

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070924\  
 Data File : VX042246.D  
 Acq On : 09 Jul 2024 13:43  
 Operator : JC/MD  
 Sample : P3161-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 10 04:57:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061424W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 15 04:02:59 2024  
 Response via : Initial Calibration

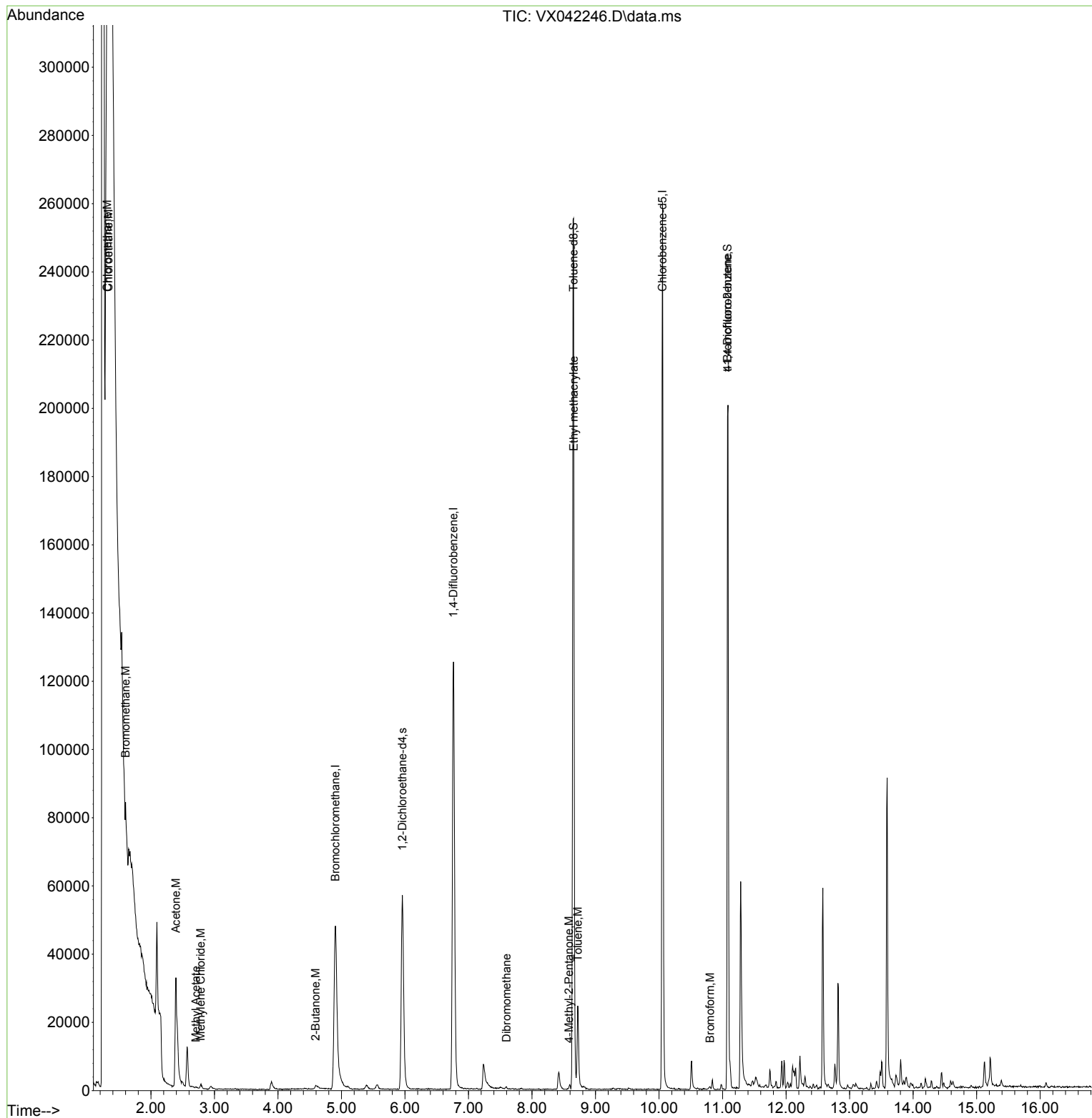
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.904  | 128   | 26607    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 141757   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 128717   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 53679    | 29.307   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 97.700%  |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 55421    | 27.816   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 92.733%  |
| 63) Toluene-d8              | 8.653  | 98    | 163128   | 29.622   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.733%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 1.313  | 50    | 4505     | 2.340    | ug/l # | 41       |
| 5) Bromomethane             | 1.599  | 94    | 474      | 0.471    | ug/l # | 69       |
| 6) Chloroethane             | 1.331  | 64    | 303066   | 376.752  | ug/l # | 50       |
| 12) Methyl Acetate          | 2.709  | 43    | 524      | 0.253    | ug/l # | 51       |
| 15) Acetone                 | 2.392  | 58    | 11812    | 41.963   | ug/l   | 93       |
| 18) Methylene Chloride      | 2.782  | 84    | 474      | 0.254    | ug/l   | 91       |
| 30) 2-Butanone              | 4.593  | 43    | 2800     | 2.265    | ug/l # | 68       |
| 40) Dibromomethane          | 7.598  | 93    | 218      | 0.201    | ug/l   | 95       |
| 51) Ethyl methacrylate      | 8.659  | 69    | 514      | 0.205    | ug/l   | 82       |
| 56) Bromoform               | 10.805 | 173   | 322      | 0.229    | ug/l # | 74       |
| 58) 4-Methyl-2-Pentanone    | 8.580  | 43    | 512      | 0.222    | ug/l # | 67       |
| 62) Toluene                 | 8.720  | 91    | 17133    | 2.630    | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 25331    | 34.020   | ug/l # | 7        |
| -----                       |        |       |          |          |        |          |

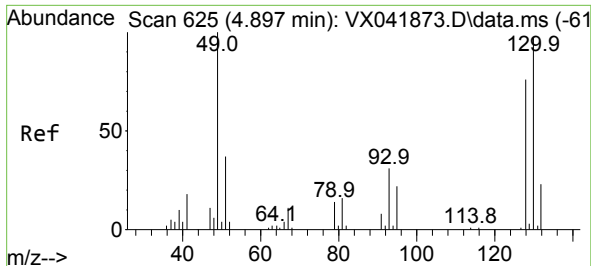
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070924\  
Data File : VX042246.D  
Acq On : 09 Jul 2024 13:43  
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Sample : P3161-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

