

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV062424\  
 Data File : VV036251.D  
 Acq On : 24 Jun 2024 17:10  
 Operator : SY/MD  
 Sample : P2987-17MS  
 Misc : 4.78g/10.0mL/MSVOA\_V/SOIL/B  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 25 04:59:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 25 04:55:15 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 551767   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783  | 117   | 568094   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185 | 152   | 311205   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 177444   | 17.492   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 69.960%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 151031   | 18.672   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 74.680%  |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 84868    | 18.793   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 75.160%  |
| 21) 2-Butanone-d5             | 3.834  | 46    | 80396    | 34.542   | ug/L   | -0.01    |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 69.080%  |
| 24) Chloroform-d              | 4.243  | 84    | 337860   | 19.260   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 77.040%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 180578   | 19.634   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 78.520%  |
| 32) Benzene-d6                | 4.953  | 84    | 654569   | 19.384   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 77.520%  |
| 36) 1,2-Dichloropropane-d6    | 5.985  | 67    | 201726   | 18.970   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 75.880%  |
| 41) Toluene-d8                | 7.239  | 98    | 611982   | 20.539   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 82.160%  |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 84752    | 19.437   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 77.760%  |
| 47) 2-Hexanone-d5             | 8.030  | 63    | 57913    | 40.196   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 80.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 159899   | 20.122   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 80.480%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 222986   | 19.539   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 78.160%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 113981   | 11.457   | ug/L   | 99       |
| 3) Chloromethane              | 1.211  | 50    | 128475   | 11.252   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.278  | 62    | 146536   | 12.191   | ug/L   | 99       |
| 6) Bromomethane               | 1.484  | 94    | 102359   | 13.727   | ug/L   | 99       |
| 8) Chloroethane               | 1.545  | 64    | 96341    | 12.895   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.709  | 101   | 209806   | 14.055   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063  | 101   | 136743   | 14.434   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 124587   | 14.100   | ug/L   | 88       |
| 13) Acetone                   | 2.146  | 43    | 75597    | 20.851   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.233  | 76    | 367198   | 11.967   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.388  | 43    | 55639    | 12.347   | ug/L   | 96       |
| 16) Methylene chloride        | 2.442  | 84    | 157496   | 12.614   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 2.690  | 96    | 121631   | 12.959   | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 2.703  | 73    | 296731   | 14.082   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.108  | 63    | 238041   | 13.318   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.812  | 96    | 124884   | 13.242   | ug/L   | 100      |
| 22) 2-Butanone                | 3.915  | 43    | 50742    | 16.494   | ug/L   | # 55     |
| 23) Bromochloromethane        | 4.143  | 128   | 68106    | 14.396   | ug/L   | 96       |
| 25) Chloroform                | 4.272  | 83    | 258208   | 14.043   | ug/L   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV062424\  
 Data File : VV036251.D  
 Acq On : 24 Jun 2024 17:10  
 Operator : SY/MD  
 Sample : P2987-17MS  
 Misc : 4.78g/10.0mL/MSVOA\_V/SOIL/B  
 ALS Vial : 19 Sample Multiplier: 1

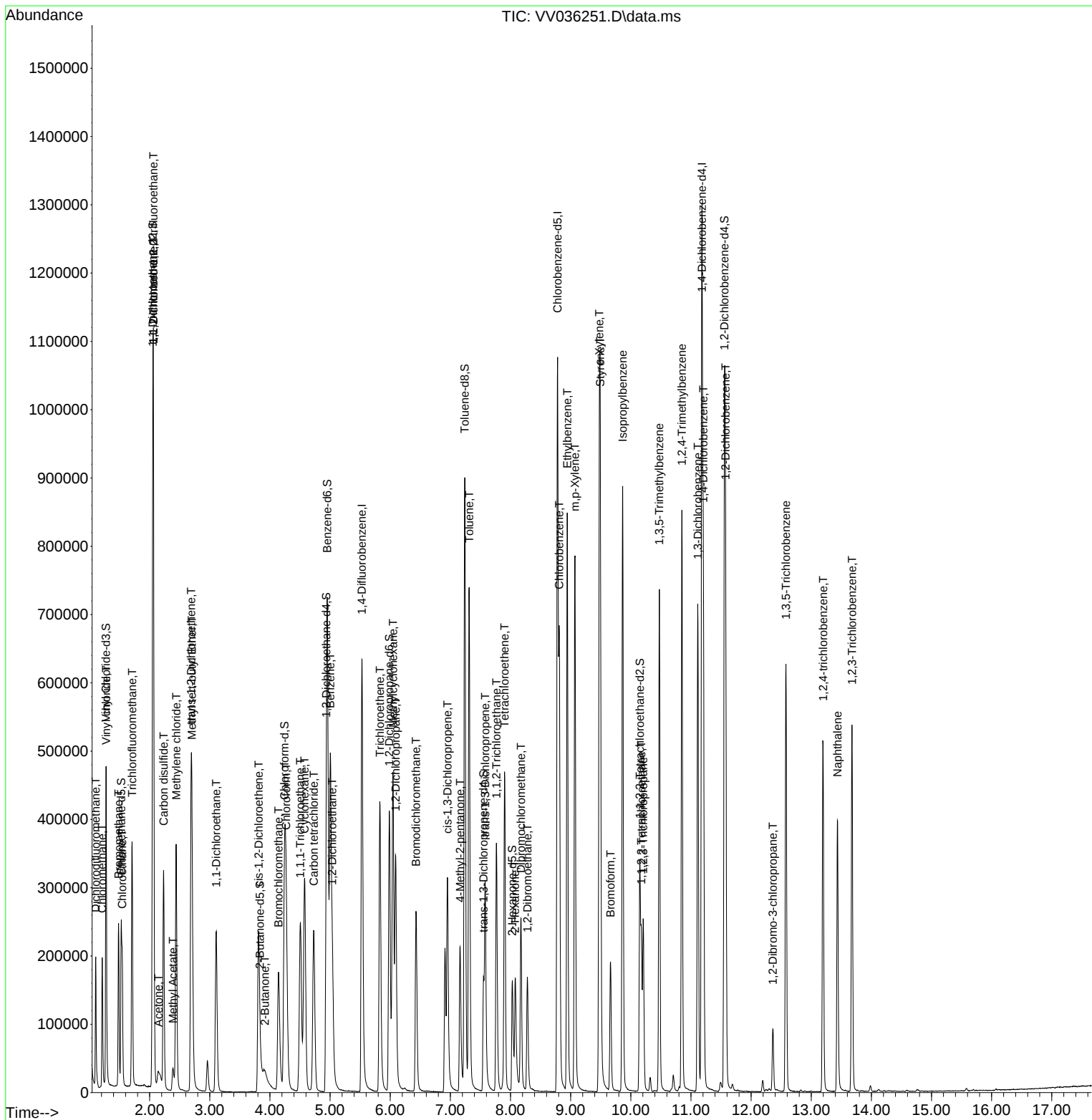
Instrument :  
 MSVOA\_V  
 ClientSampleId :

