

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV052424\  
 Data File : VV035756.D  
 Acq On : 24 May 2024 18:49  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 25 02:34:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 24 23:42:56 2024  
 Response via : Initial Calibration

| Compound                      |        | R.T.   | QIon     | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|--------|----------|----------|------------|--------|----------|
| -----                         |        |        |          |          |            |        |          |
| Internal Standards            |        |        |          |          |            |        |          |
| 1) 1,4-Difluorobenzene        |        | 5.532  | 114      | 465156   | 25.000     | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          |        | 8.783  | 117      | 480817   | 25.000     | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    |        | 11.185 | 152      | 265533   | 25.000     | ug/L   | 0.00     |
|                               |        |        |          |          |            |        |          |
| System Monitoring Compounds   |        |        |          |          |            |        |          |
| 4) Vinyl Chloride-d3          |        | 1.275  | 65       | 204818   | 28.488     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 30 - 150 | Recovery | = 113.960% |        |          |
| 7) Chloroethane-d5            |        | 1.529  | 69       | 159720   | 27.538     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 30 - 150 | Recovery | = 110.160% |        |          |
| 11) 1,1-Dichloroethene-d2     |        | 2.053  | 65       | 85115    | 26.741     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 45 - 110 | Recovery | = 106.960% |        |          |
| 21) 2-Butanone-d5             |        | 3.838  | 46       | 84045    | 41.192     | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range  | 20 - 135 | Recovery | = 82.380%  |        |          |
| 24) Chloroform-d              |        | 4.246  | 84       | 358161   | 25.900     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 40 - 150 | Recovery | = 103.600% |        |          |
| 26) 1,2-Dichloroethane-d4     |        | 4.941  | 65       | 178646   | 26.131     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 70 - 130 | Recovery | = 104.520% |        |          |
| 32) Benzene-d6                |        | 4.957  | 84       | 687594   | 26.125     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 20 - 135 | Recovery | = 104.480% |        |          |
| 36) 1,2-Dichloropropane-d6    |        | 5.989  | 67       | 204985   | 25.237     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 70 - 120 | Recovery | = 100.960% |        |          |
| 41) Toluene-d8                |        | 7.239  | 98       | 639518   | 27.301     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 30 - 130 | Recovery | = 109.200% |        |          |
| 43) trans-1,3-Dichloroprop... |        | 7.551  | 79       | 85595    | 24.640     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 30 - 135 | Recovery | = 98.560%  |        |          |
| 47) 2-Hexanone-d5             |        | 8.030  | 63       | 58956    | 40.366     | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range  | 20 - 135 | Recovery | = 80.740%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... |        | 10.153 | 84       | 173922   | 22.221     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 45 - 120 | Recovery | = 88.880%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    |        | 11.558 | 152      | 224505   | 24.362     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range  | 75 - 120 | Recovery | = 97.440%  |        |          |
|                               |        |        |          |          |            |        |          |
| Target Compounds              |        |        |          |          |            | Qvalue |          |
| 2) Dichlorodifluoromethane    |        | 1.105  | 85       | 193917   | 20.505     | ug/L   | 99       |
| 3) Chloromethane              |        | 1.211  | 50       | 199603   | 21.022     | ug/L   | 100      |
| 5) Vinyl chloride             |        | 1.278  | 62       | 218773   | 22.302     | ug/L   | 98       |
| 6) Bromomethane               |        | 1.484  | 94       | 138934   | 22.369     | ug/L   | 98       |
| 8) Chloroethane               |        | 1.545  | 64       | 145767   | 24.106     | ug/L   | 97       |
| 9) Trichlorofluoromethane     |        | 1.709  | 101      | 304895   | 23.813     | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... |        | 2.063  | 101      | 198839   | 24.614     | ug/L   | 99       |
| 12) 1,1-Dichloroethene        |        | 2.063  | 96       | 177263   | 24.293     | ug/L # | 83       |
| 13) Acetone                   |        | 2.384  | 43       | 94643    | 31.688     | ug/L   | 71       |
| 14) Carbon disulfide          |        | 2.233  | 76       | 437076   | 18.911     | ug/L   | 100      |
| 15) Methyl Acetate            |        | 2.384  | 43       | 98911    | 21.858     | ug/L   | 93       |
| 16) Methylene chloride        |        | 2.442  | 84       | 233751   | 21.792     | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  |        | 2.690  | 96       | 194679   | 24.033     | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   |        | 2.706  | 73       | 533742   | 27.315     | ug/L   | 99       |
| 19) 1,1-Dichloroethane        |        | 3.108  | 63       | 412975   | 27.194     | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    |        | 3.812  | 96       | 214127   | 24.384     | ug/L   | 96       |
| 22) 2-Butanone                |        | 3.912  | 43       | 109197   | 39.369     | ug/L   | 93       |
| 23) Bromochloromethane        |        | 4.146  | 128      | 113744   | 26.780     | ug/L   | 99       |
| 25) Chloroform                |        | 4.272  | 83       | 442573   | 28.222     | ug/L   | 98       |

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 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

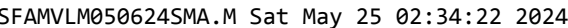
Instrument :  
 MSVOA\_V  
 ClientSampleId :

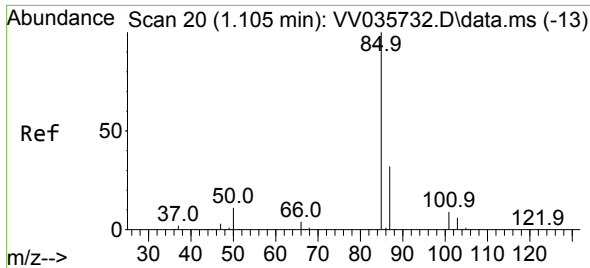
Quant Time: May 25 02:34:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 24 23:42:56 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 273321   | 27.990 | ug/L  | 100      |
| 29) Cyclohexane               | 4.580  | 56   | 235397   | 20.473 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.506  | 97   | 361885   | 27.144 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.732  | 117  | 305129   | 26.085 | ug/L  | 100      |
| 33) Benzene                   | 5.008  | 78   | 858716   | 26.985 | ug/L  | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 243073   | 27.004 | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.047  | 83   | 288901   | 21.140 | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 242871   | 29.253 | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.429  | 83   | 322120   | 28.640 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 340252   | 26.202 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 286743   | 57.668 | ug/L  | 97       |
| 42) Toluene                   | 7.313  | 91   | 935784   | 27.787 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 314954   | 27.726 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 203553   | 28.855 | ug/L  | 97       |
| 46) Tetrachloroethene         | 7.905  | 164  | 177951   | 24.334 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 193225   | 51.829 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.175  | 129  | 229534   | 28.836 | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 189563   | 27.277 | ug/L  | 99       |
| 51) Chlorobenzene             | 8.812  | 112  | 627534   | 26.855 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.944  | 91   | 1012821  | 27.239 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.072  | 106  | 388453   | 27.536 | ug/L  | 100      |
| 54) o-Xylene                  | 9.477  | 106  | 370881   | 27.740 | ug/L  | 99       |
| 55) Styrene                   | 9.493  | 104  | 699203   | 29.983 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 218014   | 25.371 | ug/L  | 100      |
| 59) Bromoform                 | 9.664  | 173  | 151636   | 29.058 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.866  | 105  | 1033832  | 29.228 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 186989   | 30.052 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 829350   | 29.889 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 835872   | 29.314 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 529060   | 28.501 | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 546074   | 28.417 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 499192   | 28.569 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 42861    | 29.701 | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 386299   | 26.631 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 312567   | 25.805 | ug/L  | 99       |
| 71) Naphthalene               | 13.439 | 128  | 548370   | 25.789 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 308720   | 28.332 | ug/L  | 98       |

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

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Response via : Initial Calibration

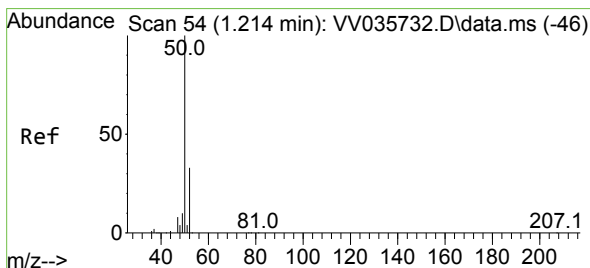
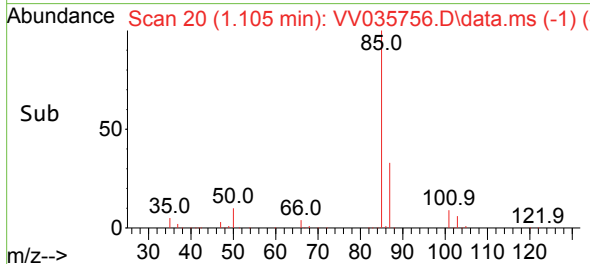
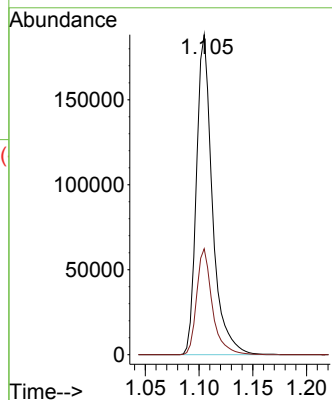
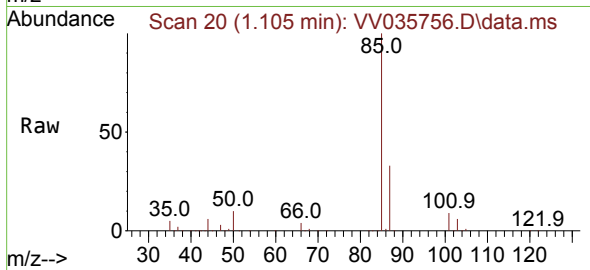




#2  
Dichlorodifluoromethane  
Concen: 20.505 ug/L  
RT: 1.105 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

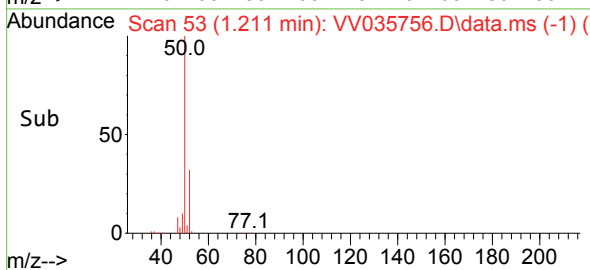
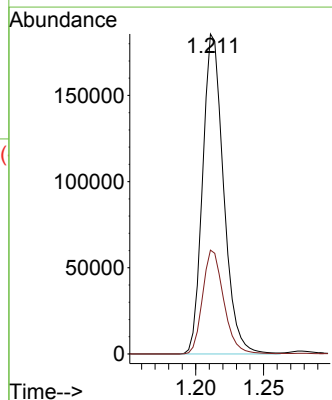
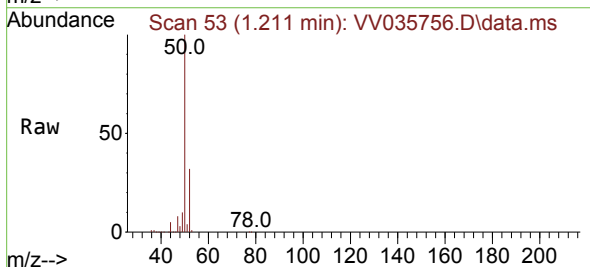
Instrument :  
MSVOA\_V  
ClientSampleId :

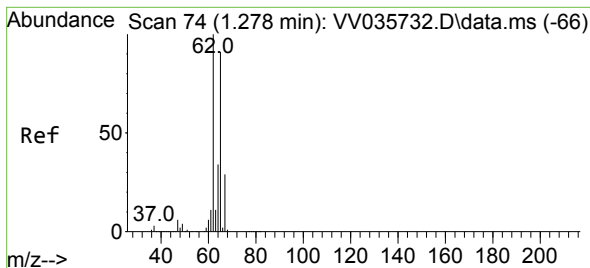
Tgt Ion: 85 Resp: 193917  
Ion Ratio Lower Upper  
85 100  
87 32.5 25.8 38.6



#3  
Chloromethane  
Concen: 21.022 ug/L  
RT: 1.211 min Scan# 53  
Delta R.T. -0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

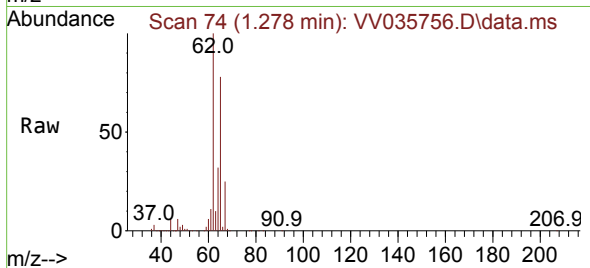
Tgt Ion: 50 Resp: 199603  
Ion Ratio Lower Upper  
50 100  
52 32.5 22.7 42.1



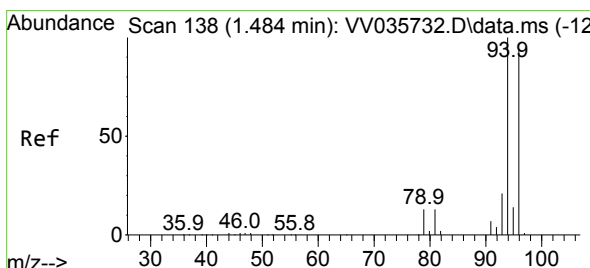
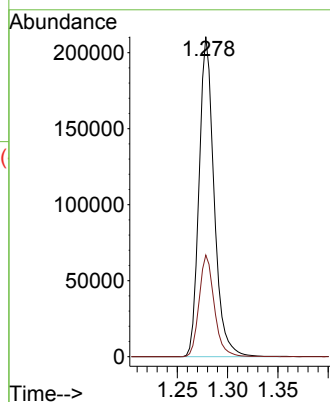
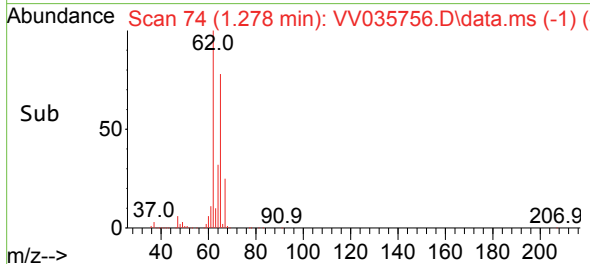


#5  
 Vinyl chloride  
 Concen: 22.302 ug/L  
 RT: 1.278 min Scan# 74  
 Delta R.T. 0.000 min  
 Lab File: VV035756.D  
 Acq: 24 May 2024 18:49

Instrument :  
 MSVOA\_V  
 ClientSampleId :

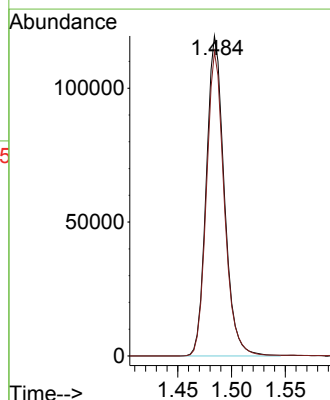
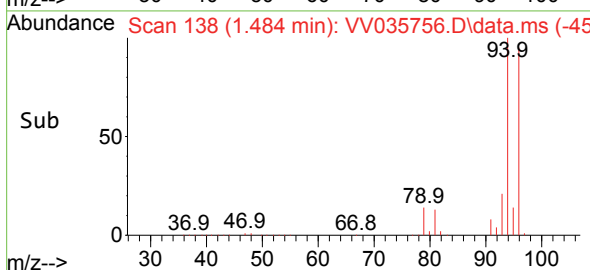
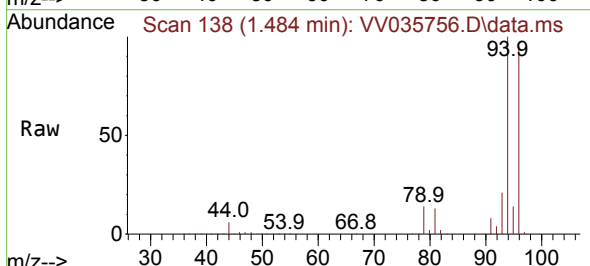


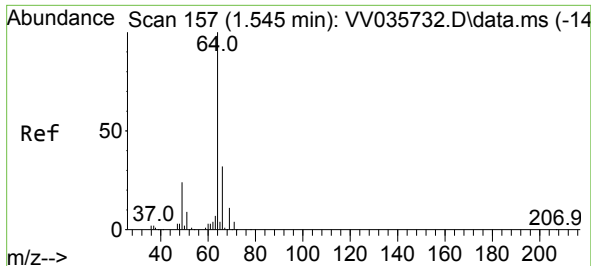
Tgt Ion: 62 Resp: 218773  
 Ion Ratio Lower Upper  
 62 100  
 64 31.7 23.0 42.6



#6  
 Bromomethane  
 Concen: 22.369 ug/L  
 RT: 1.484 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: VV035756.D  
 Acq: 24 May 2024 18:49

Tgt Ion: 94 Resp: 138934  
 Ion Ratio Lower Upper  
 94 100  
 96 95.0 65.2 121.0

