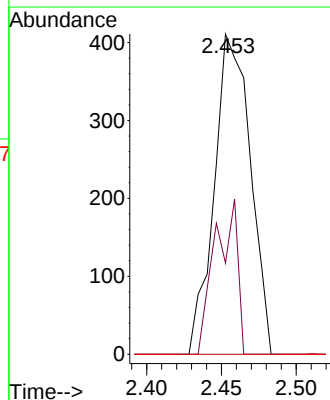
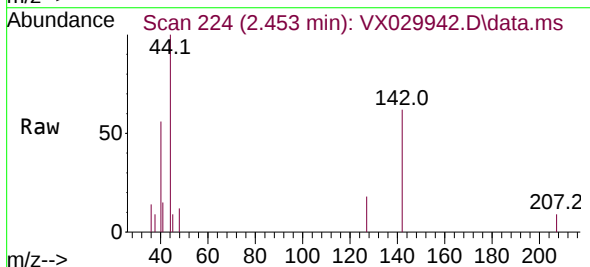
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

Tgt Ion: 64 Resp: 1991  
Ion Ratio Lower Upper  
64 100  
66 11.2 27.2 40.8#



#10  
Methyl Iodide  
Concen: 2.118 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion: 142 Resp: 691  
Ion Ratio Lower Upper  
142 100  
127 30.1 30.2 45.2#  
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 28.539 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.024 min

Lab File: VX029942.D

Acq: 06 Jul 2022 14:30

Instrument :

MSVOA\_X

ClientSampleId :

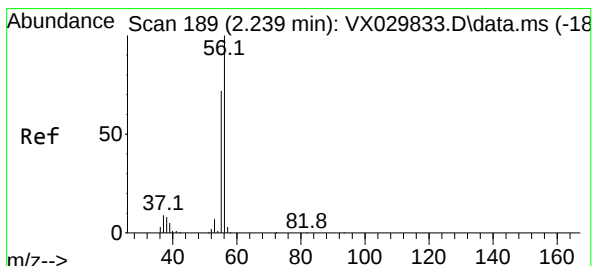
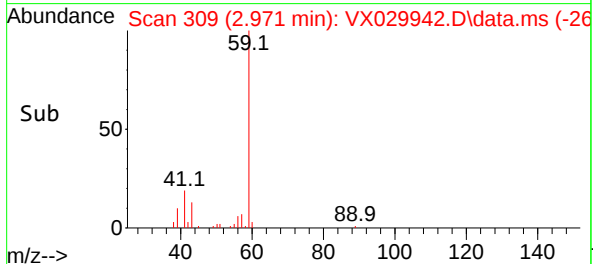
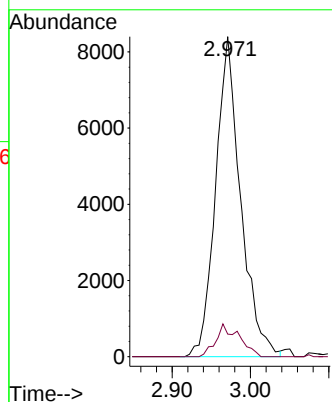
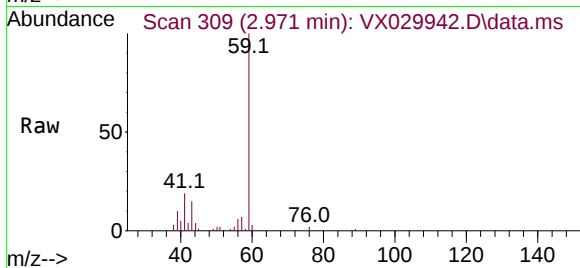
EFF0722

Tgt Ion: 59 Resp: 18644

Ion Ratio Lower Upper

59 100

57 9.5 7.4 11.2



#13

Acrolein

Concen: Below Cal

RT: 2.227 min Scan# 187

Delta R.T. -0.012 min

Lab File: VX029942.D

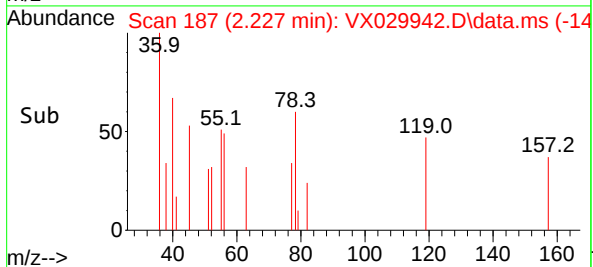
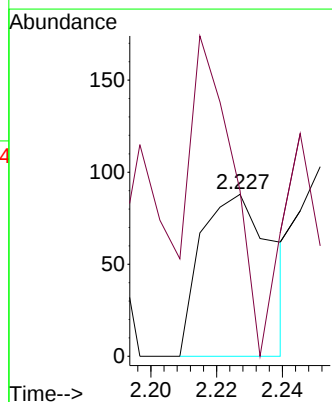
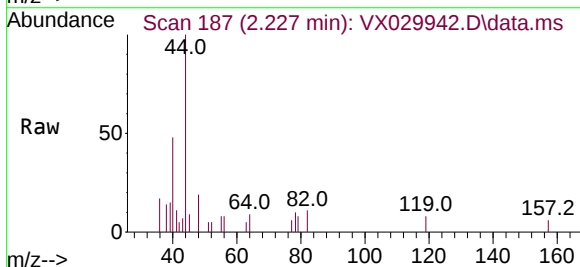
Acq: 06 Jul 2022 14:30

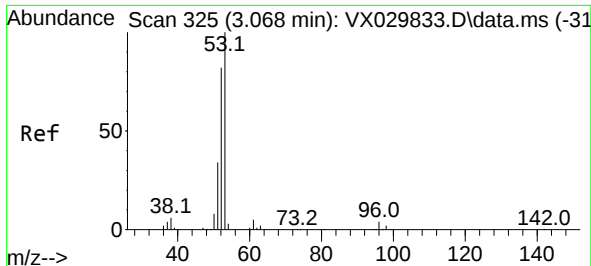
Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

