

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072921\  
 Data File : VX023499.D  
 Acq On : 28 Jul 2021 18:56  
 Operator : JC/MD  
 Sample : VX0729WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 29 03:16:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X072921W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 29 03:13:17 2021  
 Response via : Initial Calibration

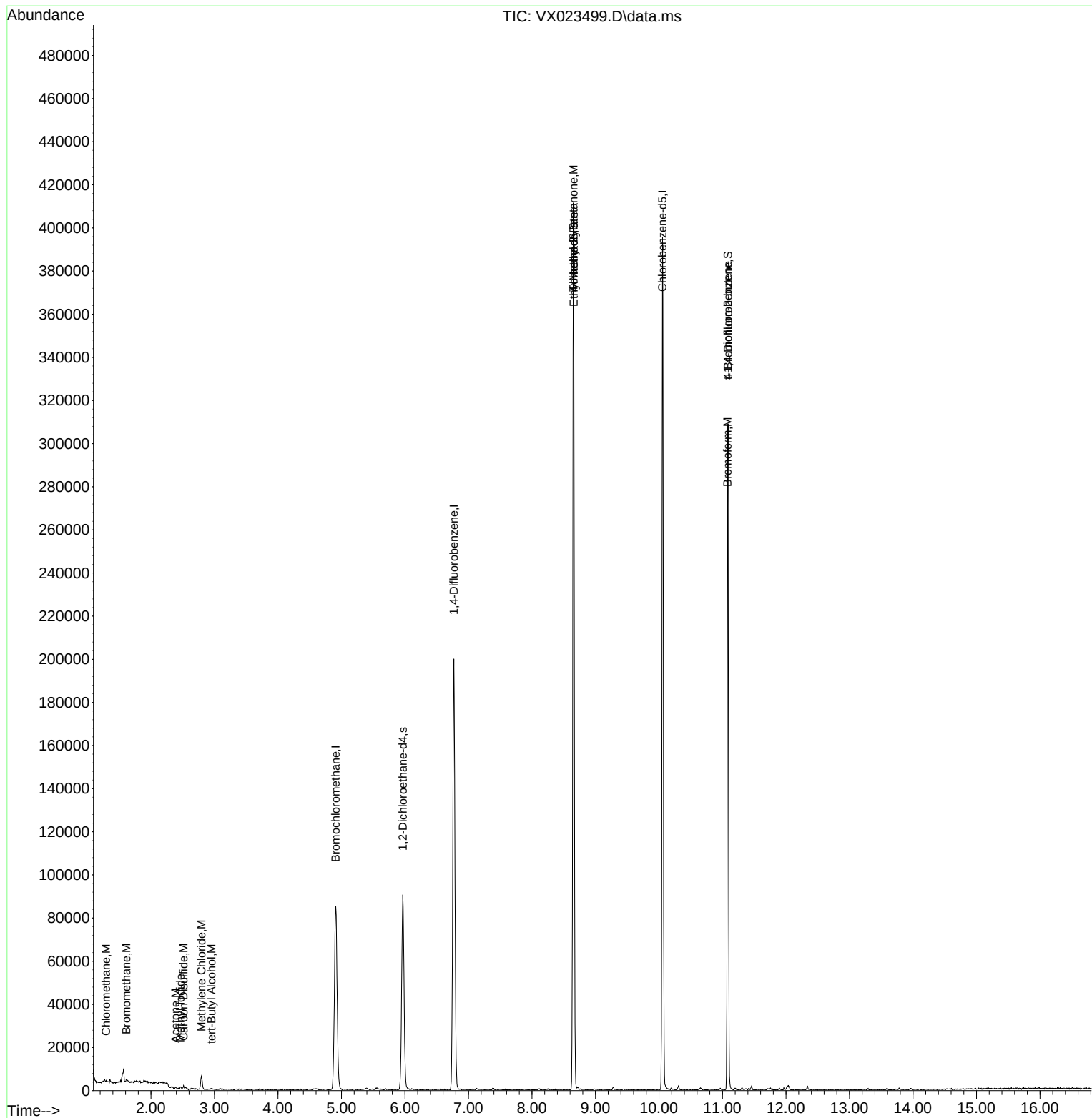
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.910  | 128   | 35998    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.769  | 114   | 199818   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 177681   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.964  | 65    | 84193    | 30.795   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 102.667% |
| 60) 4-Bromofluorobenzene    | 11.085 | 95    | 77302    | 26.920   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 89.733%  |
| 63) Toluene-d8              | 8.653  | 98    | 239478   | 29.876   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 99.600%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 1.295  | 50    | 580      | 0.245    | ug/l   | 93       |
| 5) Bromomethane             | 1.612  | 94    | 623      | 0.434    | ug/l # | 76       |
| 11) Methyl Iodide           | 2.465  | 142   | 1243     | 0.435    | ug/l # | 88       |
| 15) Acetone                 | 2.386  | 58    | 78       | 0.200    | ug/l # | 1        |
| 16) Carbon Disulfide        | 2.514  | 76    | 1340     | 0.274    | ug/l # | 92       |
| 18) Methylene Chloride      | 2.794  | 84    | 2601     | 1.070    | ug/l # | 93       |
| 23) tert-Butyl Alcohol      | 2.953  | 59    | 158      | 0.261    | ug/l # | 100      |
| 51) Ethyl methacrylate      | 8.659  | 69    | 924      | 0.238    | ug/l   | 83       |
| 56) Bromoform               | 11.079 | 173   | 755      | 0.456    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.653  | 43    | 1160     | 0.312    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.085 | 75    | 40291    | 36.323   | ug/l # | 7        |
| -----                       |        |       |          |          |        |          |

