

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX040422\  
 Data File : VX027967.D  
 Acq On : 04 Apr 2022 18:54  
 Operator : JC/MD  
 Sample : PB143824ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 05 05:53:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

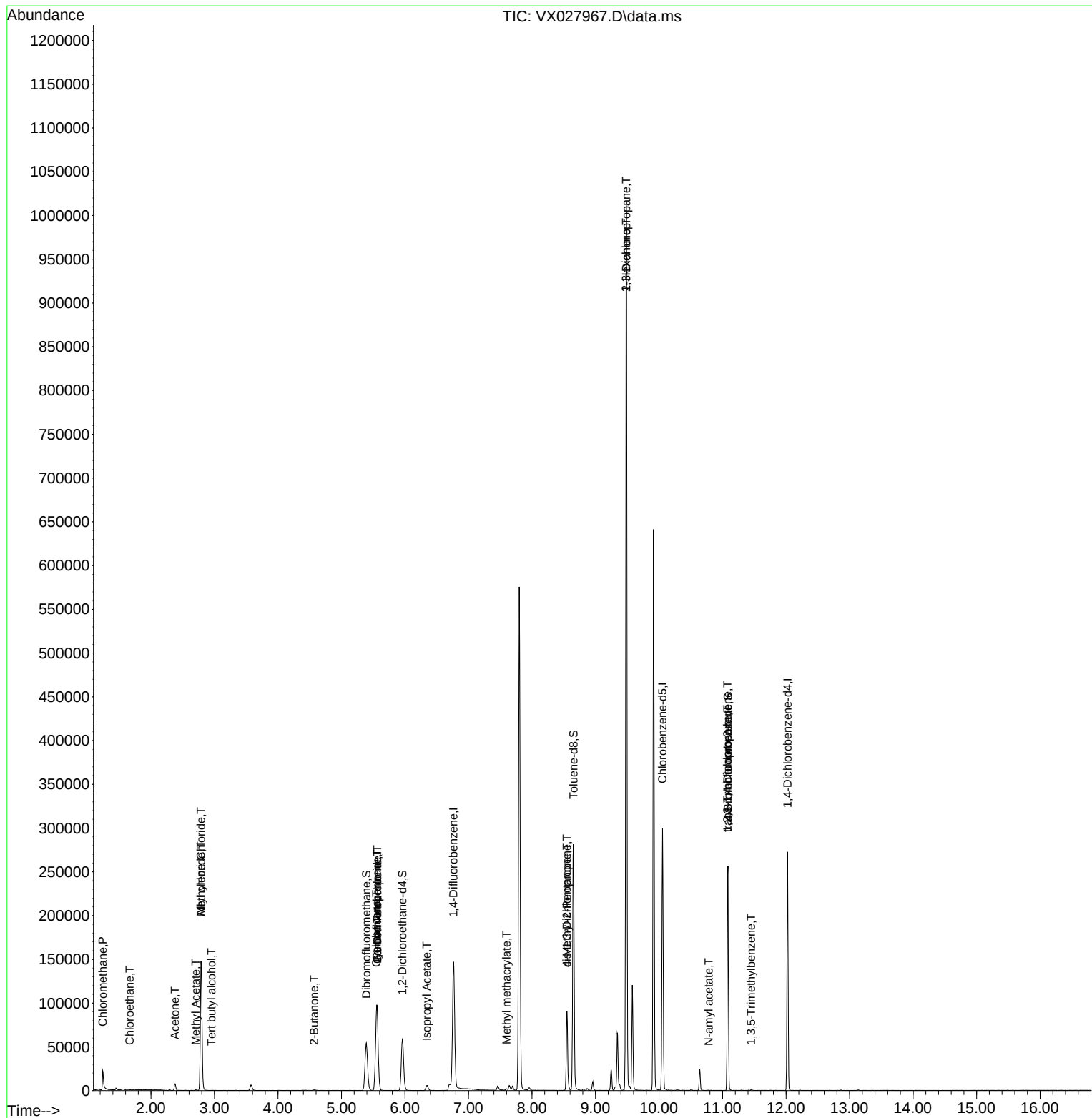
| Compound                      | R.T.           | QIon | Response            | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|-------|----------|
| -----                         |                |      |                     |        |       |          |
| Internal Standards            |                |      |                     |        |       |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 89801               | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 144757              | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 125383              | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 51404               | 50.000 | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 59593               | 51.432 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 102.860% |        |       |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 46504               | 49.770 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 99.540%  |        |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 166766              | 50.727 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 101.460% |        |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 68390               | 48.952 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 97.900%  |        |       |          |
| Target Compounds              |                |      |                     |        |       |          |
|                               |                |      |                     |        |       | Qvalue   |
| 3) Chloromethane              | 1.239          | 50   | 419                 | 0.583  | ug/l  | # 42     |
| 6) Chloroethane               | 1.666          | 64   | 449                 | 0.903  | ug/l  | # 43     |
| 11) Tert butyl alcohol        | 2.953          | 59   | 161                 | 0.723  | ug/l  | # 72     |
| 14) Allyl chloride            | 2.788          | 41   | 2366                | 1.670  | ug/l  | # 25     |
| 16) Acetone                   | 2.379          | 43   | 8503                | 16.582 | ug/l  | # 89     |
| 18) Methyl Acetate            | 2.703          | 43   | 975                 | 0.771  | ug/l  | # 69     |
| 20) Methylene Chloride        | 2.788          | 84   | 66052               | 71.612 | ug/l  | # 88     |
| 25) 2-Butanone                | 4.568          | 43   | 1425                | 1.910  | ug/l  | # 67     |
| 31) Cyclohexane               | 5.550          | 56   | 1901                | 1.484  | ug/l  | # 16     |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 7194                | 6.113  | ug/l  | # 49     |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 9563                | 7.355  | ug/l  | # 15     |
| 43) Isopropyl Acetate         | 6.342          | 43   | 7726                | 3.306  | ug/l  | # 95     |
| 48) Methyl methacrylate       | 7.598          | 41   | 2551                | 2.082  | ug/l  | # 7      |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 30932               | 19.082 | ug/l  | # 43     |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 13357               | 8.813  | ug/l  | # 74     |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 8628                | 5.146  | ug/l  | # 42     |
| 59) 2-Hexanone                | 9.482          | 43   | 124461              | 99.715 | ug/l  | # 42     |
| 74) N-amyl acetate            | 10.780         | 43   | 450                 | 0.261  | ug/l  | # 36     |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 37645               | 31.218 | ug/l  | # 38     |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 717                 | 0.216  | ug/l  | # 85     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 37645               | 90.791 | ug/l  | # 15     |
| -----                         |                |      |                     |        |       |          |

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

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MSVOA\_X  
ClientSampleId :

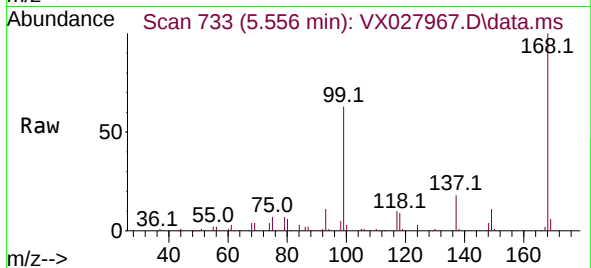
Quant Time: Apr 05 05:53:15 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
Quant Title : SW846 8260  
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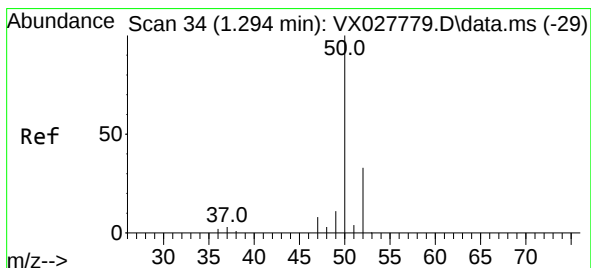
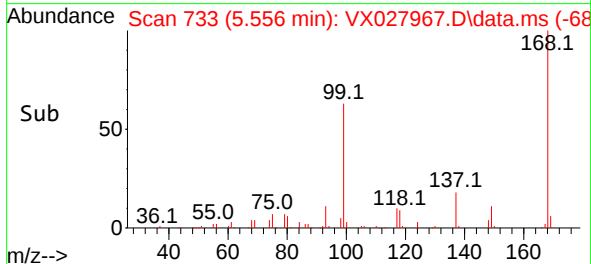
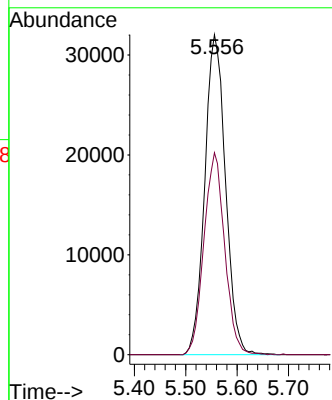


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

Instrument :  
MSVOA\_X  
ClientSampleId :