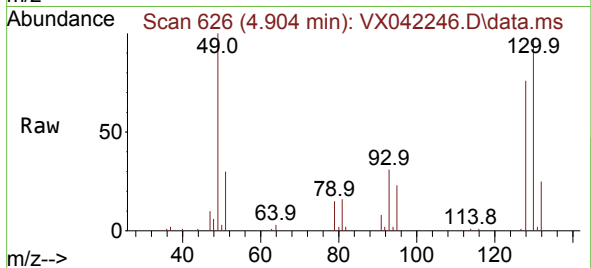
Quant Time: Jul 10 04:57:27 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061424W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Jun 15 04:02:59 2024  
Response via : Initial Calibration



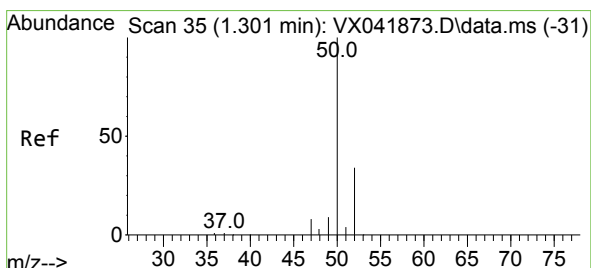
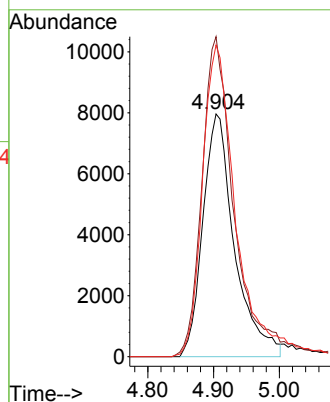
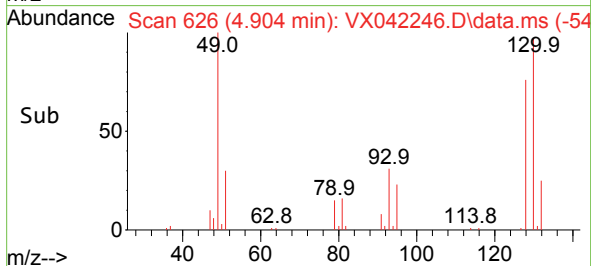


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.904 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :

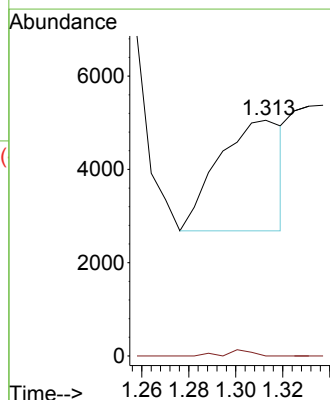
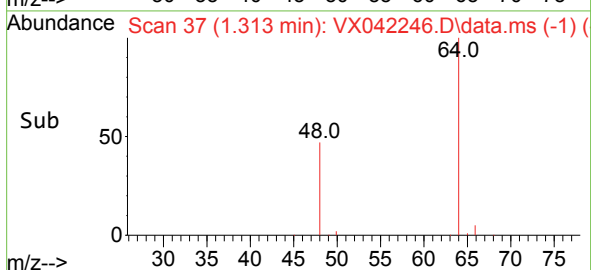
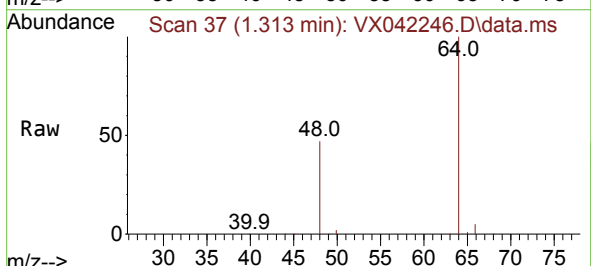


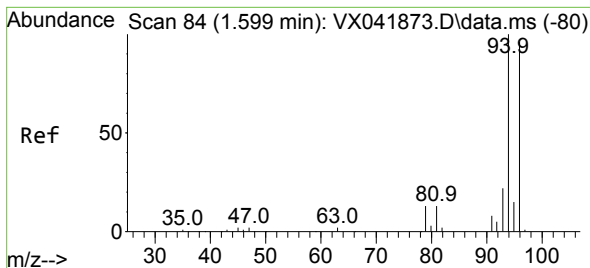
Tgt Ion:128 Resp: 26607  
Ion Ratio Lower Upper  
128 100  
49 136.4 0.0 338.5  
130 135.6 0.0 324.5



#3  
Chloromethane  
Concen: 2.340 ug/l  
RT: 1.313 min Scan# 37  
Delta R.T. 0.012 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Tgt Ion: 50 Resp: 4505  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.9 40.3#





#5

Bromomethane

Concen: 0.471 ug/l

RT: 1.599 min Scan# 84

Delta R.T. 0.000 min

Lab File: VX042246.D

Acq: 09 Jul 2024 13:43

Instrument :

MSVOA\_X

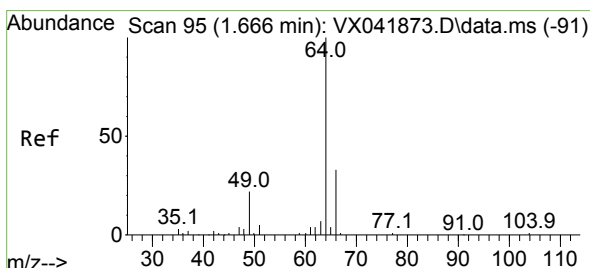
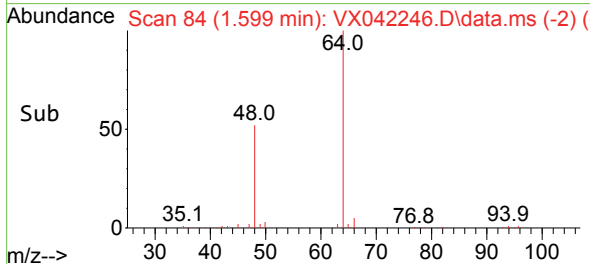
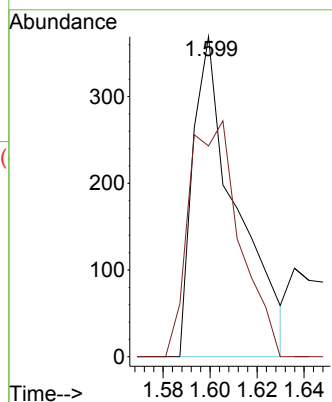
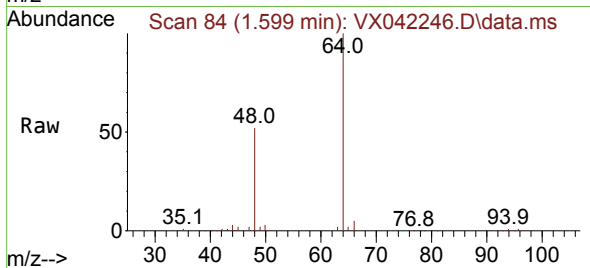
ClientSampleId :

