

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032122\  
 Data File : VX027588.D  
 Acq On : 21 Mar 2022 16:01  
 Operator : JC/MD  
 Sample : N1998-04DL 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 22 05:47:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 15:02:59 2022  
 Response via : Initial Calibration

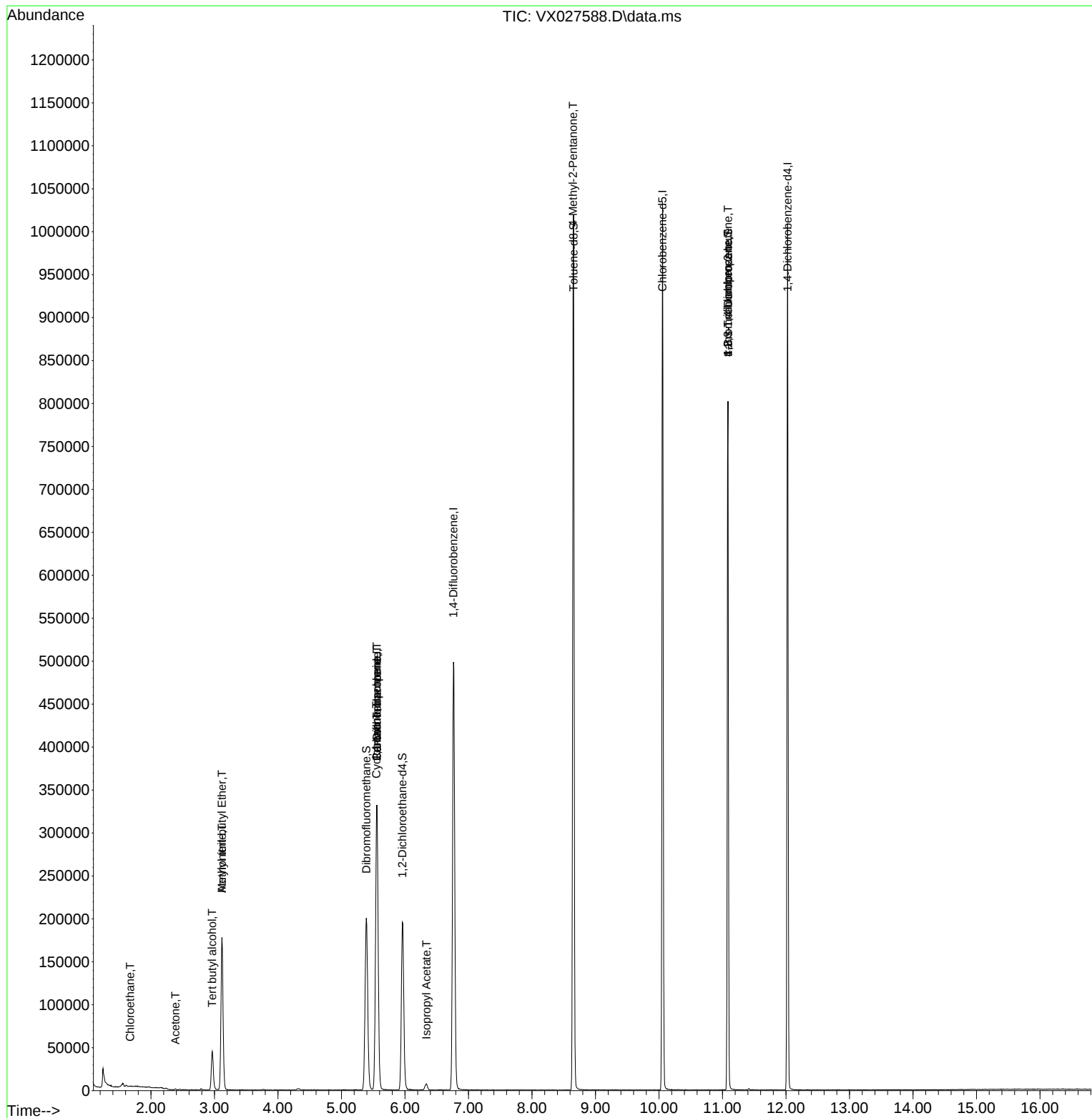
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 329712   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 542523   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 482704   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 216842   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 193731   | 47.697    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 95.400%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 178039   | 51.007    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 102.020% |
| 50) Toluene-d8                | 8.653  | 98    | 629619   | 47.668    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 95.340%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 218623   | 45.032    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 90.060%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.612  | 94    | 756      | Below Cal |        | 89       |
| 6) Chloroethane               | 1.673  | 64    | 848      | 0.426     | ug/l # | 69       |
| 11) Tert butyl alcohol        | 2.965  | 59    | 51685    | 66.769    | ug/l   | 99       |
| 15) Acrylonitrile             | 3.117  | 53    | 2119     | 1.204     | ug/l # | 36       |
| 16) Acetone                   | 2.386  | 43    | 938      | 0.567     | ug/l   | 95       |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 201076   | 19.466    | ug/l   | 98       |
| 31) Cyclohexane               | 5.550  | 56    | 5562     | 1.103     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 22728    | 4.765     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 31799    | 5.827     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 2535     | 0.331     | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 2221     | 0.455     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 104267   | 22.989    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 104267   | 69.817    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

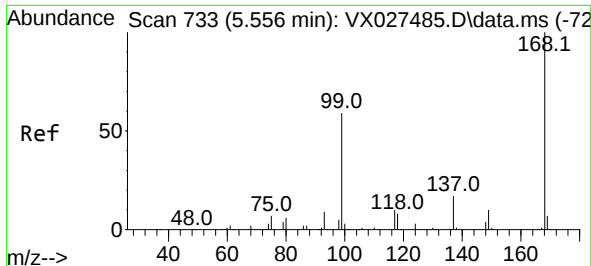
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032122\  
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Quant Time: Mar 22 05:47:17 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 17 15:02:59 2022  
Response via : Initial Calibration