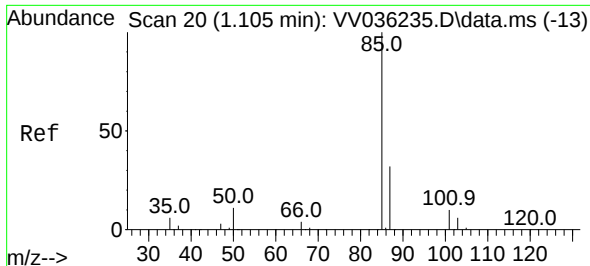
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 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 25 04:55:15 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 168440   | 14.674 | ug/L  | 100      |
| 29) Cyclohexane               | 4.577  | 56   | 153879   | 11.377 | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 4.506  | 97   | 207427   | 13.356 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.728  | 117  | 181466   | 13.319 | ug/L  | 99       |
| 33) Benzene                   | 5.005  | 78   | 515455   | 13.873 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 148357   | 13.028 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.047  | 83   | 189552   | 12.037 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 136784   | 14.020 | ug/L  | 98       |
| 38) Bromodichloromethane      | 6.429  | 83   | 185631   | 14.375 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 203165   | 13.923 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 148017   | 27.925 | ug/L  | 99       |
| 42) Toluene                   | 7.313  | 91   | 552610   | 14.555 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 185433   | 14.712 | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 115597   | 14.320 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.902  | 164  | 105648   | 12.685 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.079  | 43   | 106656   | 25.738 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.175  | 129  | 128327   | 14.525 | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 110523   | 14.269 | ug/L  | 97       |
| 51) Chlorobenzene             | 8.812  | 112  | 363328   | 14.045 | ug/L  | 98       |
| 52) Ethylbenzene              | 8.944  | 91   | 567542   | 13.972 | ug/L  | 98       |
| 53) m,p-Xylene                | 9.072  | 106  | 217277   | 14.236 | ug/L  | 99       |
| 54) o-Xylene                  | 9.477  | 106  | 199814   | 13.882 | ug/L  | 99       |
| 55) Styrene                   | 9.493  | 104  | 390596   | 15.389 | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 109763   | 15.185 | ug/L  | 99       |
| 59) Bromoform                 | 9.664  | 173  | 83036    | 14.148 | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.866  | 105  | 531882   | 13.322 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 102990   | 13.993 | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 369412   | 12.760 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 431022   | 13.818 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 283185   | 13.506 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 303010   | 14.001 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 280435   | 14.213 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 24097    | 14.641 | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 192959   | 12.303 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 156037   | 12.635 | ug/L  | 99       |
| 71) Naphthalene               | 13.439 | 128  | 314970   | 15.629 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 154789   | 13.736 | ug/L  | 98       |

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

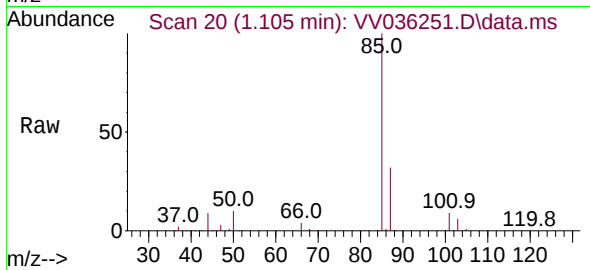
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Quant Title : VOC Analysis  
QLast Update : Tue Jun 25 04:55:15 2024  
Response via : Initial Calibration



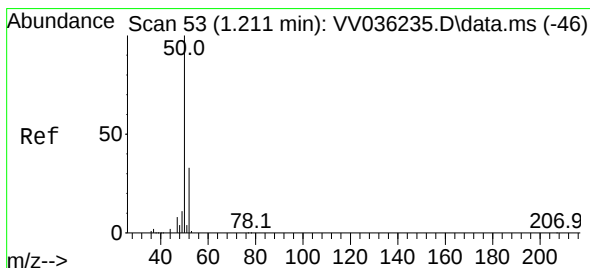
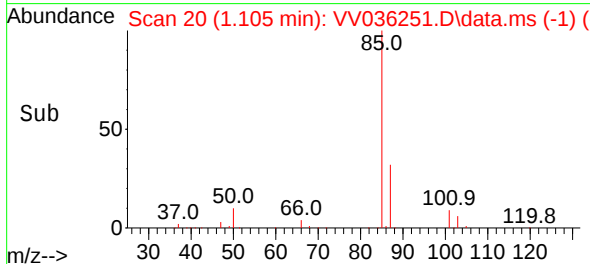
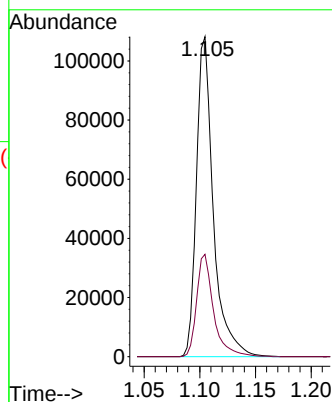