Tgt Ion: 94 Resp: 474

Ion Ratio Lower Upper

94 100

96 65.9 76.6 115.0#



#6

Chloroethane

Concen: 376.752 ug/l

RT: 1.331 min Scan# 40

Delta R.T. -0.335 min

Lab File: VX042246.D

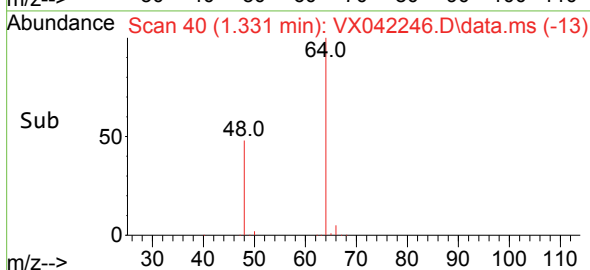
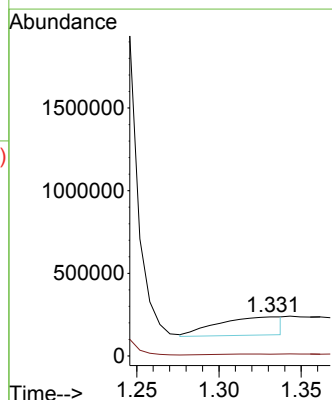
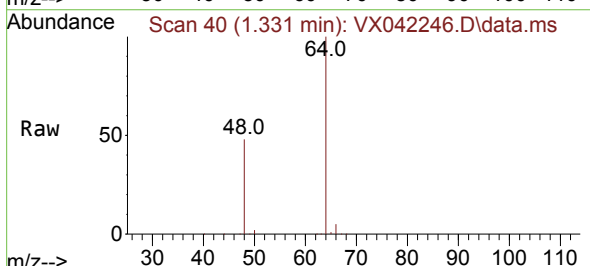
Acq: 09 Jul 2024 13:43

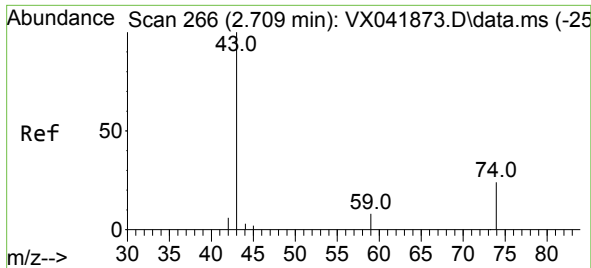
Tgt Ion: 64 Resp: 303066

Ion Ratio Lower Upper

64 100

66 4.6 26.4 39.6#

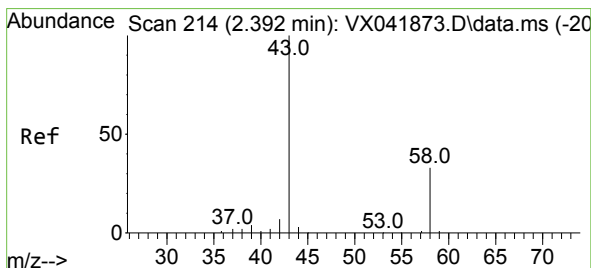
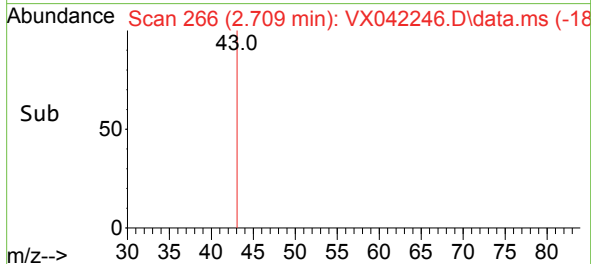
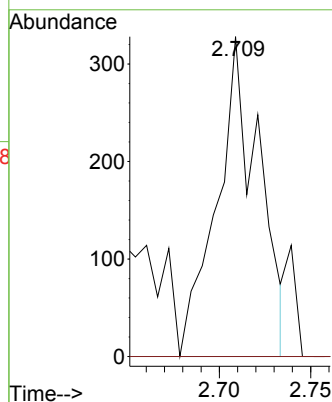
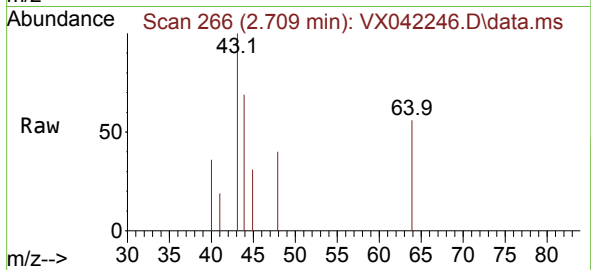




#12  
Methyl Acetate  
Concen: 0.253 ug/l  
RT: 2.709 min Scan# 214  
Delta R.T. 0.000 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