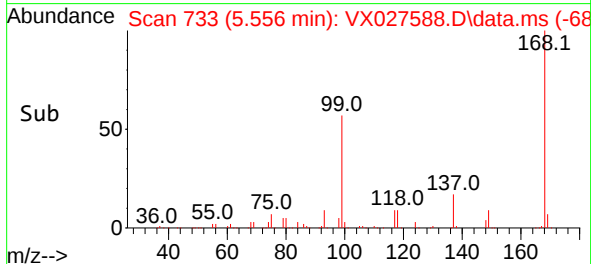
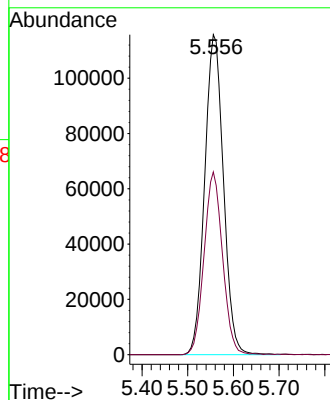
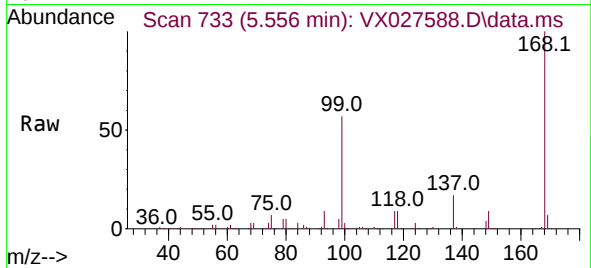




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

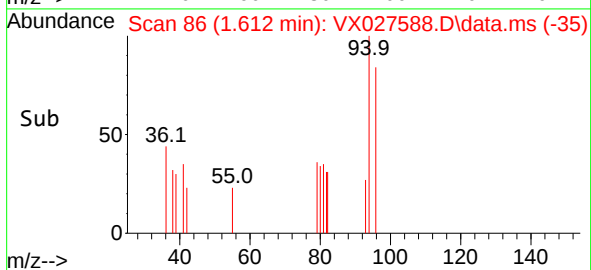
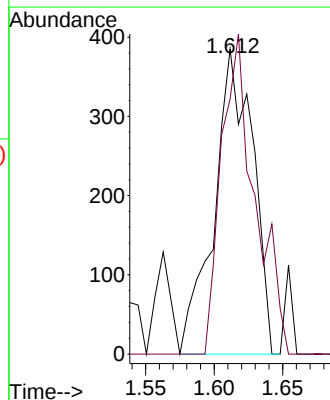
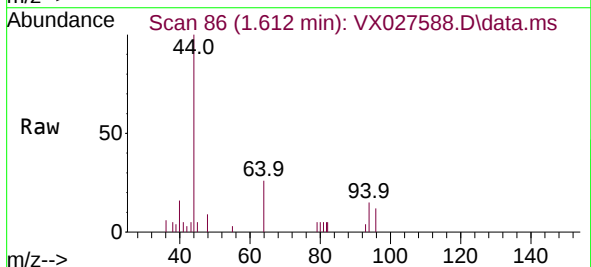
Instrument :  
MSVOA\_X  
ClientSampleId :

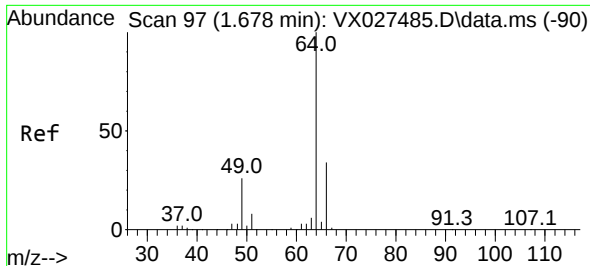
Tgt Ion:168 Resp: 329712  
Ion Ratio Lower Upper  
168 100  
99 57.1 41.7 62.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.612 min Scan# 86  
Delta R.T. 0.013 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

Tgt Ion: 94 Resp: 756  
Ion Ratio Lower Upper  
94 100  
96 83.6 75.3 112.9

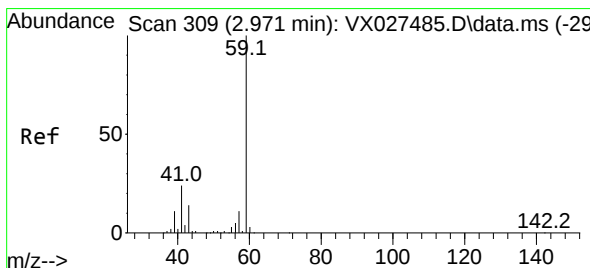
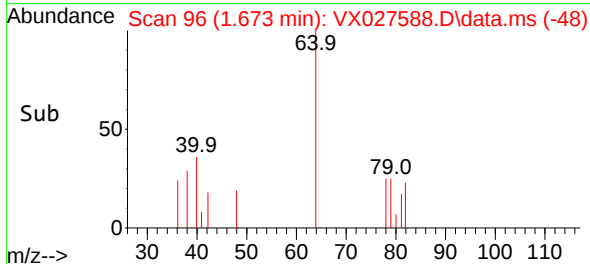
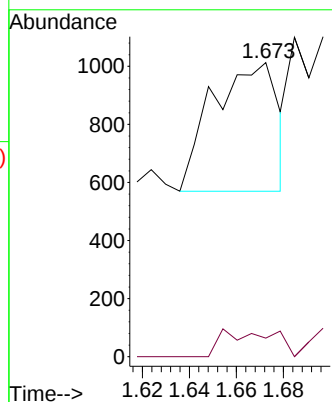
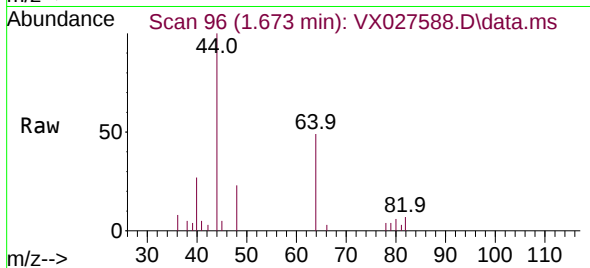




#6  
Chloroethane  
Concen: 0.426 ug/l  
RT: 1.673 min Scan# 90  
Delta R.T. -0.006 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