#2  
 Dichlorodifluoromethane  
 Concen: 11.457 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VV036251.D  
 Acq: 24 Jun 2024 17:10

Instrument :  
 MSVOA\_V  
 ClientSampleId :

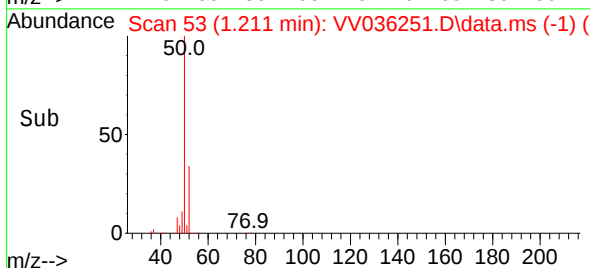
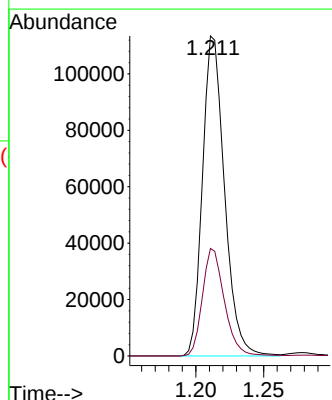
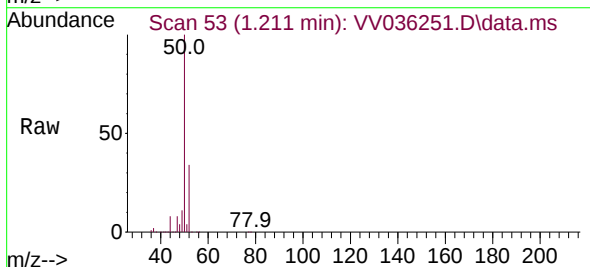


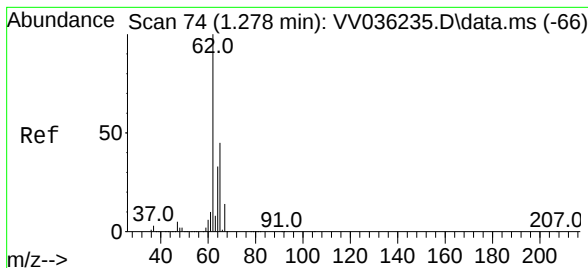
Tgt Ion: 85 Resp: 113981  
 Ion Ratio Lower Upper  
 85 100  
 87 32.1 25.9 38.9



#3  
 Chloromethane  
 Concen: 11.252 ug/L  
 RT: 1.211 min Scan# 53  
 Delta R.T. 0.000 min  
 Lab File: VV036251.D  
 Acq: 24 Jun 2024 17:10

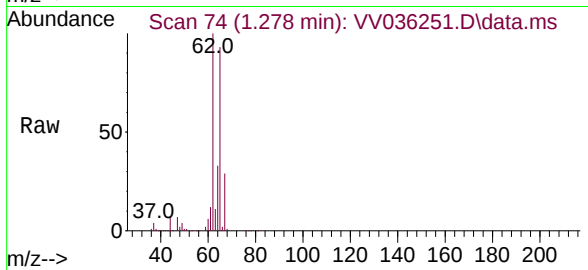
Tgt Ion: 50 Resp: 128475  
 Ion Ratio Lower Upper  
 50 100  
 52 33.6 22.8 42.4



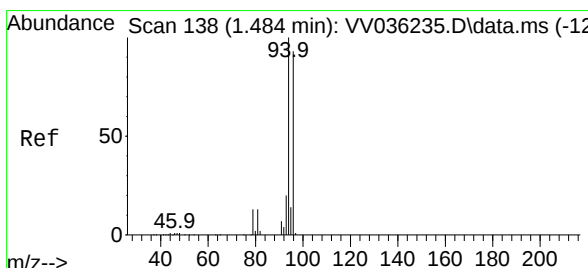
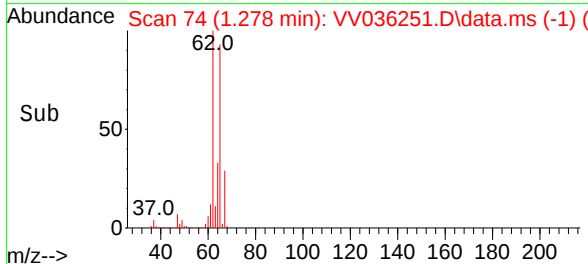
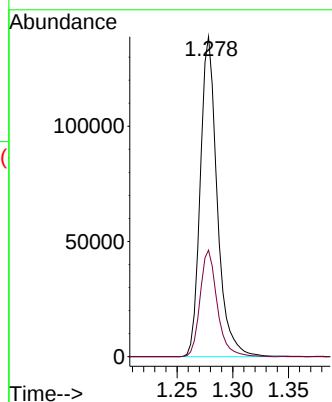


#5  
 Vinyl chloride  
 Concen: 12.191 ug/L  
 RT: 1.278 min Scan# 74  
 Delta R.T. -0.000 min  
 Lab File: VV036251.D  
 Acq: 24 Jun 2024 17:10

Instrument :  
 MSVOA\_V  
 ClientSampleId :

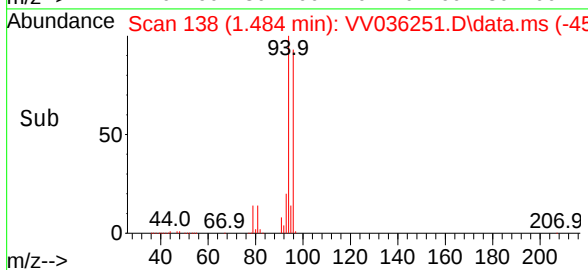
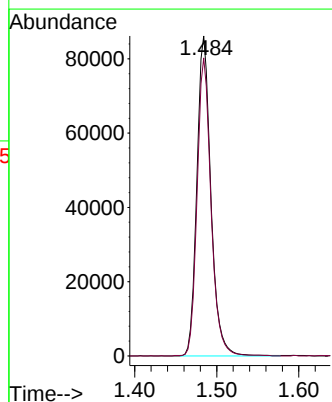
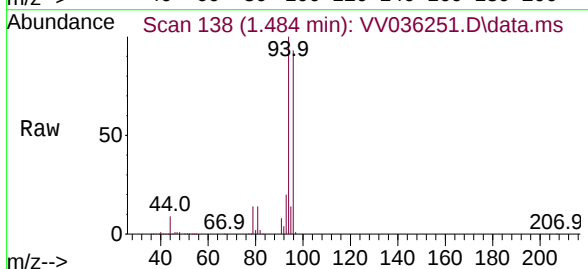