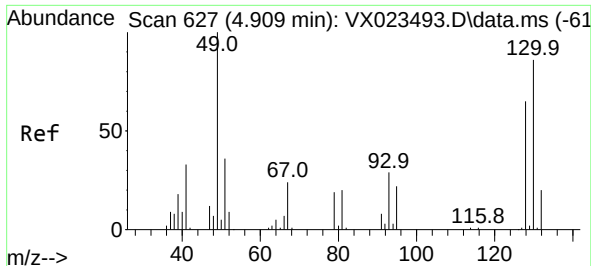
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072921\  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jul 29 03:16:09 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X072921W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jul 29 03:13:17 2021  
Response via : Initial Calibration

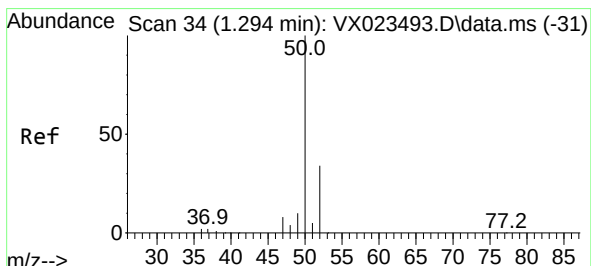
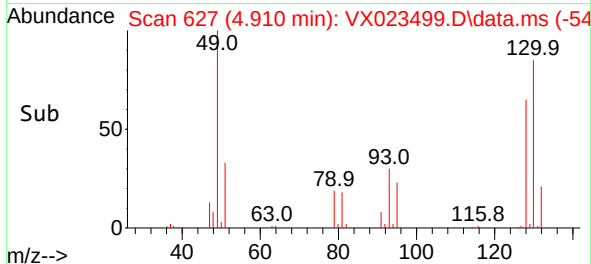
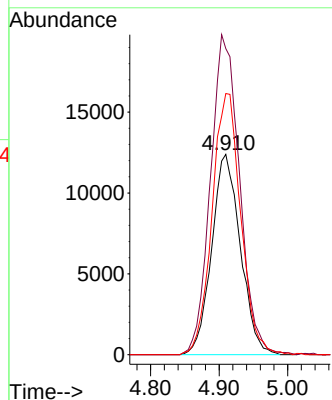
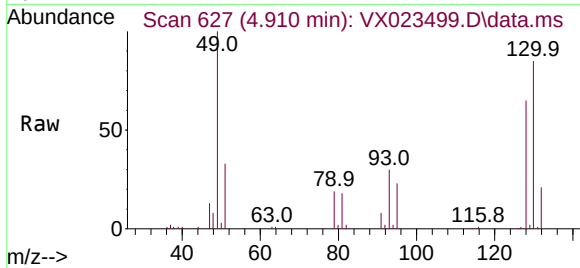




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.910 min Scan# 627  
Delta R.T. 0.001 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

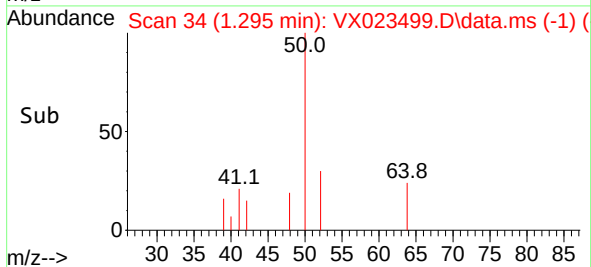
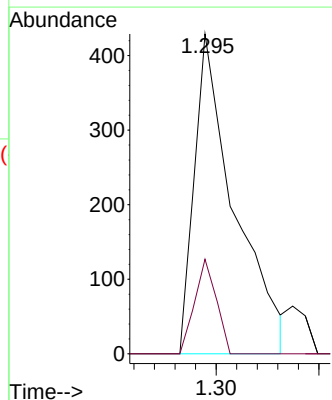
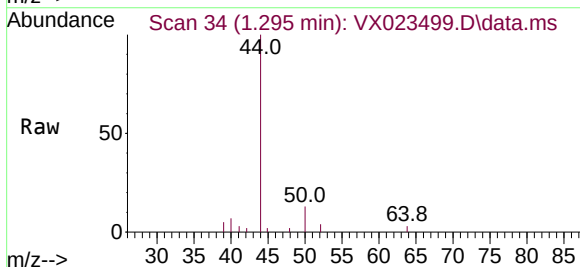
Instrument :  
MSVOA\_X  
ClientSampled :

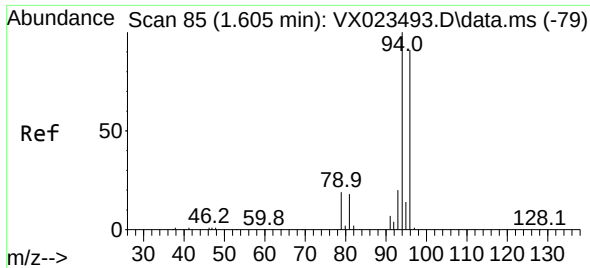
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 35998 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 161.6 | 0.0   | 402.5 |
| 130      | 130.8 | 0.0   | 326.5 |



#3  
Chloromethane  
Concen: 0.245 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.001 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 50    | Resp: | 580   |
| Ion      | Ratio | Lower | Upper |
| 50       | 100   |       |       |
| 52       | 29.6  | 26.9  | 40.3  |