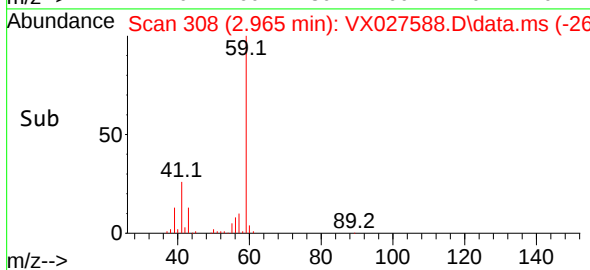
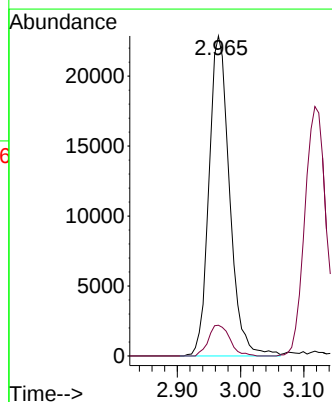
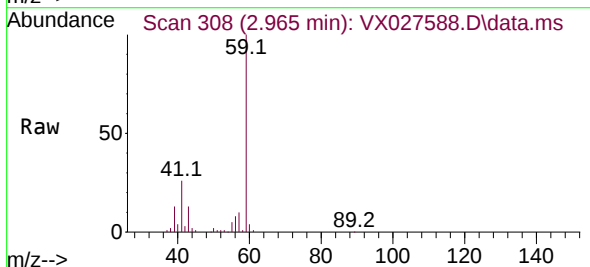
Instrument :  
MSVOA\_X  
ClientSampleId :

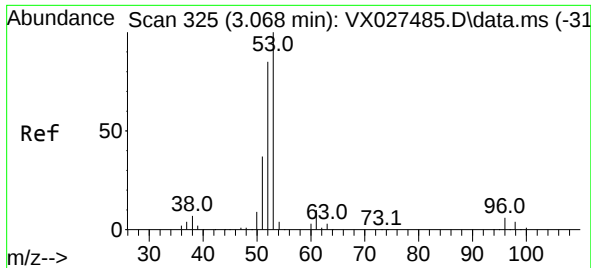
Tgt Ion: 64 Resp: 848  
Ion Ratio Lower Upper  
64 100  
66 14.4 25.3 37.9#



#11  
Tert butyl alcohol  
Concen: 66.769 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.006 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

Tgt Ion: 59 Resp: 51685  
Ion Ratio Lower Upper  
59 100  
57 10.0 8.3 12.5





#15

Acrylonitrile

Concen: 1.204 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.049 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

Instrument :

MSVOA\_X

ClientSampleId :

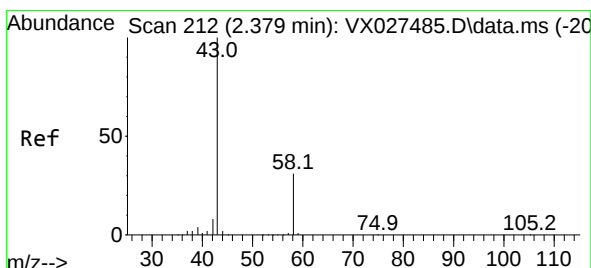
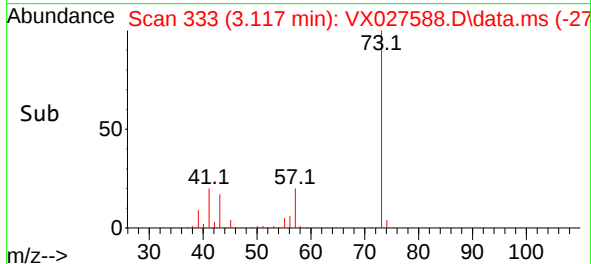
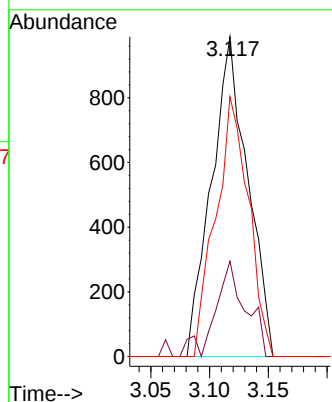
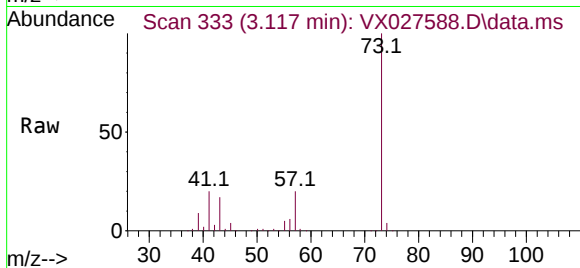
Tgt Ion: 53 Resp: 2119

Ion Ratio Lower Upper

53 100

52 25.1 65.7 98.5#

51 73.9 28.4 42.6#



#16

Acetone

Concen: 0.567 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX027588.D

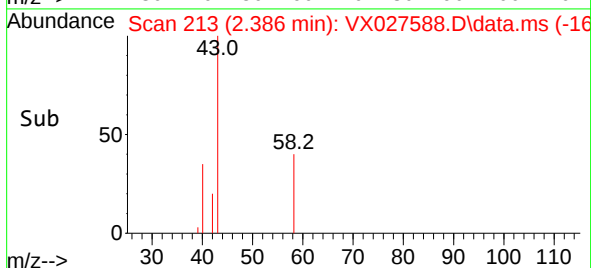
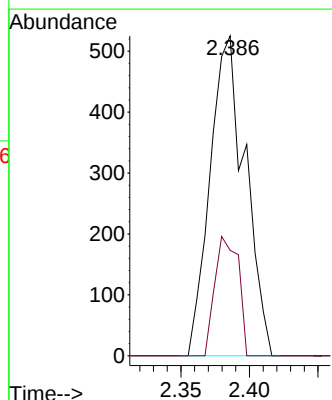
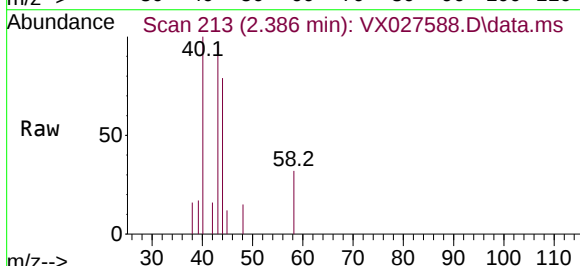
Acq: 21 Mar 2022 16:01