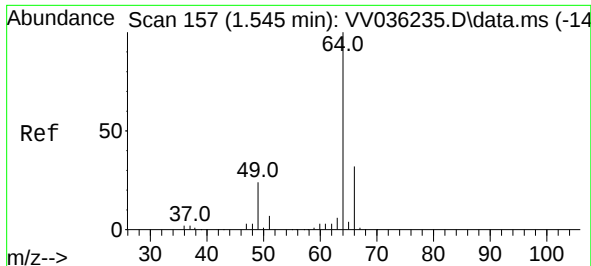
Tgt Ion: 62 Resp: 146536  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 22.9 42.5



#6  
 Bromomethane  
 Concen: 13.727 ug/L  
 RT: 1.484 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: VV036251.D  
 Acq: 24 Jun 2024 17:10

Tgt Ion: 94 Resp: 102359  
 Ion Ratio Lower Upper  
 94 100  
 96 93.2 65.7 122.1

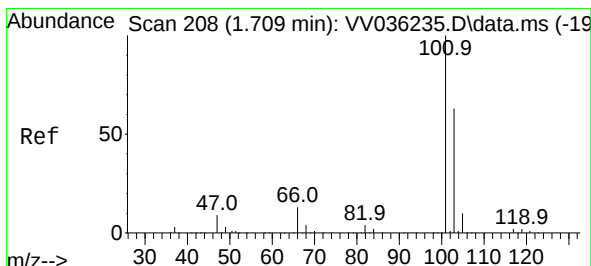
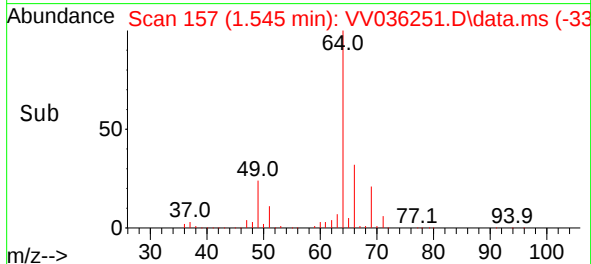
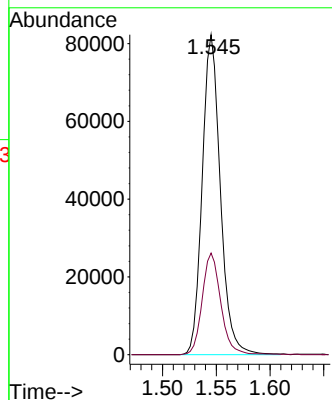
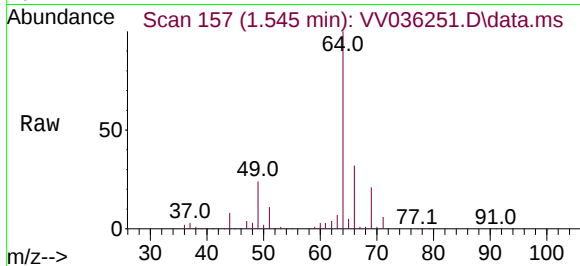




#8  
Chloroethane  
Concen: 12.895 ug/L  
RT: 1.545 min Scan# 157  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

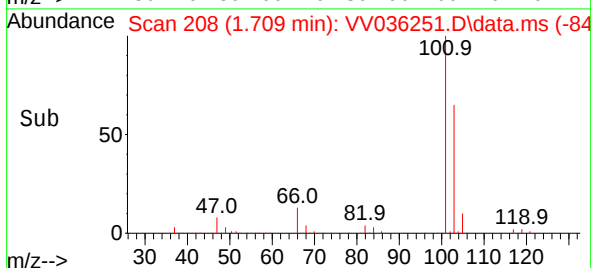
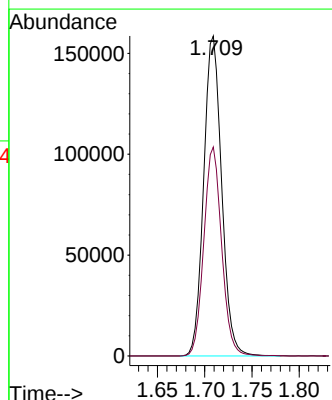
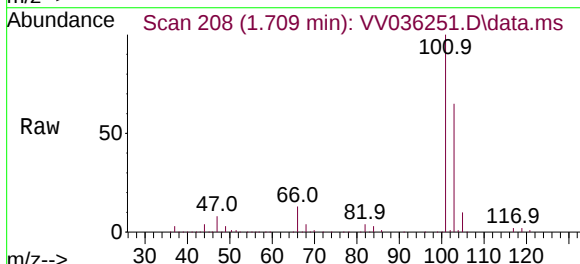
Instrument :  
MSVOA\_V  
ClientSampleId :

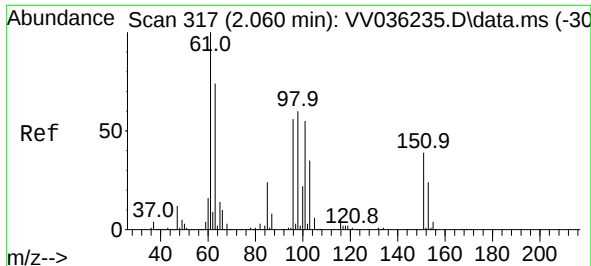
Tgt Ion: 64 Resp: 96341  
Ion Ratio Lower Upper  
64 100  
66 31.8 22.0 41.0