55 193.9 56.6 84.8#

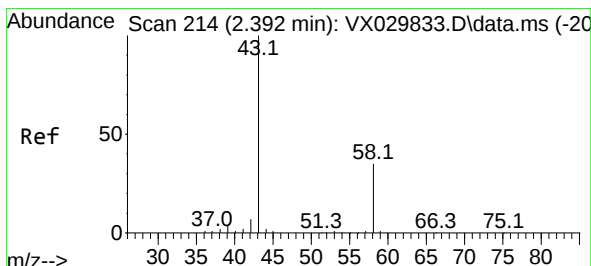
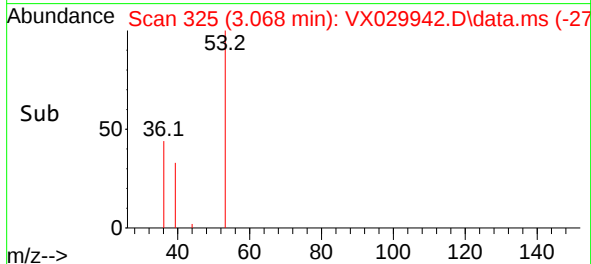
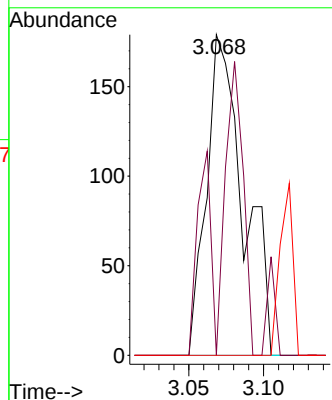
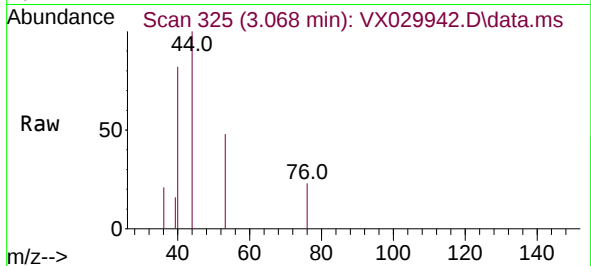




#15  
Acrylonitrile  
Concen: 0.201 ug/l  
RT: 3.068 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

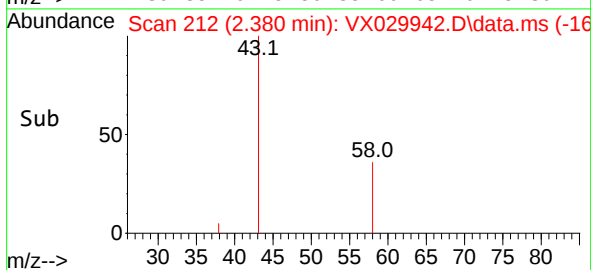
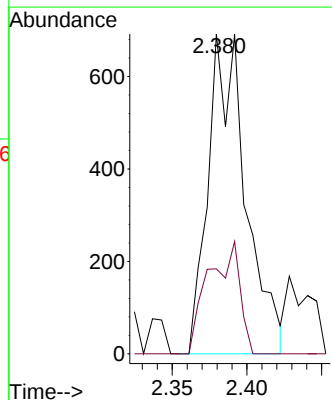
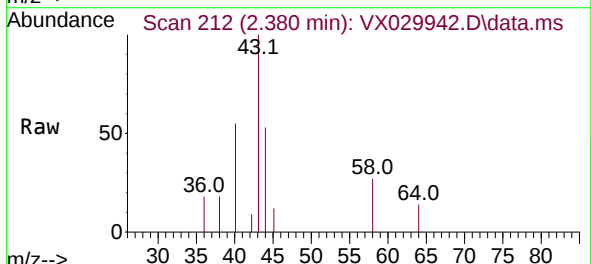
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

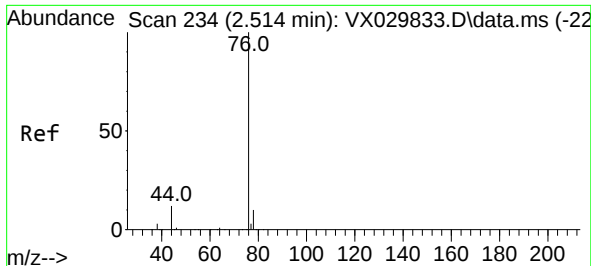
Tgt Ion: 53 Resp: 307  
Ion Ratio Lower Upper  
53 100  
52 23.5 65.4 98.0#  
51 0.0 27.7 41.5#



#16  
Acetone  
Concen: 0.984 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion: 43 Resp: 1202  
Ion Ratio Lower Upper  
43 100  
58 26.6 27.7 41.5#





#17

Carbon Disulfide

Concen: 0.542 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX029942.D

Acq: 06 Jul 2022 14:30

Instrument :

MSVOA\_X

ClientSampleId :

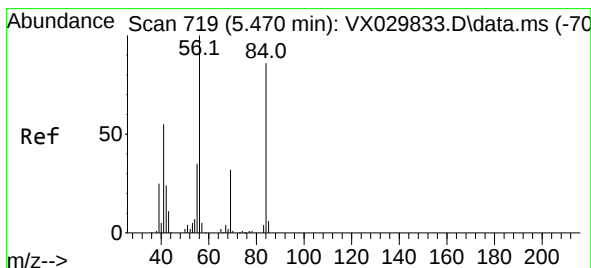
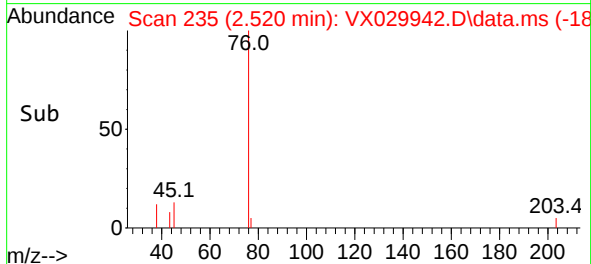
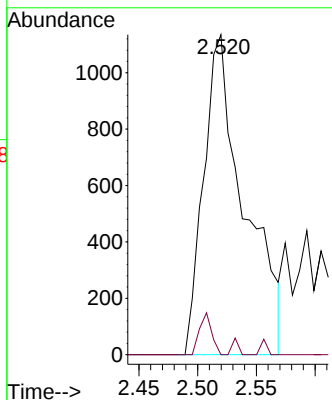
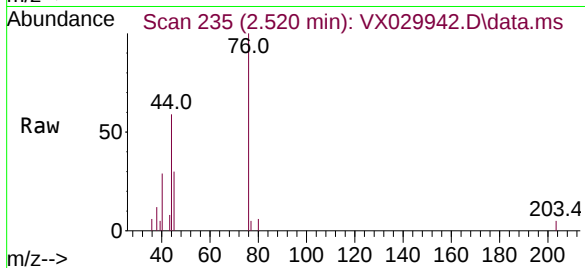
EFF0722