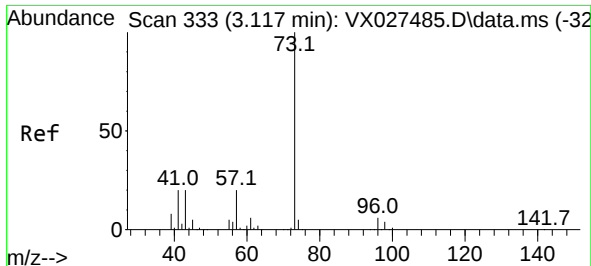
Tgt Ion: 43 Resp: 938

Ion Ratio Lower Upper

43 100

58 33.0 28.8 43.2

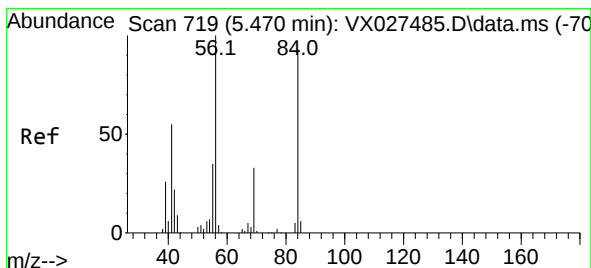
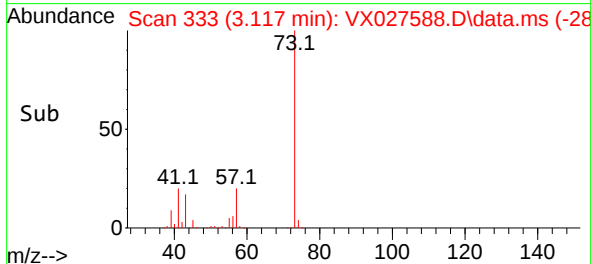
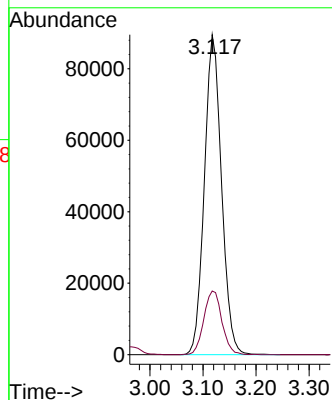
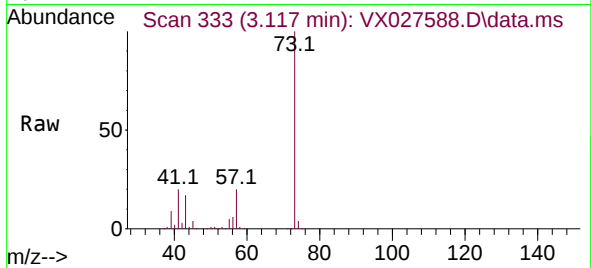




#19  
Methyl tert-butyl Ether  
Concen: 19.466 ug/l  
RT: 3.117 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

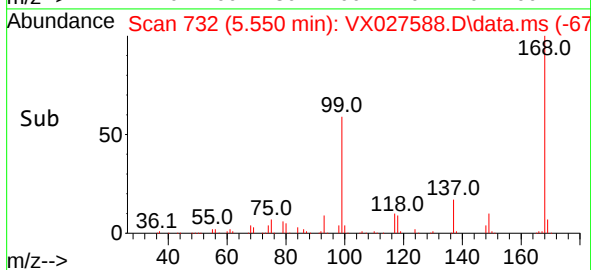
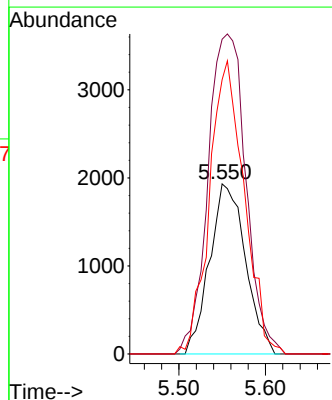
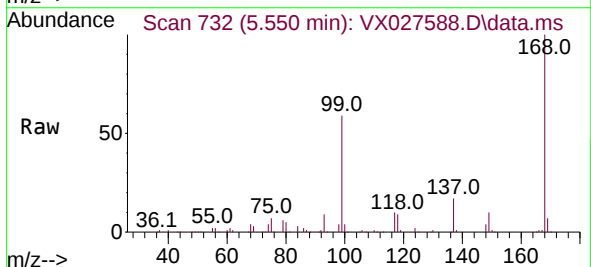
Instrument :  
MSVOA\_X  
ClientSampleId :

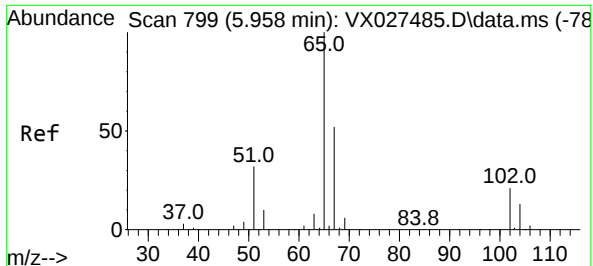
Tgt Ion: 73 Resp: 201076  
Ion Ratio Lower Upper  
73 100  
57 19.9 16.8 25.2



#31  
Cyclohexane  
Concen: 1.103 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

Tgt Ion: 56 Resp: 5562  
Ion Ratio Lower Upper  
56 100  
69 182.1 26.7 40.1#  
84 157.6 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 47.697 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

Instrument :

MSVOA\_X

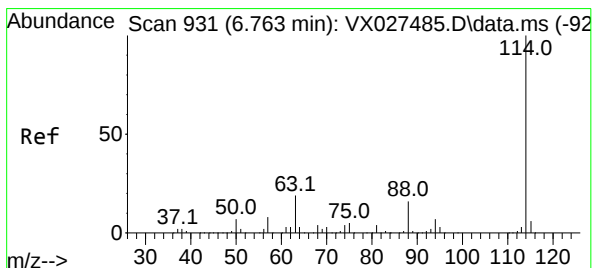
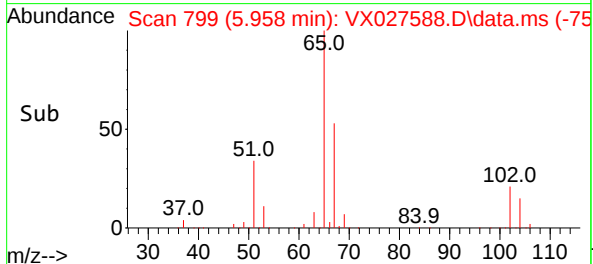
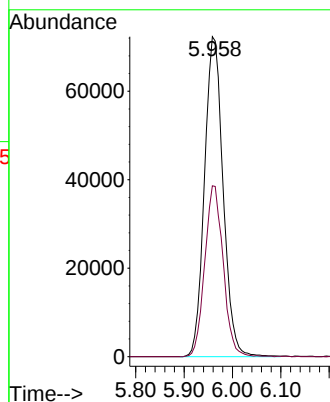
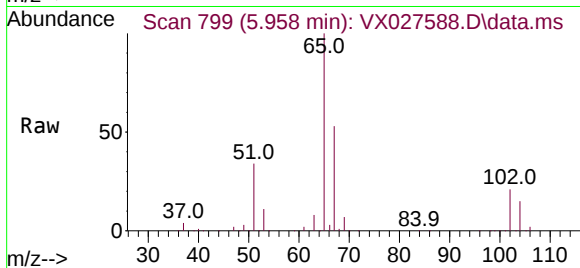
ClientSampleId :