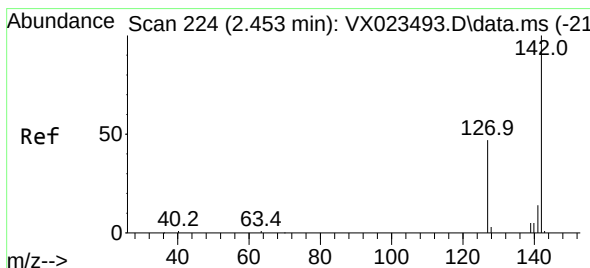
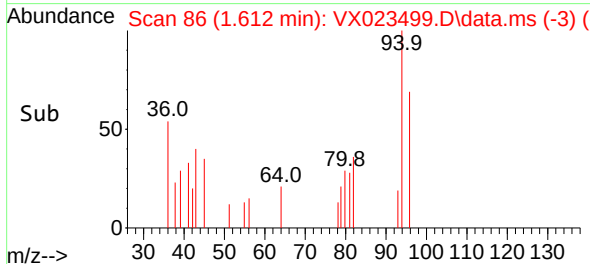
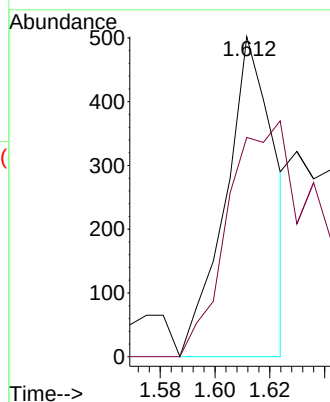
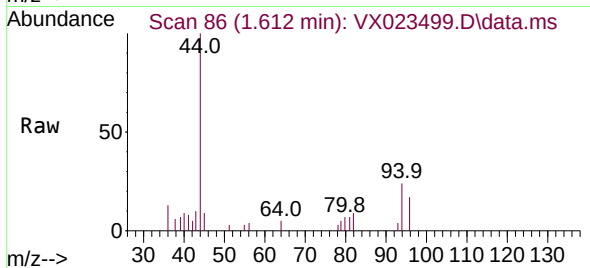




#5  
Bromomethane  
Concen: 0.434 ug/l  
RT: 1.612 min Scan# 86  
Delta R.T. 0.007 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

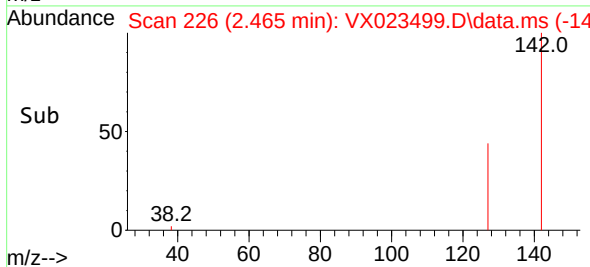
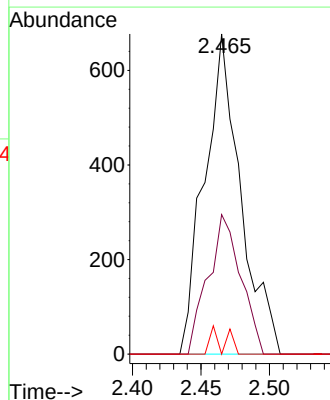
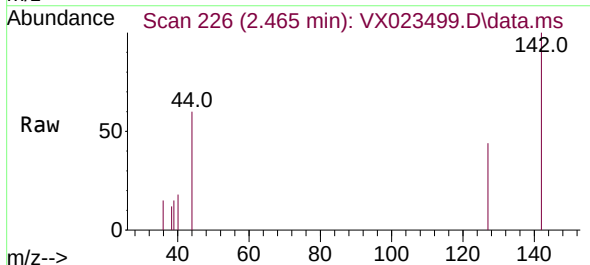
Instrument :  
MSVOA\_X  
ClientSampled :

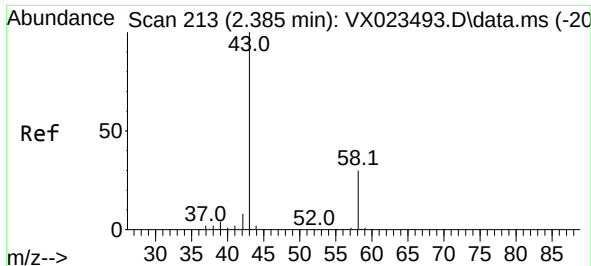
Tgt Ion: 94 Resp: 623  
Ion Ratio Lower Upper  
94 100  
96 68.5 72.8 109.2#



#11  
Methyl Iodide  
Concen: 0.435 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

Tgt Ion: 142 Resp: 1243  
Ion Ratio Lower Upper  
142 100  
127 43.6 23.6 71.0  
141 0.0 7.1 21.3#