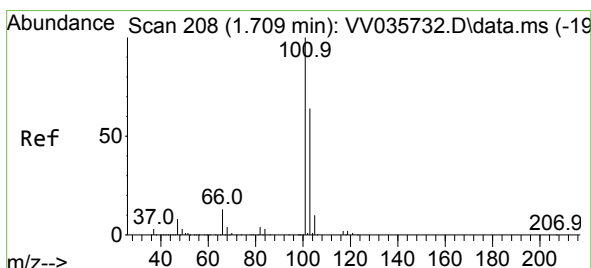
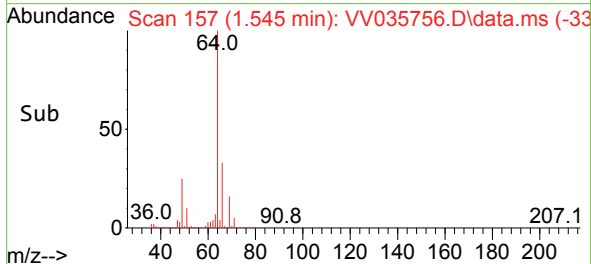
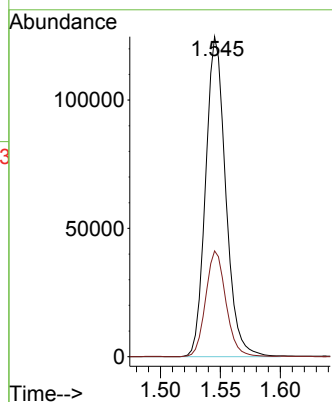
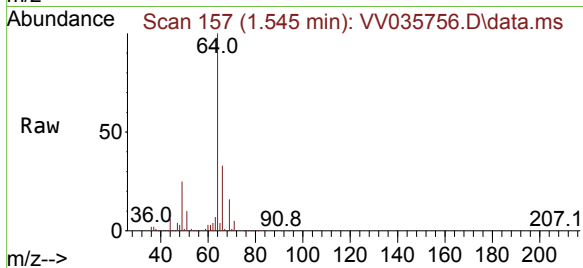




#8  
Chloroethane  
Concen: 24.106 ug/L  
RT: 1.545 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

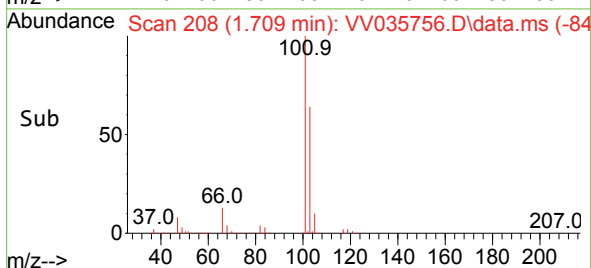
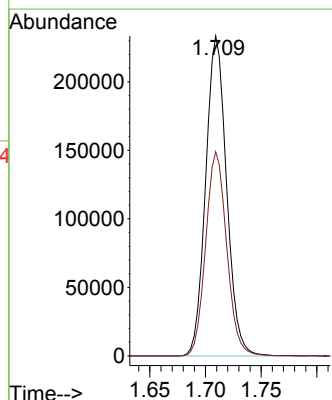
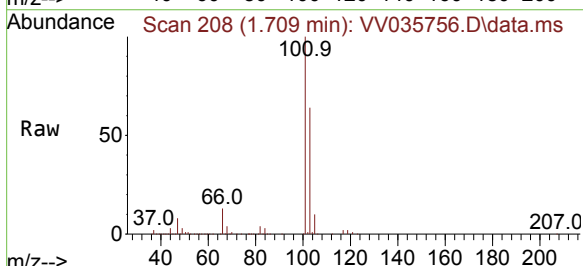
Instrument :  
MSVOA\_V  
ClientSampleId :

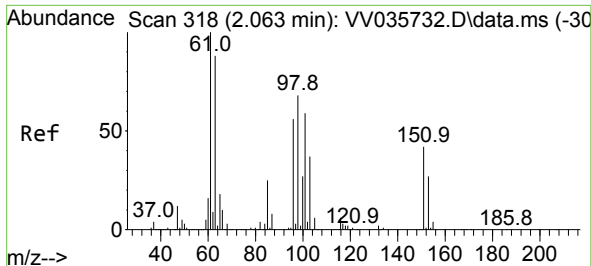
Tgt Ion: 64 Resp: 145767  
Ion Ratio Lower Upper  
64 100  
66 33.0 22.0 40.8



#9  
Trichlorofluoromethane  
Concen: 23.813 ug/L  
RT: 1.709 min Scan# 208  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion:101 Resp: 304895  
Ion Ratio Lower Upper  
101 100  
103 64.3 51.5 77.3





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 24.614 ug/L

RT: 2.063 min Scan# 318

Delta R.T. 0.000 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

ClientSampleId :

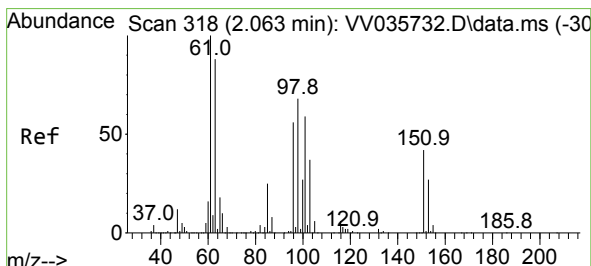
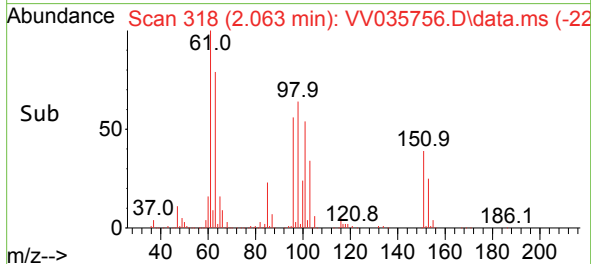
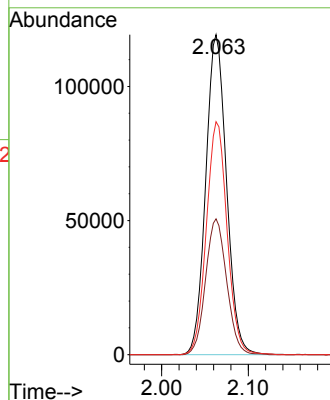
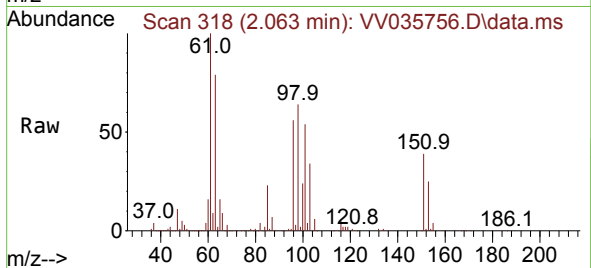
Tgt Ion:101 Resp: 198839

Ion Ratio Lower Upper

101 100

85 43.2 34.2 51.4

151 72.8 59.5 89.3



#12

1,1-Dichloroethene

Concen: 24.293 ug/L

RT: 2.063 min Scan# 318

Delta R.T. 0.000 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

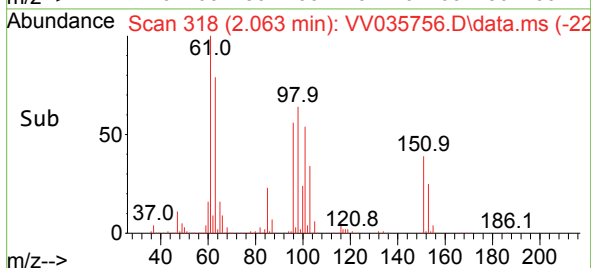
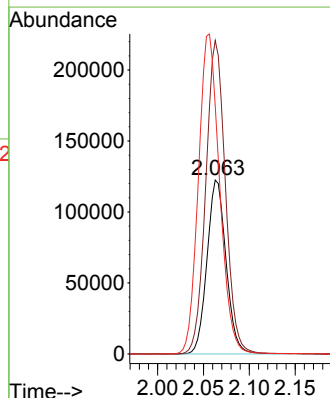
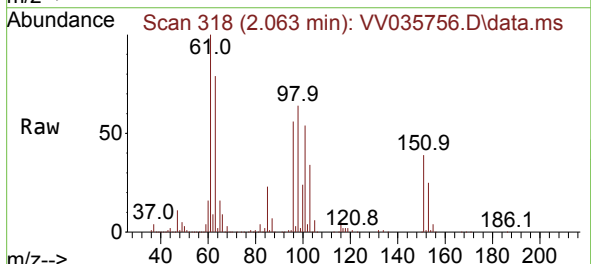
Tgt Ion: 96 Resp: 177263

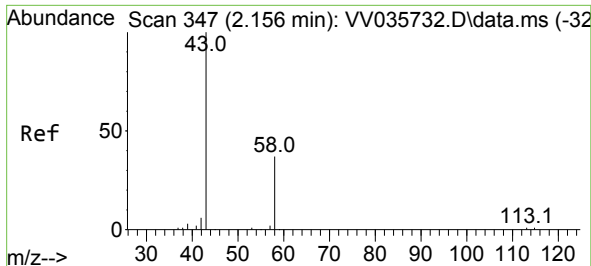
Ion Ratio Lower Upper

96 100

61 180.1 119.8 222.4

63 142.5 75.6 140.4#





#13

Acetone

Concen: 31.688 ug/L

RT: 2.384 min Scan# 41

Delta R.T. 0.228 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

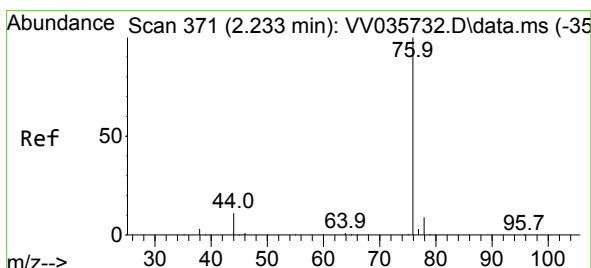
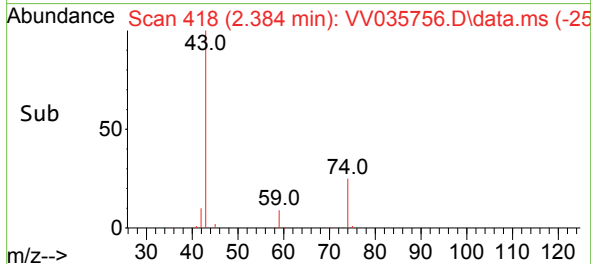
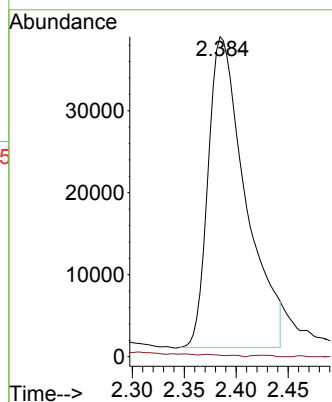
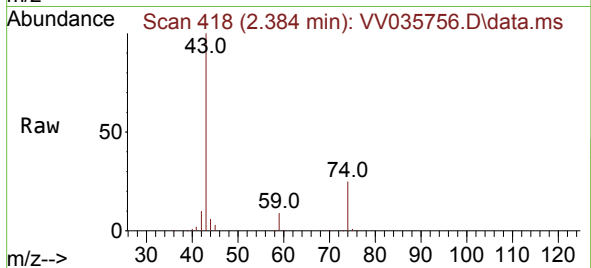
ClientSampleId :

Tgt Ion: 43 Resp: 94643

Ion Ratio Lower Upper

43 100

58 0.1 0.0 22.8



#14

Carbon disulfide

Concen: 18.911 ug/L

RT: 2.233 min Scan# 371

Delta R.T. 0.000 min

Lab File: VV035756.D

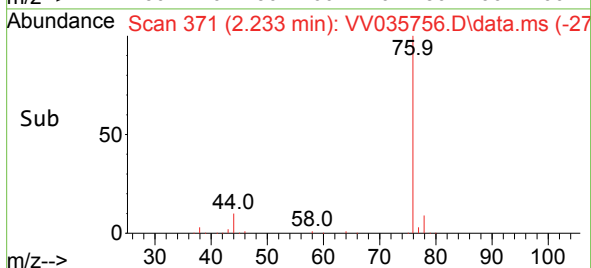
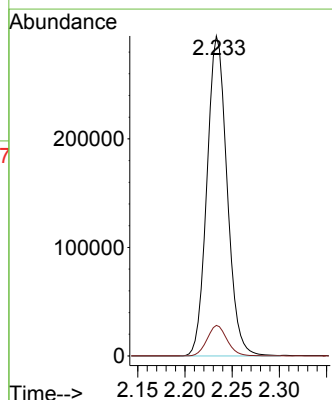
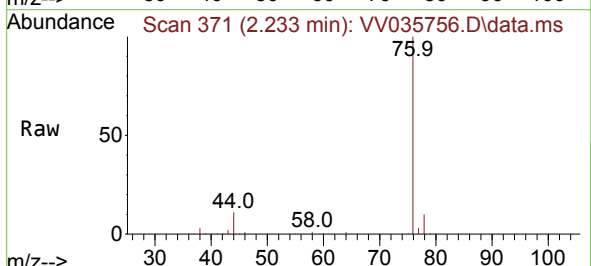
Acq: 24 May 2024 18:49

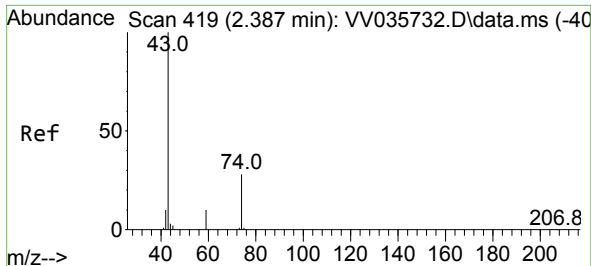
Tgt Ion: 76 Resp: 437076

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3

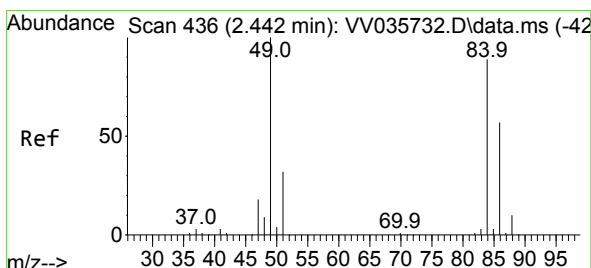
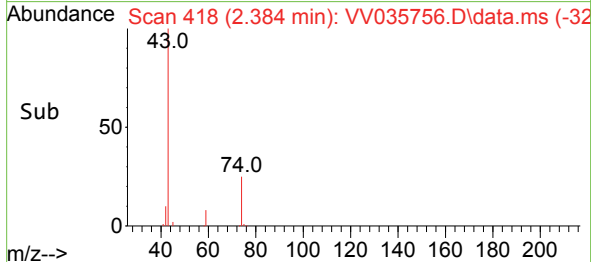
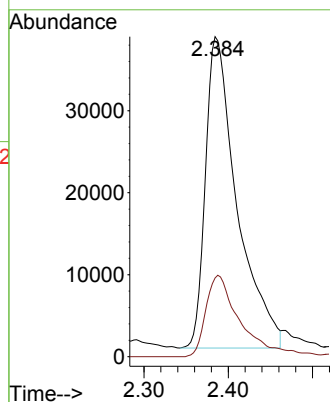
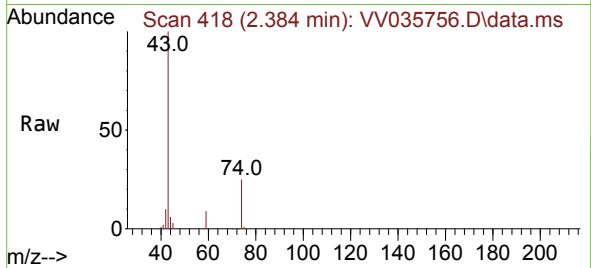




#15  
Methyl Acetate  
Concen: 21.858 ug/L  
RT: 2.384 min Scan# 419  
Delta R.T. -0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

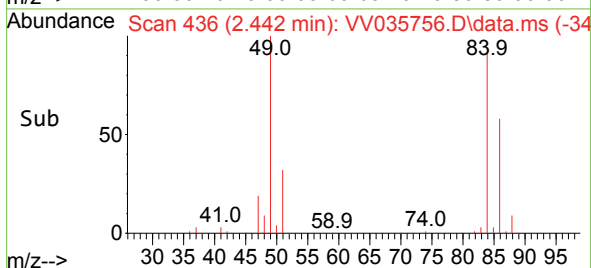
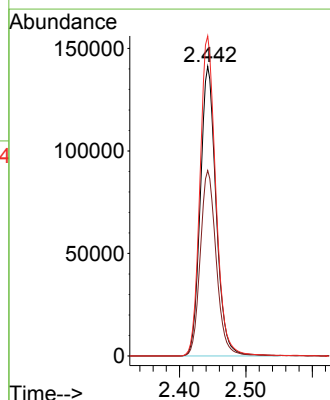
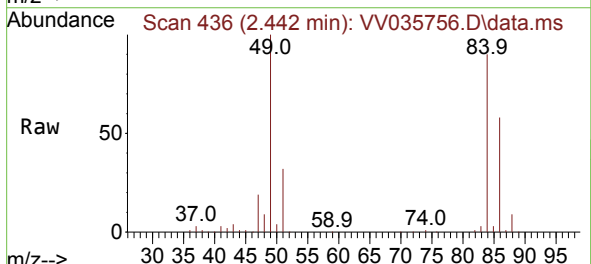
Instrument :  
MSVOA\_V  
ClientSampleId :