Tgt Ion: 65 Resp: 193731

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

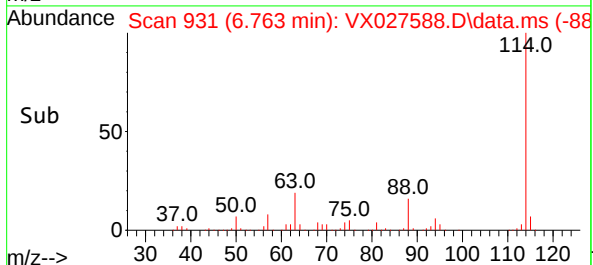
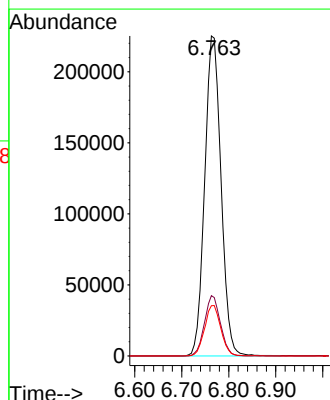
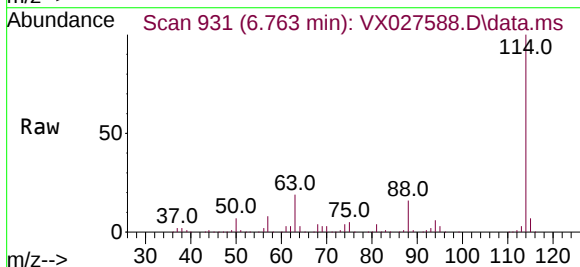
Tgt Ion: 114 Resp: 542523

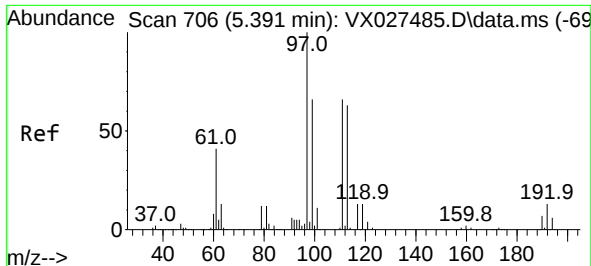
Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.8

88 15.7 0.0 32.4





#35

Dibromofluoromethane

Concen: 51.007 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

Instrument :

MSVOA\_X

ClientSampleId :

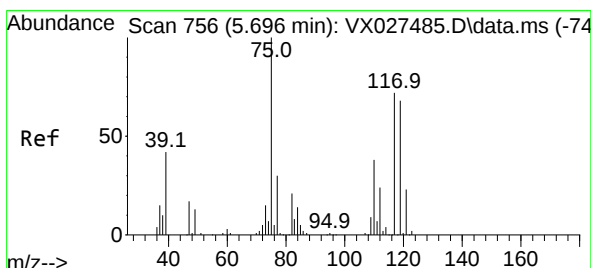
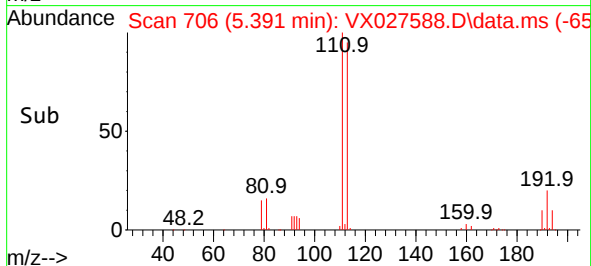
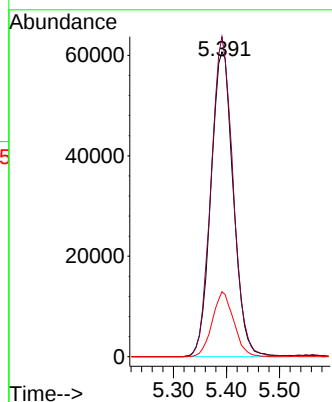
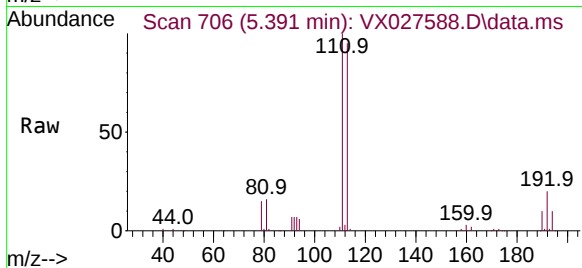
Tgt Ion:113 Resp: 178039

Ion Ratio Lower Upper

113 100

111 103.3 82.8 124.2

192 20.4 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.765 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

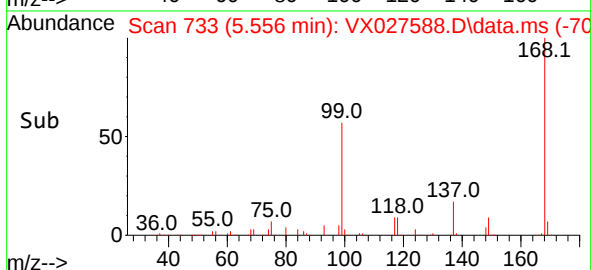
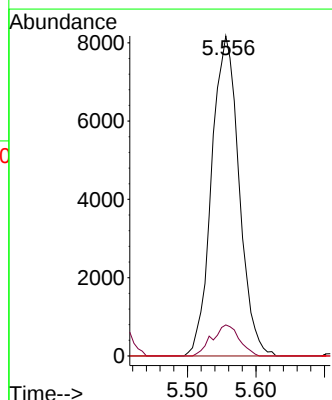
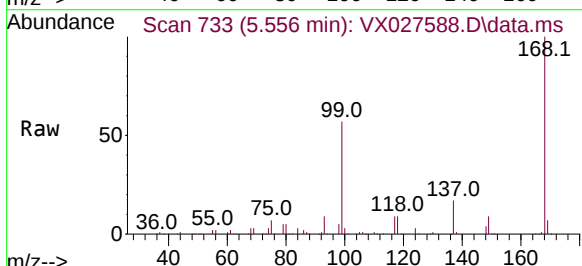
Tgt Ion: 75 Resp: 22728