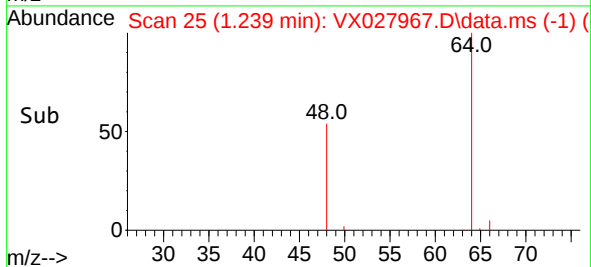
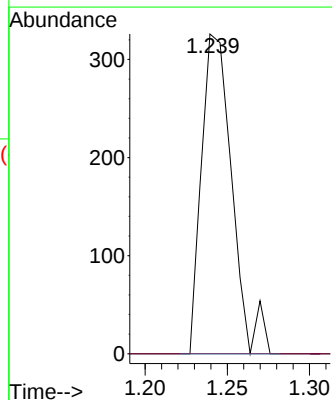
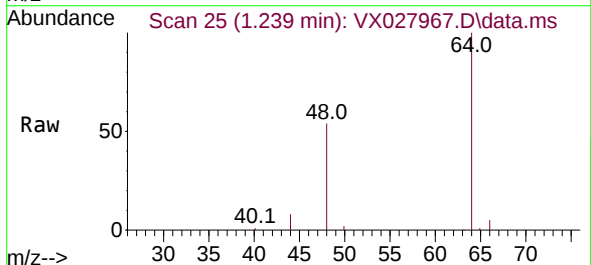


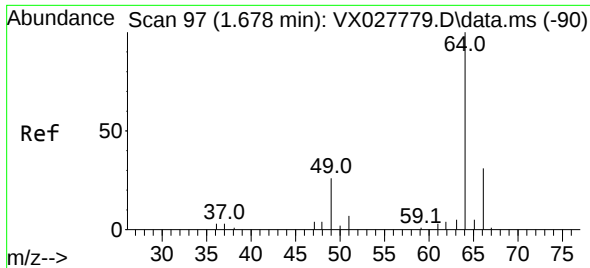
Tgt Ion:168 Resp: 89801  
Ion Ratio Lower Upper  
168 100  
99 63.1 41.7 62.5#



#3  
Chloromethane  
Concen: 0.583 ug/l  
RT: 1.239 min Scan# 25  
Delta R.T. -0.055 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

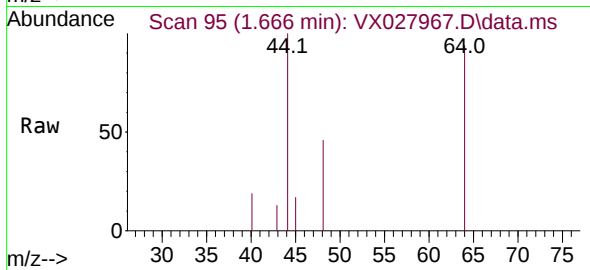
Tgt Ion: 50 Resp: 419  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.4 39.6#



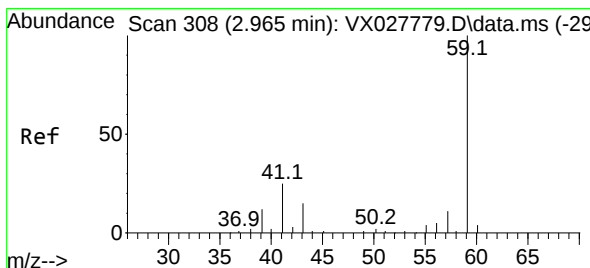
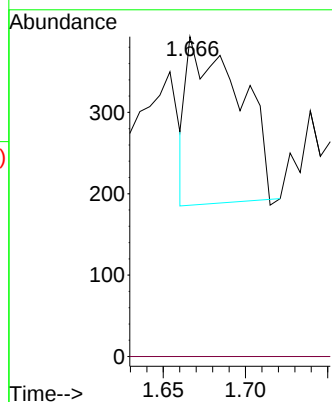
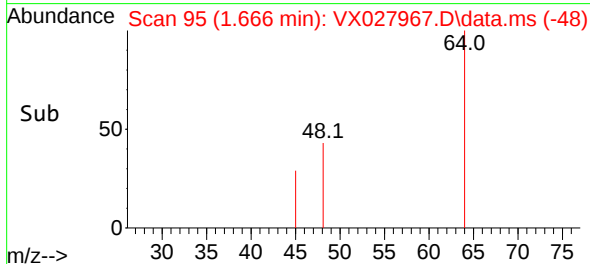


#6  
Chloroethane  
Concen: 0.903 ug/l  
RT: 1.666 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

Instrument :  
MSVOA\_X  
ClientSampleId :

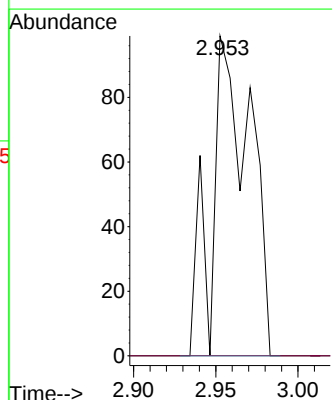
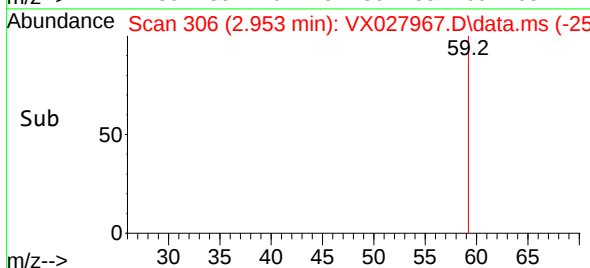
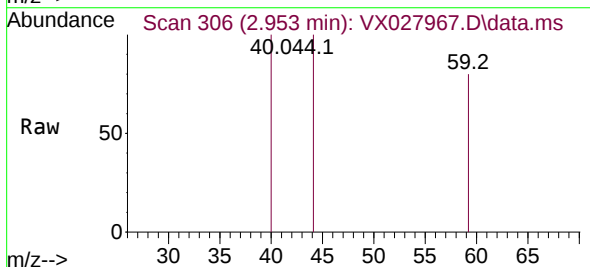


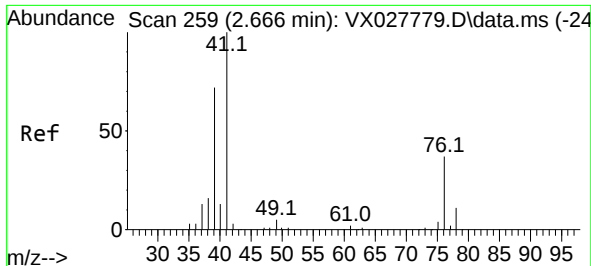
Tgt Ion: 64 Resp: 449  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.3 37.9#



#11  
Tert butyl alcohol  
Concen: 0.723 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.012 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

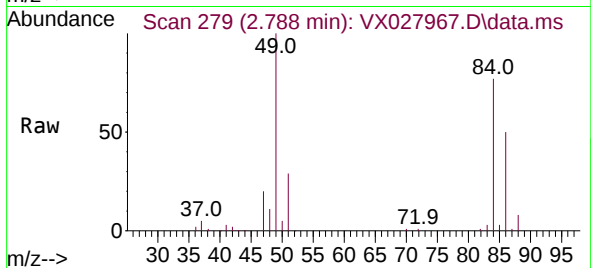
Tgt Ion: 59 Resp: 161  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



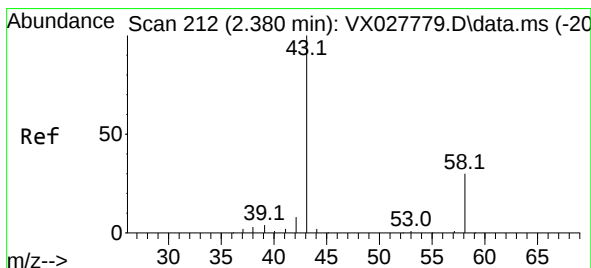
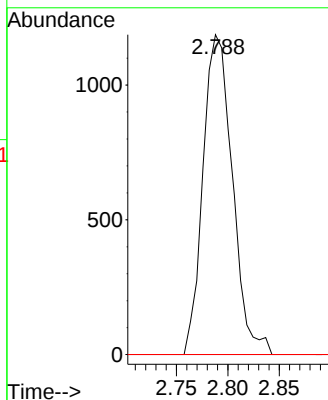
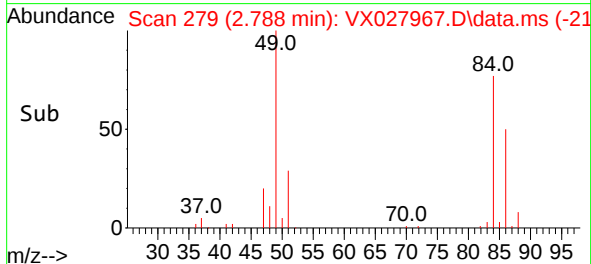


#14  
 Allyl chloride  
 Concen: 1.670 ug/l  
 RT: 2.788 min Scan# 21  
 Delta R.T. 0.122 min  
 Lab File: VX027967.D  
 Acq: 04 Apr 2022 18:54