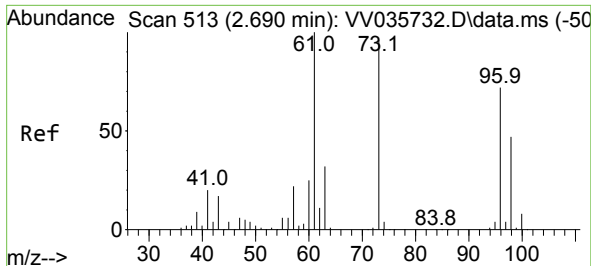
Tgt Ion: 43 Resp: 98911  
Ion Ratio Lower Upper  
43 100  
74 26.6 18.6 27.8



#16  
Methylene chloride  
Concen: 21.792 ug/L  
RT: 2.442 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

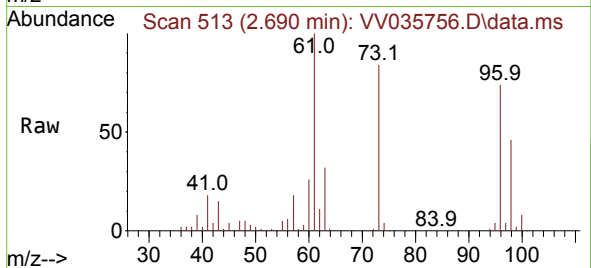
Tgt Ion: 84 Resp: 233751  
Ion Ratio Lower Upper  
84 100  
86 64.1 43.8 81.3  
49 110.5 75.3 139.9



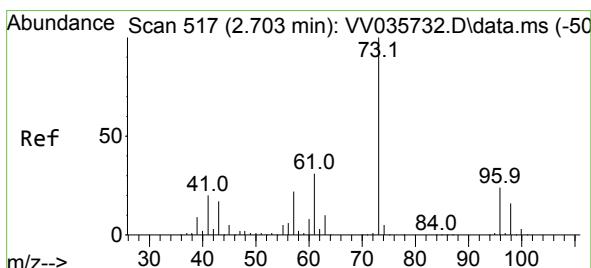
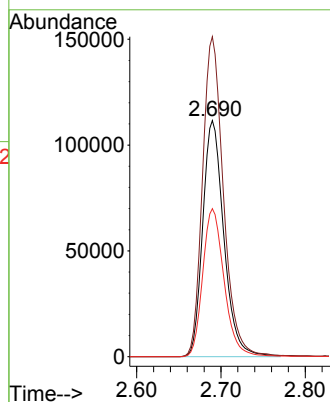
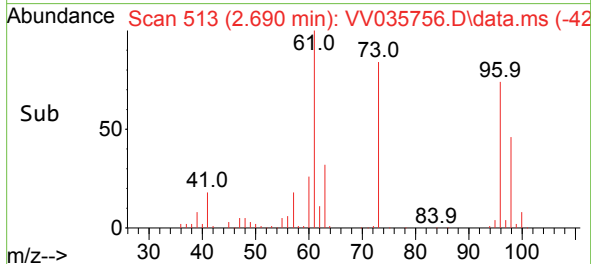


#17  
trans-1,2-Dichloroethene  
Concen: 24.033 ug/L  
RT: 2.690 min Scan# 513  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

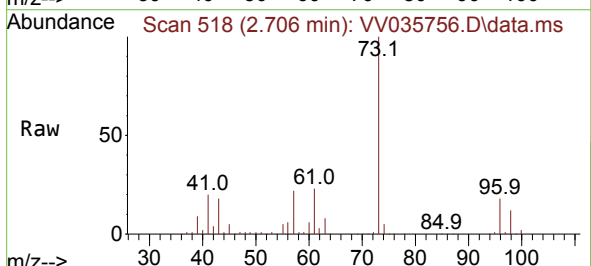
Instrument :  
MSVOA\_V  
ClientSampleId :



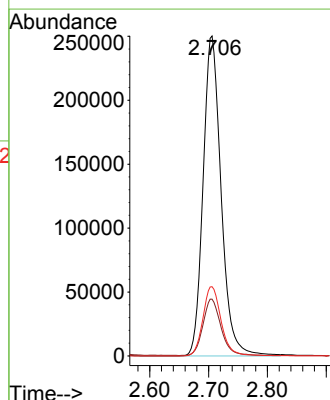
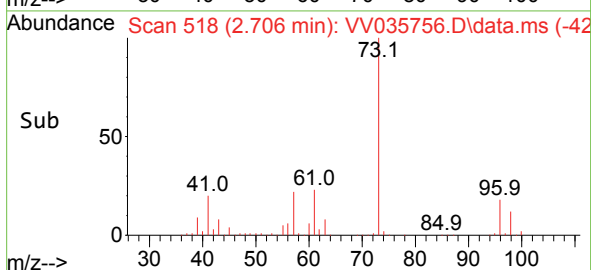
Tgt Ion: 96 Resp: 194679  
Ion Ratio Lower Upper  
96 100  
61 135.5 95.5 177.4  
98 62.6 46.0 85.4

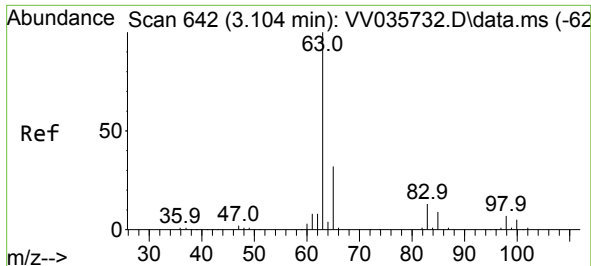


#18  
Methyl tert-butyl Ether  
Concen: 27.315 ug/L  
RT: 2.706 min Scan# 518  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49



Tgt Ion: 73 Resp: 533742  
Ion Ratio Lower Upper  
73 100  
43 17.5 13.3 19.9  
57 21.7 17.4 26.2





#19

1,1-Dichloroethane

Concen: 27.194 ug/L

RT: 3.108 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

ClientSampleId :

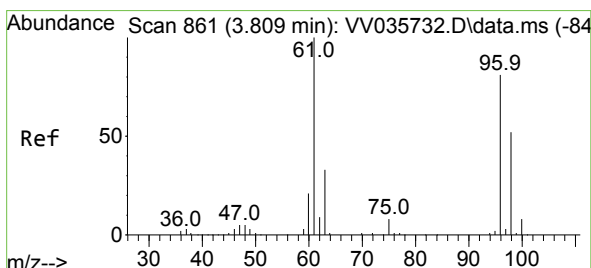
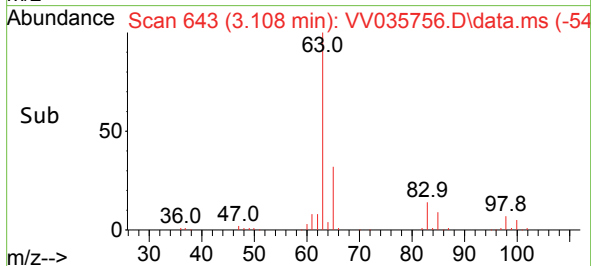
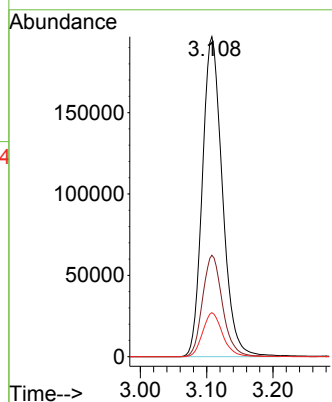
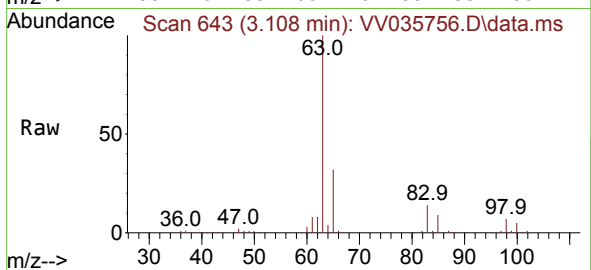
Tgt Ion: 63 Resp: 412975

Ion Ratio Lower Upper

63 100

65 31.7 22.7 42.3

83 13.7 9.7 17.9



#20

cis-1,2-Dichloroethene

Concen: 24.384 ug/L

RT: 3.812 min Scan# 862

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

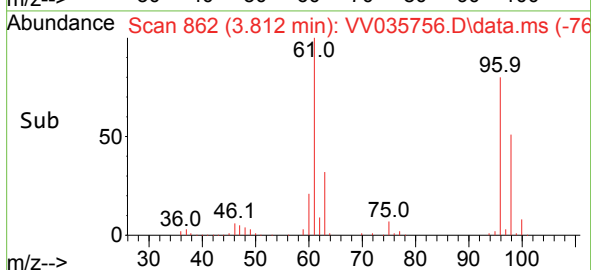
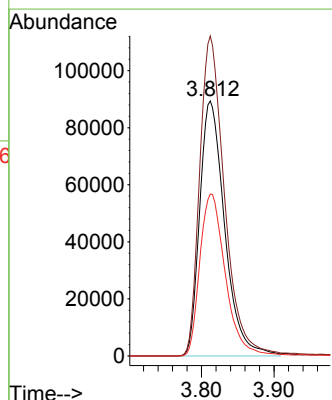
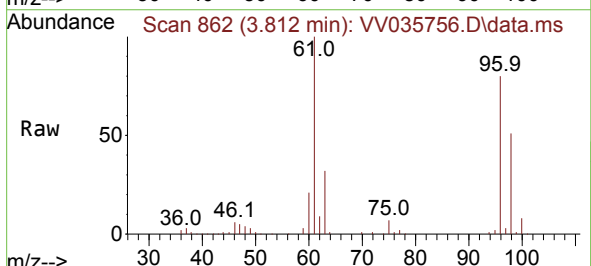
Tgt Ion: 96 Resp: 214127

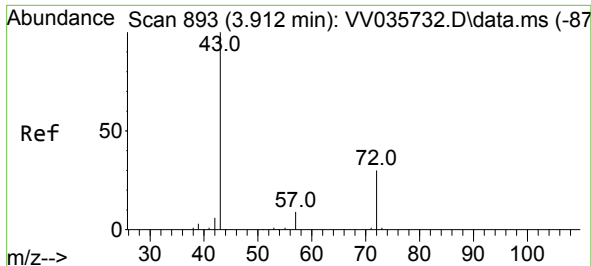
Ion Ratio Lower Upper

96 100

61 125.5 83.9 155.9

98 63.5 44.0 81.8

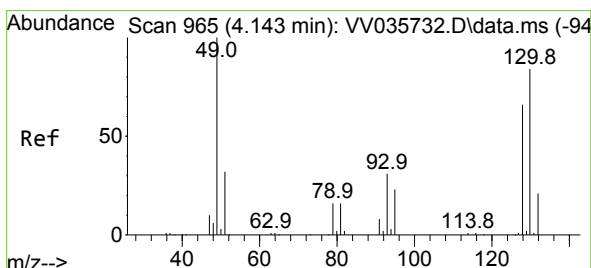
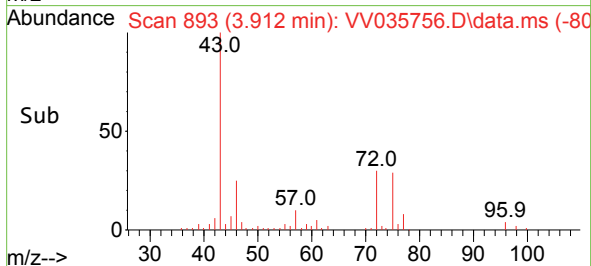
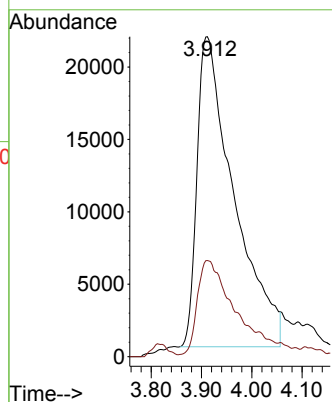
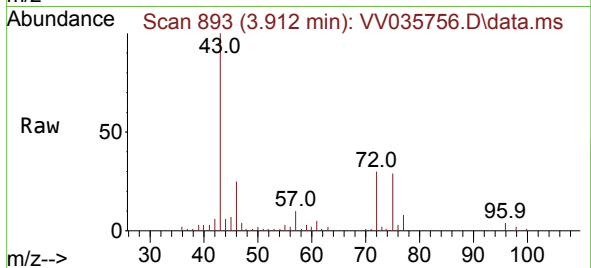




#22  
2-Butanone  
Concen: 39.369 ug/L  
RT: 3.912 min Scan# 893  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

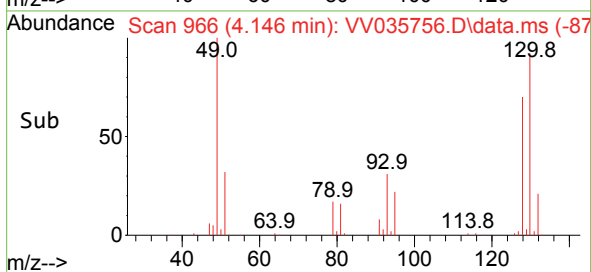
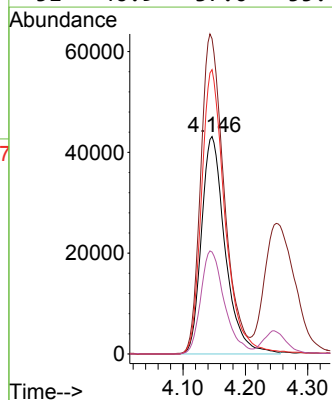
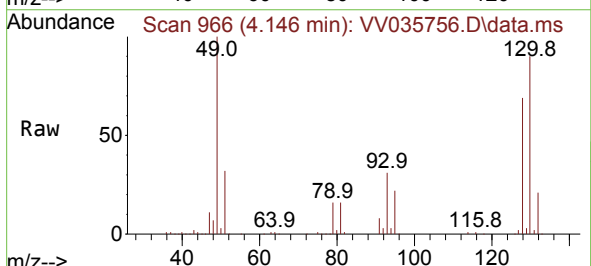
Instrument :  
MSVOA\_V  
ClientSampleId :

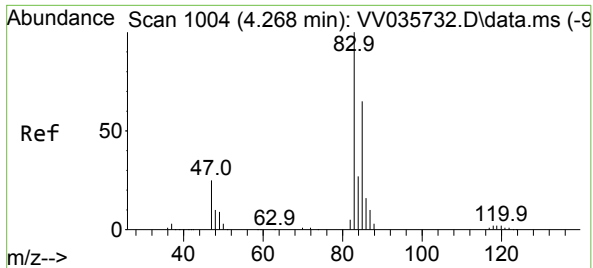
Tgt Ion: 43 Resp: 109197  
Ion Ratio Lower Upper  
43 100  
72 28.1 12.3 36.9



#23  
Bromochloromethane  
Concen: 26.780 ug/L  
RT: 4.146 min Scan# 966  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion:128 Resp: 113744  
Ion Ratio Lower Upper  
128 100  
49 144.9 103.1 191.5  
130 130.7 91.8 170.4  
51 46.9 37.0 55.4

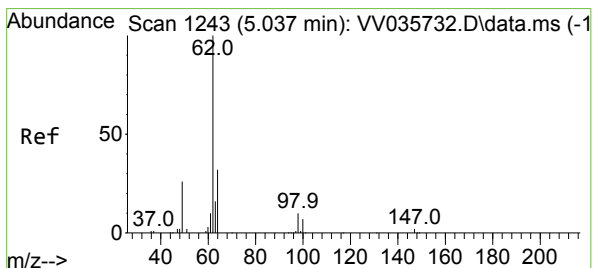
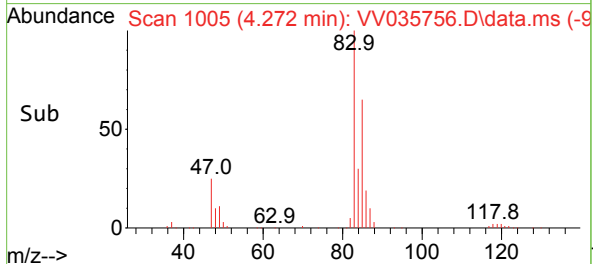
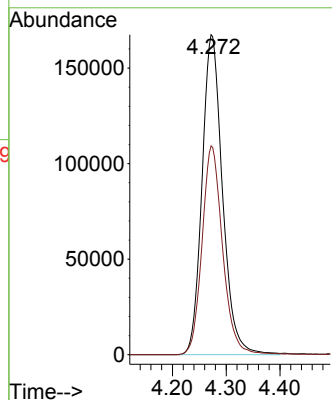
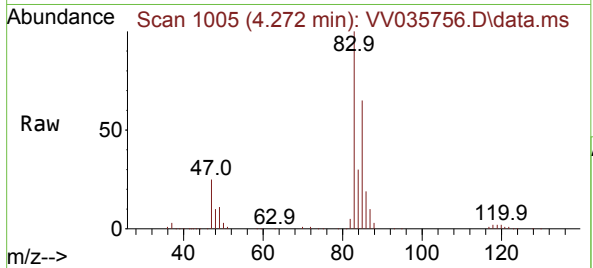