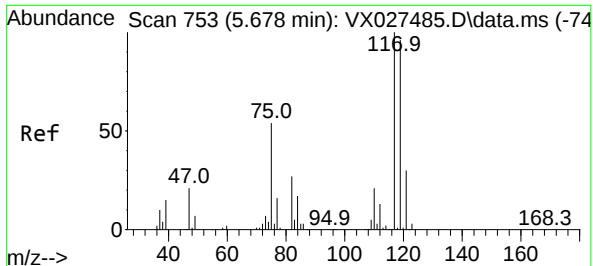
Ion Ratio Lower Upper

75 100

110 9.6 18.3 54.8#

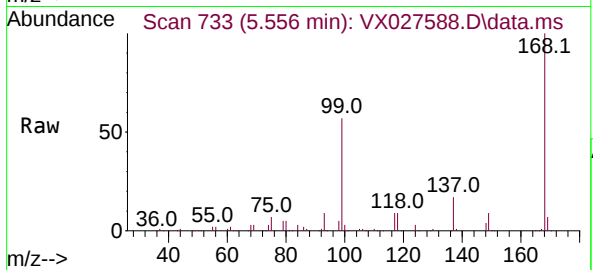
77 0.0 24.8 37.2#



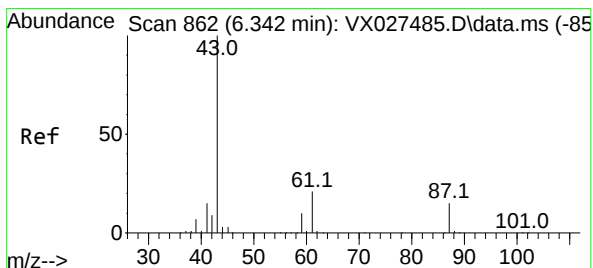
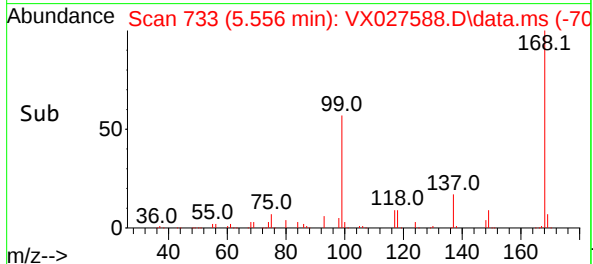
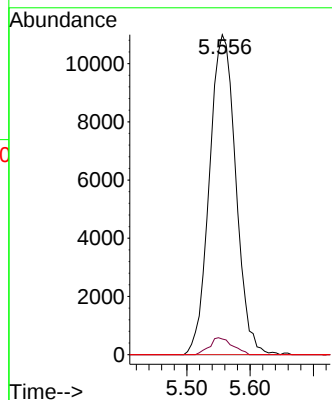


#38  
Carbon Tetrachloride  
Concen: 5.827 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

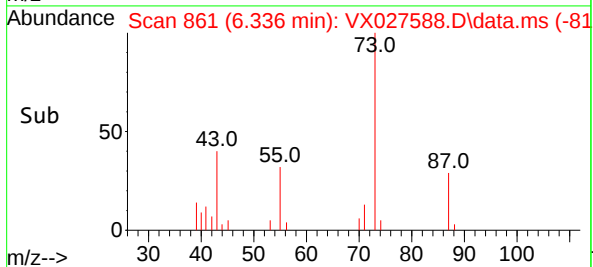
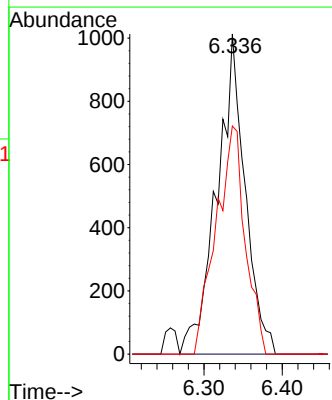
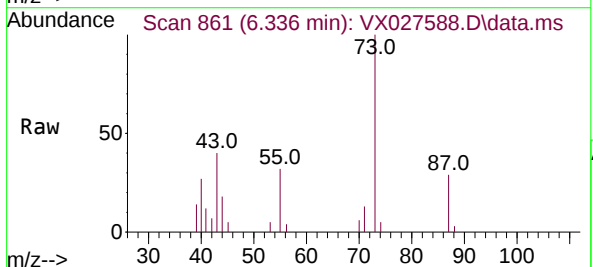


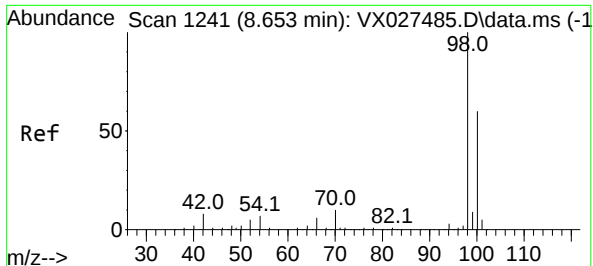
Tgt Ion:117 Resp: 31799  
Ion Ratio Lower Upper  
117 100  
119 4.9 77.3 115.9#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 0.331 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.006 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

Tgt Ion: 43 Resp: 2535  
Ion Ratio Lower Upper  
43 100  
61 0.0 18.5 27.7#  
87 73.5 13.0 19.6#

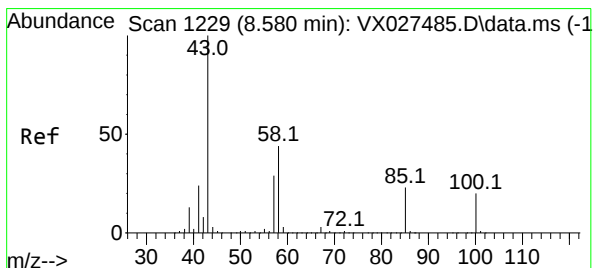
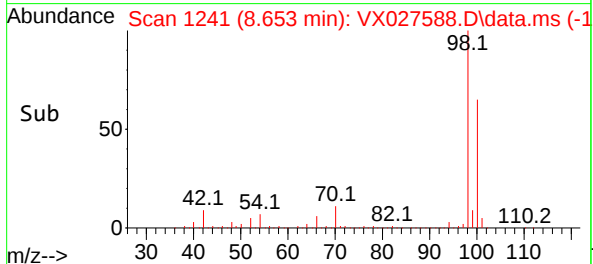
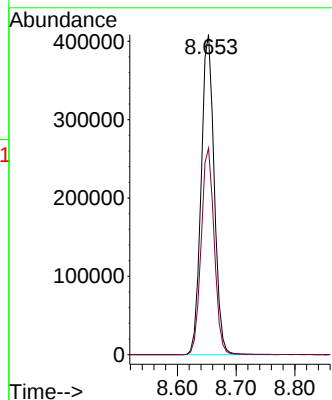
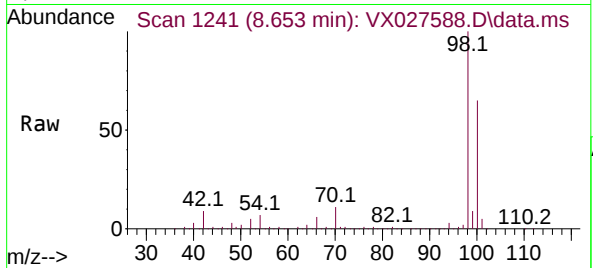