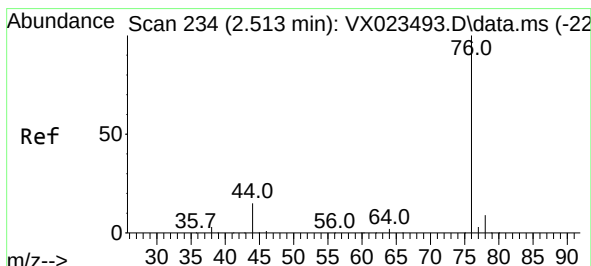
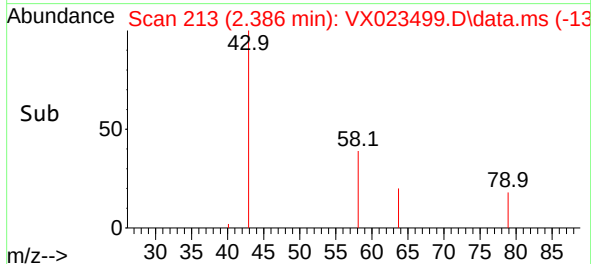
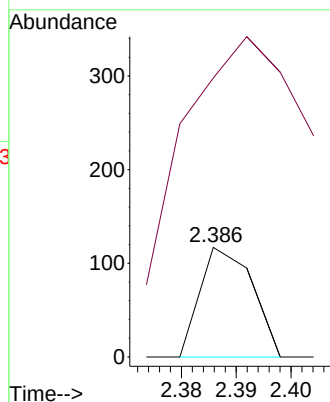
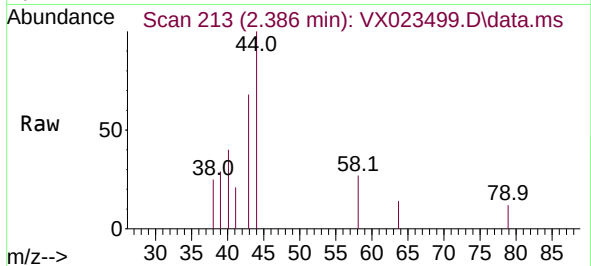




#15  
Acetone  
Concen: 0.200 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.001 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

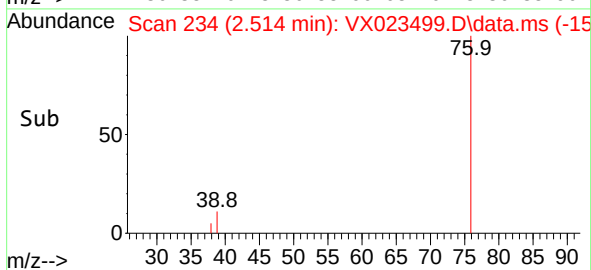
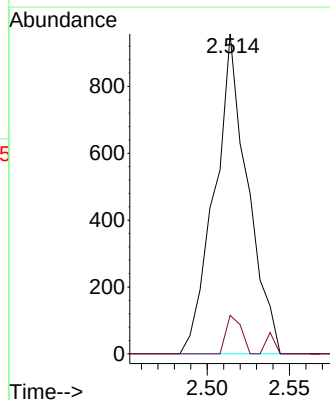
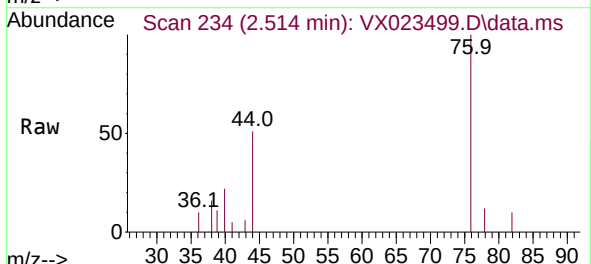
Instrument :  
MSVOA\_X  
ClientSampleId :

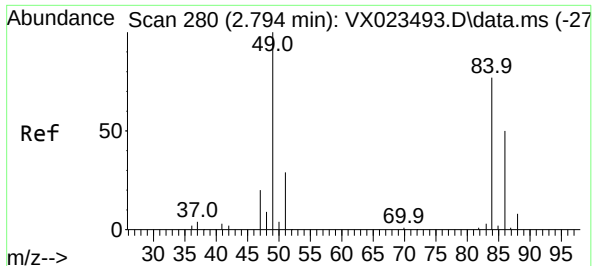
Tgt Ion: 58 Resp: 78  
Ion Ratio Lower Upper  
58 100  
43 41.9 266.6 400.0#



#16  
Carbon Disulfide  
Concen: 0.274 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.001 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

Tgt Ion: 76 Resp: 1340  
Ion Ratio Lower Upper  
76 100  
78 12.0 7.3 10.9#





#18

Methylene Chloride

Concen: 1.070 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.000 min

Lab File: VX023499.D

Acq: 28 Jul 2021 18:56

Tgt Ion: 84 Resp: 2601

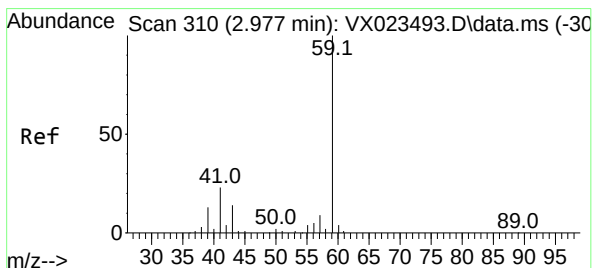
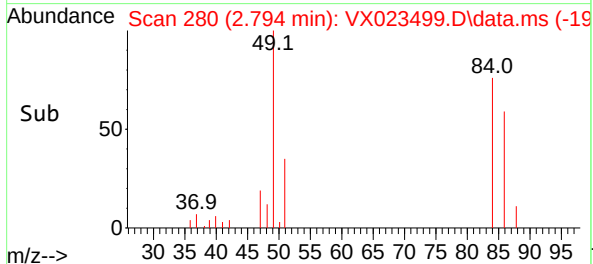
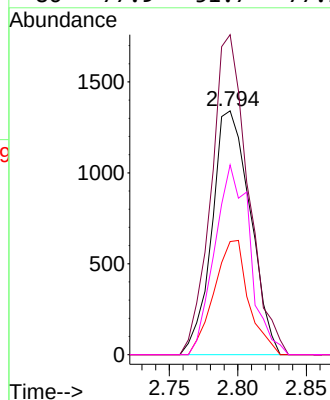
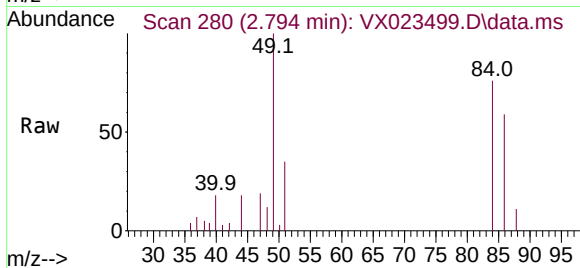
Ion Ratio Lower Upper