#25  
Chloroform  
Concen: 28.222 ug/L  
RT: 4.272 min Scan# 1005  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

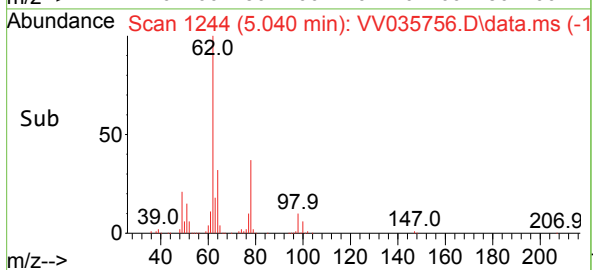
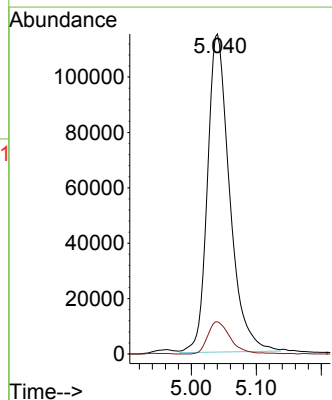
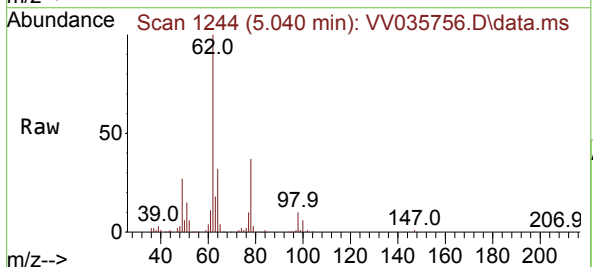
Instrument :  
MSVOA\_V  
ClientSampleId :

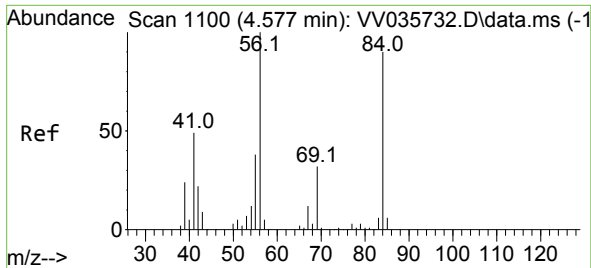
Tgt Ion: 83 Resp: 442573  
Ion Ratio Lower Upper  
83 100  
85 65.2 44.7 82.9



#27  
1,2-Dichloroethane  
Concen: 27.990 ug/L  
RT: 5.040 min Scan# 1244  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion: 62 Resp: 273321  
Ion Ratio Lower Upper  
62 100  
98 10.0 8.2 12.2

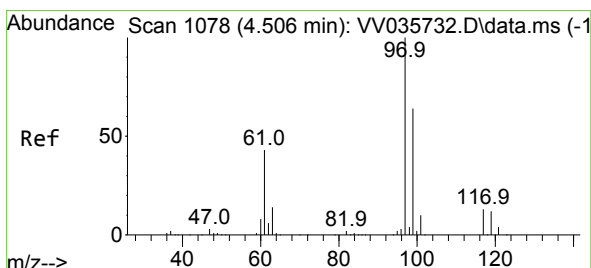
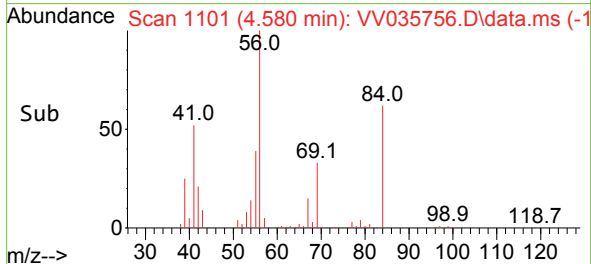
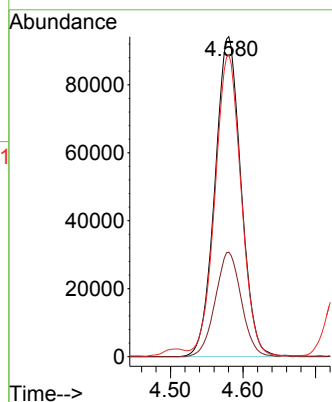
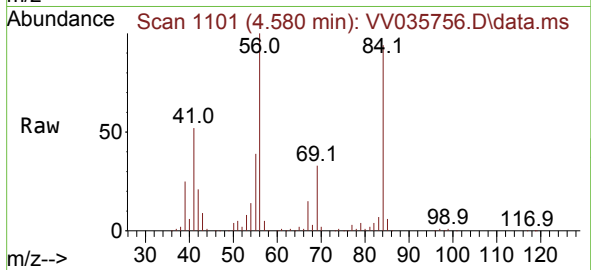




#29  
Cyclohexane  
Concen: 20.473 ug/L  
RT: 4.580 min Scan# 1100  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

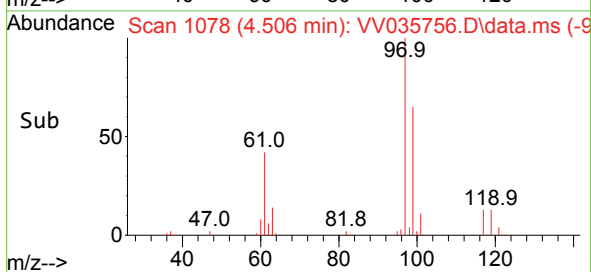
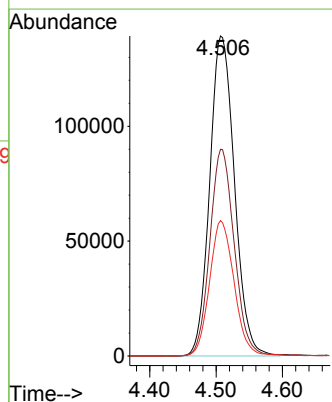
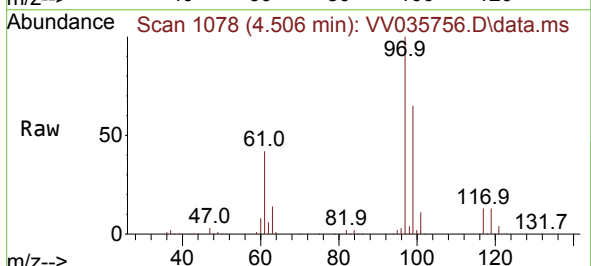
Instrument :  
MSVOA\_V  
ClientSampleId :

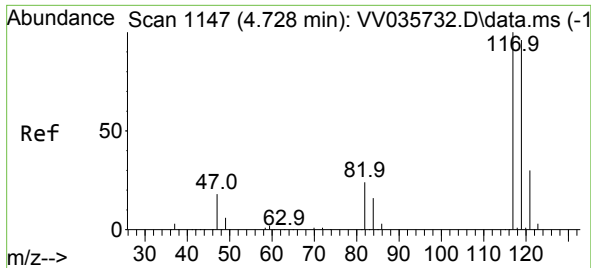
Tgt Ion: 56 Resp: 235397  
Ion Ratio Lower Upper  
56 100  
69 32.7 25.6 38.4  
84 94.0 74.8 112.2



#30  
1,1,1-Trichloroethane  
Concen: 27.144 ug/L  
RT: 4.506 min Scan# 1078  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion: 97 Resp: 361885  
Ion Ratio Lower Upper  
97 100  
99 63.5 51.7 77.5  
61 42.0 33.5 50.3

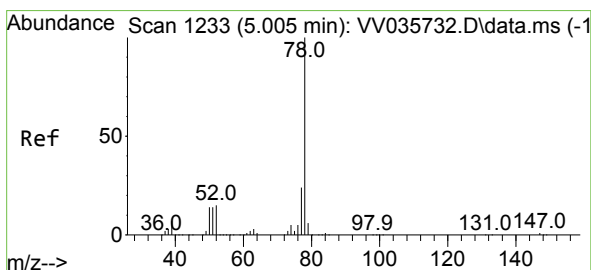
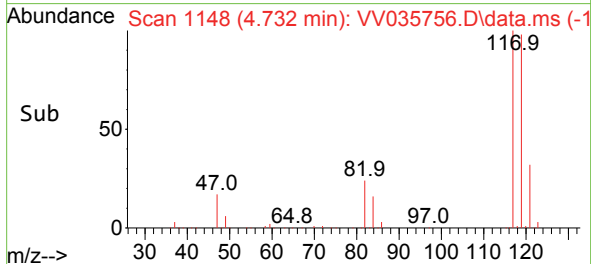
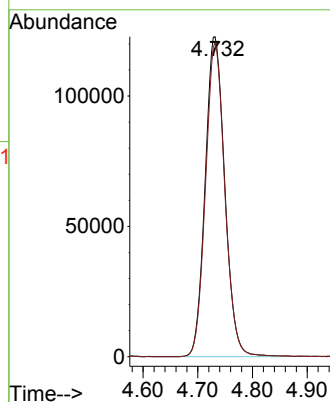
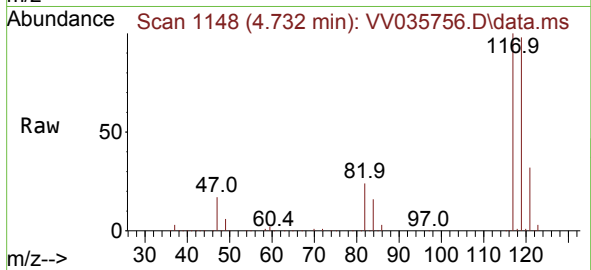




#31  
Carbon tetrachloride  
Concen: 26.085 ug/L  
RT: 4.732 min Scan# 1147  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

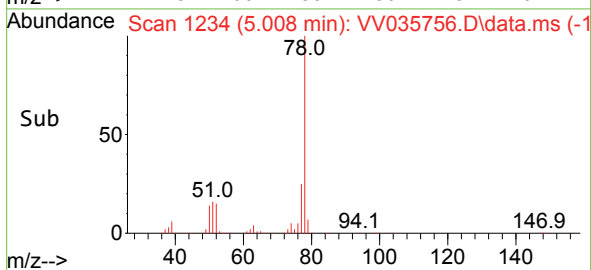
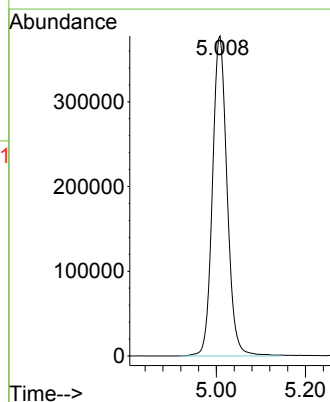
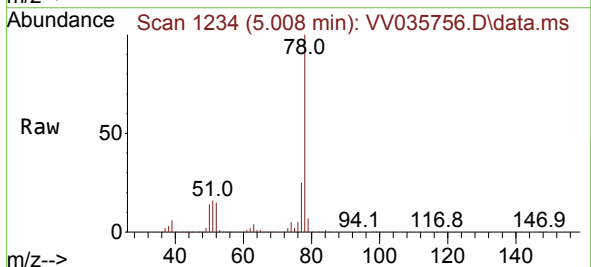
Instrument :  
MSVOA\_V  
ClientSampleId :

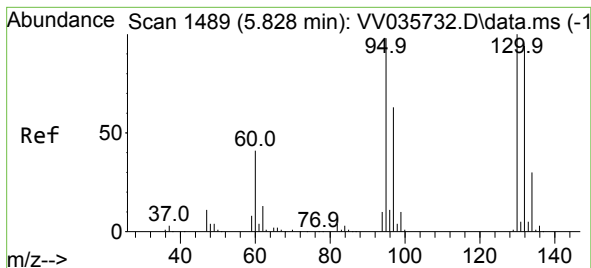
Tgt Ion:117 Resp: 305129  
Ion Ratio Lower Upper  
117 100  
119 96.6 77.3 115.9



#33  
Benzene  
Concen: 26.985 ug/L  
RT: 5.008 min Scan# 1234  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion: 78 Resp: 858716





#34

Trichloroethene

Concen: 27.004 ug/L

RT: 5.831 min Scan# 1489

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 243073

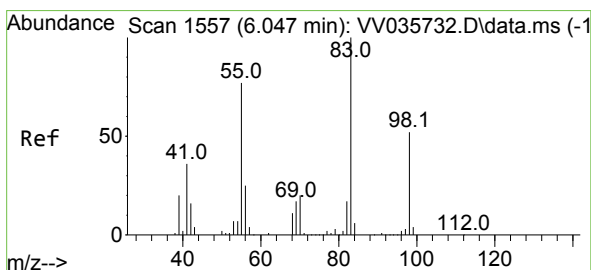
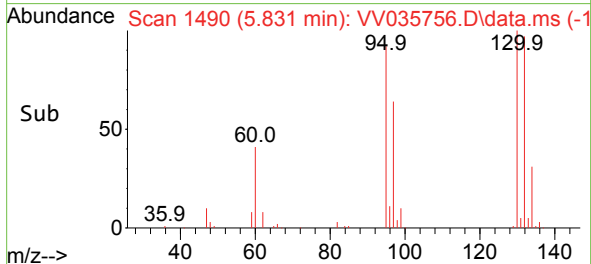
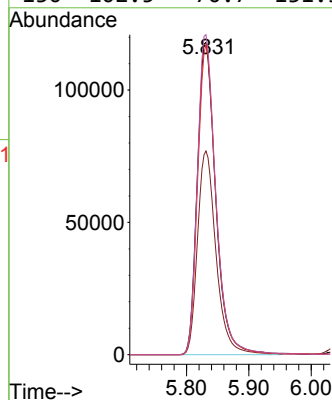
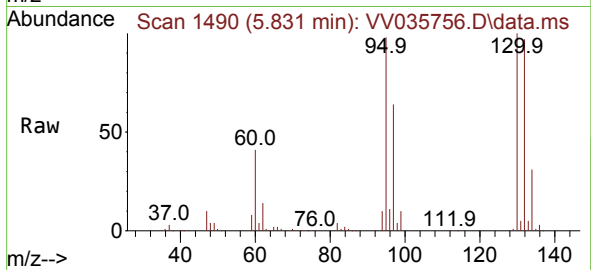
Ion Ratio Lower Upper

95 100

97 65.2 43.8 81.4

132 99.2 67.1 124.7

130 102.5 70.7 131.3



#35

Methylcyclohexane

Concen: 21.140 ug/L

RT: 6.047 min Scan# 1557

Delta R.T. 0.000 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

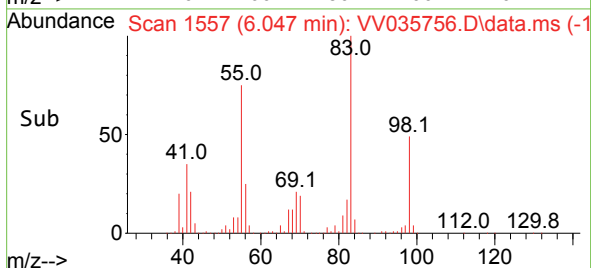
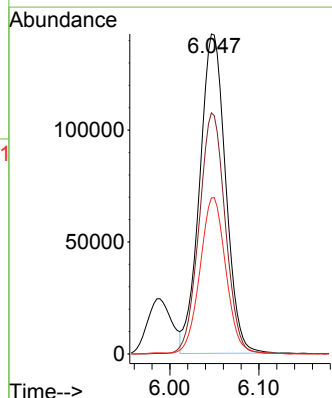
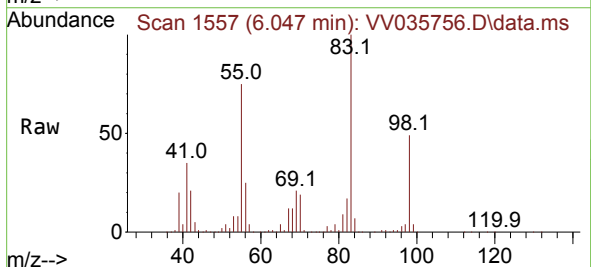
Tgt Ion: 83 Resp: 288901