Tgt Ion: 76 Resp: 2737

Ion Ratio Lower Upper

76 100

78 0.0 7.8 11.6#



#31

Cyclohexane

Concen: 1.147 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX029942.D

Acq: 06 Jul 2022 14:30

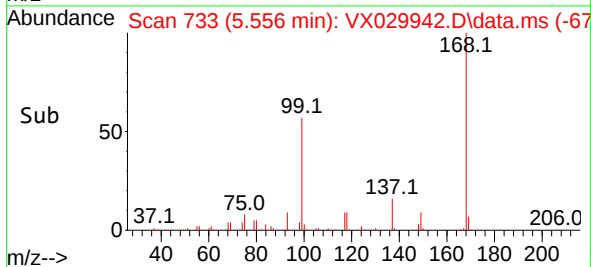
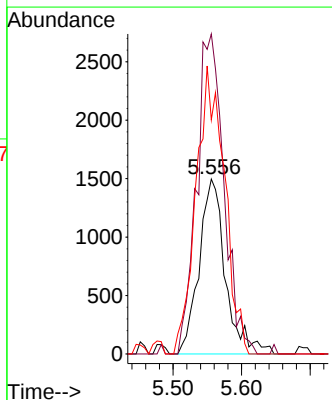
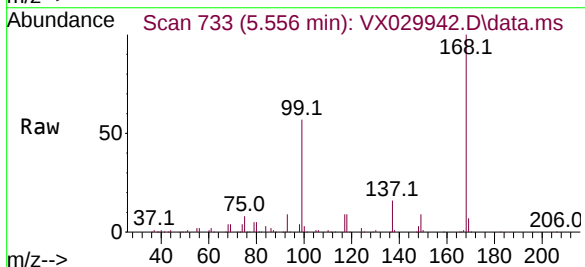
Tgt Ion: 56 Resp: 3994

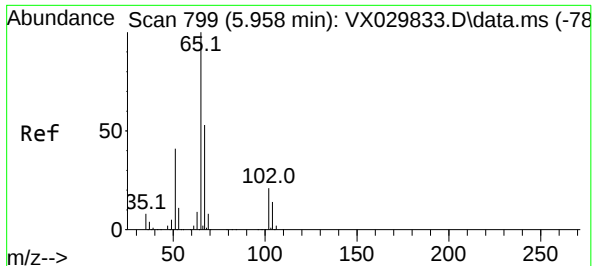
Ion Ratio Lower Upper

56 100

69 182.9 25.4 38.0#

84 133.8 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 43.219 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX029942.D

Acq: 06 Jul 2022 14:30

Instrument :

MSVOA\_X

ClientSampleId :

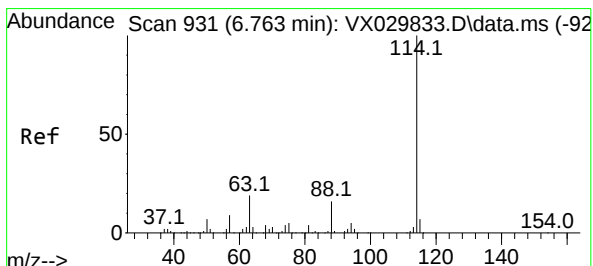
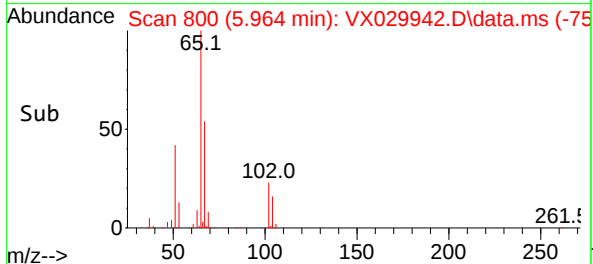
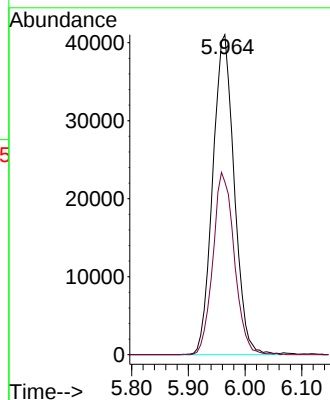
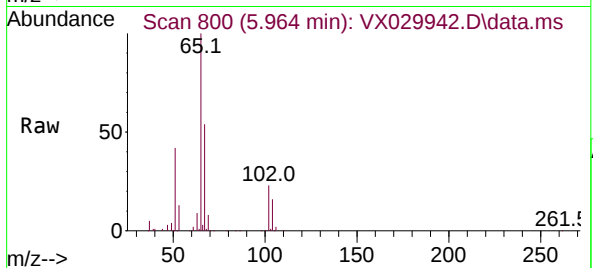
EFF0722