84 100

49 131.2 104.3 156.5

51 46.4 30.3 45.5#

86 77.9 51.7 77.5#



#23

tert-Butyl Alcohol

Concen: 0.261 ug/l

RT: 2.953 min Scan# 306

Delta R.T. -0.024 min

Lab File: VX023499.D

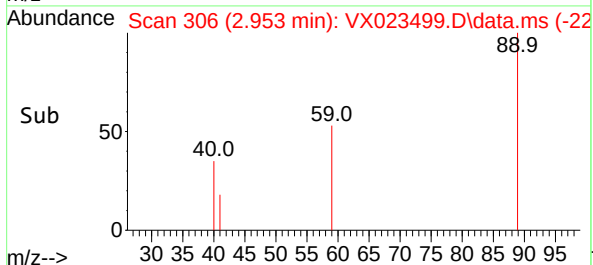
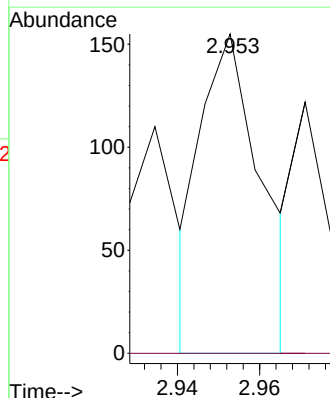
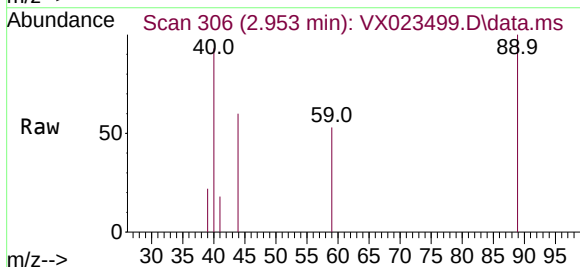
Acq: 28 Jul 2021 18:56

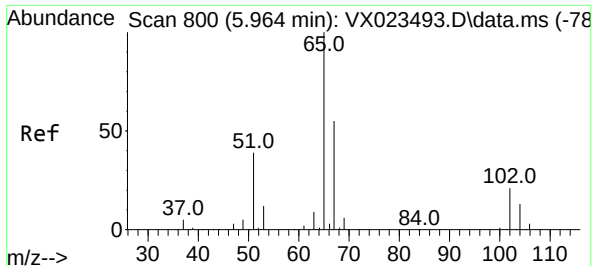
Tgt Ion: 59 Resp: 158

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



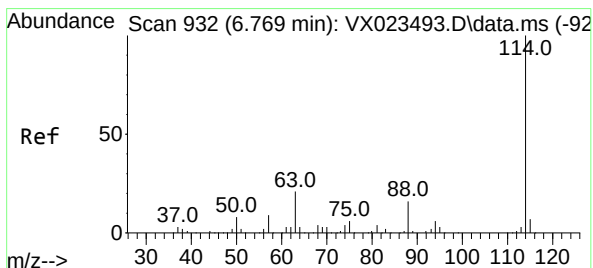
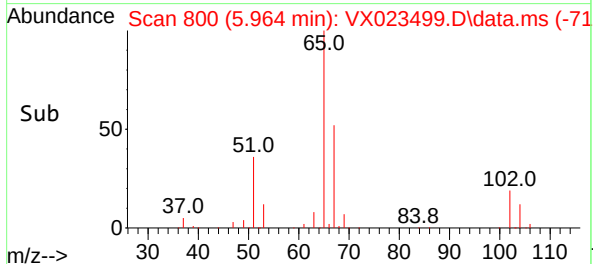
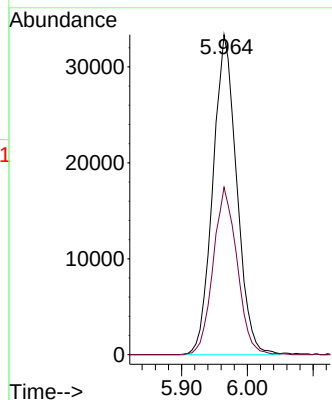
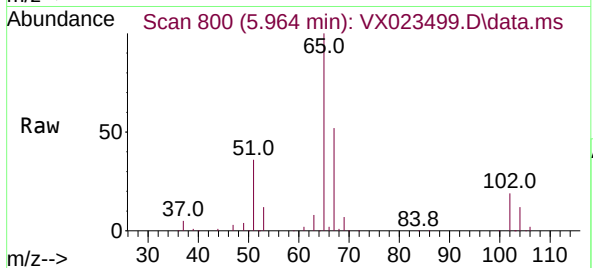


#27

1,2-Dichloroethane-d4  
Concen: 30.795 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

Instrument :  
MSVOA\_X  
ClientSampled :