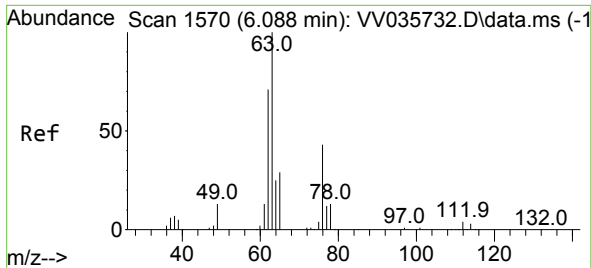
Ion Ratio Lower Upper

83 100

55 75.8 57.5 86.3

98 49.1 38.6 58.0





#37

1,2-Dichloropropane

Concen: 29.253 ug/L

RT: 6.092 min Scan# 1571

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

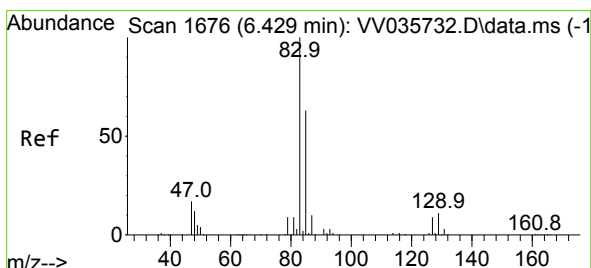
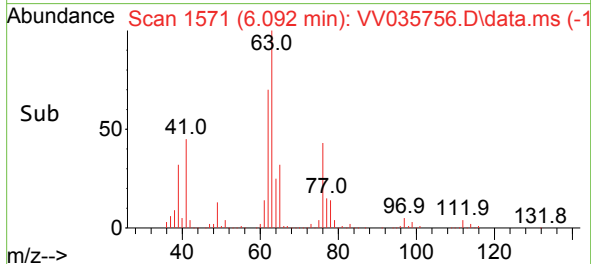
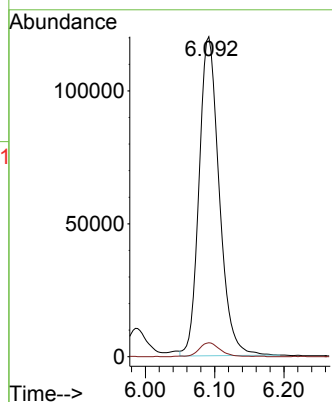
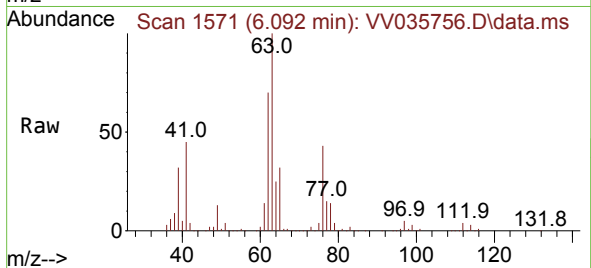
ClientSampleId :

Tgt Ion: 63 Resp: 242871

Ion Ratio Lower Upper

63 100

112 4.5 3.8 5.6



#38

Bromodichloromethane

Concen: 28.640 ug/L

RT: 6.429 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

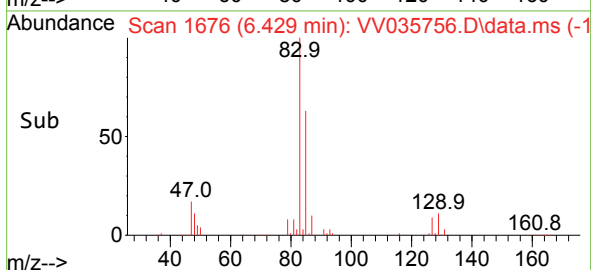
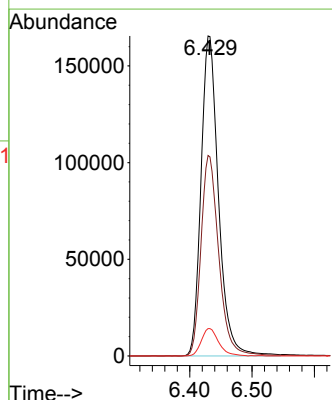
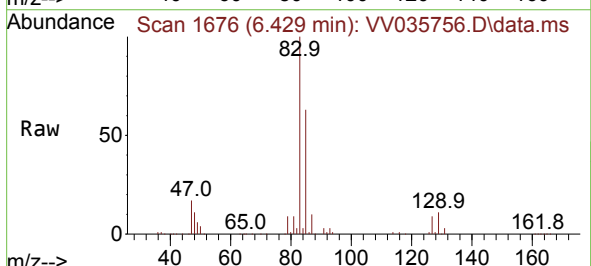
Tgt Ion: 83 Resp: 322120

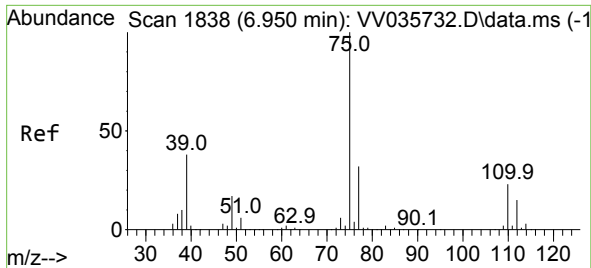
Ion Ratio Lower Upper

83 100

85 62.7 45.1 83.9

127 8.5 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 26.202 ug/L

RT: 6.953 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

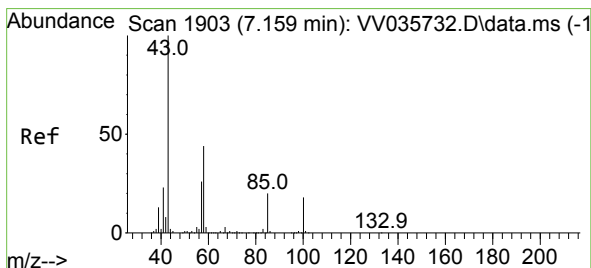
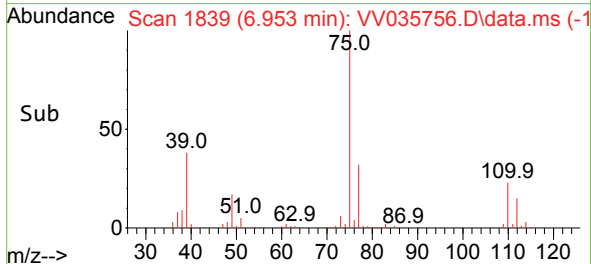
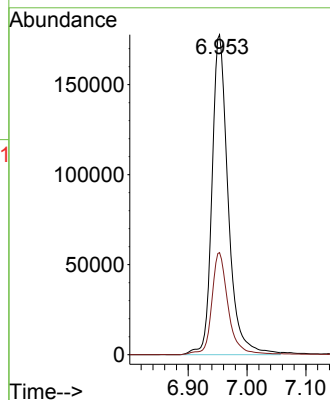
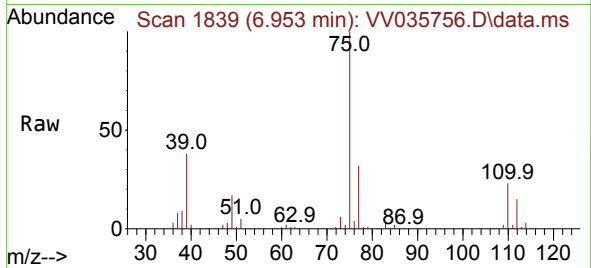
ClientSampleId :

Tgt Ion: 75 Resp: 340252

Ion Ratio Lower Upper

75 100

77 31.9 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 57.668 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

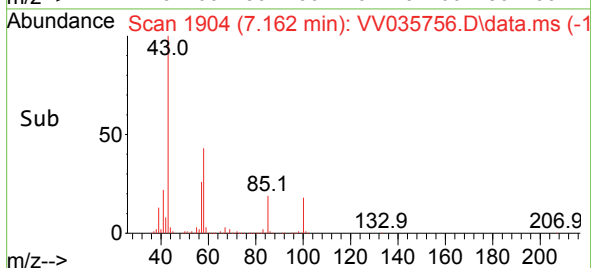
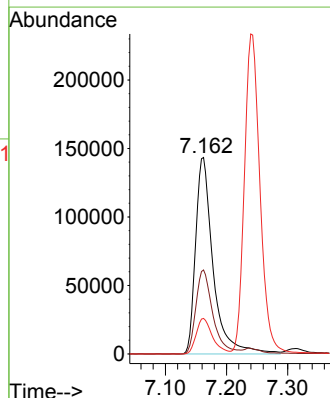
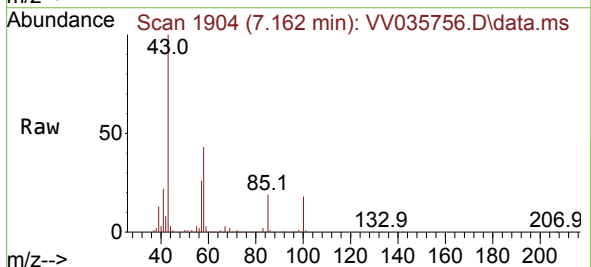
Tgt Ion: 43 Resp: 286743

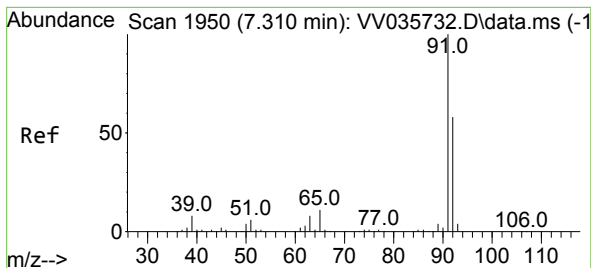
Ion Ratio Lower Upper

43 100

58 41.4 34.8 52.2

100 16.9 13.9 20.9





#42

Toluene

Concen: 27.787 ug/L

RT: 7.313 min Scan# 1950

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

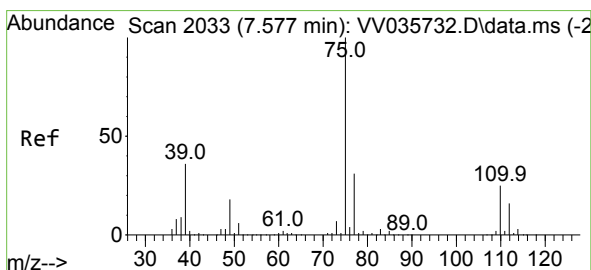
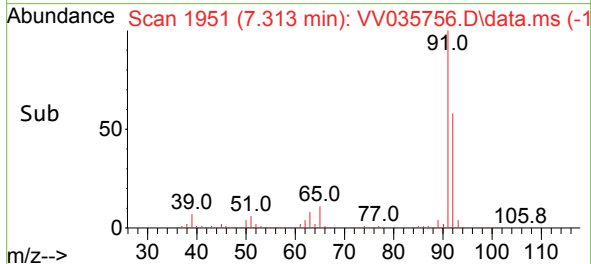
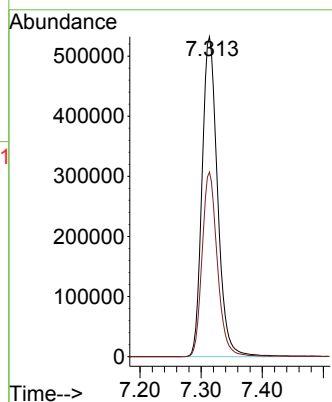
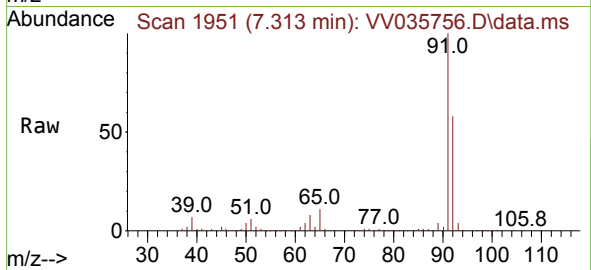
ClientSampleId :

Tgt Ion: 91 Resp: 935784

Ion Ratio Lower Upper

91 100

92 57.7 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 27.726 ug/L

RT: 7.580 min Scan# 2034

Delta R.T. 0.003 min

Lab File: VV035756.D

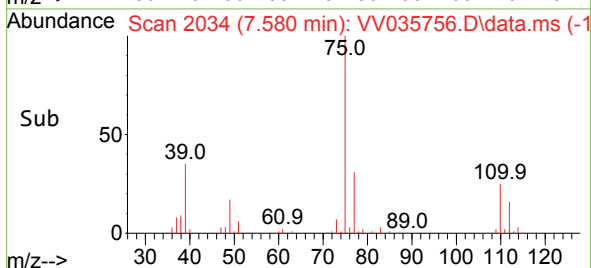
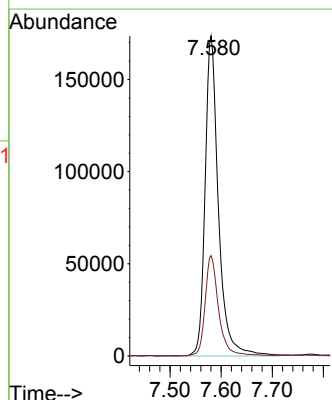
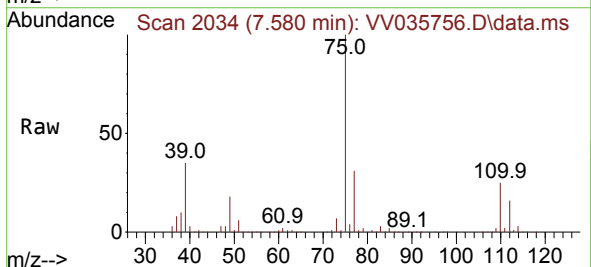
Acq: 24 May 2024 18:49

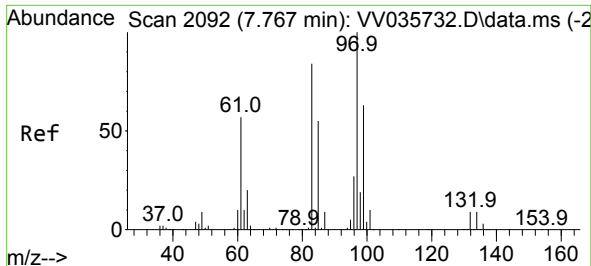
Tgt Ion: 75 Resp: 314954

Ion Ratio Lower Upper

75 100

77 31.3 22.4 41.6

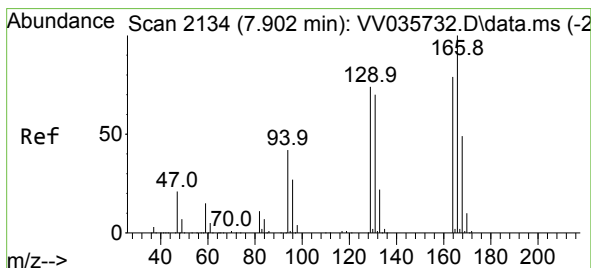
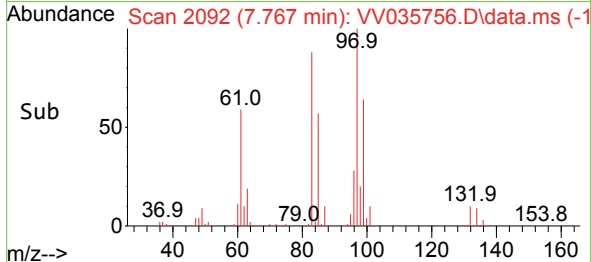
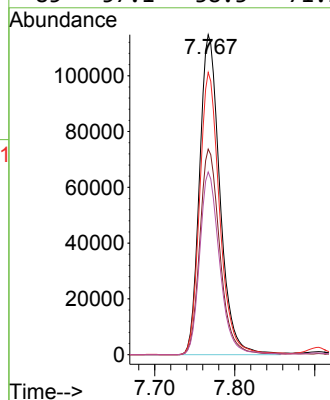
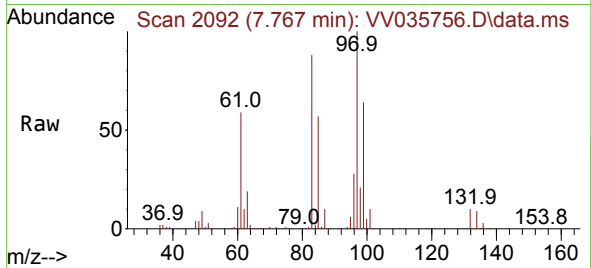




#45  
1,1,2-Trichloroethane  
Concen: 28.855 ug/L  
RT: 7.767 min Scan# 2092  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

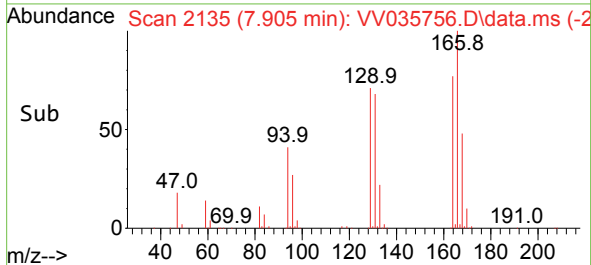
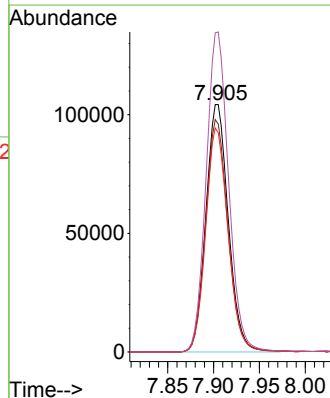
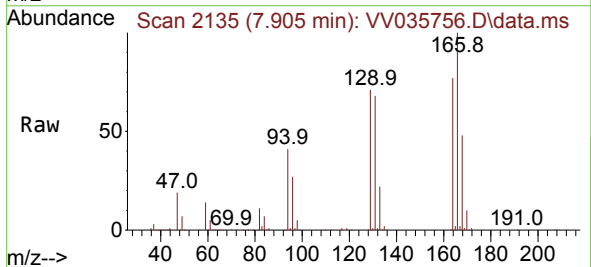
Instrument :  
MSVOA\_V  
ClientSampleId :