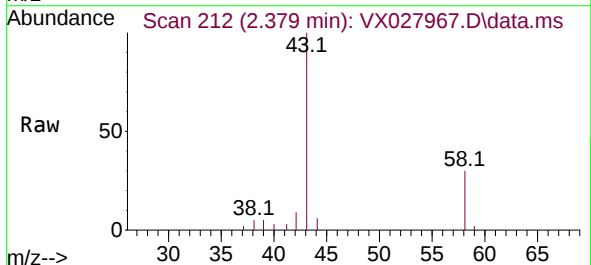
Instrument :  
 MSVOA\_X  
 ClientSampleId :



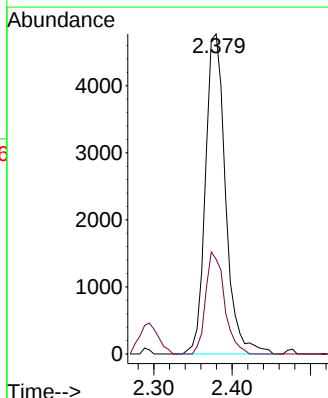
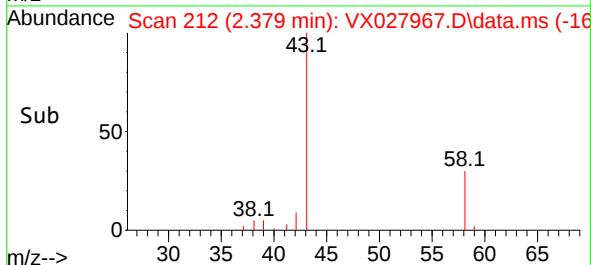
Tgt Ion: 41 Resp: 2366  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 50.4 75.6#  
 76 0.0 32.7 49.1#

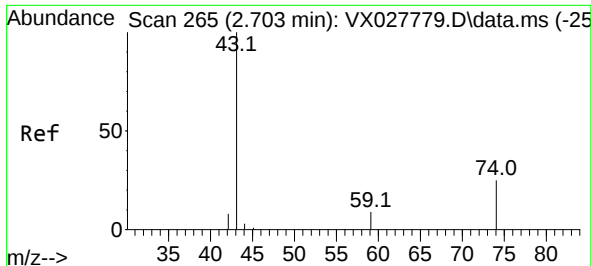


#16  
 Acetone  
 Concen: 16.582 ug/l  
 RT: 2.379 min Scan# 212  
 Delta R.T. -0.001 min  
 Lab File: VX027967.D  
 Acq: 04 Apr 2022 18:54



Tgt Ion: 43 Resp: 8503  
 Ion Ratio Lower Upper  
 43 100  
 58 29.6 28.8 43.2

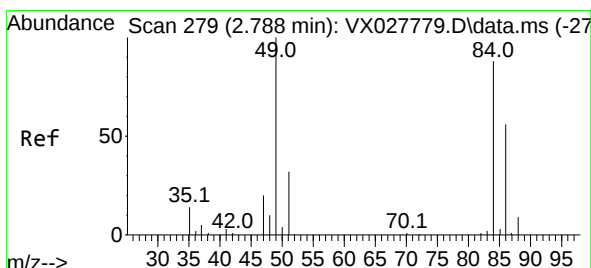
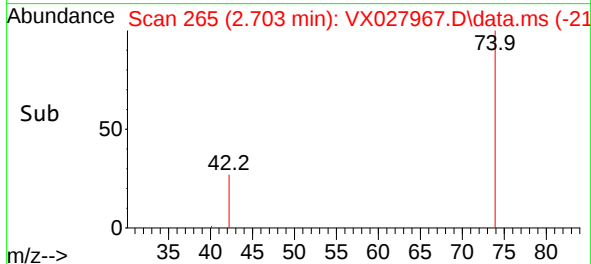
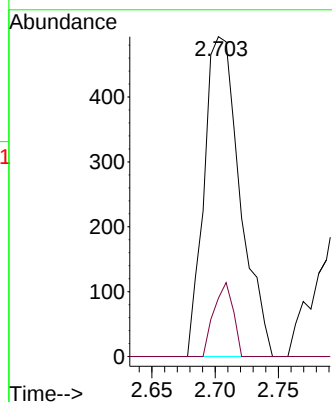
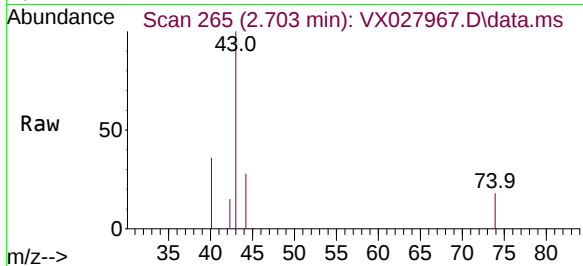




#18  
Methyl Acetate  
Concen: 0.771 ug/l  
RT: 2.703 min Scan# 218  
Delta R.T. -0.000 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

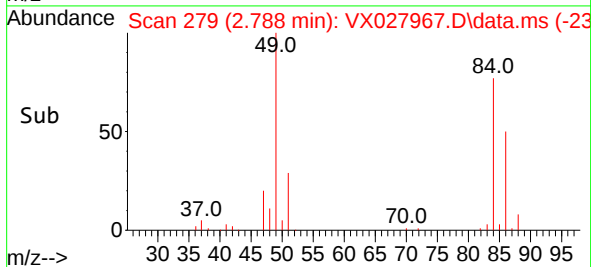
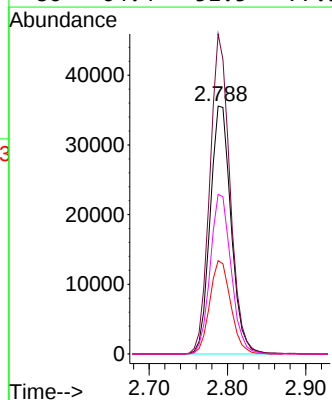
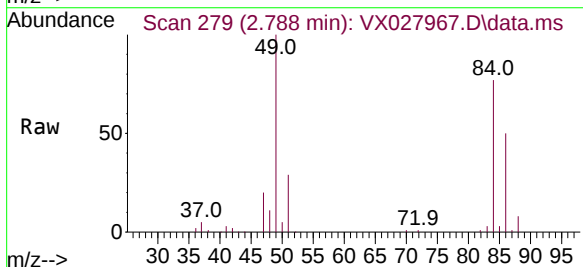
Instrument :  
MSVOA\_X  
ClientSampleId :

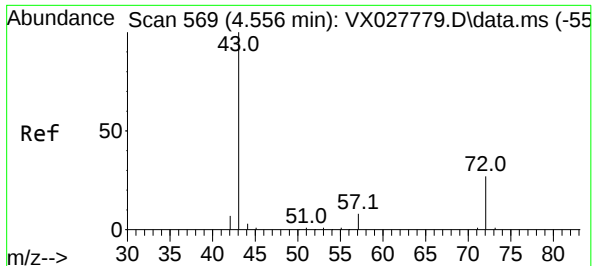
Tgt Ion: 43 Resp: 975  
Ion Ratio Lower Upper  
43 100  
74 12.3 22.8 34.2#



#20  
Methylene Chloride  
Concen: 71.612 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

Tgt Ion: 84 Resp: 66052  
Ion Ratio Lower Upper  
84 100  
49 129.1 85.5 128.3#  
51 37.7 26.6 39.8  
86 64.4 51.5 77.3





#25

2-Butanone

Concen: 1.910 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

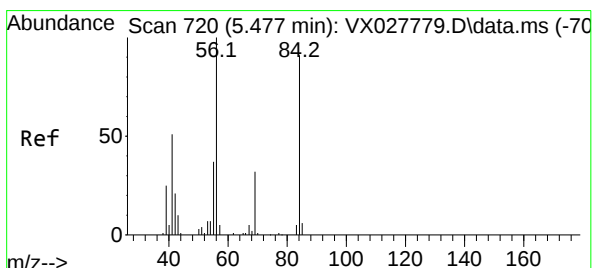
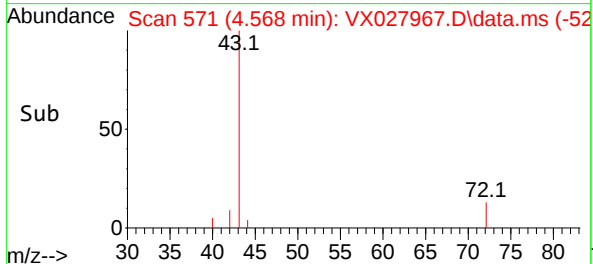
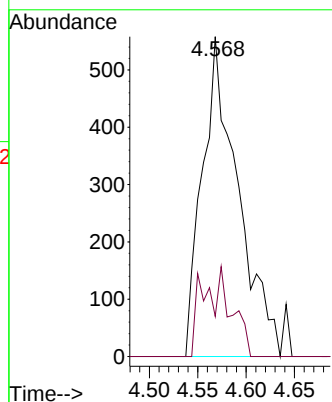
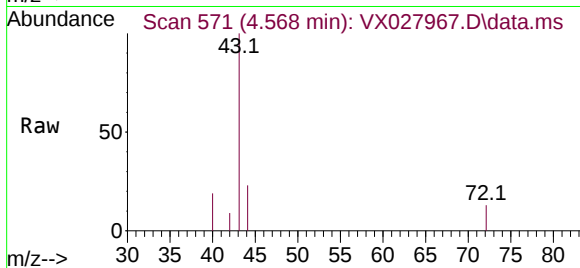
ClientSampleId :