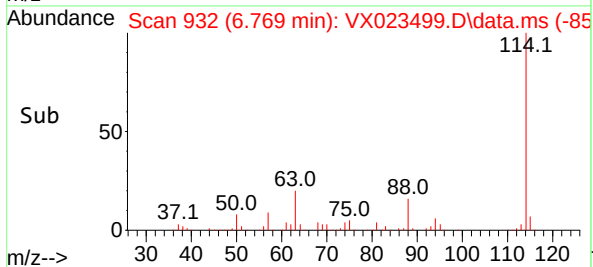
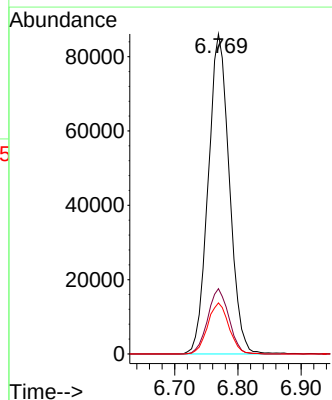
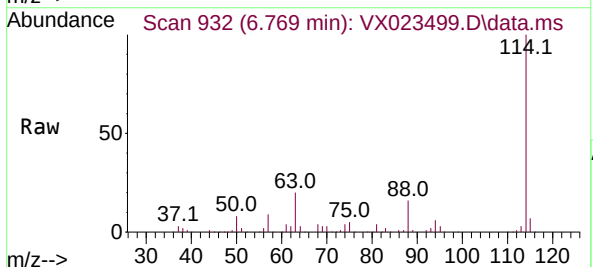
Tgt Ion: 65 Resp: 84193  
Ion Ratio Lower Upper  
65 100  
67 52.3 42.4 63.6

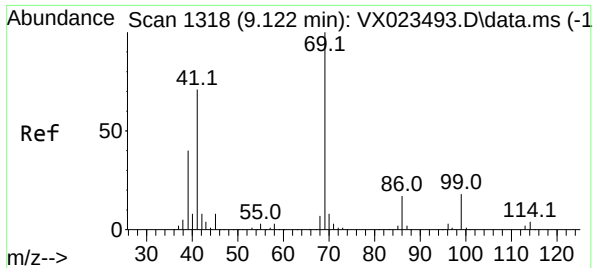


#28

1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

Tgt Ion: 114 Resp: 199818  
Ion Ratio Lower Upper  
114 100  
63 20.4 16.4 24.6  
88 16.0 12.7 19.1

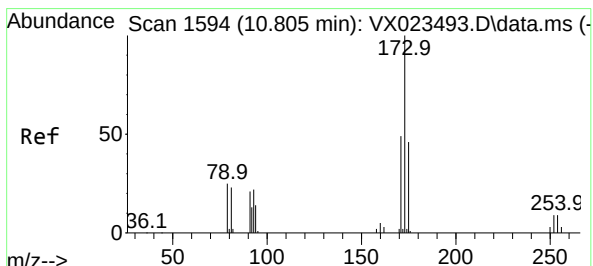
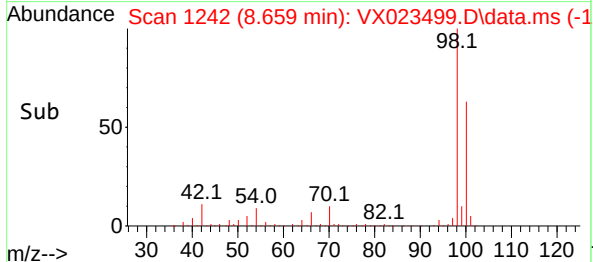
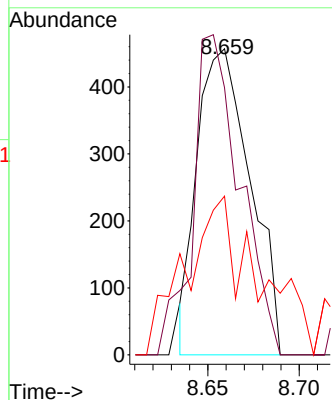
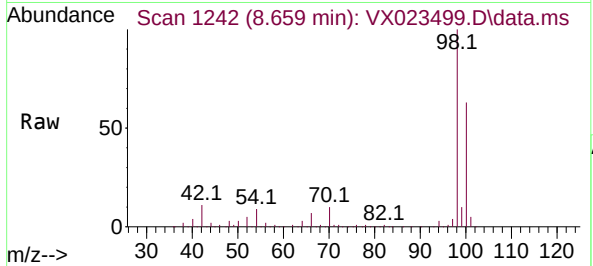




#51  
Ethyl methacrylate  
Concen: 0.238 ug/l  
RT: 8.659 min Scan# 1242  
Delta R.T. -0.463 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

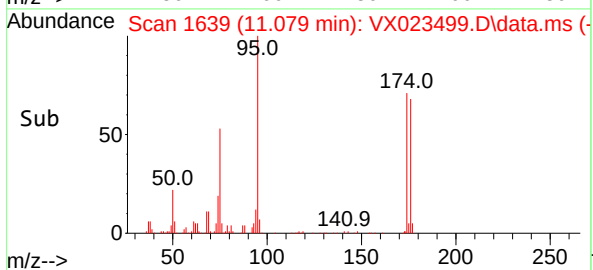
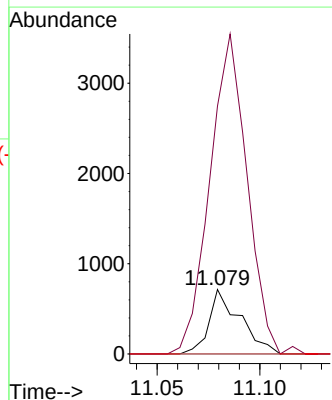
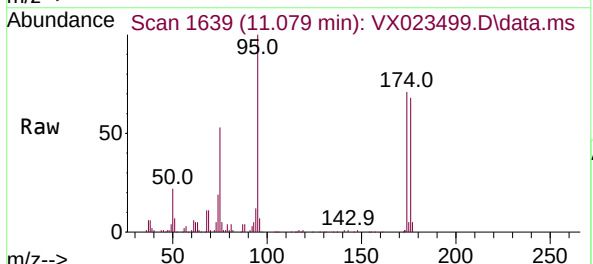
Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 924   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 87.3  | 35.8  | 107.3 |
| 39       | 31.7  | 20.3  | 60.8  |