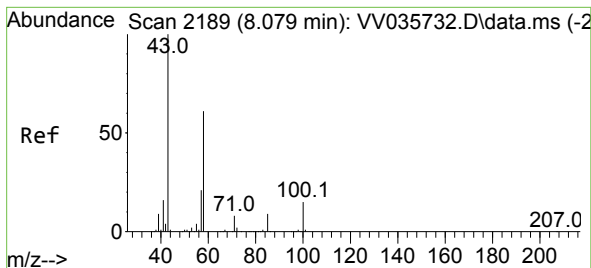
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 203553 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 99 64.3     | 43.3 80.3    |
| 83 88.2     | 60.3 111.9   |
| 85 57.1     | 38.3 71.1    |



#46  
Tetrachloroethene  
Concen: 24.334 ug/L  
RT: 7.905 min Scan# 2135  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 177951 |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 129 | 92.2    | 63.4  | 117.8  |
| 131 | 88.5    | 61.0  | 113.4  |
| 166 | 129.3   | 88.8  | 164.8  |





#48

2-Hexanone

Concen: 51.829 ug/L

RT: 8.079 min Scan# 2189

Delta R.T. 0.000 min

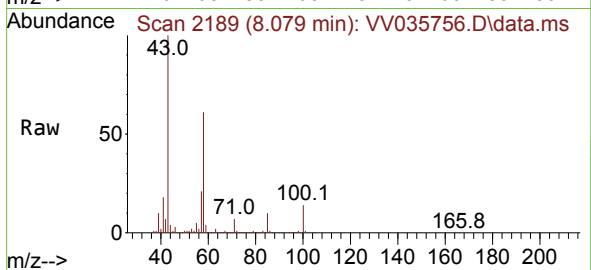
Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

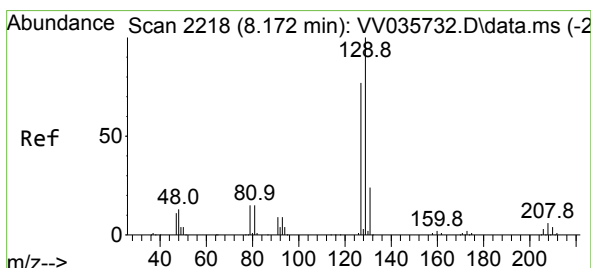
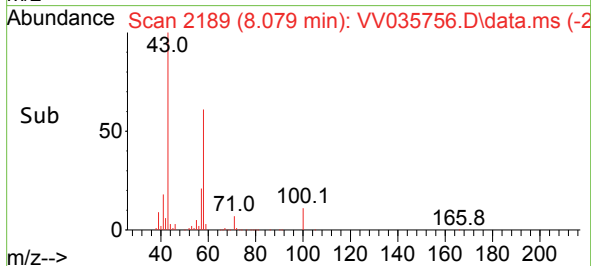
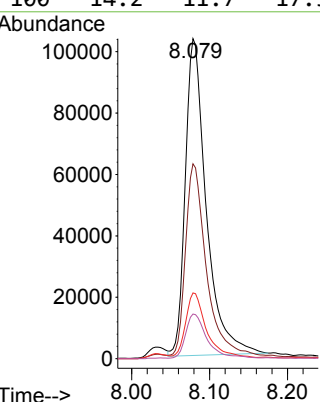
MSVOA\_V

ClientSampleId :



Tgt Ion: 43 Resp: 193225

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 60.6  | 48.8  | 73.2  |
| 57  | 20.9  | 16.9  | 25.3  |
| 100 | 14.2  | 11.7  | 17.5  |



#49

Dibromochloromethane

Concen: 28.836 ug/L

RT: 8.175 min Scan# 2219

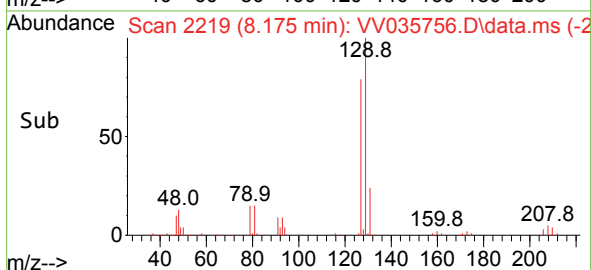
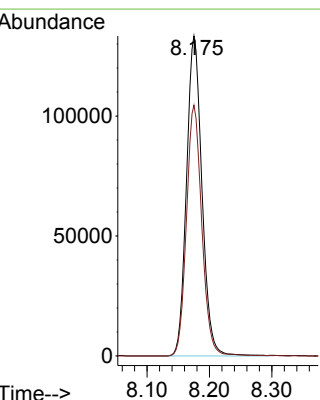
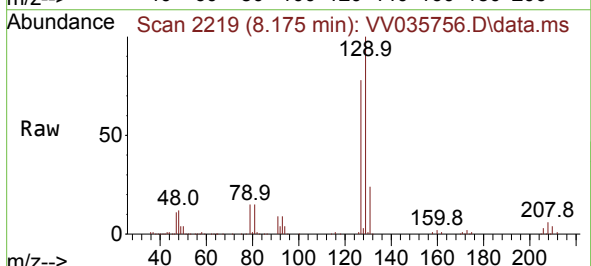
Delta R.T. 0.003 min

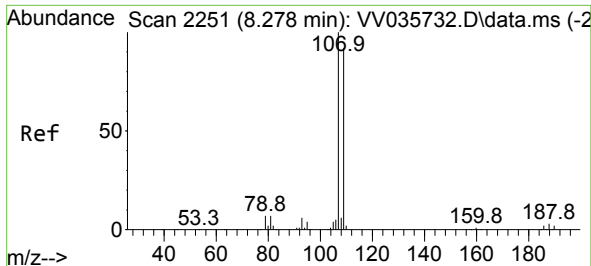
Lab File: VV035756.D

Acq: 24 May 2024 18:49

Tgt Ion: 129 Resp: 229534

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.4  | 53.8  | 99.8  |





#50

1,2-Dibromoethane

Concen: 27.277 ug/L

RT: 8.281 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

ClientSampleId :

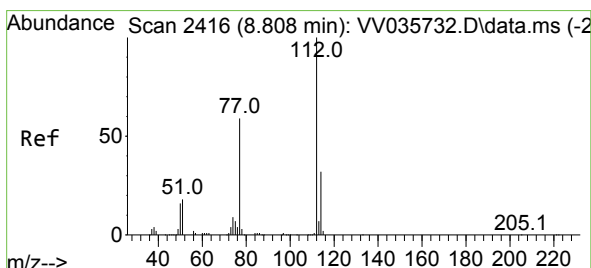
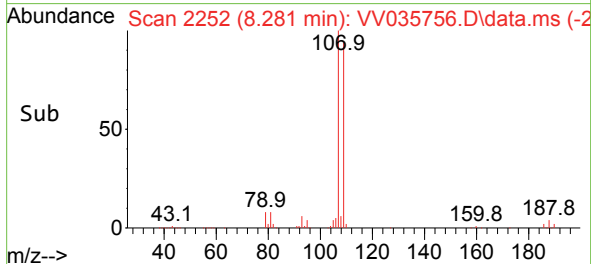
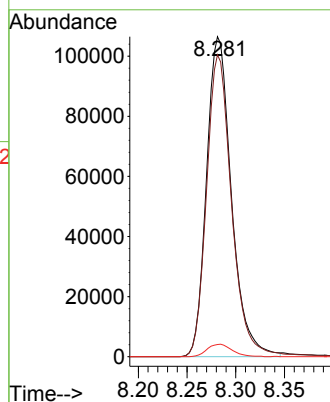
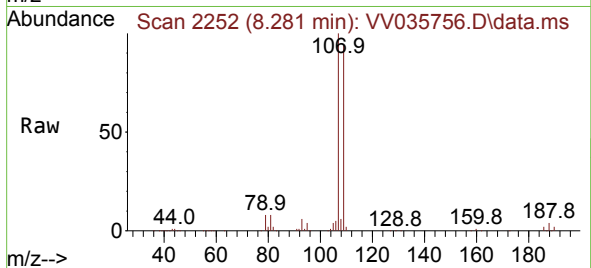
Tgt Ion:107 Resp: 189563

Ion Ratio Lower Upper

107 100

109 94.3 65.4 121.4

188 4.0 2.9 4.3



#51

Chlorobenzene

Concen: 26.855 ug/L

RT: 8.812 min Scan# 2417

Delta R.T. 0.003 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

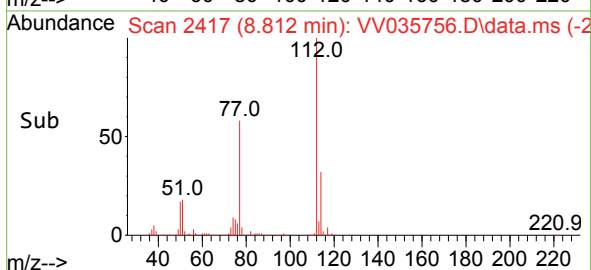
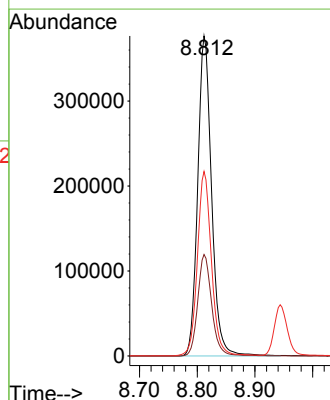
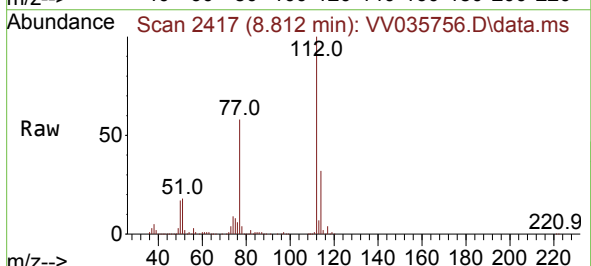
Tgt Ion:112 Resp: 627534

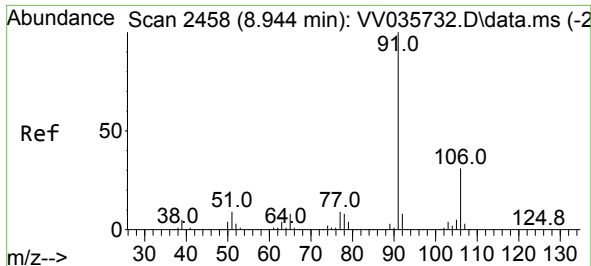
Ion Ratio Lower Upper

112 100

114 31.7 22.5 41.7

77 57.6 46.6 69.8

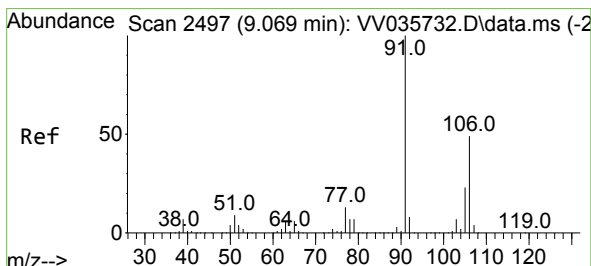
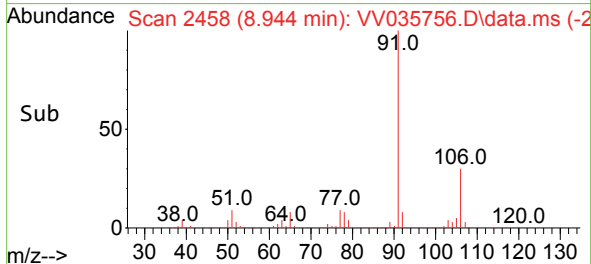
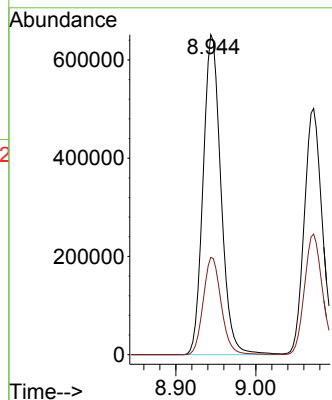
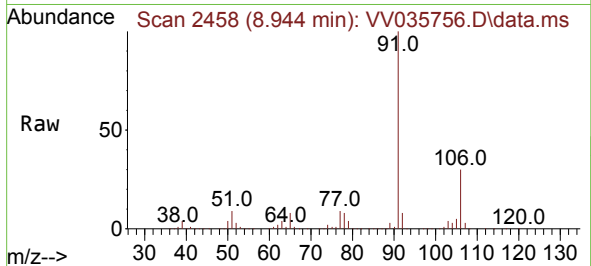




#52  
Ethylbenzene  
Concen: 27.239 ug/L  
RT: 8.944 min Scan# 2458  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

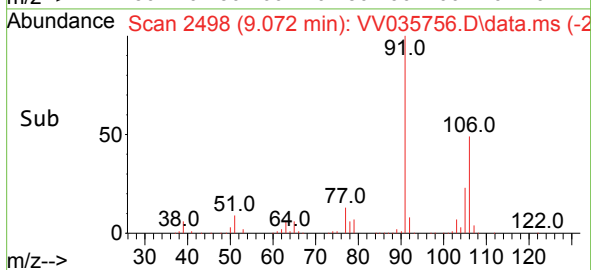
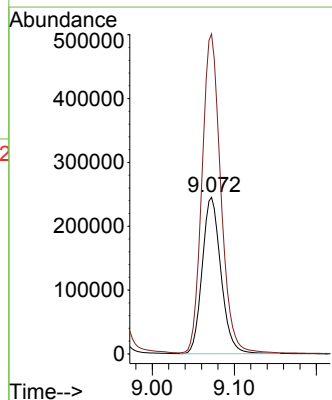
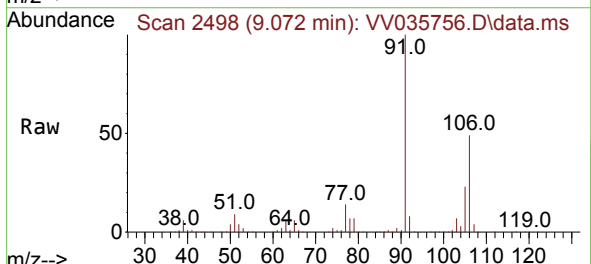
Instrument :  
MSVOA\_V  
ClientSampleId :

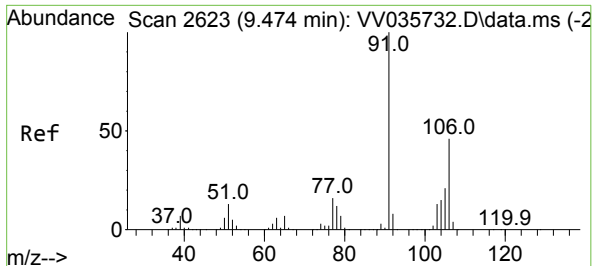
Tgt Ion: 91 Resp: 1012821  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.7 40.3



#53  
m,p-Xylene  
Concen: 27.536 ug/L  
RT: 9.072 min Scan# 2498  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion: 106 Resp: 388453  
Ion Ratio Lower Upper  
106 100  
91 204.2 142.7 264.9

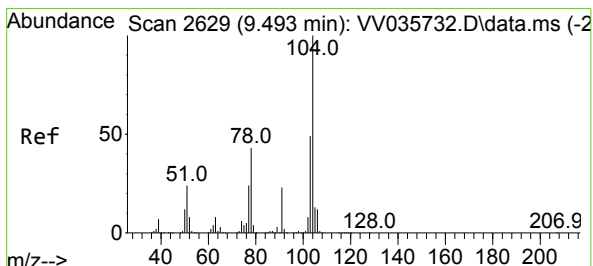
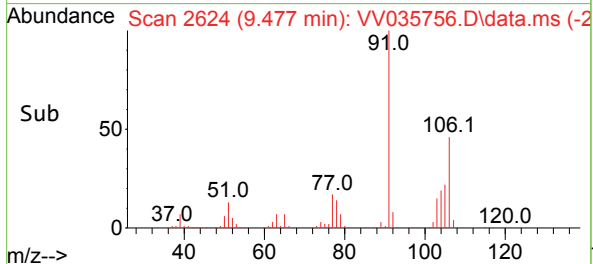
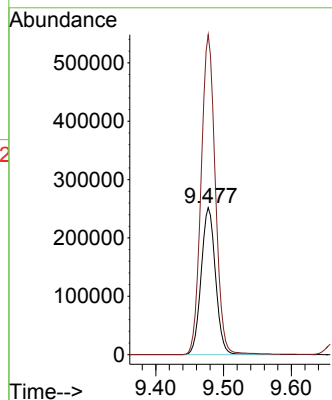
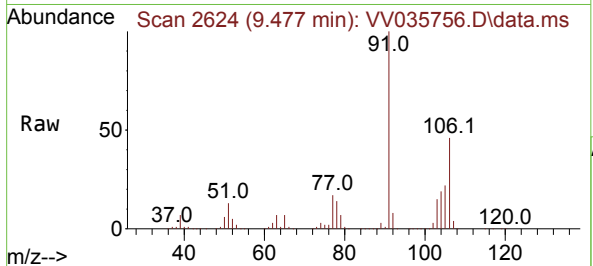