Tgt Ion: 65 Resp: 107961

Ion Ratio Lower Upper

65 100

67 56.7 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX029942.D

Acq: 06 Jul 2022 14:30

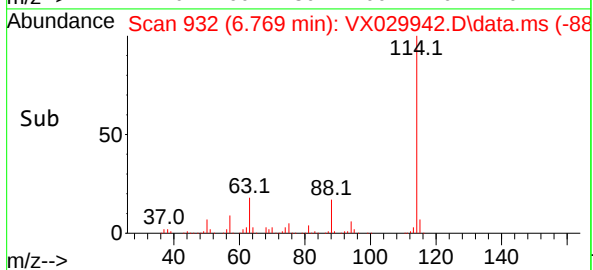
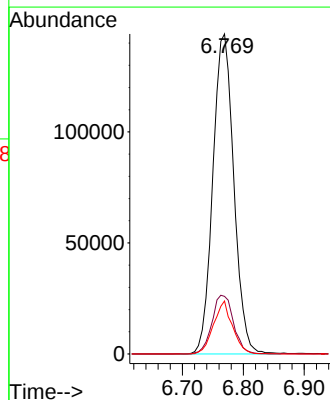
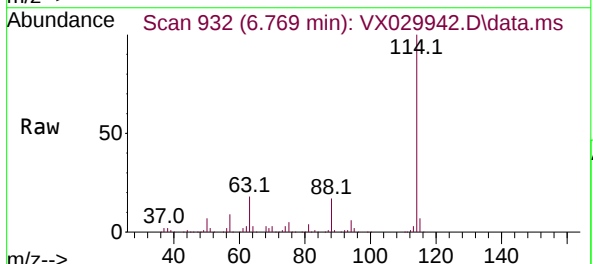
Tgt Ion: 114 Resp: 344878

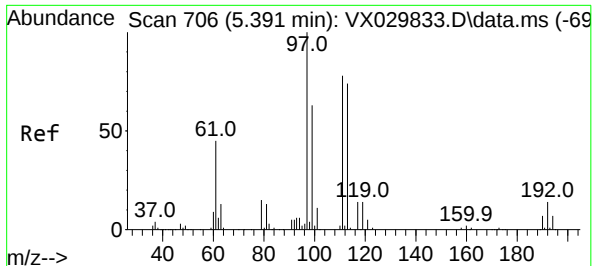
Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 46.497 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX029942.D

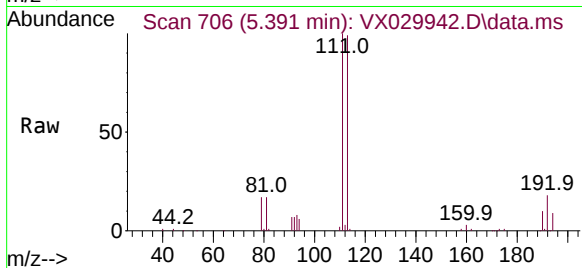
Acq: 06 Jul 2022 14:30

Instrument :

MSVOA\_X

ClientSampleId :

EFF0722



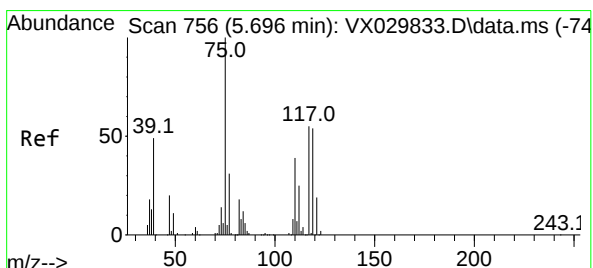
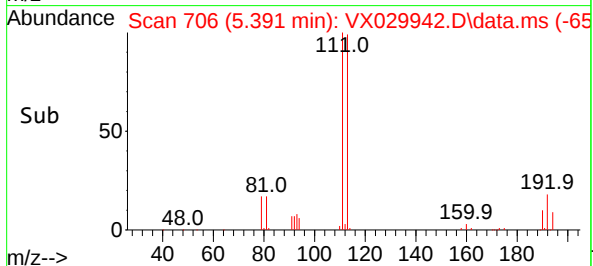
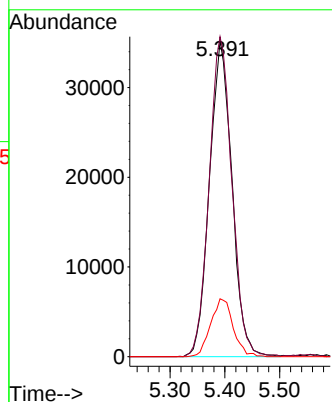
Tgt Ion:113 Resp: 100216

Ion Ratio Lower Upper

113 100

111 102.9 83.2 124.8

192 18.4 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.127 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX029942.D

Acq: 06 Jul 2022 14:30

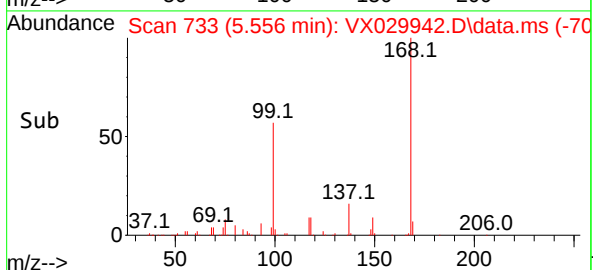
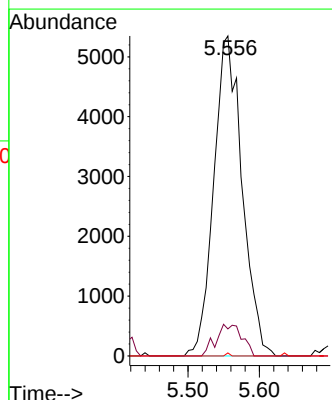
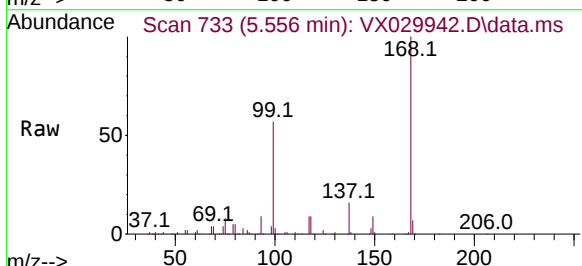
Tgt Ion: 75 Resp: 14696