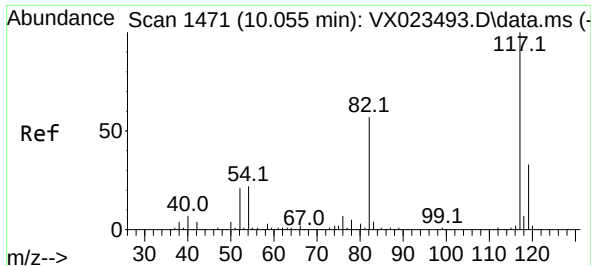


#56  
Bromoform  
Concen: 0.456 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.274 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 755   |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 589.4 | 38.4  | 57.6# |
| 254      | 0.0   | 7.3   | 10.9# |



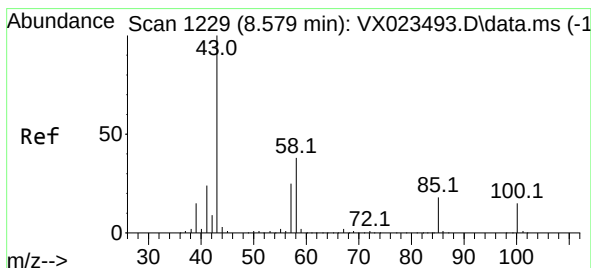
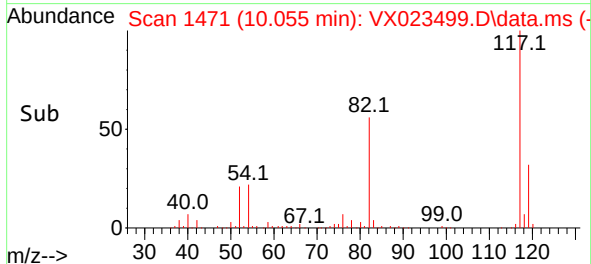
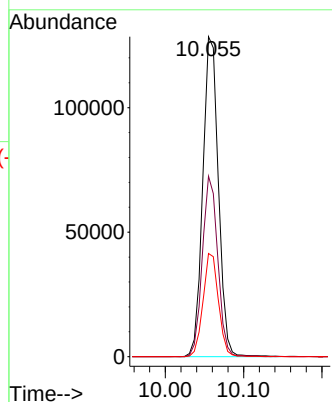
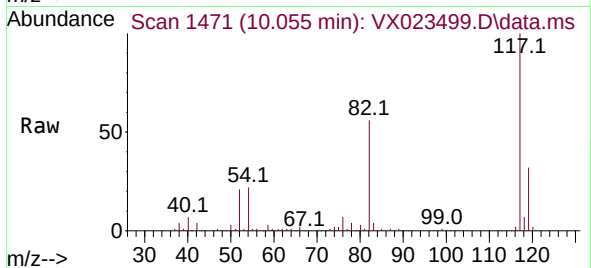




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

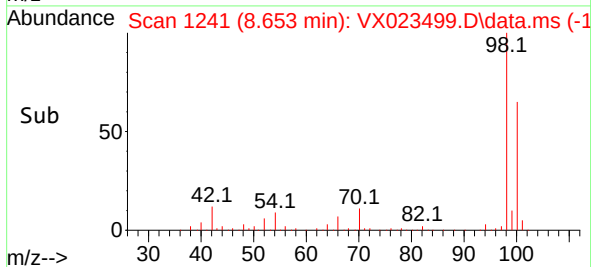
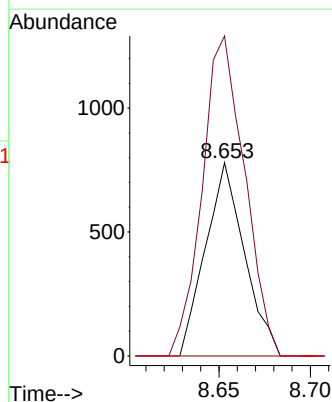
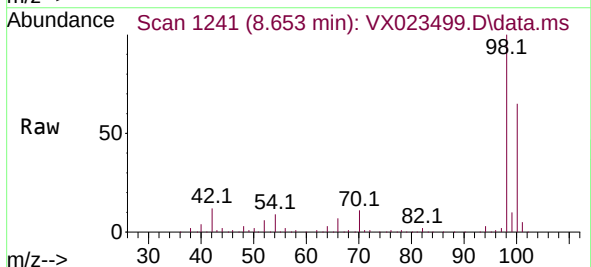
Instrument :  
MSVOA\_X  
ClientSampled :

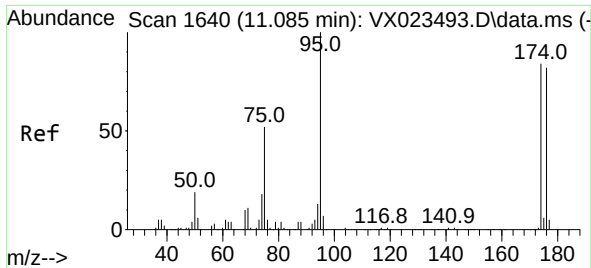
Tgt Ion:117 Resp: 177681  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.0 67.4  
119 31.8 26.2 39.2



#58  
4-Methyl-2-Pentanone  
Concen: 0.312 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.074 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