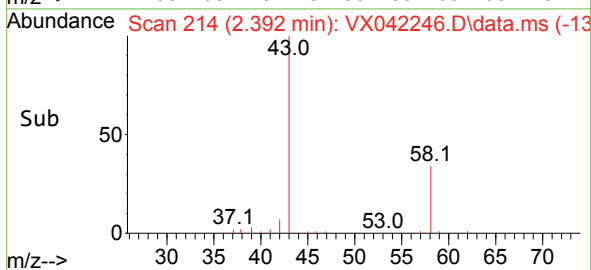
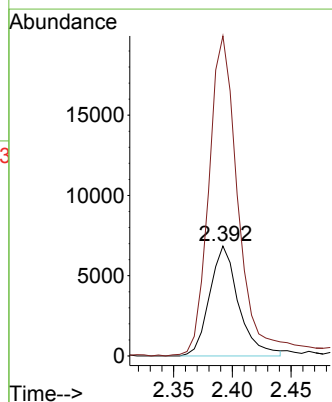
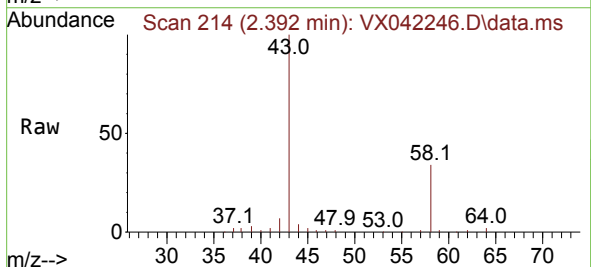
Instrument :  
MSVOA\_X  
ClientSampleId :

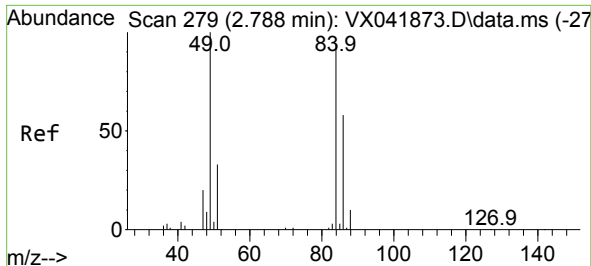
Tgt Ion: 43 Resp: 524  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.2#



#15  
Acetone  
Concen: 41.963 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.000 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

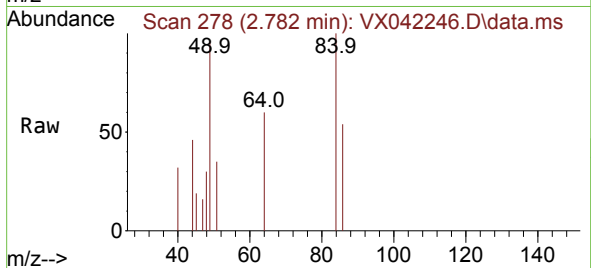
Tgt Ion: 58 Resp: 11812  
Ion Ratio Lower Upper  
58 100  
43 289.8 243.4 365.2



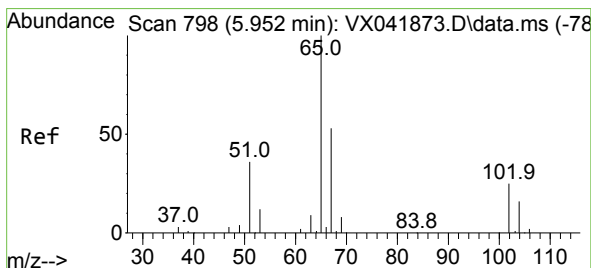
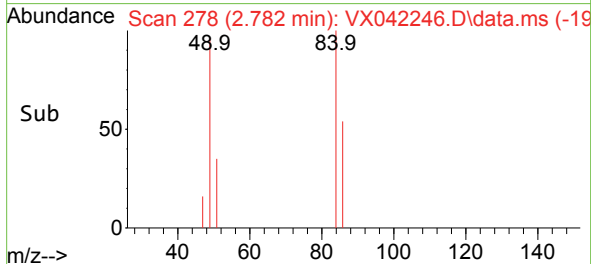
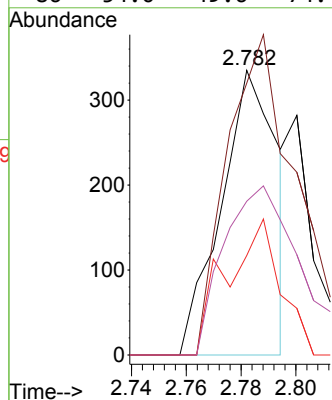


#18  
Methylene Chloride  
Concen: 0.254 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :

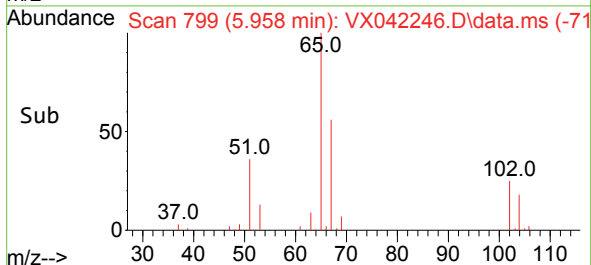
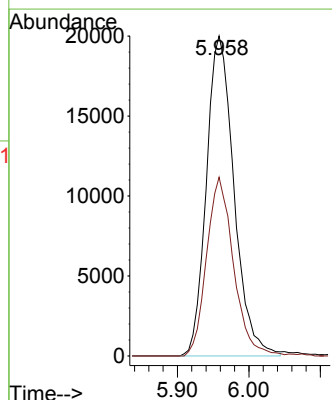
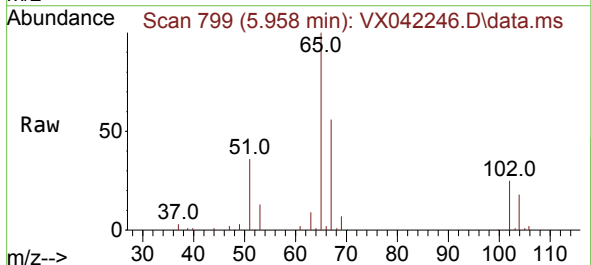


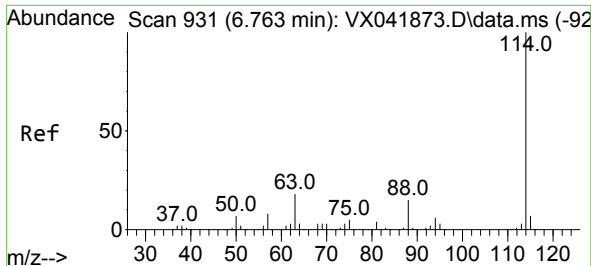
Tgt Ion: 84 Resp: 474  
Ion Ratio Lower Upper  
84 100  
49 95.5 85.3 127.9  
51 34.9 28.5 42.7  
86 54.0 49.6 74.4