#9  
Trichlorofluoromethane  
Concen: 14.055 ug/L  
RT: 1.709 min Scan# 208  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Tgt Ion:101 Resp: 209806  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.8 77.8





#10

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

Concen: 14.434 ug/L

RT: 2.063 min Scan# 317

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

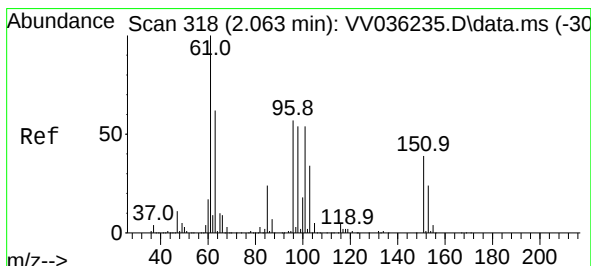
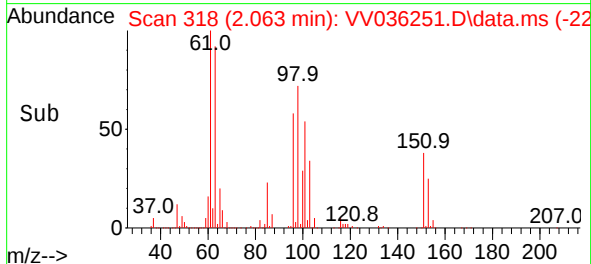
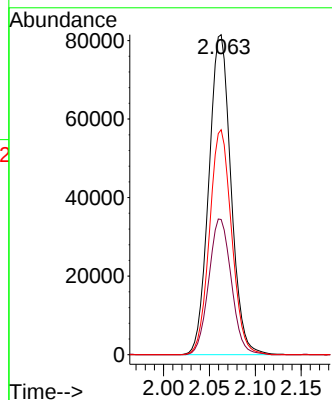
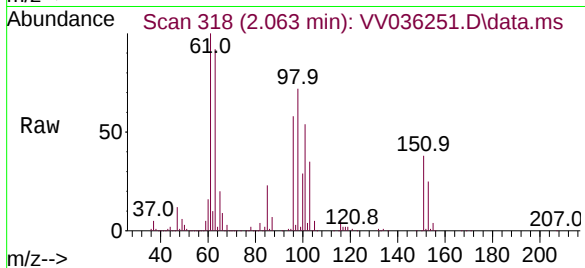
Tgt Ion:101 Resp: 136743

Ion Ratio Lower Upper

101 100

85 43.2 34.5 51.7

151 70.4 56.3 84.5



#12

1,1-Dichloroethene

Concen: 14.100 ug/L

RT: 2.063 min Scan# 318

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

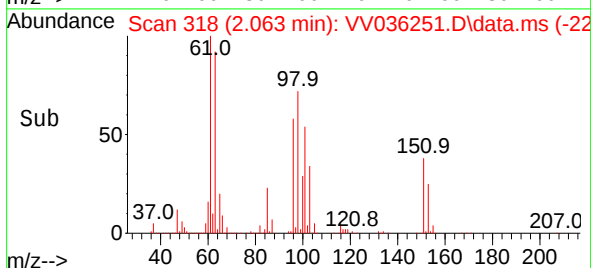
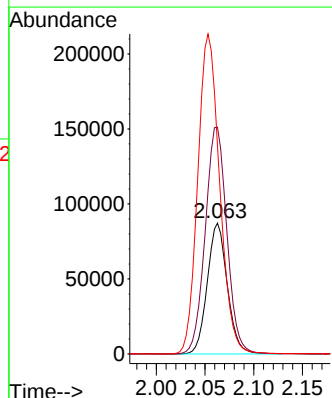
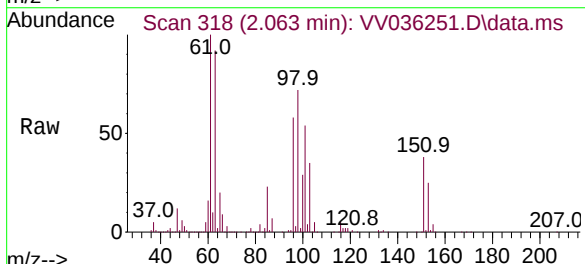
Tgt Ion: 96 Resp: 124587