Tgt Ion: 43 Resp: 1425

Ion Ratio Lower Upper

43 100

72 12.5 24.4 36.6#



#31

Cyclohexane

Concen: 1.484 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.073 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

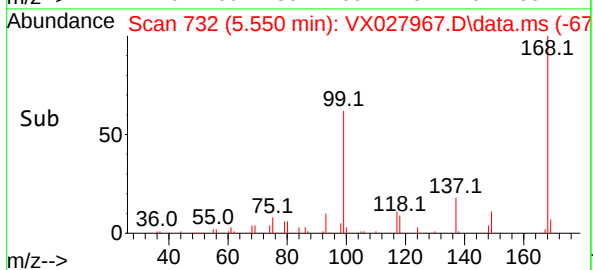
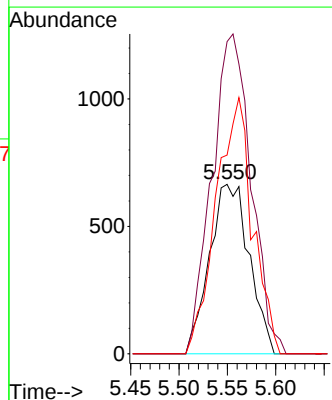
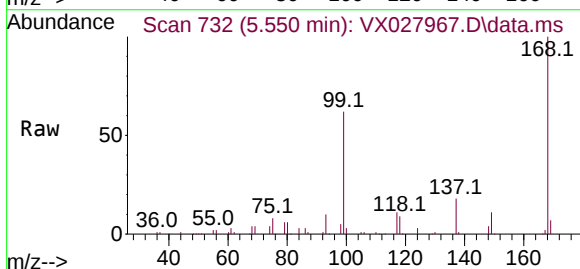
Tgt Ion: 56 Resp: 1901

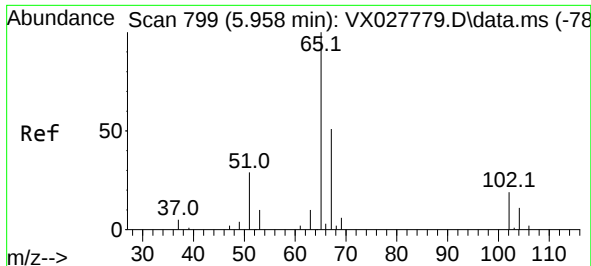
Ion Ratio Lower Upper

56 100

69 184.2 26.7 40.1#

84 117.3 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 51.432 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

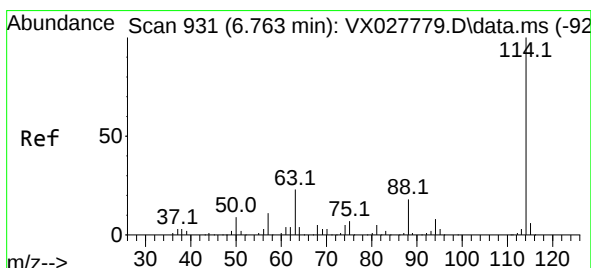
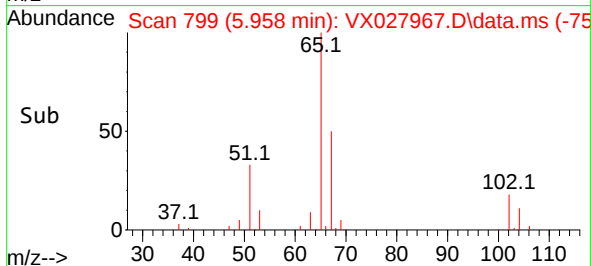
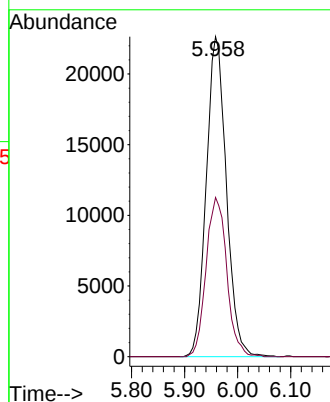
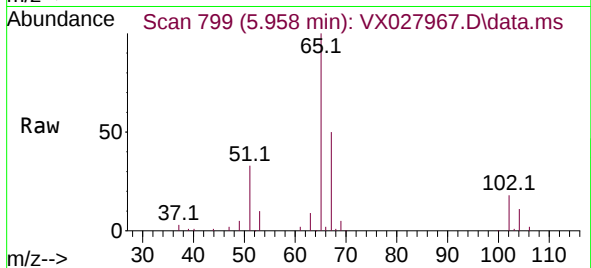
ClientSampleId :

Tgt Ion: 65 Resp: 59593

Ion Ratio Lower Upper

65 100

67 51.2 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: VX027967.D

Acq: 04 Apr 2022 18:54

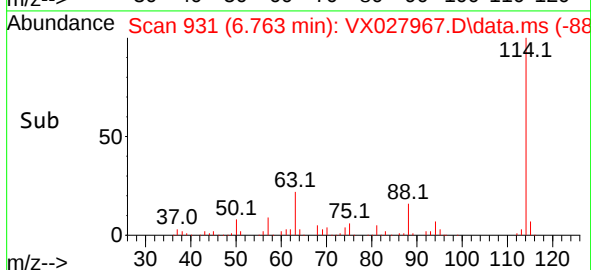
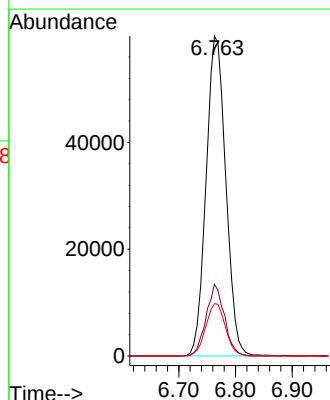
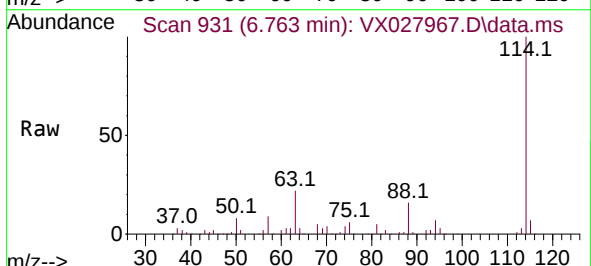
Tgt Ion: 114 Resp: 144757

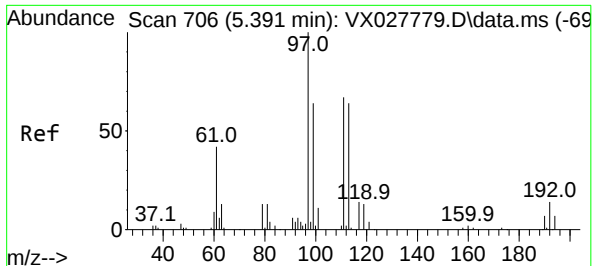
Ion Ratio Lower Upper

114 100

63 22.4 0.0 36.8

88 16.4 0.0 32.4





#35

Dibromofluoromethane

Concen: 49.770 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

ClientSampleId :

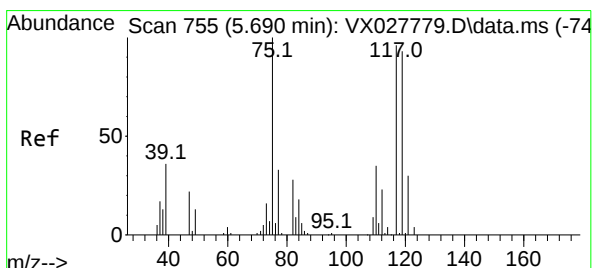
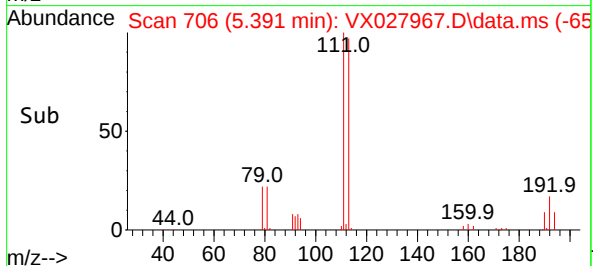
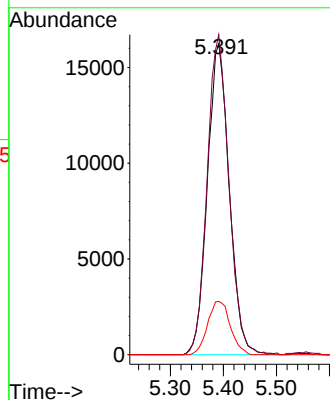
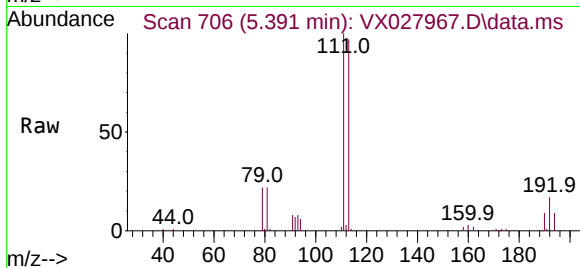
Tgt Ion:113 Resp: 46504

Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

192 17.8 16.9 25.3



#36

1,1-Dichloropropene

Concen: 6.113 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

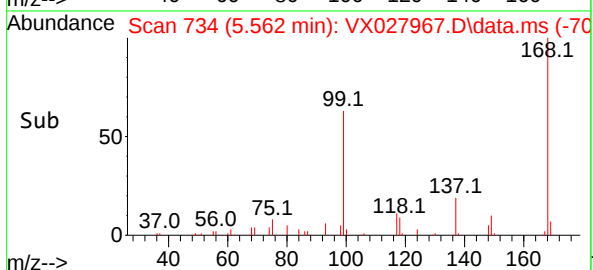
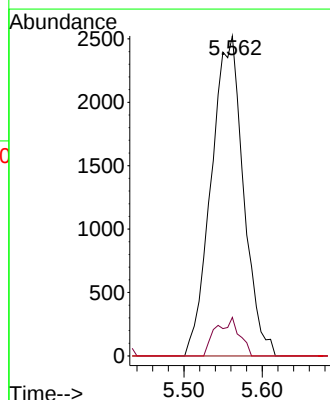
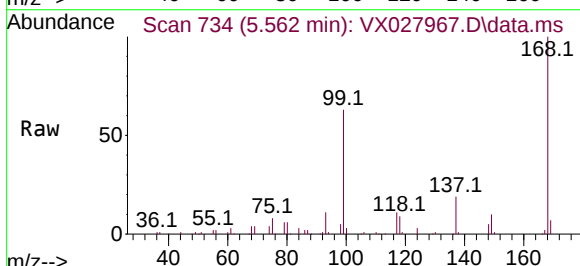
Tgt Ion: 75 Resp: 7194

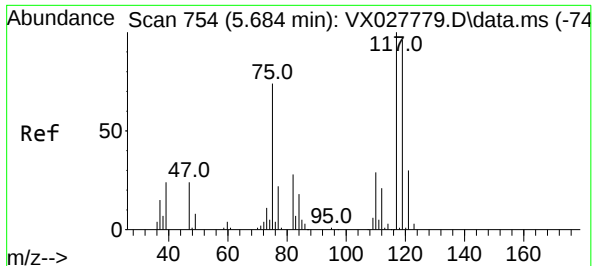
Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.8#

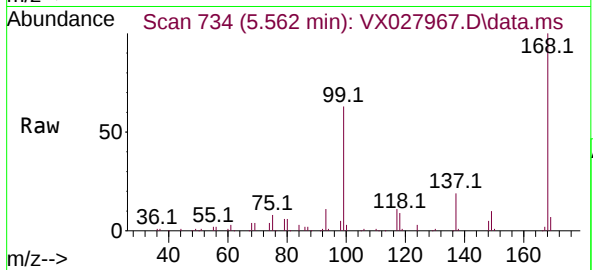
77 0.0 24.8 37.2#



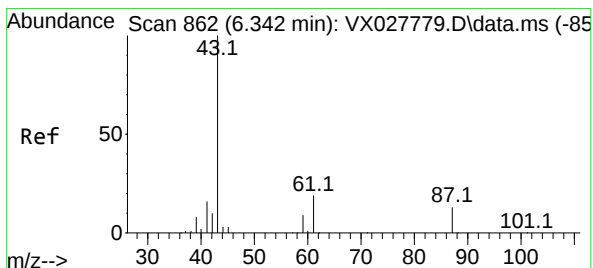
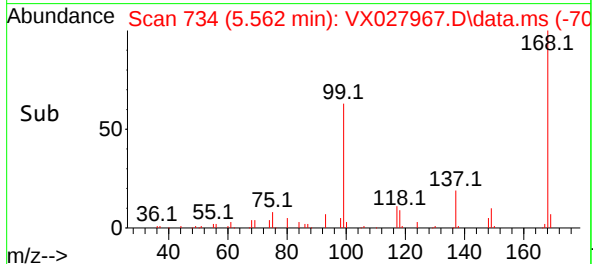
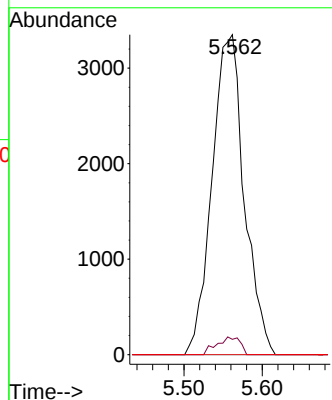


#38  
Carbon Tetrachloride  
Concen: 7.355 ug/l  
RT: 5.562 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

Instrument :  
MSVOA\_X  
ClientSampleId :

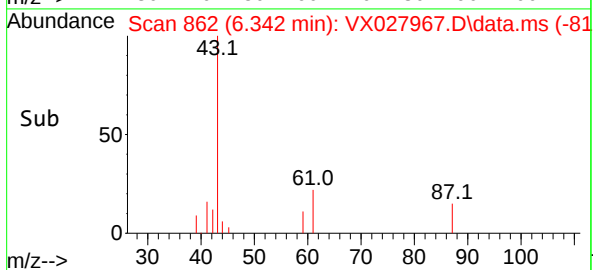
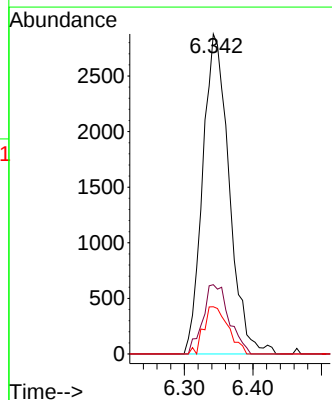
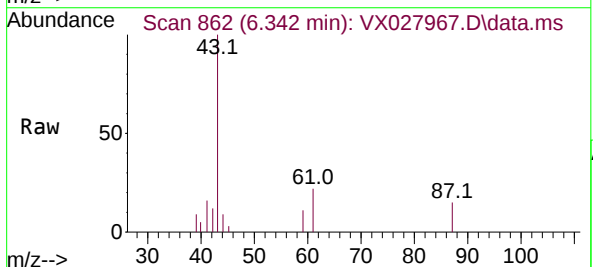


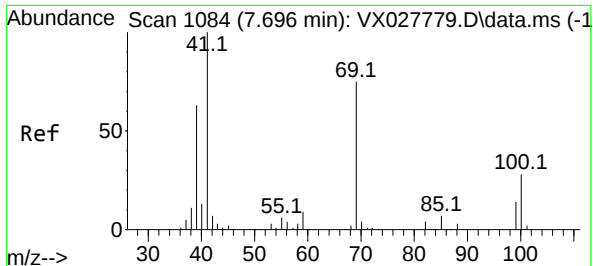
Tgt Ion:117 Resp: 9563  
Ion Ratio Lower Upper  
117 100  
119 4.8 77.3 115.9#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 3.306 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

Tgt Ion: 43 Resp: 7726  
Ion Ratio Lower Upper  
43 100  
61 21.4 18.5 27.7  
87 13.7 13.0 19.6





#48

Methyl methacrylate

Concen: 2.082 ug/l

RT: 7.598 min Scan# 1068

Delta R.T. -0.098 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

ClientSampleId :

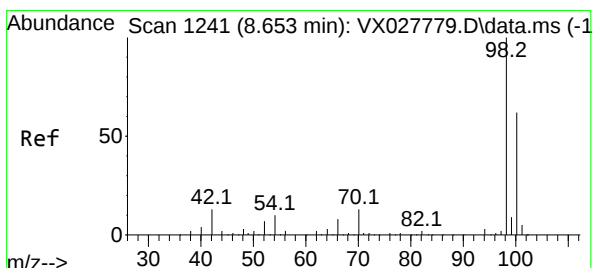
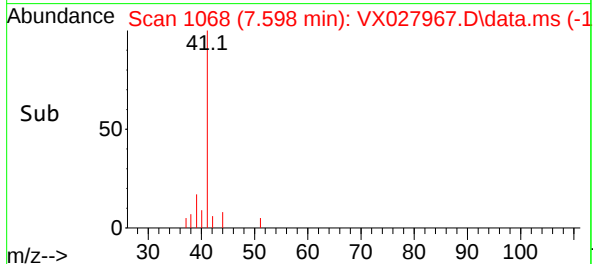
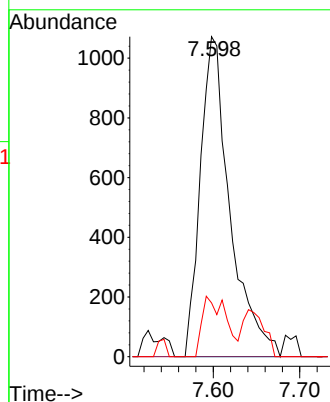
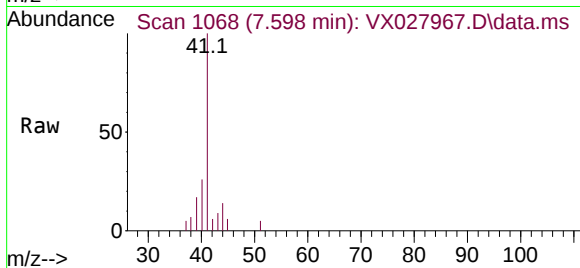
Tgt Ion: 41 Resp: 2551