#54  
o-Xylene  
Concen: 27.740 ug/L  
RT: 9.477 min Scan# 2623  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

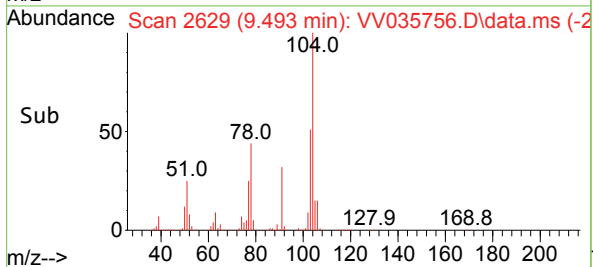
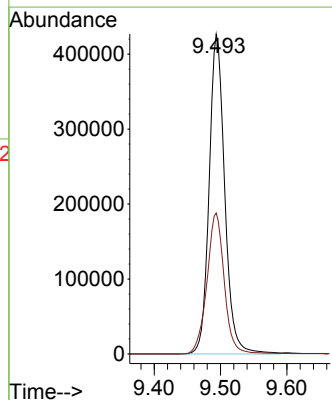
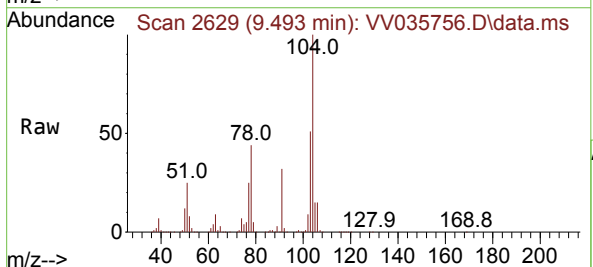
Instrument :  
MSVOA\_V  
ClientSampleId :

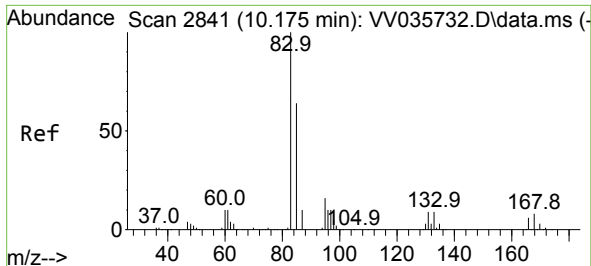
Tgt Ion:106 Resp: 370881  
Ion Ratio Lower Upper  
106 100  
91 217.5 150.9 280.3



#55  
Styrene  
Concen: 29.983 ug/L  
RT: 9.493 min Scan# 2629  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion:104 Resp: 699203  
Ion Ratio Lower Upper  
104 100  
78 44.1 30.0 55.6





#57

1,1,2,2-Tetrachloroethane

Concen: 25.371 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. 0.000 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

Instrument :

MSVOA\_V

ClientSampleId :

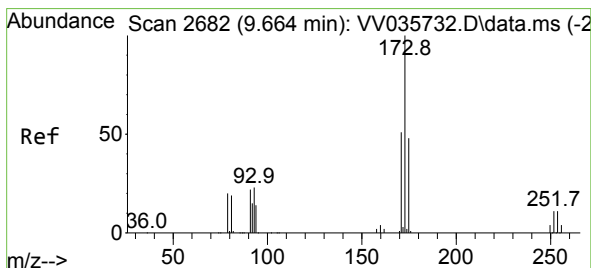
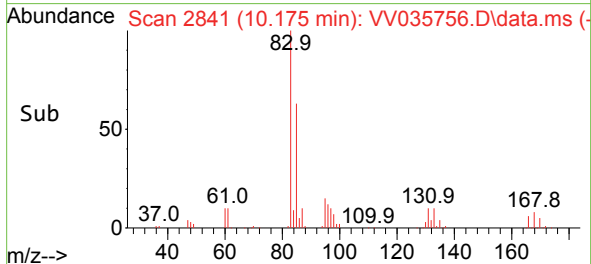
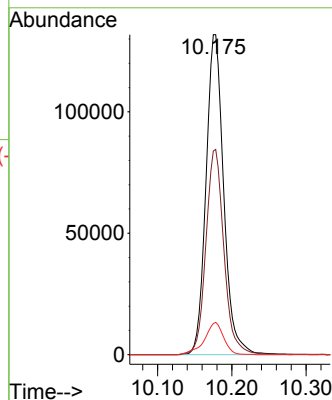
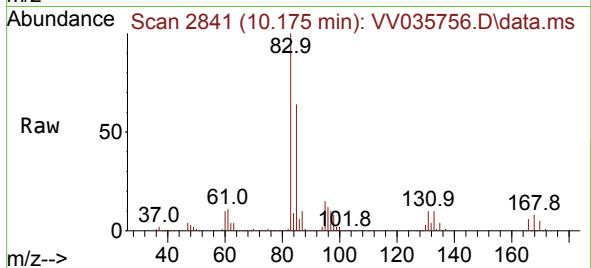
Tgt Ion: 83 Resp: 218014

Ion Ratio Lower Upper

83 100

85 63.7 44.7 83.1

131 9.8 8.0 12.0



#59

Bromoform

Concen: 29.058 ug/L

RT: 9.664 min Scan# 2682

Delta R.T. 0.000 min

Lab File: VV035756.D

Acq: 24 May 2024 18:49

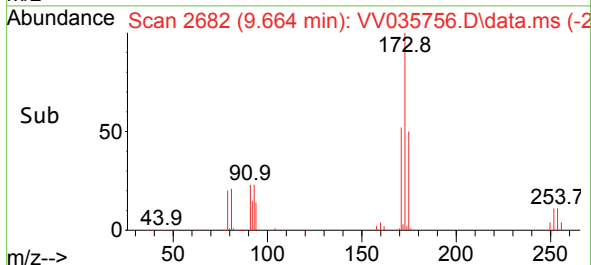
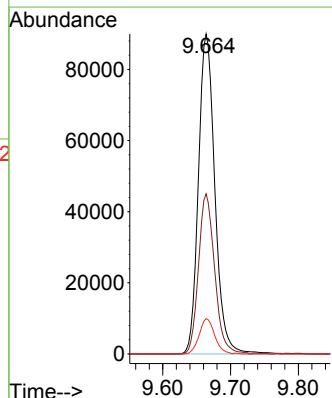
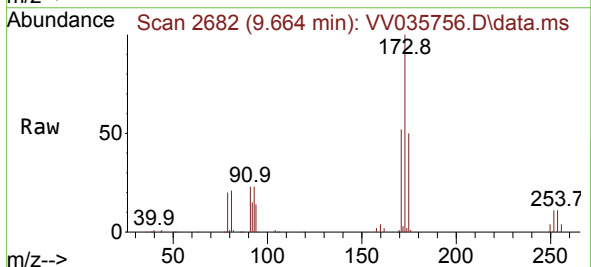
Tgt Ion: 173 Resp: 151636

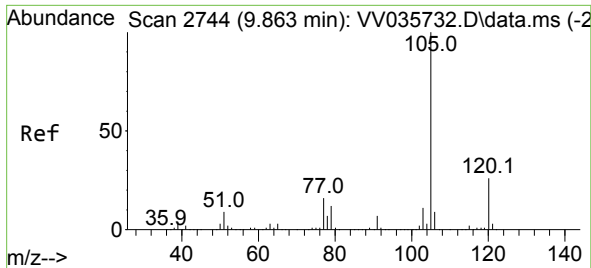
Ion Ratio Lower Upper

173 100

175 49.1 38.7 58.1

254 10.4 8.3 12.5

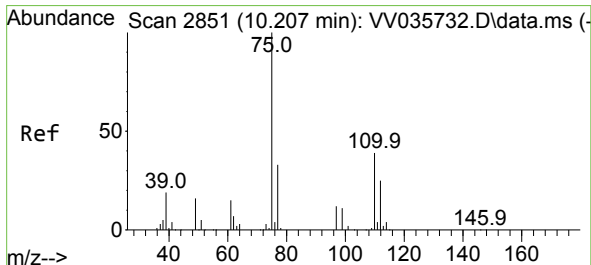
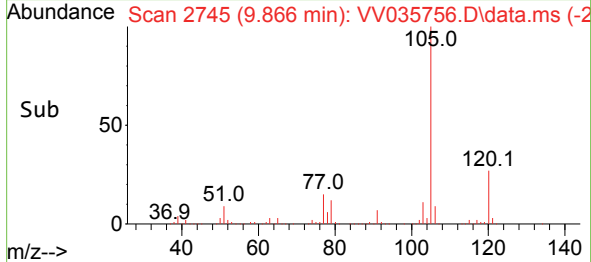
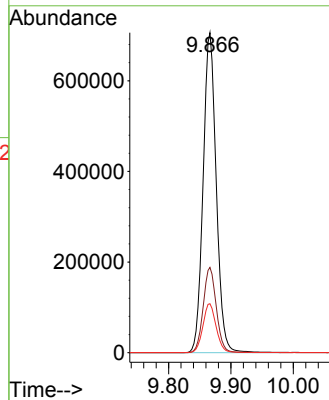
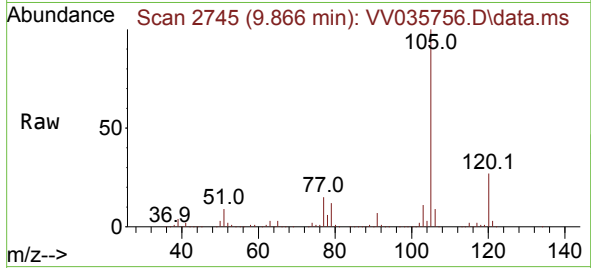




#60  
Isopropylbenzene  
Concen: 29.228 ug/L  
RT: 9.866 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

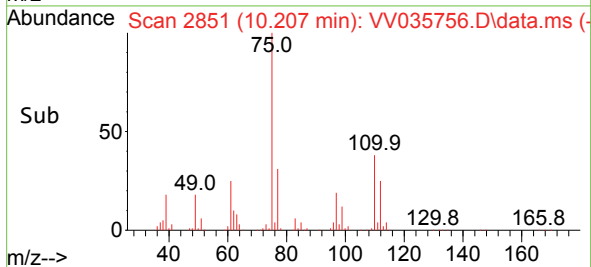
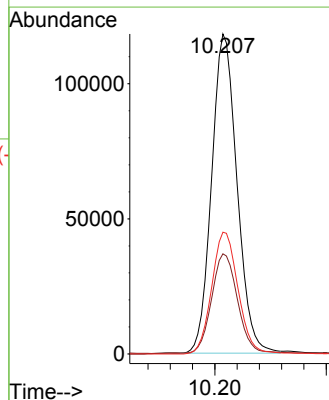
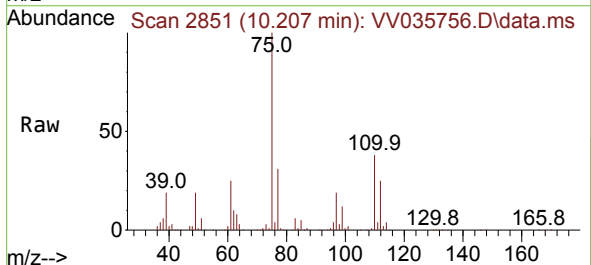
Instrument :  
MSVOA\_V  
ClientSampleId :

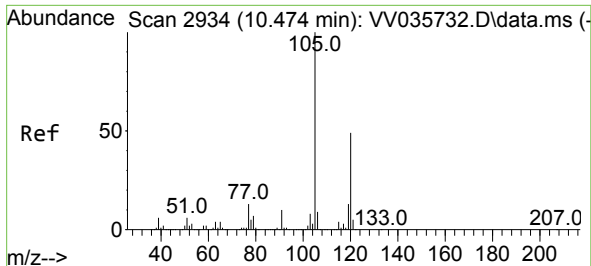
Tgt Ion:105 Resp: 1033832  
Ion Ratio Lower Upper  
105 100  
120 26.6 21.3 31.9  
77 15.4 12.2 18.2



#61  
1,2,3-Trichloropropane  
Concen: 30.052 ug/L  
RT: 10.207 min Scan# 2851  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion: 75 Resp: 186989  
Ion Ratio Lower Upper  
75 100  
77 31.5 25.7 38.5  
110 39.7 31.8 47.8

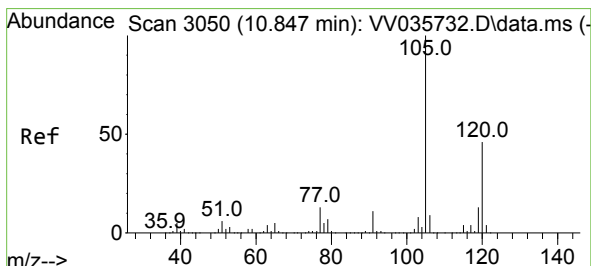
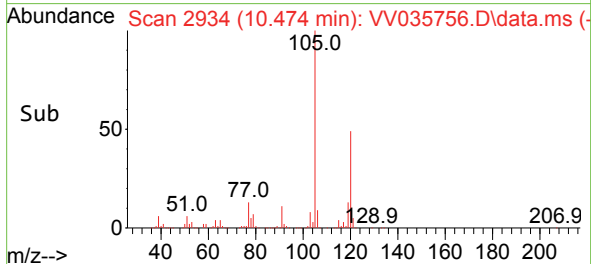
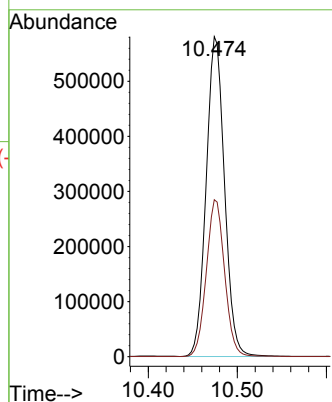
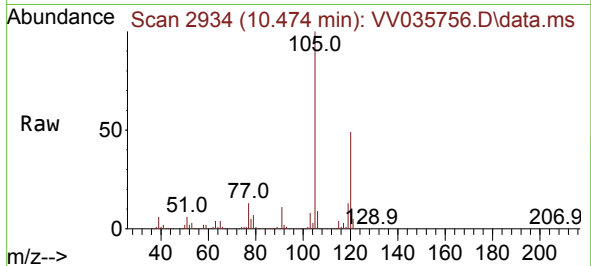




#62  
 1,3,5-Trimethylbenzene  
 Concen: 29.889 ug/L  
 RT: 10.474 min Scan# 2934  
 Delta R.T. 0.000 min  
 Lab File: VV035756.D  
 Acq: 24 May 2024 18:49

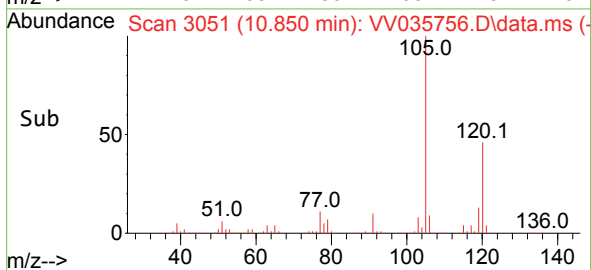
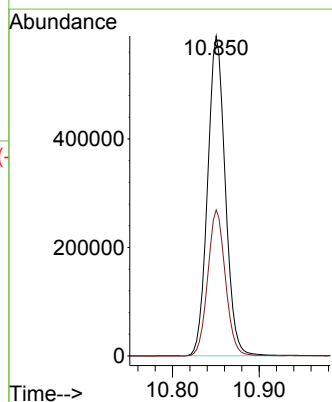
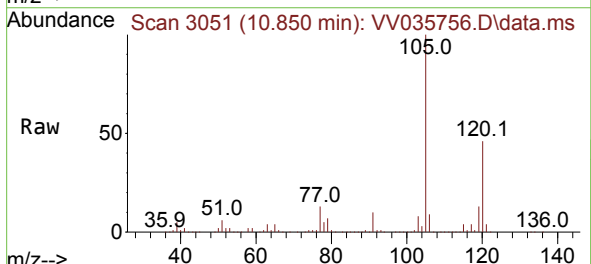
Instrument :  
 MSVOA\_V  
 ClientSampleId :

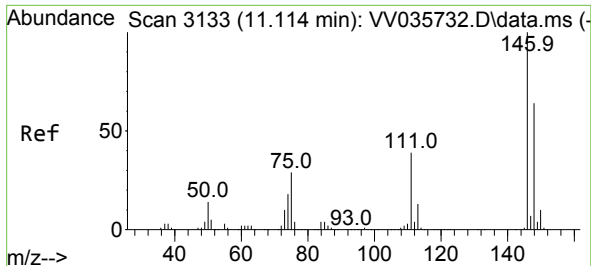
Tgt Ion:105 Resp: 829350  
 Ion Ratio Lower Upper  
 105 100  
 120 48.9 39.4 59.0