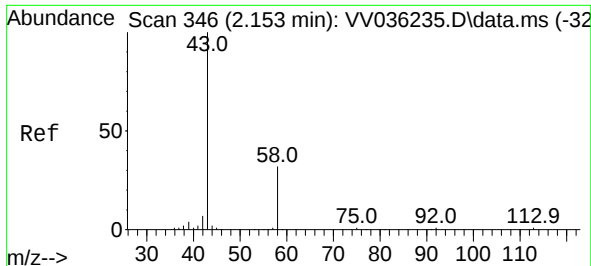
Ion Ratio Lower Upper

96 100

61 173.2 127.3 236.3

63 159.0 93.7 173.9





#13

Acetone

Concen: 20.851 ug/L

RT: 2.146 min Scan# 346

Delta R.T. -0.006 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

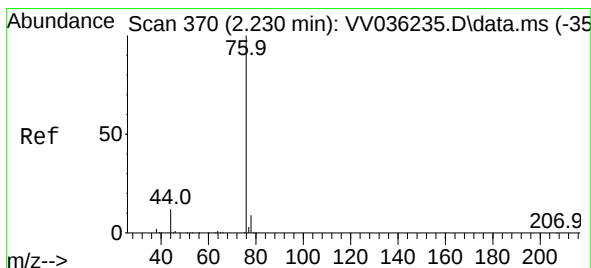
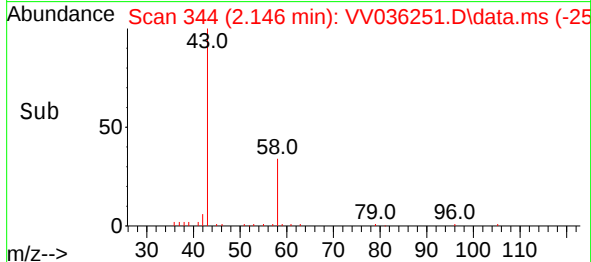
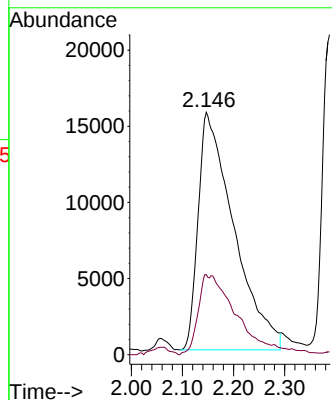
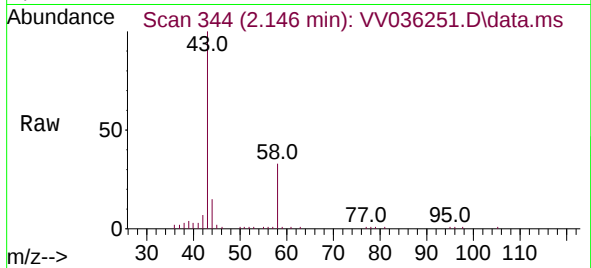
ClientSampleId :

Tgt Ion: 43 Resp: 75597

Ion Ratio Lower Upper

43 100

58 11.0 0.0 24.2



#14

Carbon disulfide

Concen: 11.967 ug/L

RT: 2.233 min Scan# 371

Delta R.T. 0.003 min

Lab File: VV036251.D

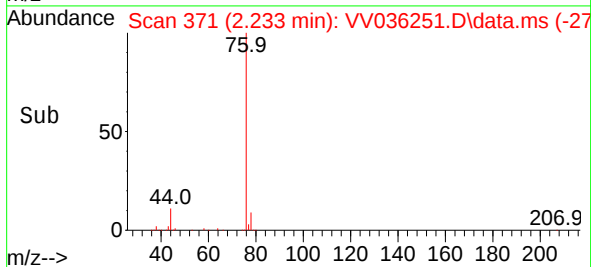
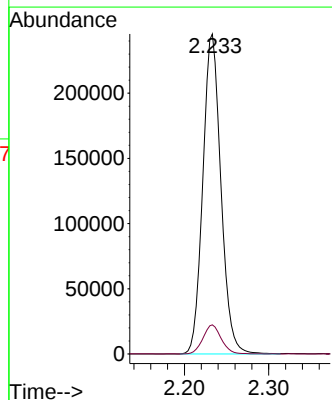
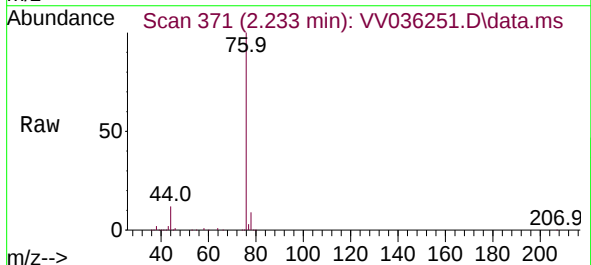
Acq: 24 Jun 2024 17:10

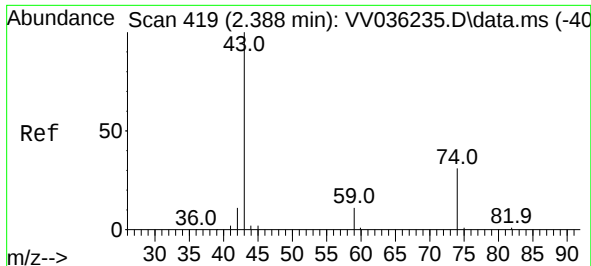
Tgt Ion: 76 Resp: 367198

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2





#15

Methyl Acetate

Concen: 12.347 ug/L

RT: 2.388 min Scan# 419

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

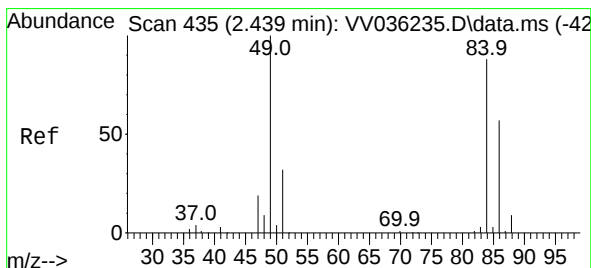
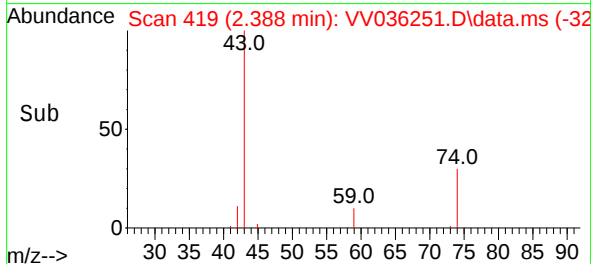
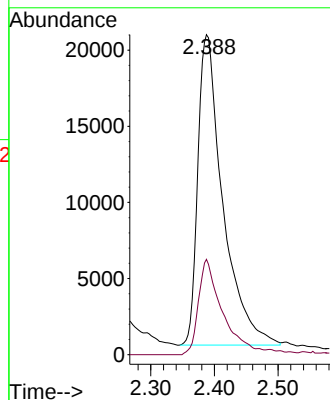
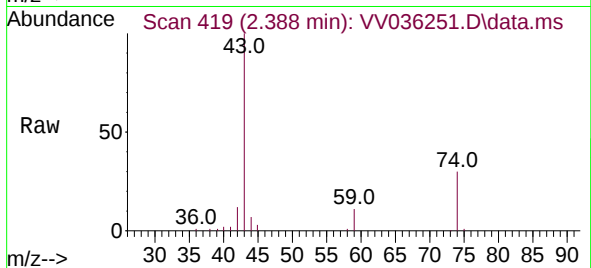
ClientSampleId :