#27  
1,2-Dichloroethane-d4  
Concen: 29.307 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Tgt Ion: 65 Resp: 53679  
Ion Ratio Lower Upper  
65 100  
67 54.4 43.4 65.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

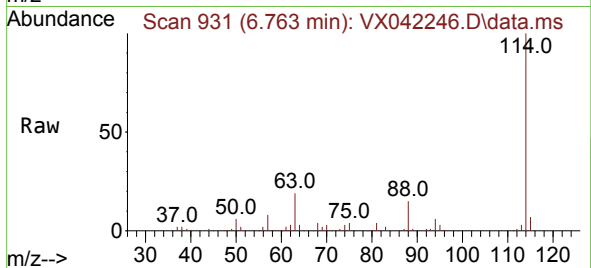
Lab File: VX042246.D

Acq: 09 Jul 2024 13:43

Instrument :

MSVOA\_X

ClientSampleId :



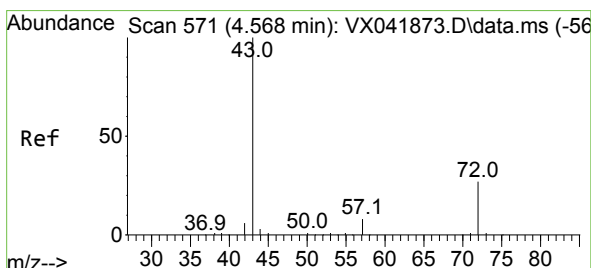
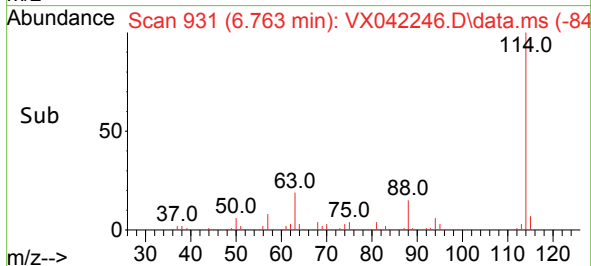
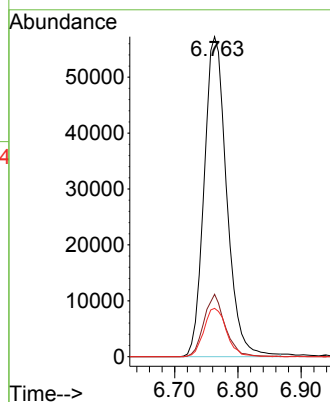
Tgt Ion:114 Resp: 141757

Ion Ratio Lower Upper

114 100

63 18.3 14.6 21.8

88 15.1 11.8 17.8



#30

2-Butanone

Concen: 2.265 ug/l

RT: 4.593 min Scan# 575

Delta R.T. 0.024 min

Lab File: VX042246.D

Acq: 09 Jul 2024 13:43

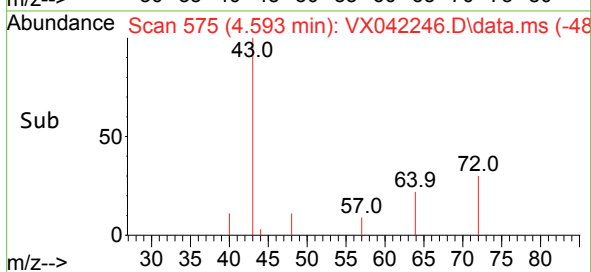
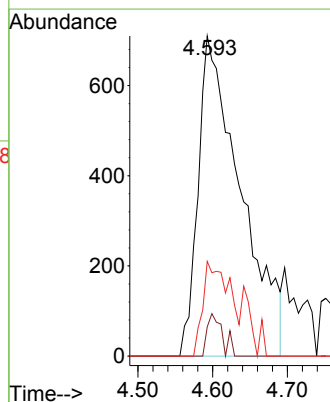
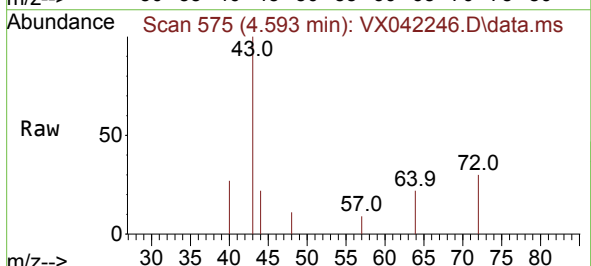
Tgt Ion: 43 Resp: 2800