#50  
Toluene-d8  
Concen: 47.668 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

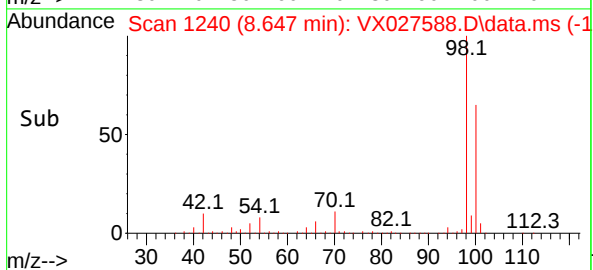
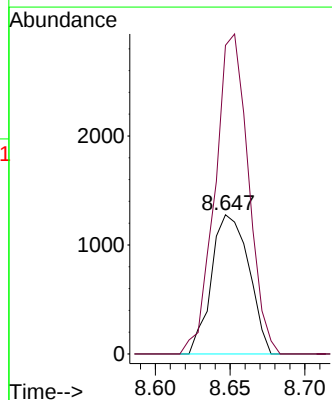
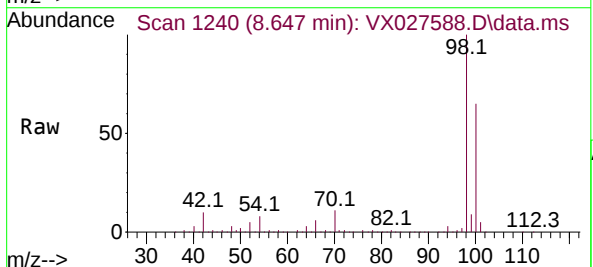
Instrument :  
MSVOA\_X  
ClientSampleId :

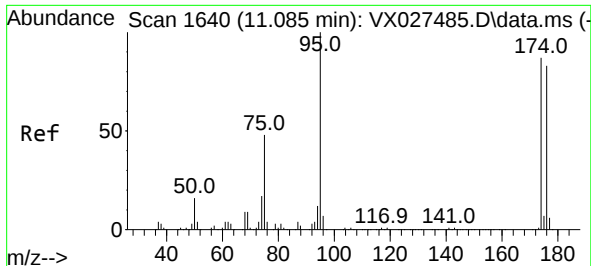
Tgt Ion: 98 Resp: 629619  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.455 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.067 min  
Lab File: VX027588.D  
Acq: 21 Mar 2022 16:01

Tgt Ion: 43 Resp: 2221  
Ion Ratio Lower Upper  
43 100  
58 205.2 36.1 54.1#





#62

4-Bromofluorobenzene

Concen: 45.032 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

Instrument :

MSVOA\_X

ClientSampleId :

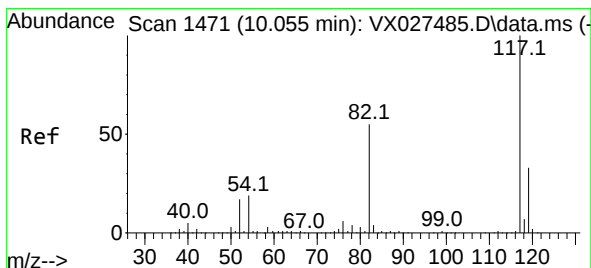
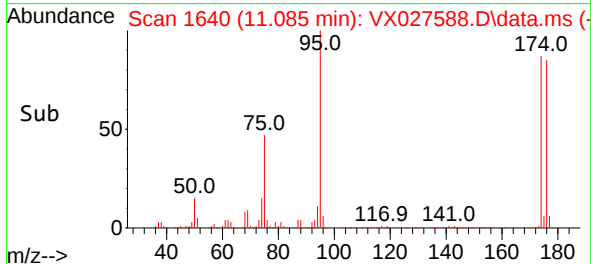
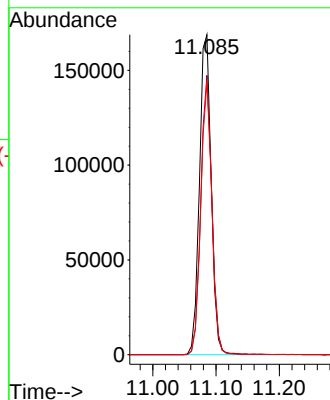
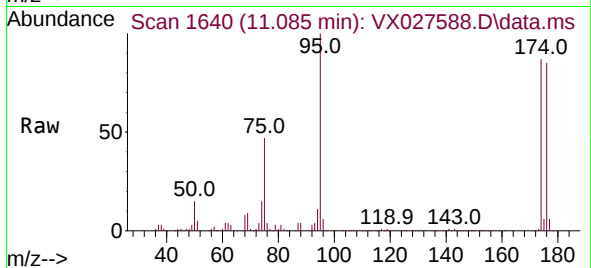
Tgt Ion: 95 Resp: 218623