Ion Ratio Lower Upper

41 100

69 0.0 82.5 123.7#

39 0.0 43.8 65.8#



#50

Toluene-d8

Concen: 50.727 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX027967.D

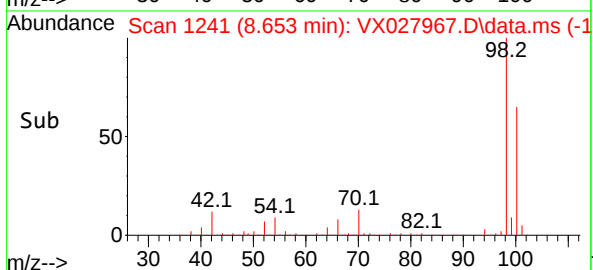
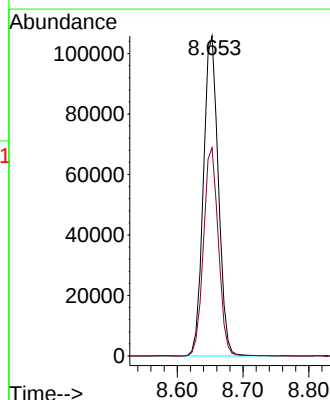
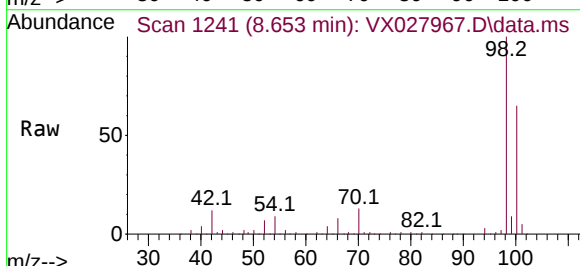
Acq: 04 Apr 2022 18:54

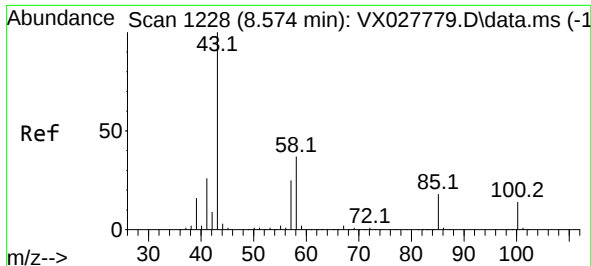
Tgt Ion: 98 Resp: 166766

Ion Ratio Lower Upper

98 100

100 64.8 52.6 78.8

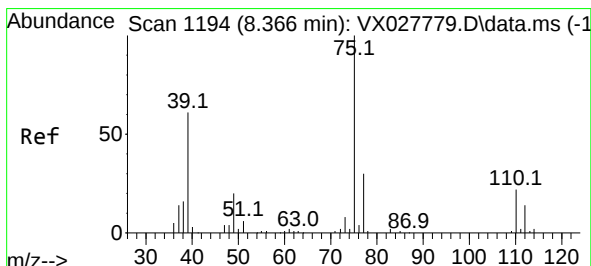
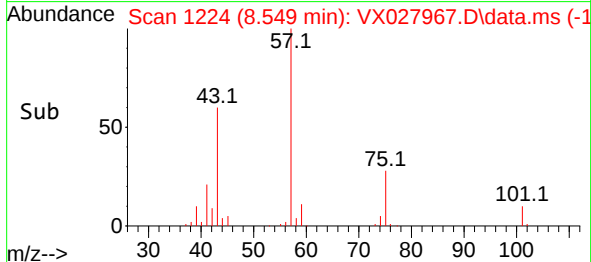
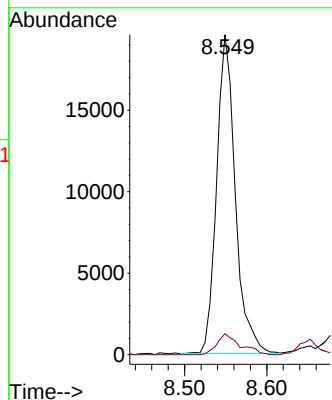
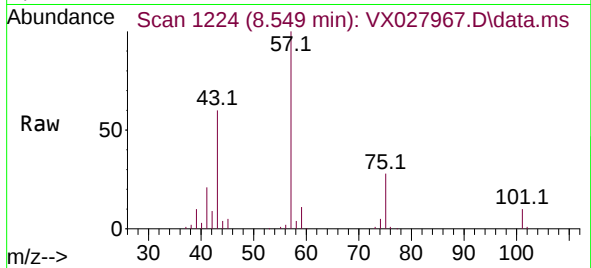




#51  
4-Methyl-2-Pentanone  
Concen: 19.082 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

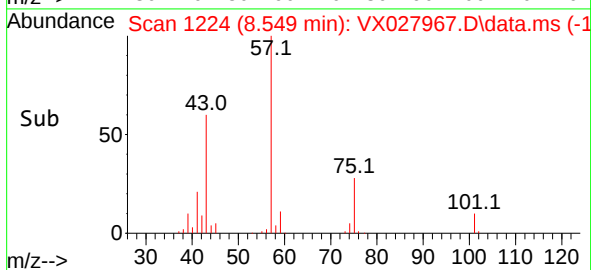
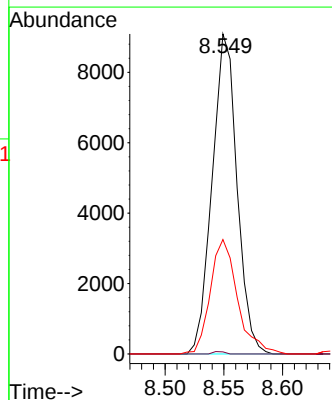
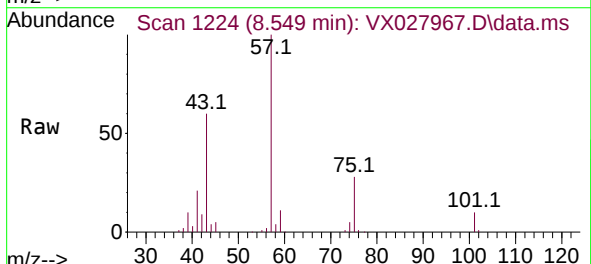
Instrument :  
MSVOA\_X  
ClientSampleId :

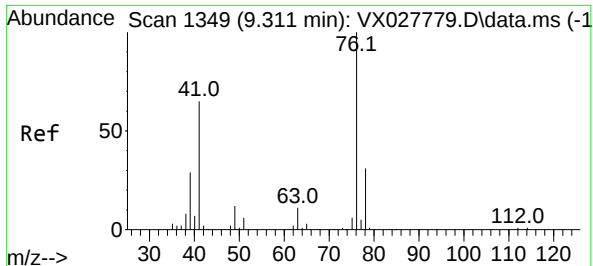
Tgt Ion: 43 Resp: 30932  
Ion Ratio Lower Upper  
43 100  
58 8.1 36.1 54.1#



#54  
cis-1,3-Dichloropropene  
Concen: 8.813 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

Tgt Ion: 75 Resp: 13357  
Ion Ratio Lower Upper  
75 100  
77 0.6 24.8 37.2#  
39 35.7 29.6 44.4