#63  
 1,2,4-Trimethylbenzene  
 Concen: 29.314 ug/L  
 RT: 10.850 min Scan# 3051  
 Delta R.T. 0.003 min  
 Lab File: VV035756.D  
 Acq: 24 May 2024 18:49

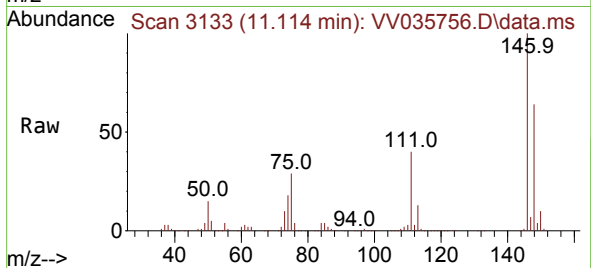
Tgt Ion:105 Resp: 835872  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 36.6 55.0



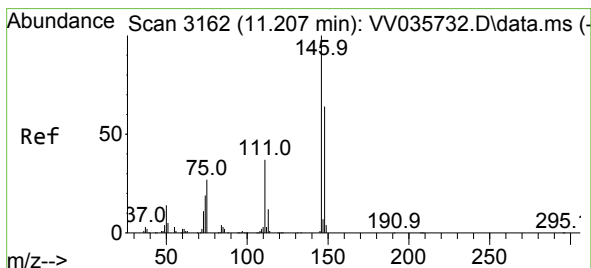
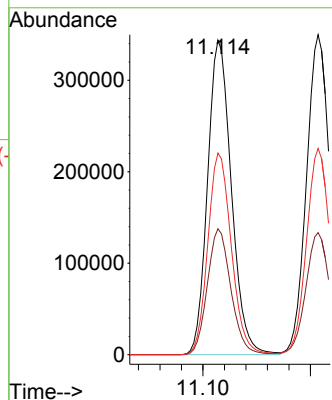
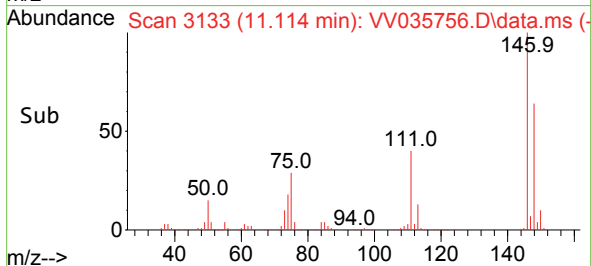


#64  
1,3-Dichlorobenzene  
Concen: 28.501 ug/L  
RT: 11.114 min Scan# 3133  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

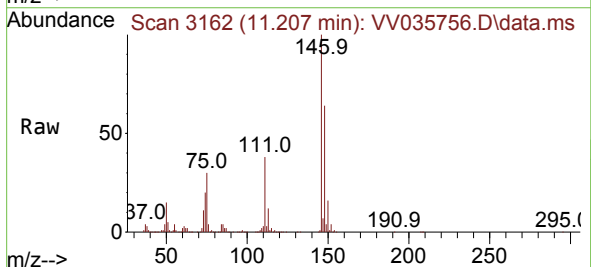
Instrument :  
MSVOA\_V  
ClientSampleId :



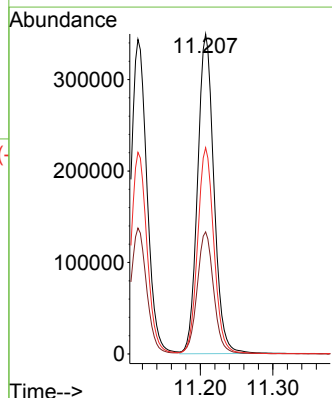
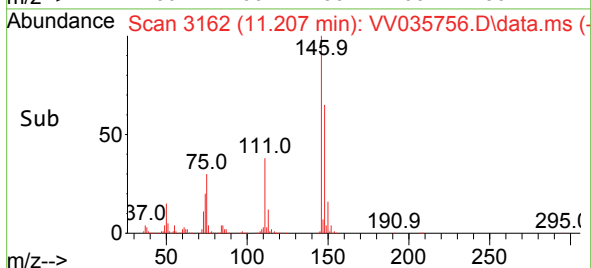
Tgt Ion:146 Resp: 529060  
Ion Ratio Lower Upper  
146 100  
111 40.0 27.0 50.2  
148 64.1 44.3 82.3

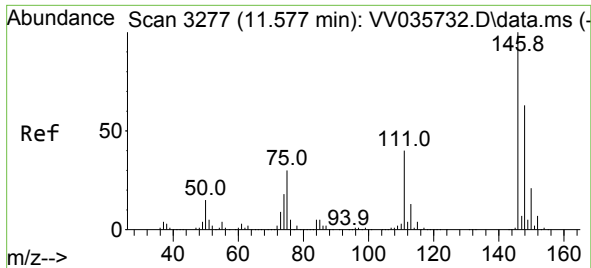


#65  
1,4-Dichlorobenzene  
Concen: 28.417 ug/L  
RT: 11.207 min Scan# 3162  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49



Tgt Ion:146 Resp: 546074  
Ion Ratio Lower Upper  
146 100  
111 38.2 26.2 48.6  
148 64.5 44.9 83.3

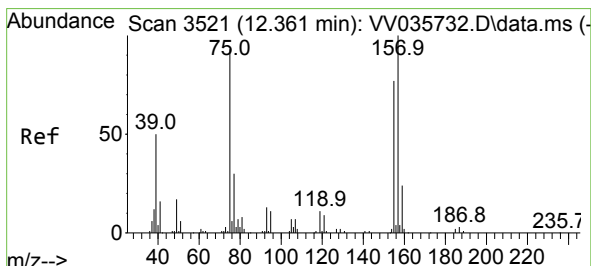
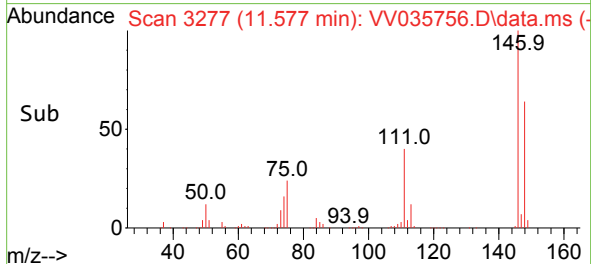
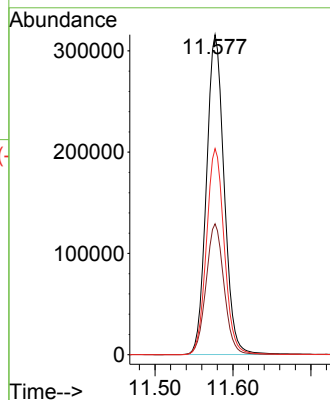
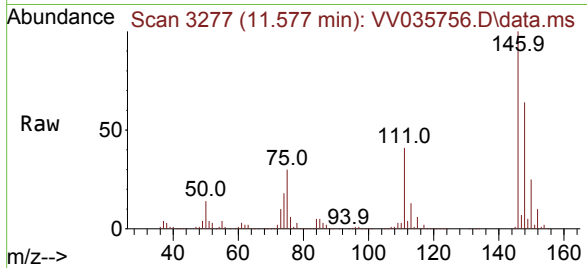




#67  
1,2-Dichlorobenzene  
Concen: 28.569 ug/L  
RT: 11.577 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

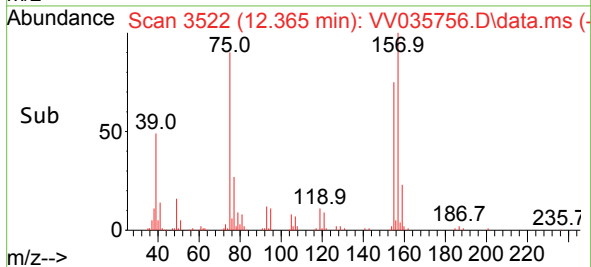
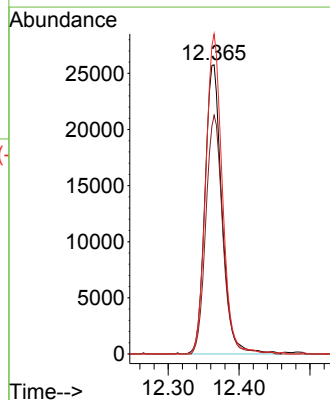
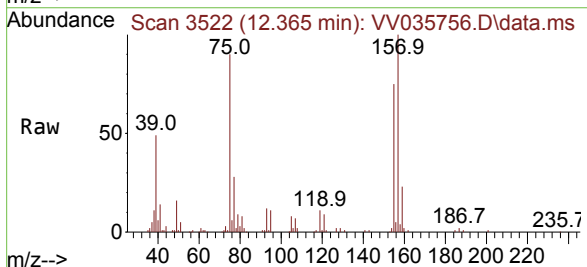
Instrument :  
MSVOA\_V  
ClientSampleId :

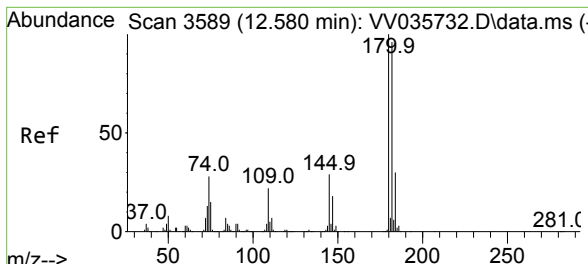
Tgt Ion:146 Resp: 499192  
Ion Ratio Lower Upper  
146 100  
111 40.9 32.6 48.8  
148 64.4 51.1 76.7



#68  
1,2-Dibromo-3-chloropropane  
Concen: 29.701 ug/L  
RT: 12.365 min Scan# 3522  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

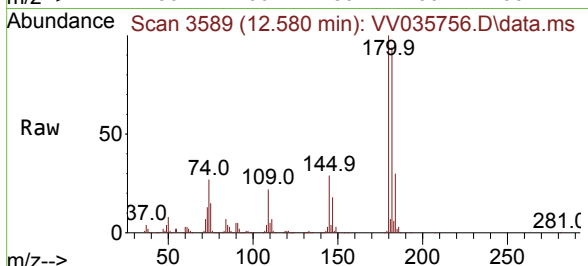
Tgt Ion: 75 Resp: 42861  
Ion Ratio Lower Upper  
75 100  
155 82.6 69.8 104.6  
157 110.7 95.0 142.6



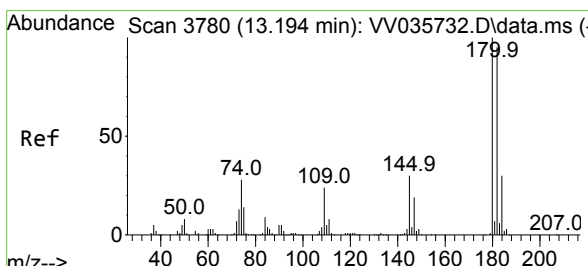
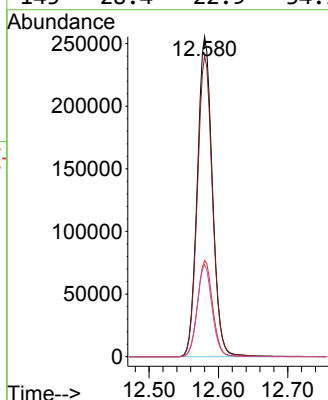
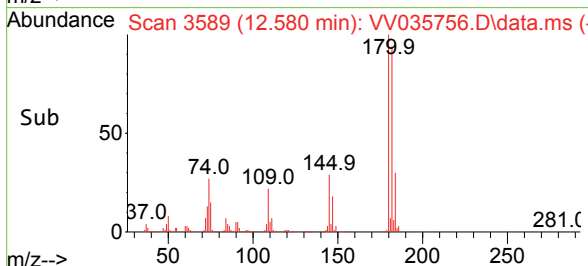


#69  
 1,3,5-Trichlorobenzene  
 Concen: 26.631 ug/L  
 RT: 12.580 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VV035756.D  
 Acq: 24 May 2024 18:49

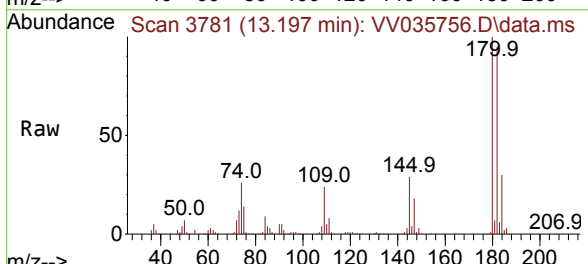
Instrument :  
 MSVOA\_V  
 ClientSampleId :



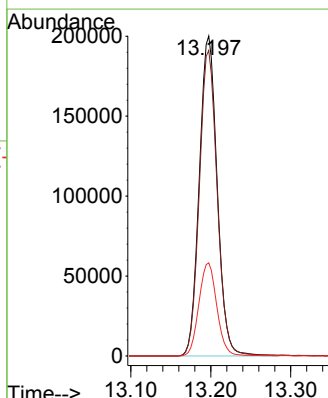
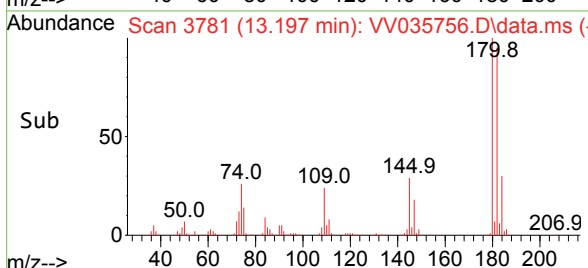
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 386299     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.4  | 76.2 114.2 |
| 184         | 30.0  | 24.1 36.1  |
| 145         | 28.4  | 22.9 34.3  |

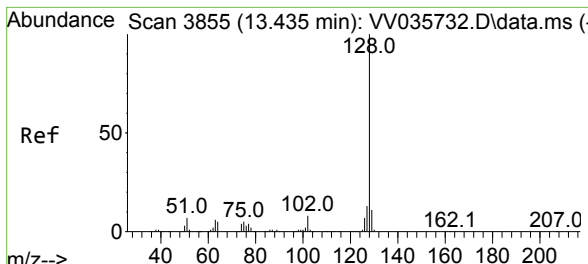


#70  
 1,2,4-trichlorobenzene  
 Concen: 25.805 ug/L  
 RT: 13.197 min Scan# 3781  
 Delta R.T. 0.003 min  
 Lab File: VV035756.D  
 Acq: 24 May 2024 18:49



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 312567     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.9  | 76.6 114.8 |
| 145         | 29.0  | 23.2 34.8  |



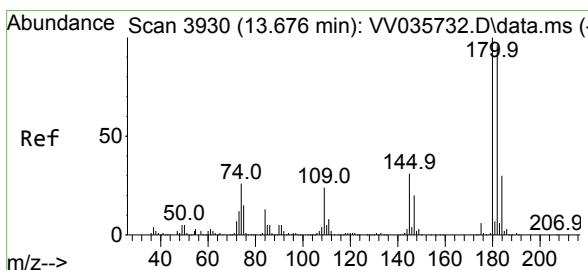
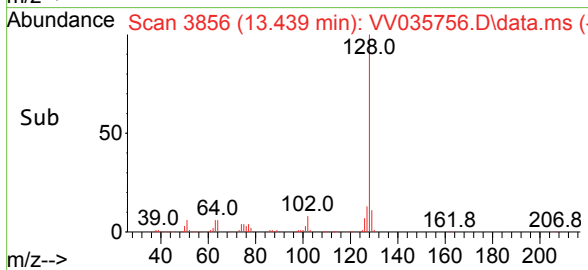
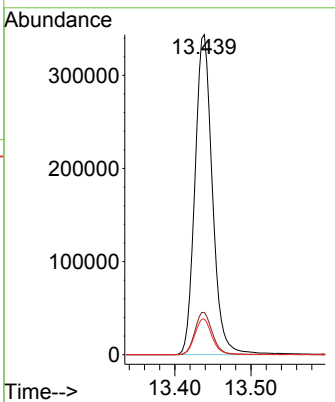
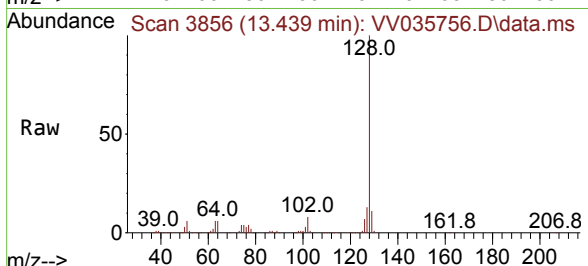


#71  
Naphthalene  
Concen: 25.789 ug/L  
RT: 13.439 min Scan# 3855  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:128 Resp: 548370

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.3  | 10.4  | 15.6  |
| 129 | 11.0  | 8.6   | 13.0  |



#72  
1,2,3-Trichlorobenzene  
Concen: 28.332 ug/L  
RT: 13.680 min Scan# 3931  
Delta R.T. 0.003 min  
Lab File: VV035756.D  
Acq: 24 May 2024 18:49

Tgt Ion:180 Resp: 308720

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.7  | 75.8  | 113.6 |
| 145 | 31.3  | 25.2  | 37.8  |