Ion Ratio Lower Upper

95 100

174 83.0 0.0 163.0

176 80.4 0.0 155.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

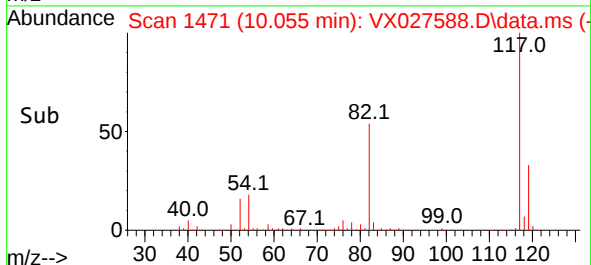
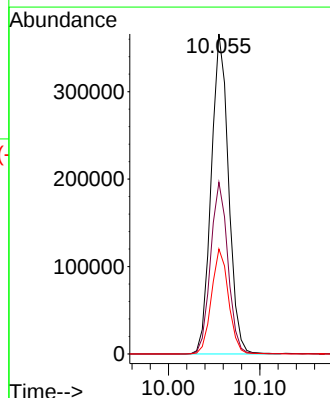
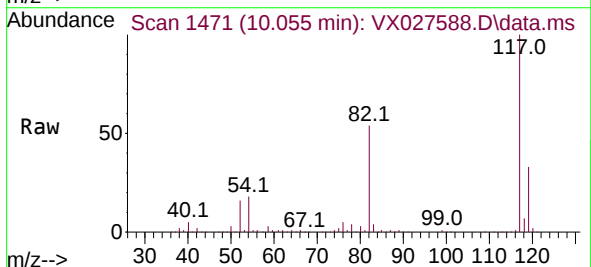
Tgt Ion: 117 Resp: 482704

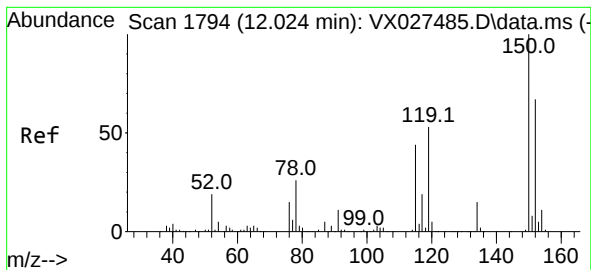
Ion Ratio Lower Upper

117 100

82 53.7 41.8 62.8

119 32.8 24.8 37.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX027588.D

Acq: 21 Mar 2022 16:01

Instrument :

MSVOA\_X

ClientSampleId :

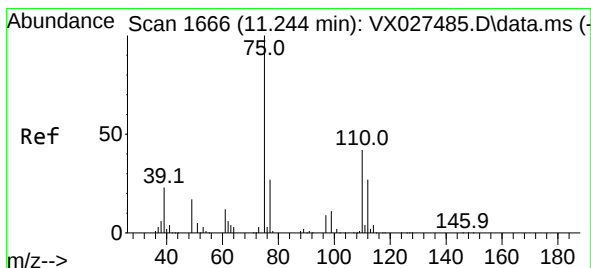
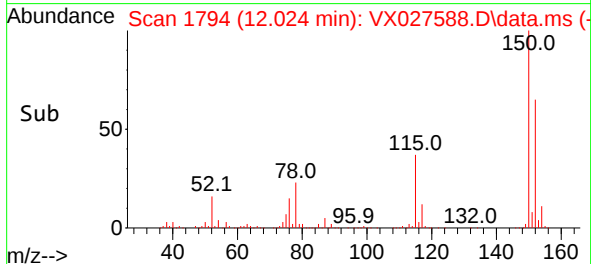
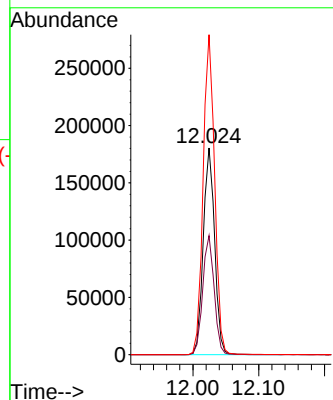
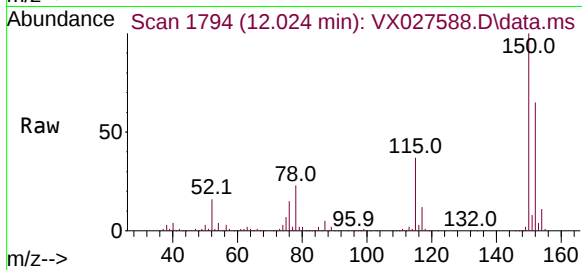
Tgt Ion:152 Resp: 216842

Ion Ratio Lower Upper

152 100

115 57.9 37.5 112.7

150 156.3 0.0 338.2



#76

1,2,3-Trichloropropane

Concen: 22.989 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.158 min

Lab File: VX027588.D

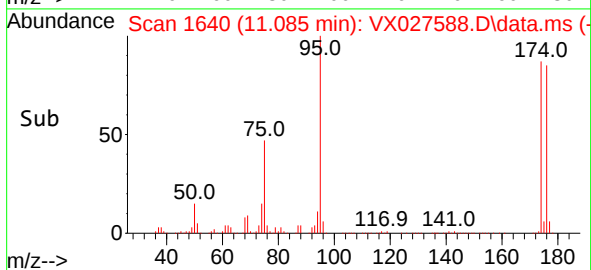
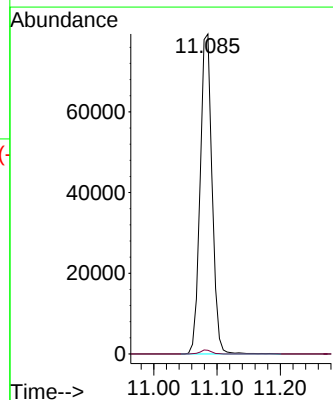
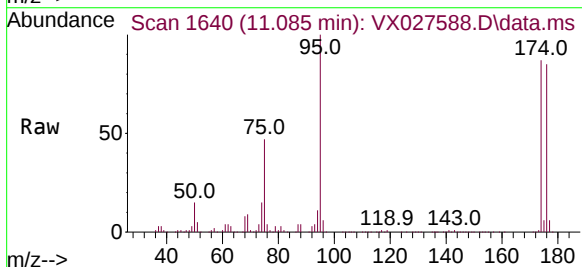
Acq: 21 Mar 2022 16:01

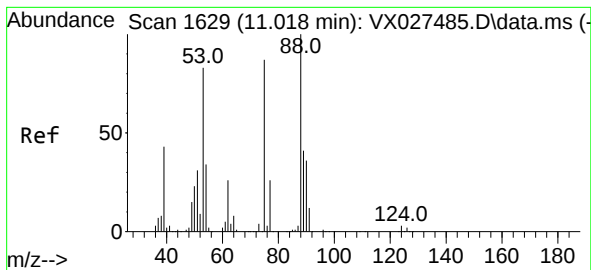
Tgt Ion: 75 Resp: 104267

Ion Ratio Lower Upper

75 100

77 1.2 19.4 58.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.817 ug/l  
 RT: 11.085 min Scan# 10  
 Delta R.T. 0.067 min  
 Lab File: VX027588.D  
 Acq: 21 Mar 2022 16:01

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 75 Resp: 104267  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#