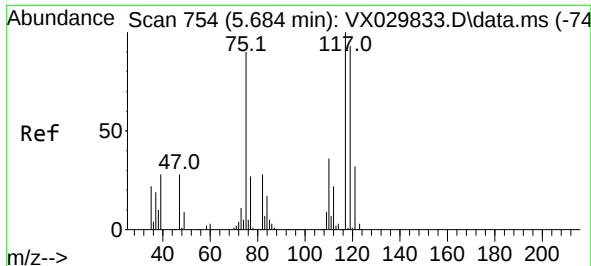
Ion Ratio Lower Upper

75 100

110 9.0 19.3 57.9#

77 0.1 24.4 36.6#

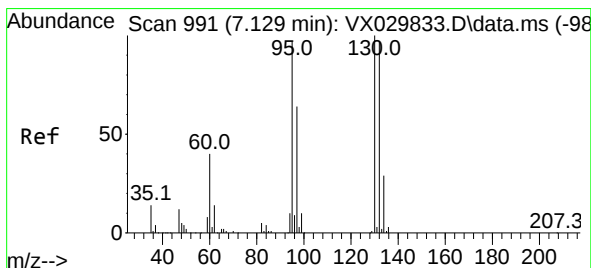
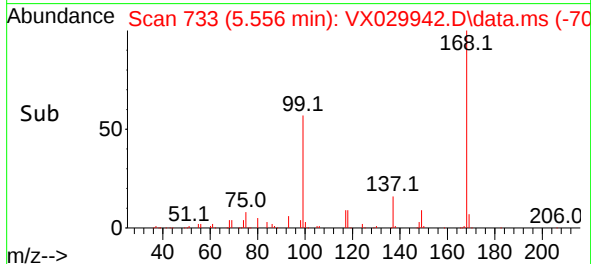
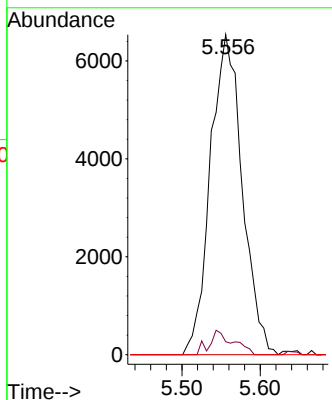
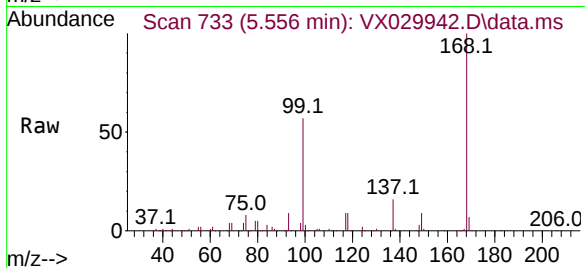




#38  
Carbon Tetrachloride  
Concen: 7.453 ug/l  
RT: 5.556 min Scan# 713  
Delta R.T. -0.128 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

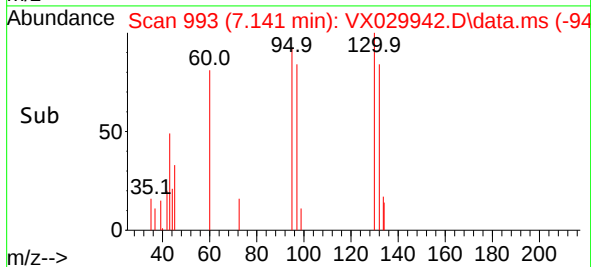
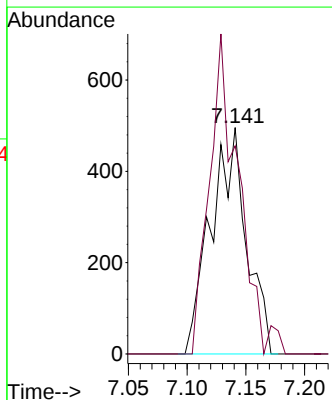
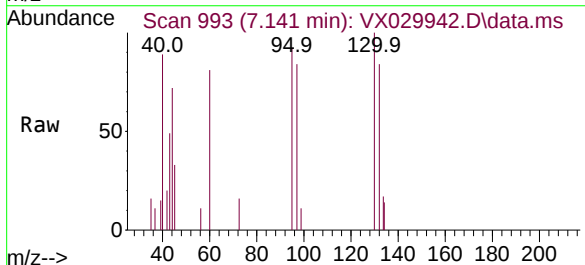
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

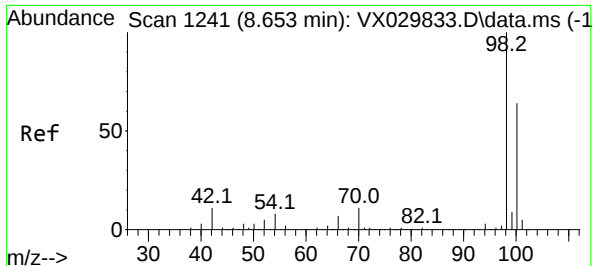
Tgt Ion:117 Resp: 18512  
Ion Ratio Lower Upper  
117 100  
119 4.1 74.1 111.1#  
121 0.0 25.8 38.8#



#44  
Trichloroethene  
Concen: 0.419 ug/l  
RT: 7.141 min Scan# 993  
Delta R.T. 0.012 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion:130 Resp: 1045  
Ion Ratio Lower Upper  
130 100  
95 91.9 0.0 194.8