Tgt Ion: 43 Resp: 55639

Ion Ratio Lower Upper

43 100

74 28.8 21.4 32.2



#16

Methylene chloride

Concen: 12.614 ug/L

RT: 2.442 min Scan# 436

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

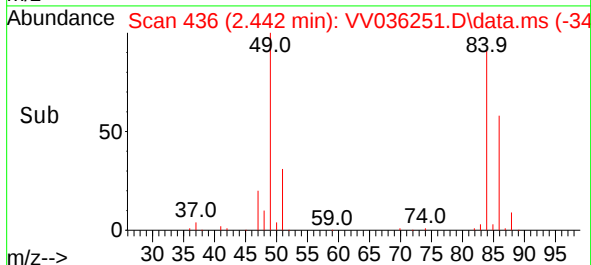
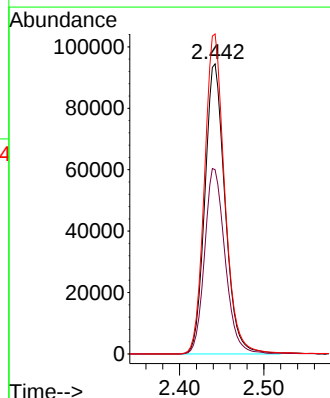
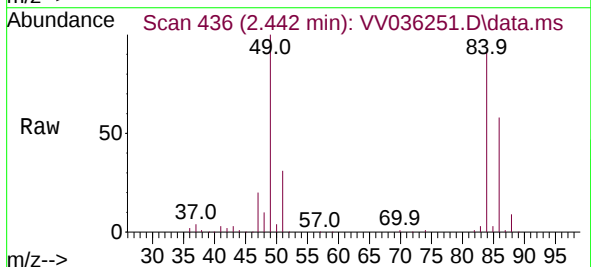
Tgt Ion: 84 Resp: 157496

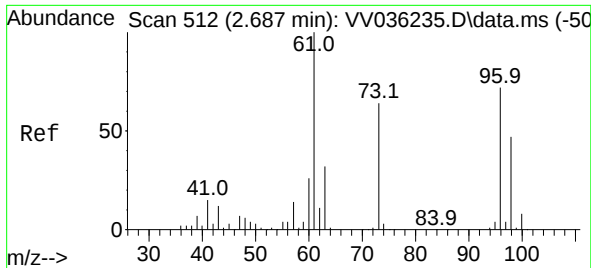
Ion Ratio Lower Upper

84 100

86 63.5 44.6 82.8

49 110.3 81.1 150.5





#17

trans-1,2-Dichloroethene

Concen: 12.959 ug/L

RT: 2.690 min Scan# 512

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

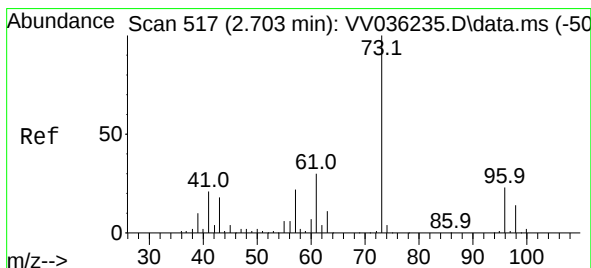
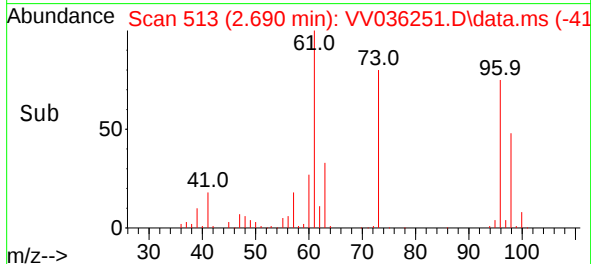
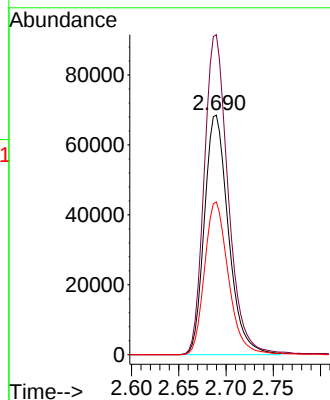
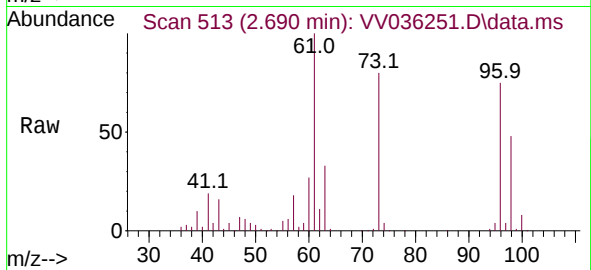
Tgt Ion: 96 Resp: 121631

Ion Ratio Lower Upper

96 100

61 133.6 99.4 184.6

98 63.8 44.9 83.3



#18

Methyl tert-butyl Ether

Concen: 14.082 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

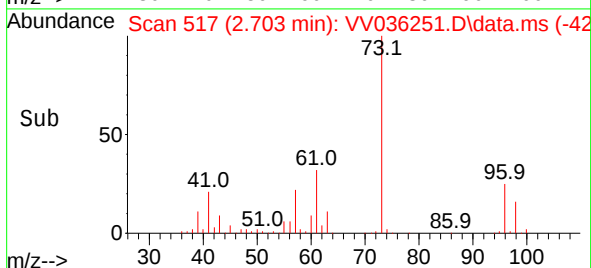
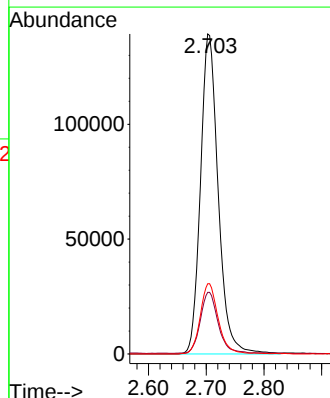
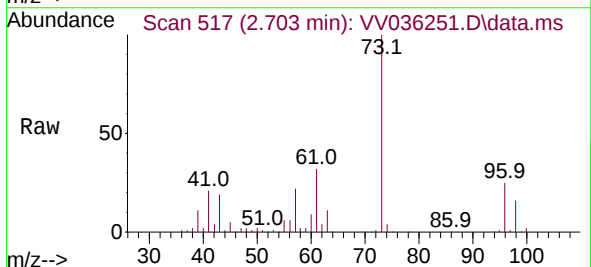
Tgt Ion: 73 Resp: 296731