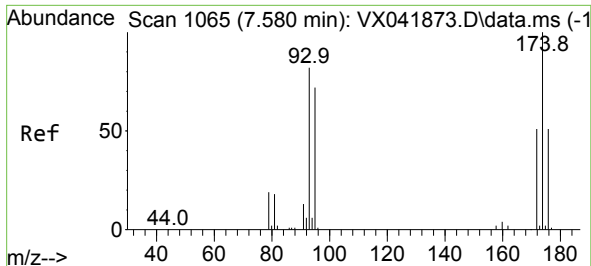
Ion Ratio Lower Upper

43 100

57 4.0 6.5 9.7#

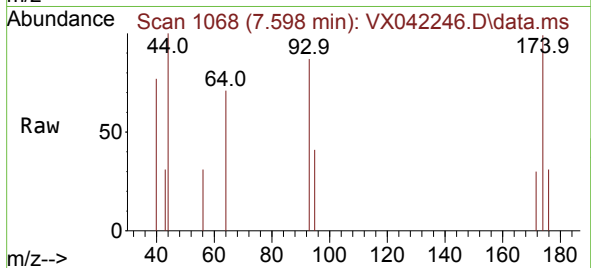
72 7.3 22.0 33.0#



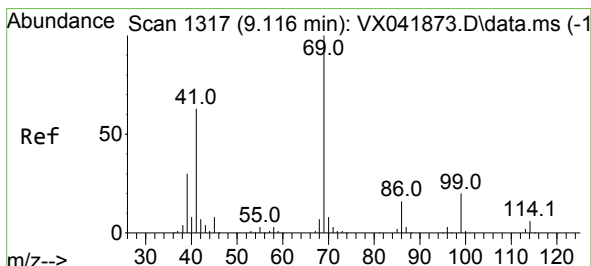
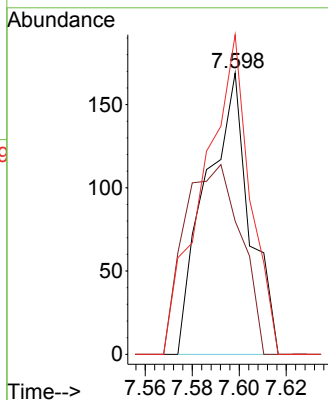
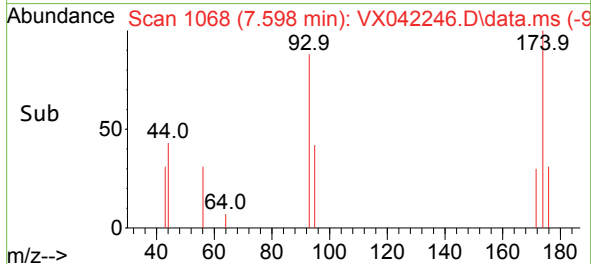


#40  
Dibromomethane  
Concen: 0.201 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. 0.018 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :

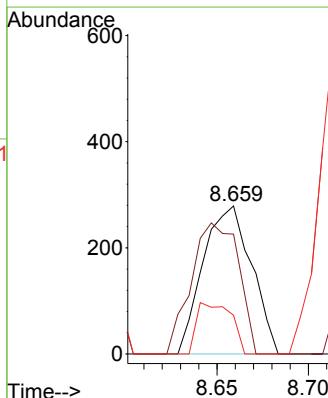
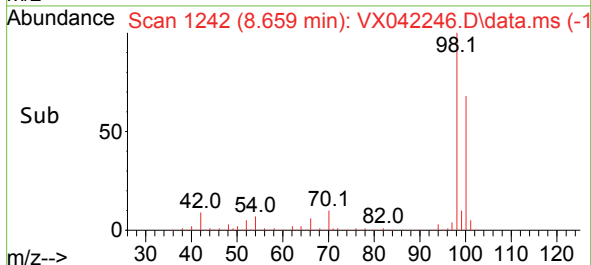
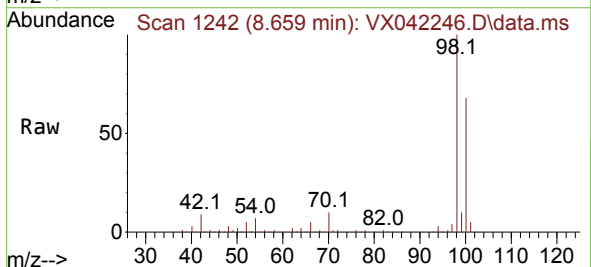


Tgt Ion: 93 Resp: 218  
Ion Ratio Lower Upper  
93 100  
95 87.6 0.0 168.6  
174 121.6 0.0 255.0

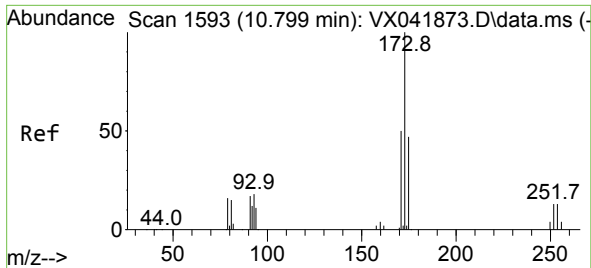


#51  
Ethyl methacrylate  
Concen: 0.205 ug/l  
RT: 8.659 min Scan# 1242  
Delta R.T. -0.457 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Tgt Ion: 69 Resp: 514  
Ion Ratio Lower Upper  
69 100  
41 81.0 31.6 94.7  
39 26.2 15.3 45.8

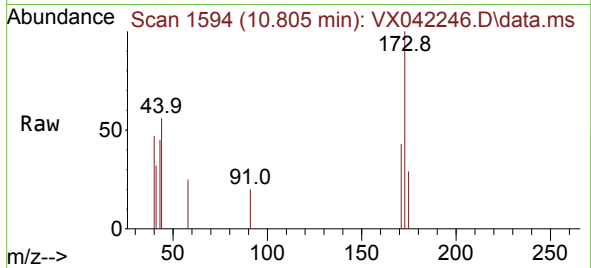




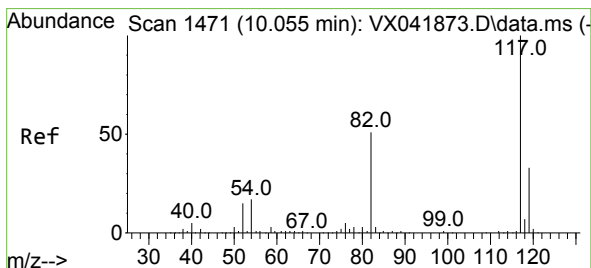
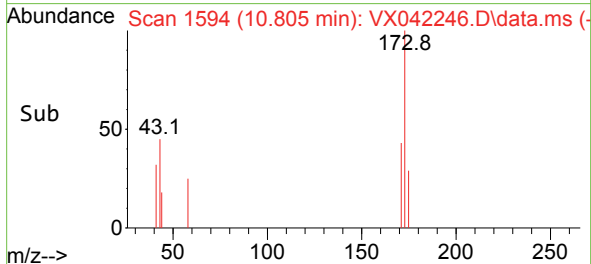
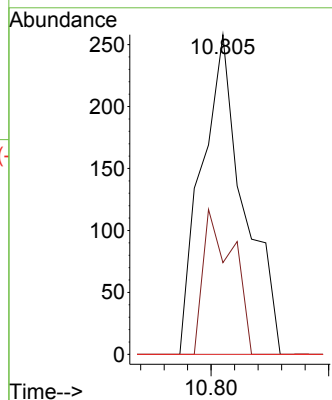


#56  
Bromoform  
Concen: 0.229 ug/l  
RT: 10.805 min Scan# 1594  
Delta R.T. 0.006 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :

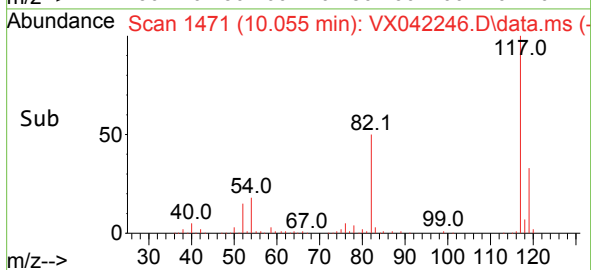
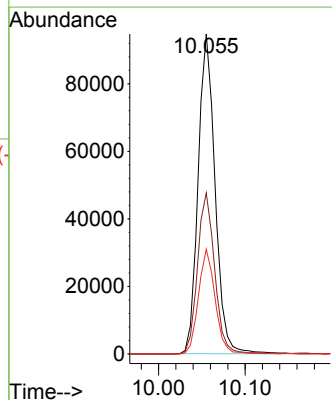
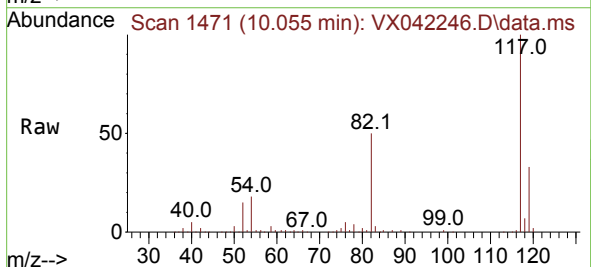


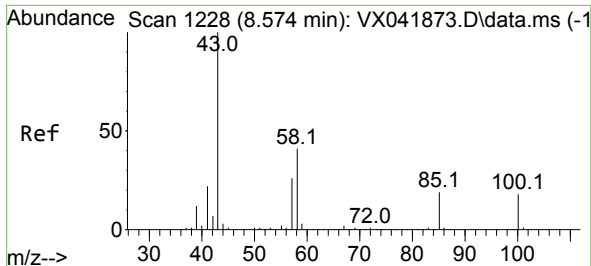
Tgt Ion:173 Resp: 322  
Ion Ratio Lower Upper  
173 100  
175 32.0 39.3 58.9#  
254 0.0 9.6 14.4#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Tgt Ion:117 Resp: 128717  
Ion Ratio Lower Upper  
117 100  
82 51.1 41.1 61.7  
119 32.2 26.1 39.1

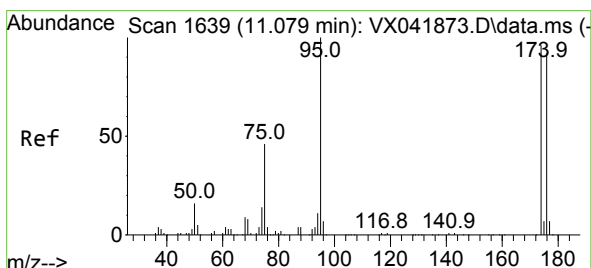
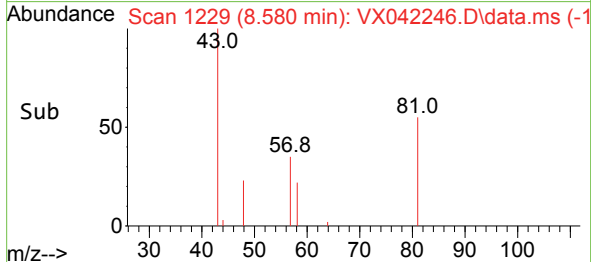
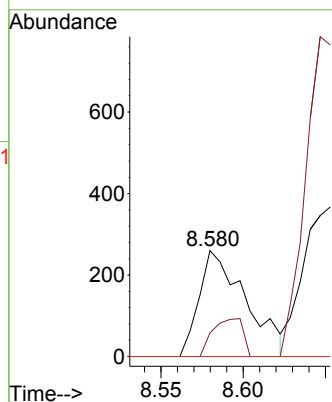
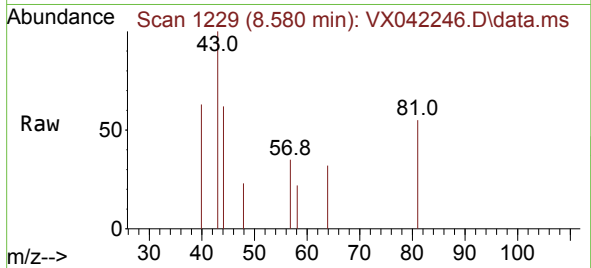




#58  
4-Methyl-2-Pentanone  
Concen: 0.222 ug/l  
RT: 8.580 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

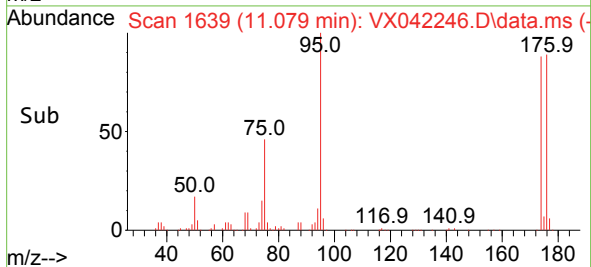
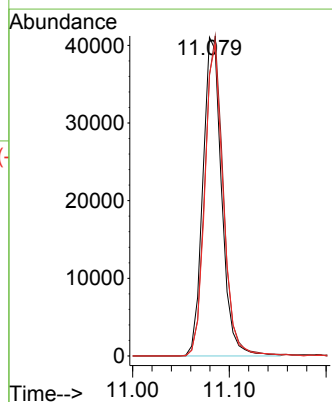
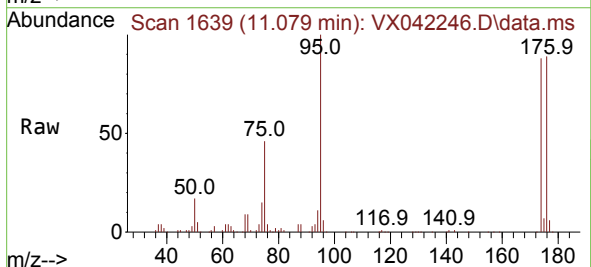
Instrument :  
MSVOA\_X  
ClientSampleId :