#57

1,3-Dichloropropane

Concen: 5.146 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

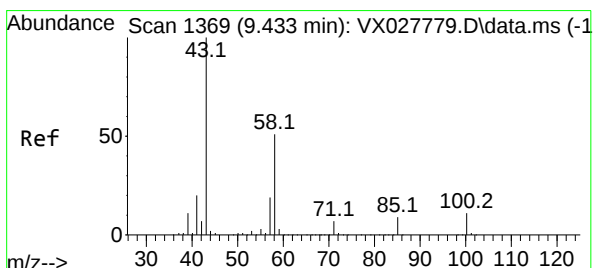
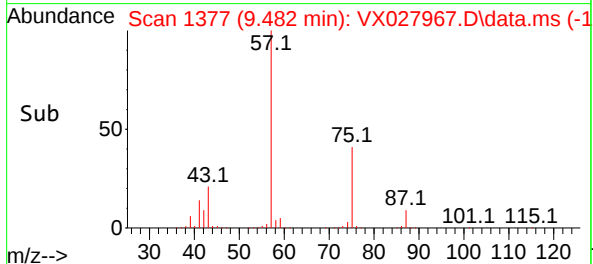
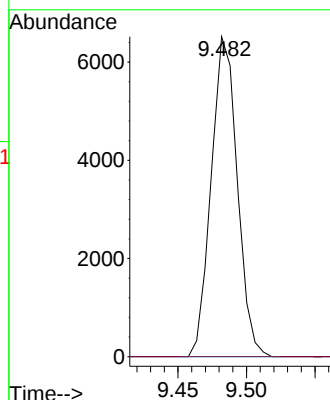
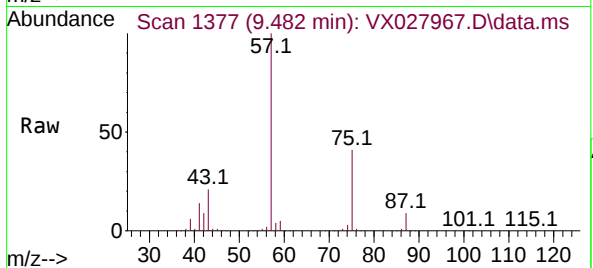
ClientSampleId :

Tgt Ion: 76 Resp: 8628

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 99.715 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX027967.D

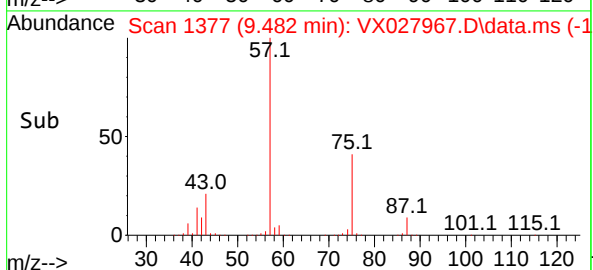
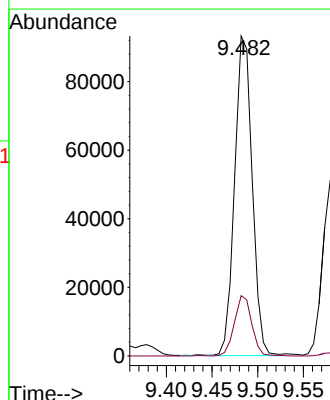
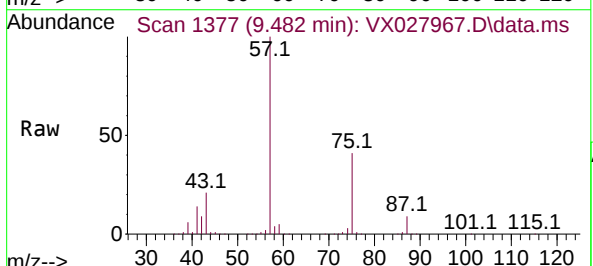
Acq: 04 Apr 2022 18:54

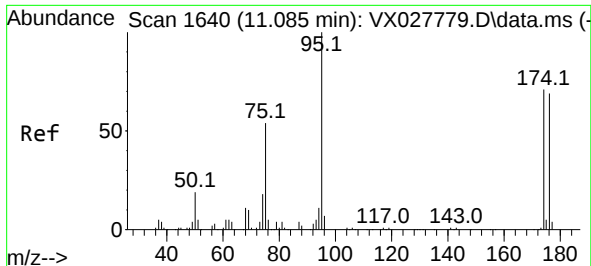
Tgt Ion: 43 Resp: 124461

Ion Ratio Lower Upper

43 100

58 18.6 31.9 95.7#





#62

4-Bromofluorobenzene

Concen: 48.952 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

ClientSampleId :

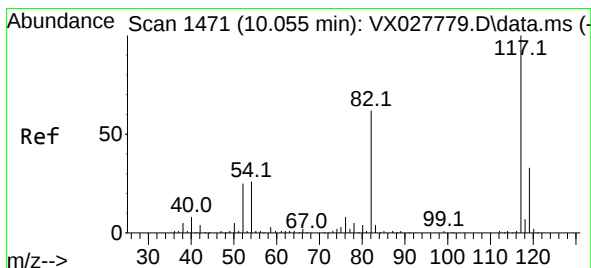
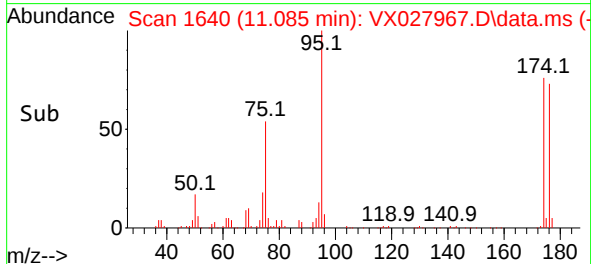
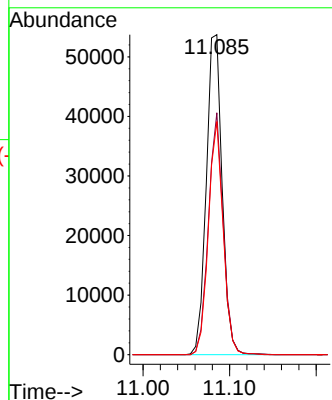
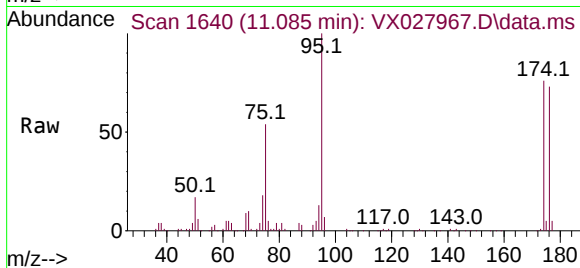
Tgt Ion: 95 Resp: 68390

Ion Ratio Lower Upper

95 100

174 70.5 0.0 163.0

176 67.7 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: VX027967.D

Acq: 04 Apr 2022 18:54

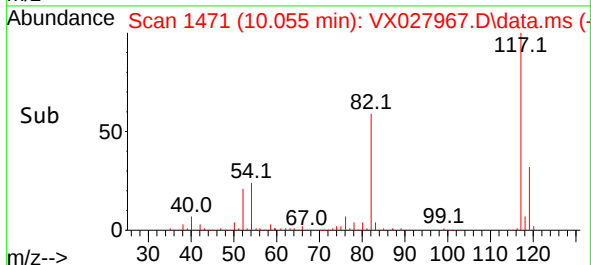
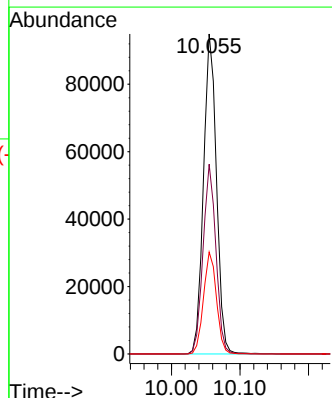
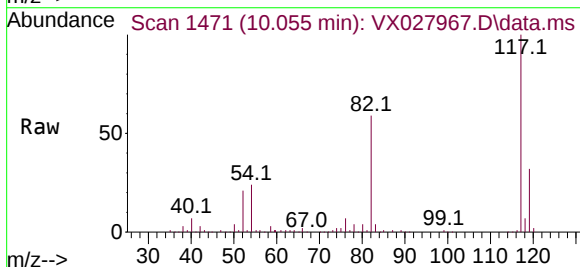
Tgt Ion: 117 Resp: 125383

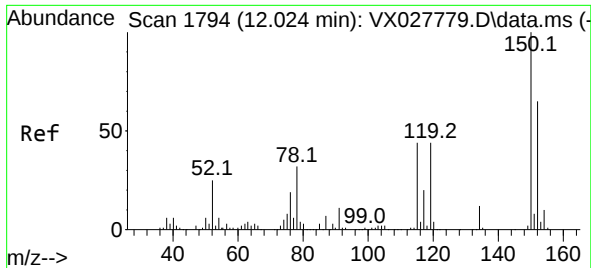
Ion Ratio Lower Upper

117 100

82 59.3 41.8 62.8

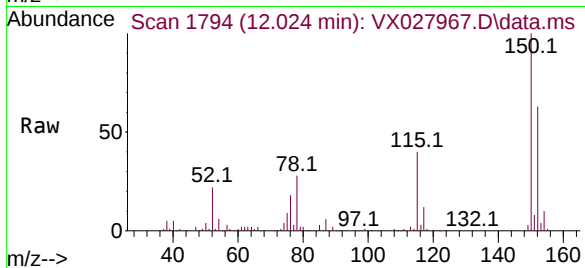
119 31.8 24.8 37.2



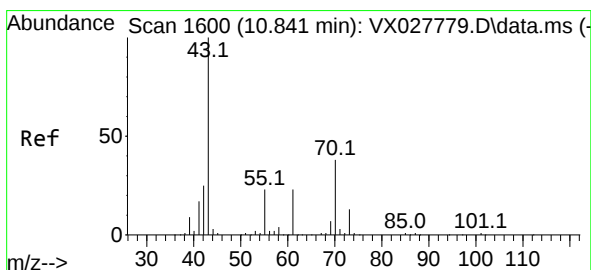
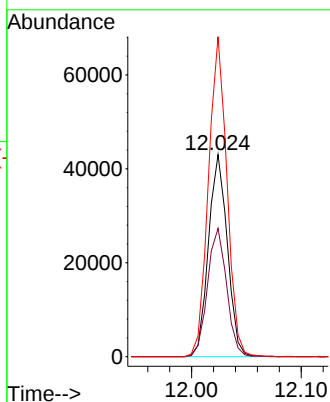
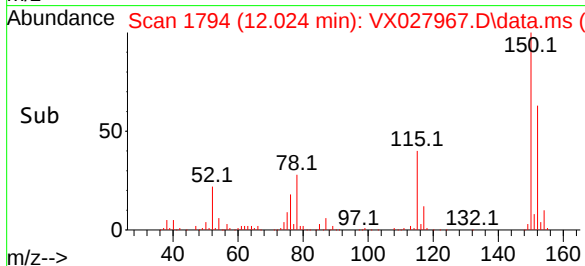