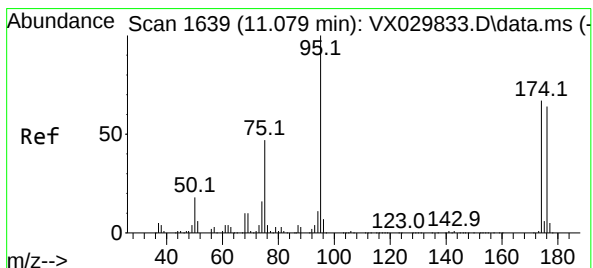
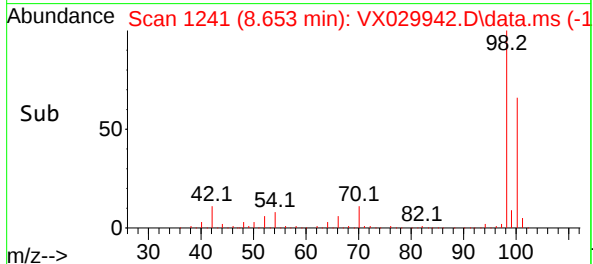
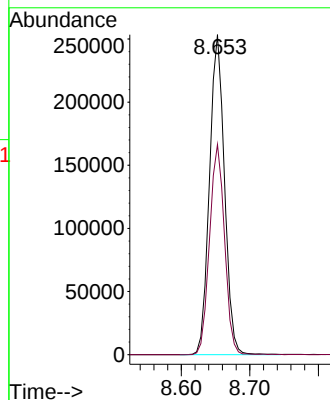
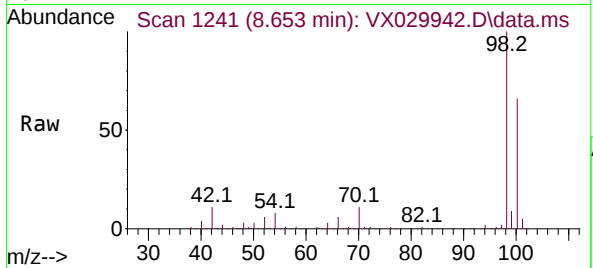




#50  
Toluene-d8  
Concen: 47.732 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

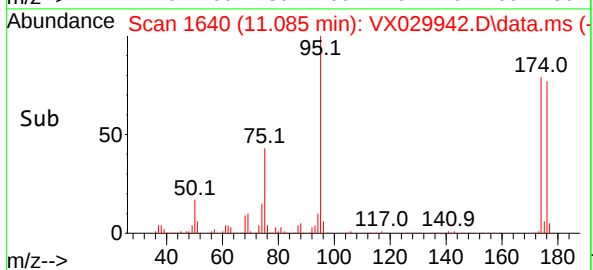
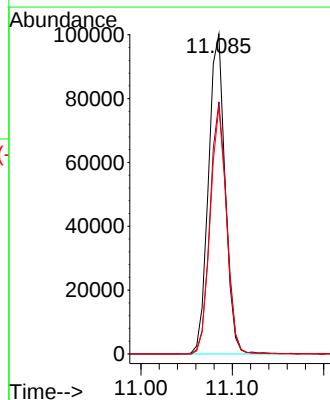
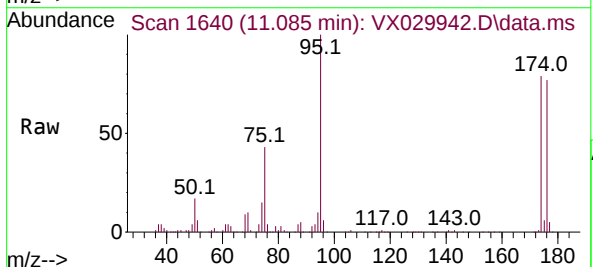
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

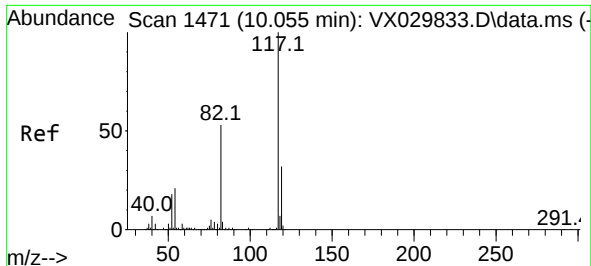
Tgt Ion: 98 Resp: 385944  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.3 78.5



#62  
4-Bromofluorobenzene  
Concen: 44.210 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.006 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion: 95 Resp: 126358  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 149.0  
176 75.7 0.0 146.0

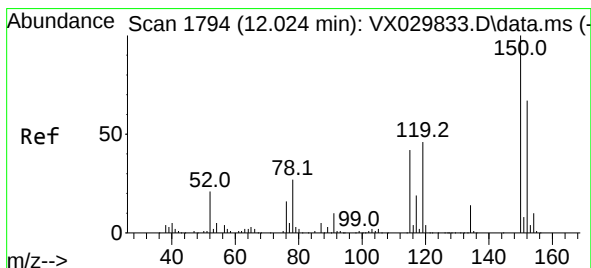
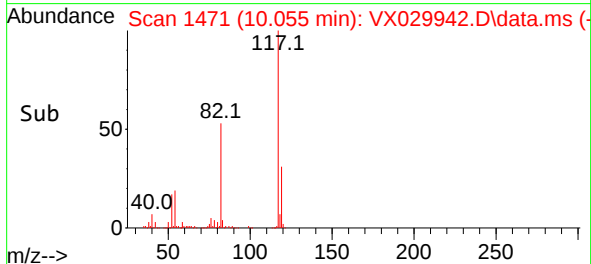
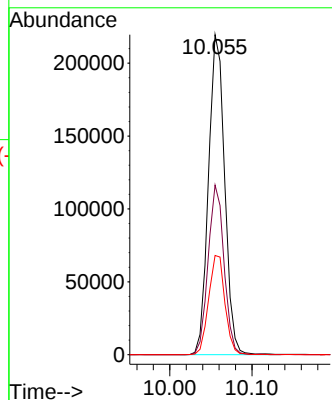
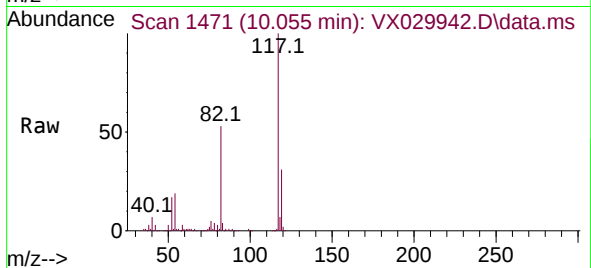