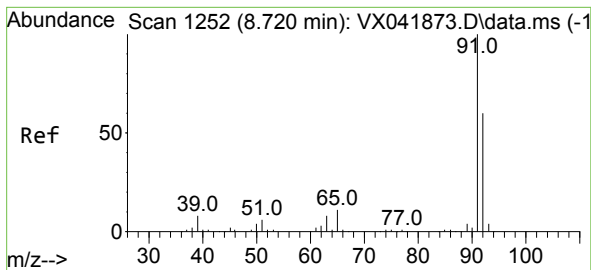
Tgt Ion: 43 Resp: 512  
Ion Ratio Lower Upper  
43 100  
58 23.2 33.2 49.8#  
85 0.0 15.5 23.3#



#60  
4-Bromofluorobenzene  
Concen: 27.816 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX042246.D  
Acq: 09 Jul 2024 13:43

Tgt Ion: 95 Resp: 55421  
Ion Ratio Lower Upper  
95 100  
174 98.8 78.9 118.3  
176 96.2 77.1 115.7





#62

Toluene

Concen: 2.630 ug/l

RT: 8.720 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX042246.D

Acq: 09 Jul 2024 13:43

Instrument :

MSVOA\_X

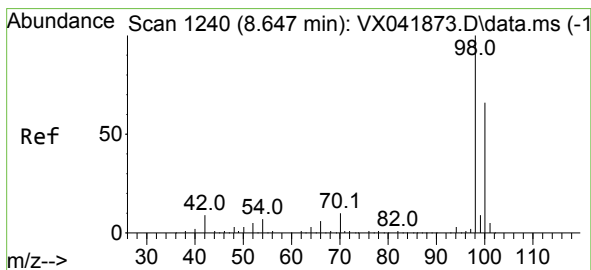
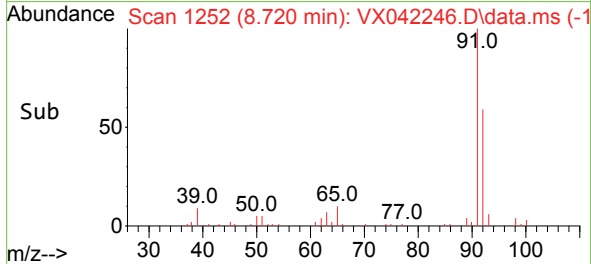
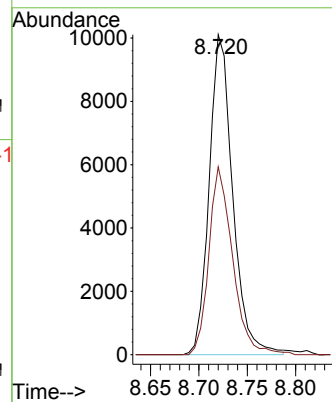
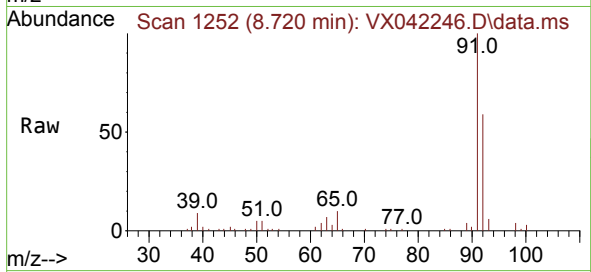
ClientSampleId :

Tgt Ion: 91 Resp: 17133

Ion Ratio Lower Upper

91 100

92 59.2 47.4 71.2



#63

Toluene-d8

Concen: 29.622 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX042246.D

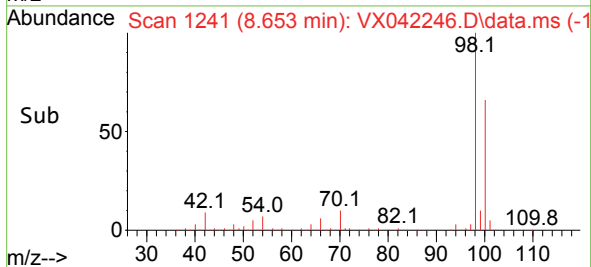
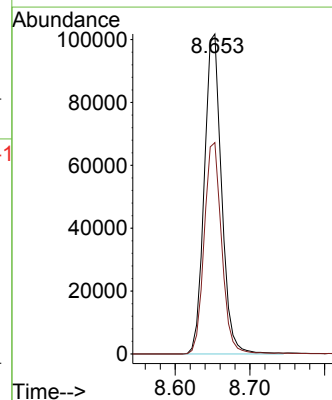
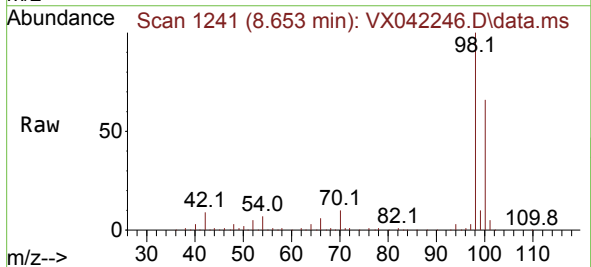
Acq: 09 Jul 2024 13:43

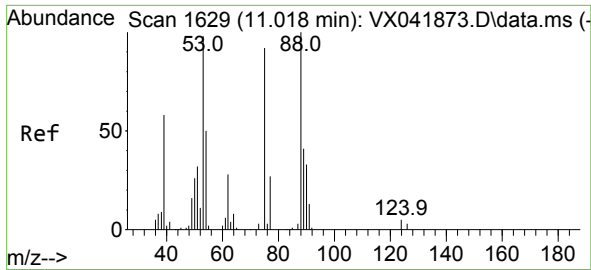
Tgt Ion: 98 Resp: 163128

Ion Ratio Lower Upper

98 100

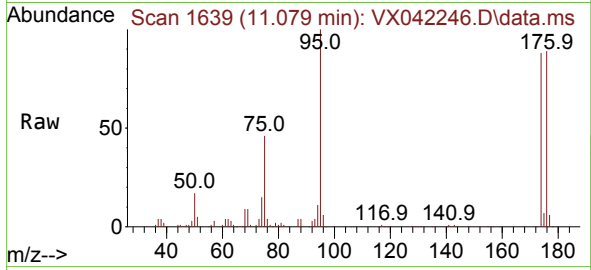
100 66.8 52.7 79.1





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 34.020 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX042246.D  
 Acq: 09 Jul 2024 13:43

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 25331  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 53.4 160.2#  
 89 0.0 22.5 67.5#