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54

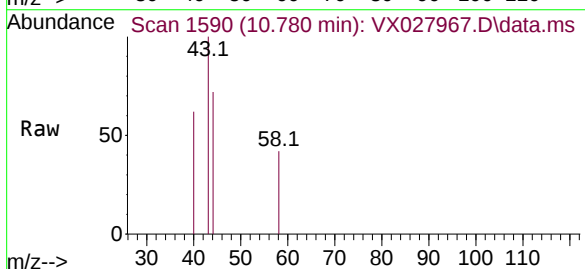
Instrument :  
MSVOA\_X  
ClientSampleId :



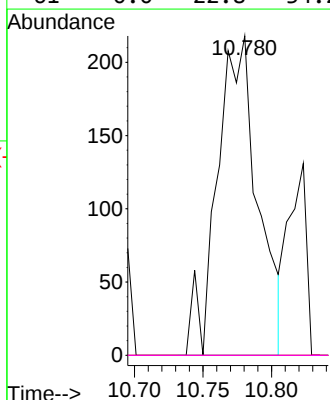
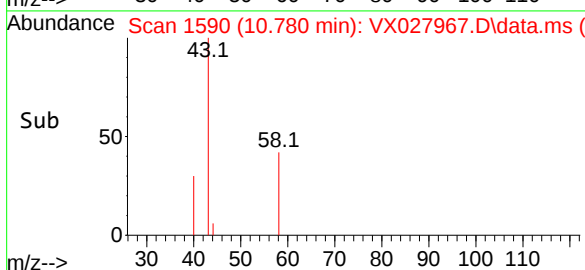
Tgt Ion:152 Resp: 51404  
Ion Ratio Lower Upper  
152 100  
115 64.5 37.5 112.7  
150 155.3 0.0 338.2

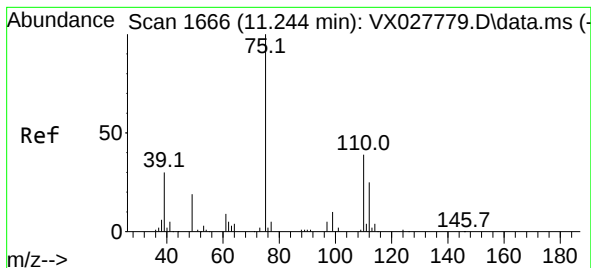


#74  
N-ethyl acetate  
Concen: 0.261 ug/l  
RT: 10.780 min Scan# 1590  
Delta R.T. -0.061 min  
Lab File: VX027967.D  
Acq: 04 Apr 2022 18:54



Tgt Ion: 43 Resp: 450  
Ion Ratio Lower Upper  
43 100  
70 0.0 42.5 63.7#  
55 0.0 23.1 34.7#  
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 31.218 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.165 min

Lab File: VX027967.D

Acq: 04 Apr 2022 18:54

Instrument :

MSVOA\_X

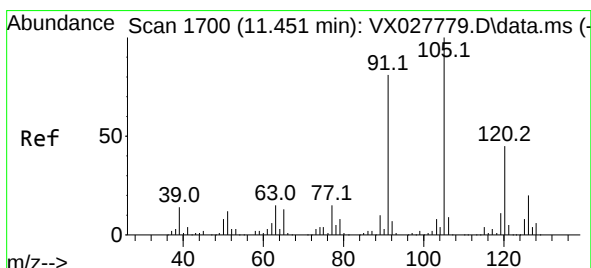
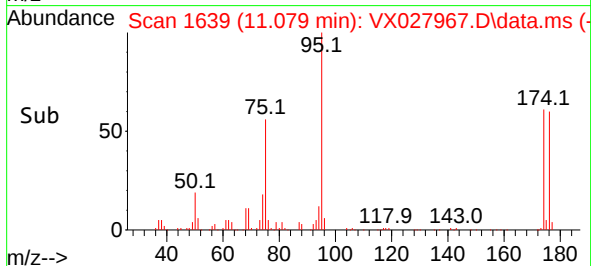
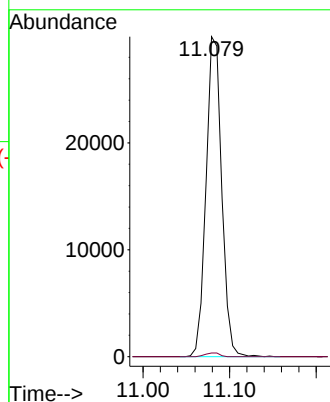
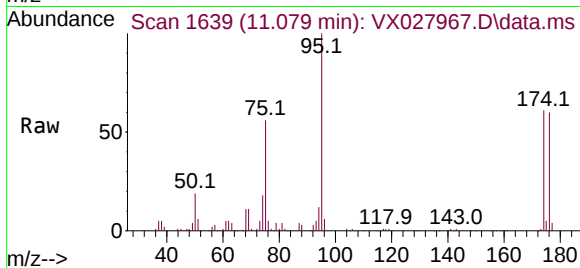
ClientSampleId :

Tgt Ion: 75 Resp: 37645

Ion Ratio Lower Upper

75 100

77 1.1 19.4 58.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.216 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX027967.D

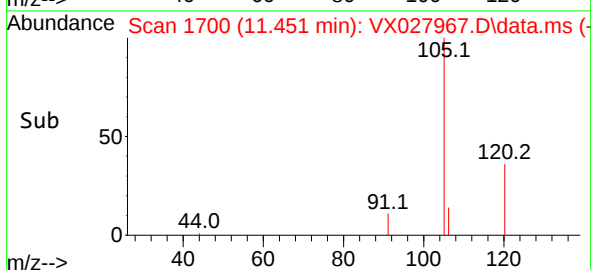
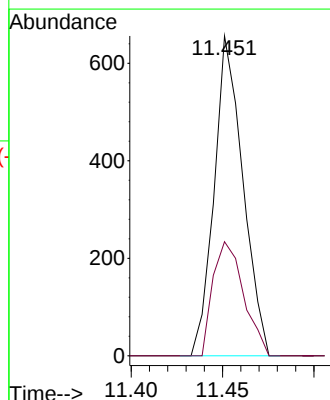
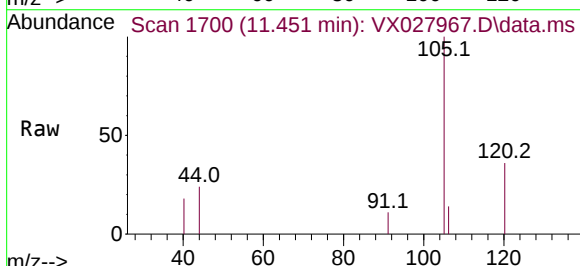
Acq: 04 Apr 2022 18:54

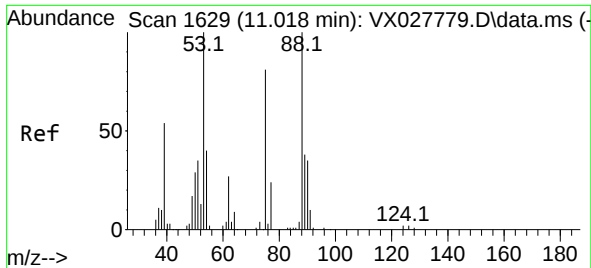
Tgt Ion: 105 Resp: 717

Ion Ratio Lower Upper

105 100

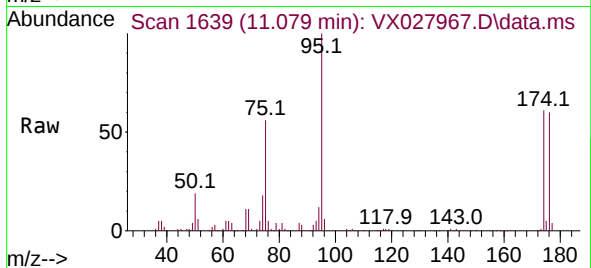
120 38.1 24.3 72.9





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 90.791 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX027967.D  
 Acq: 04 Apr 2022 18:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 37645  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#