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

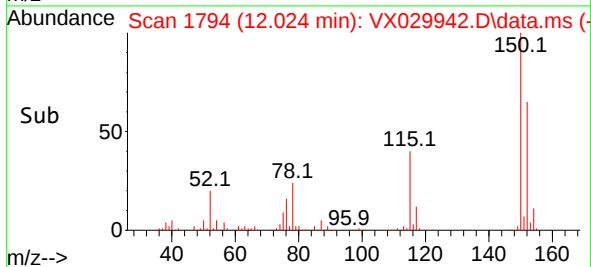
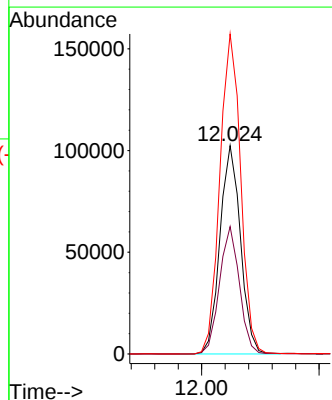
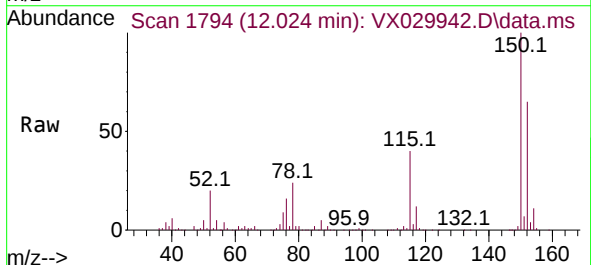
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

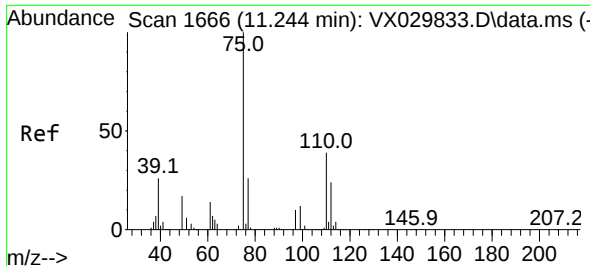
Tgt Ion:117 Resp: 300041  
Ion Ratio Lower Upper  
117 100  
82 53.0 42.7 64.1  
119 31.0 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion:152 Resp: 124567  
Ion Ratio Lower Upper  
152 100  
115 59.3 40.5 121.5  
150 155.4 0.0 347.0

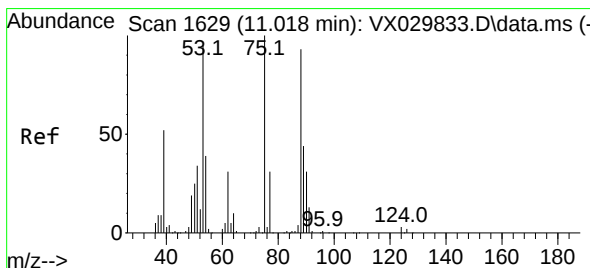
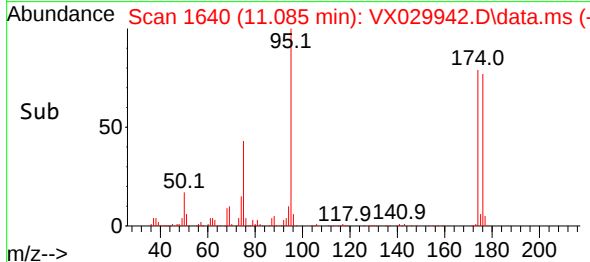
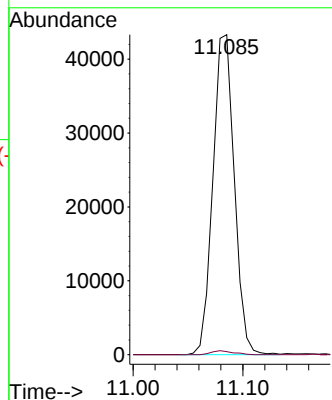
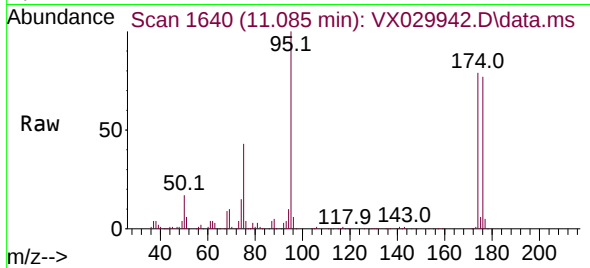




#76  
1,2,3-Trichloropropane  
Concen: 19.720 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

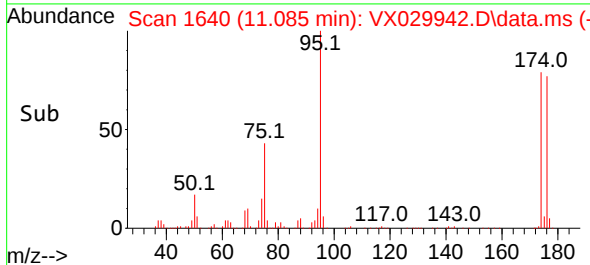
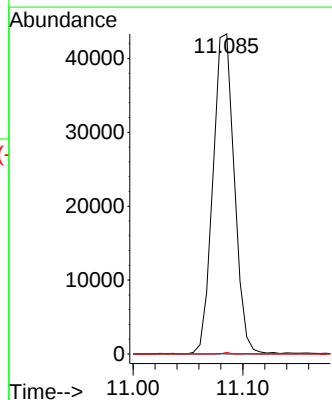
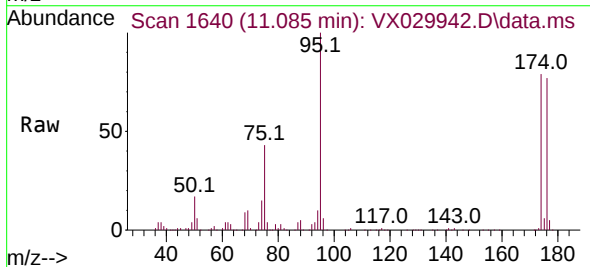
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF0722