Tgt Ion: 43 Resp: 1160  
Ion Ratio Lower Upper  
43 100  
58 179.6 30.5 45.7#  
85 0.0 14.0 21.0#

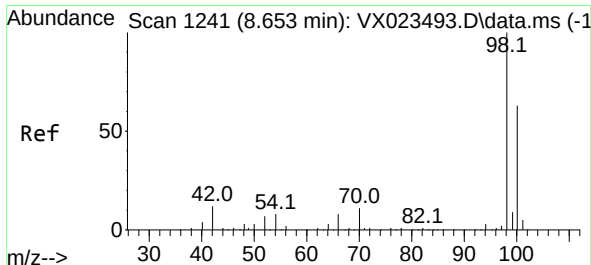
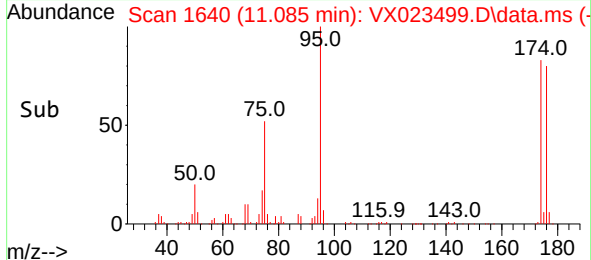
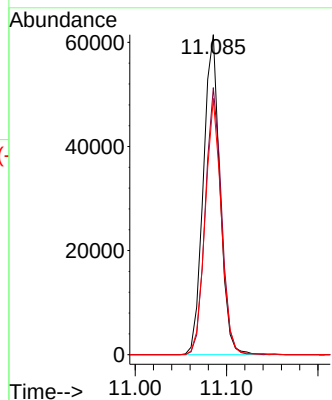
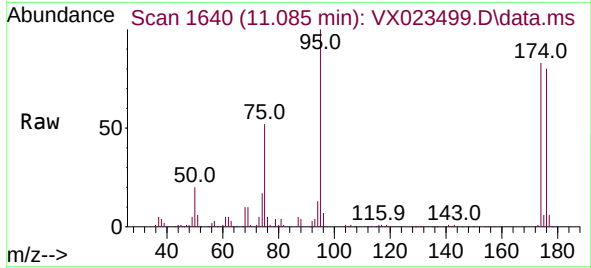




#60  
4-Bromofluorobenzene  
Concen: 26.920 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

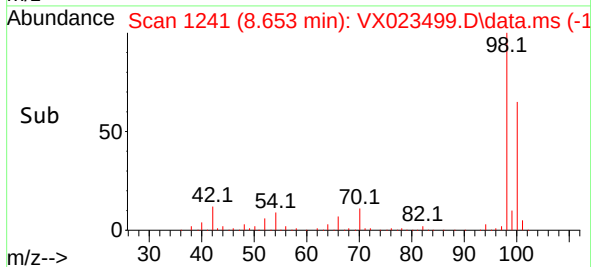
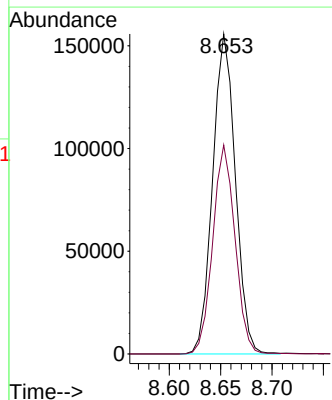
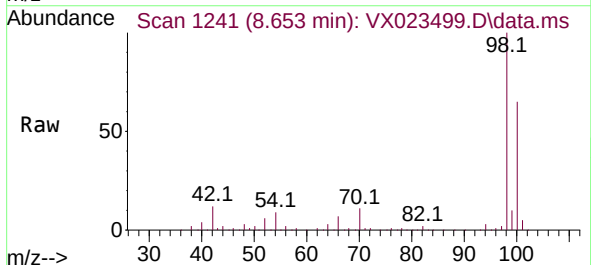
Instrument :  
MSVOA\_X  
ClientSampleId :

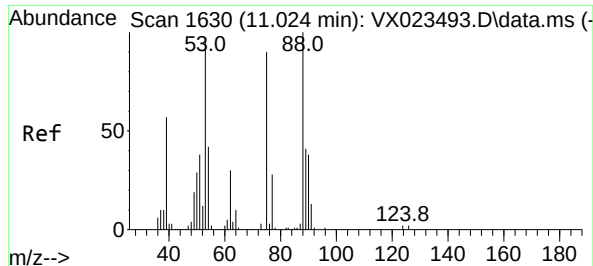
Tgt Ion: 95 Resp: 77302  
Ion Ratio Lower Upper  
95 100  
174 81.3 63.5 95.3  
176 77.9 63.0 94.4



#63  
Toluene-d8  
Concen: 29.876 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023499.D  
Acq: 28 Jul 2021 18:56

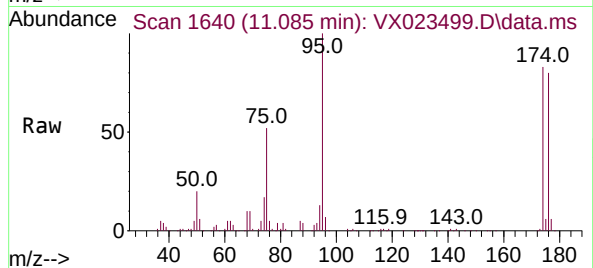
Tgt Ion: 98 Resp: 239478  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.4 77.0





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 36.323 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.061 min  
 Lab File: VX023499.D  
 Acq: 28 Jul 2021 18:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 40291  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 53.9 161.7#  
 89 0.0 22.9 68.7#