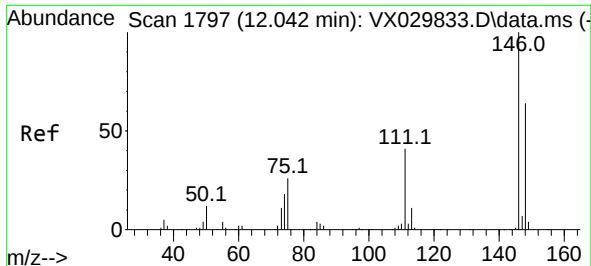
Tgt Ion: 75 Resp: 58803  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.8 59.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.625 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX029942.D  
Acq: 06 Jul 2022 14:30

Tgt Ion: 75 Resp: 58803  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.1 34.8 52.2#

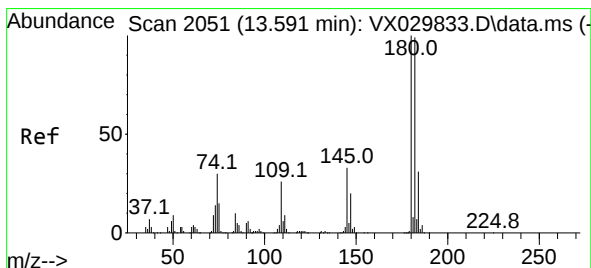
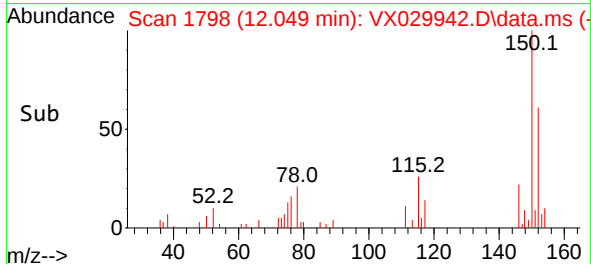
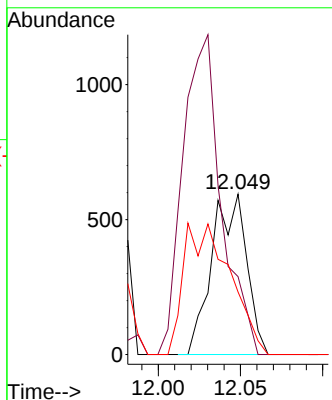
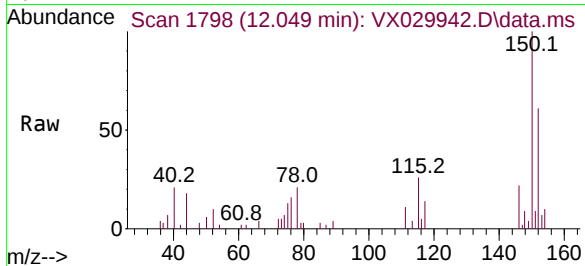




#88  
 1,4-Dichlorobenzene  
 Concen: 0.205 ug/l  
 RT: 12.049 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VX029942.D  
 Acq: 06 Jul 2022 14:30

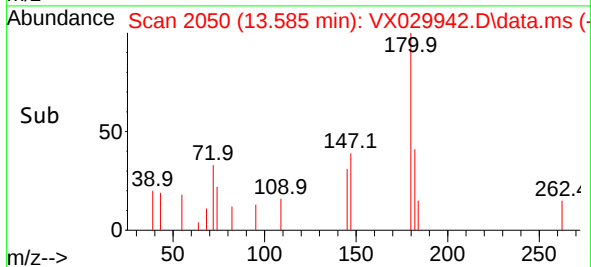
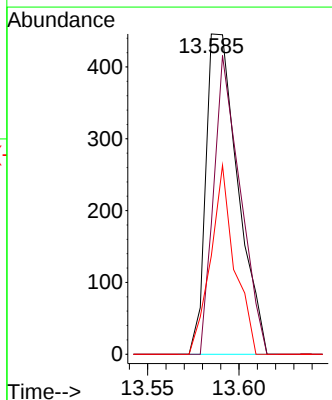
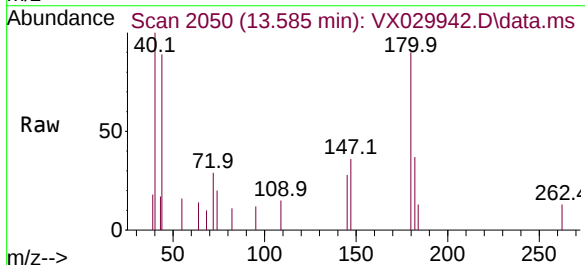
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF0722

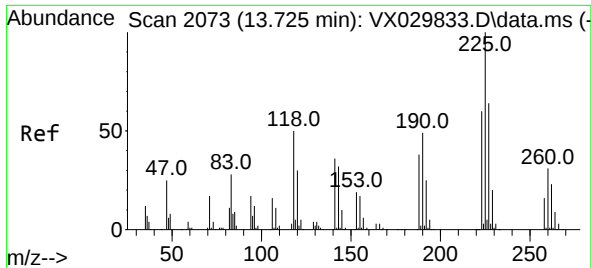
Tgt Ion:146 Resp: 872  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 20.3 60.9#  
 148 0.0 32.3 96.8#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.219 ug/l  
 RT: 13.585 min Scan# 2050  
 Delta R.T. -0.006 min  
 Lab File: VX029942.D  
 Acq: 06 Jul 2022 14:30

Tgt Ion:180 Resp: 543  
 Ion Ratio Lower Upper  
 180 100  
 182 77.5 48.2 144.6  
 145 44.2 15.9 47.6





#94  
 Hexachlorobutadiene  
 Concen: 0.244 ug/l  
 RT: 13.725 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VX029942.D  
 Acq: 06 Jul 2022 14:30

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF0722

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 224   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 58.9  | 30.6  | 91.6  |
| 227      | 50.4  | 31.9  | 95.9  |