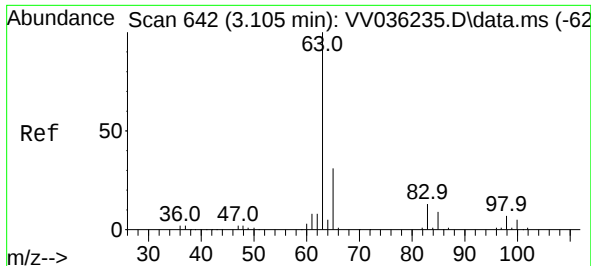
Ion Ratio Lower Upper

73 100

43 19.1 14.3 21.5

57 22.1 17.8 26.6





#19

1,1-Dichloroethane

Concen: 13.318 ug/L

RT: 3.108 min Scan# 642

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

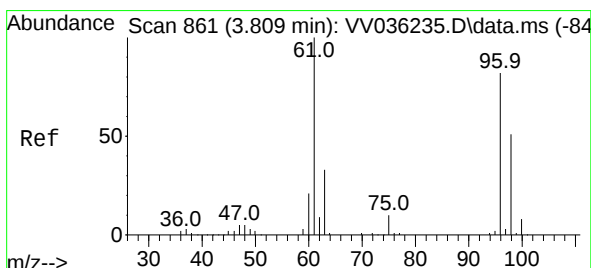
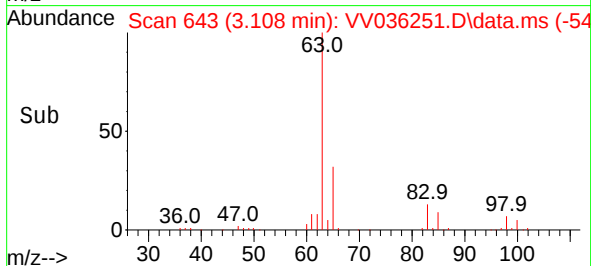
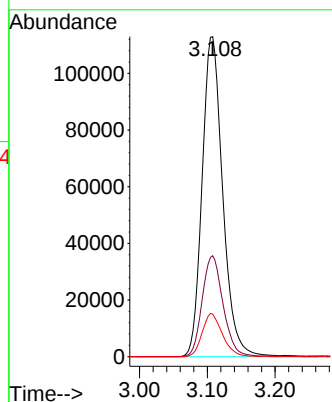
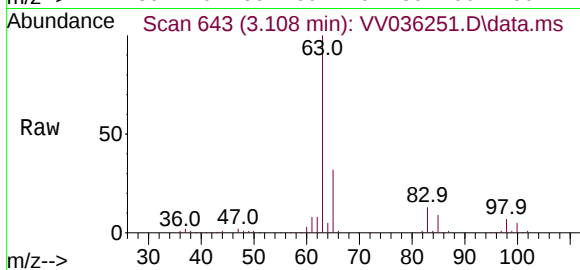
Tgt Ion: 63 Resp: 238041

Ion Ratio Lower Upper

63 100

65 31.6 22.4 41.6

83 13.3 9.2 17.0



#20

cis-1,2-Dichloroethene

Concen: 13.242 ug/L

RT: 3.812 min Scan# 862

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

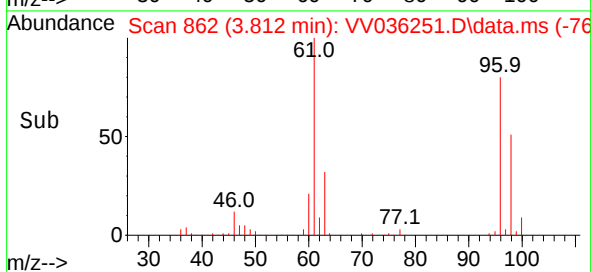
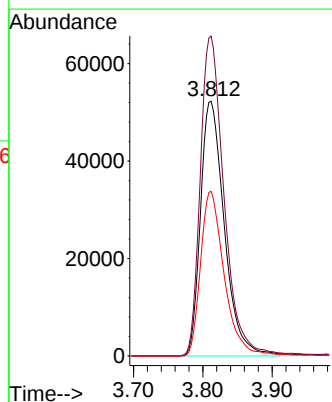
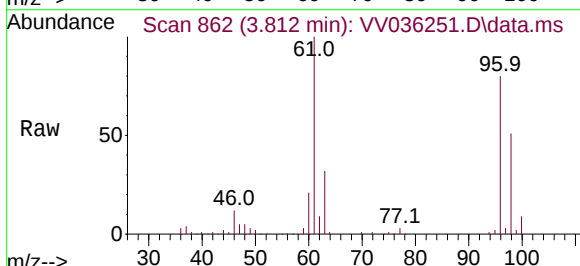
Tgt Ion: 96 Resp: 124884

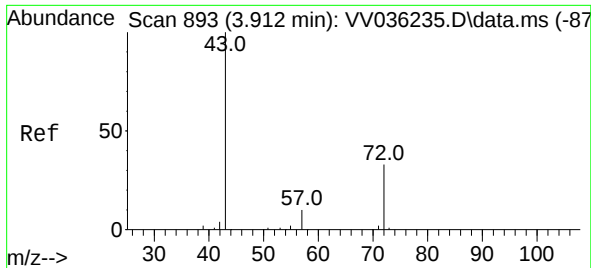
Ion Ratio Lower Upper

96 100

61 125.6 87.9 163.3

98 64.6 44.4 82.5





#22

2-Butanone

Concen: 16.494 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

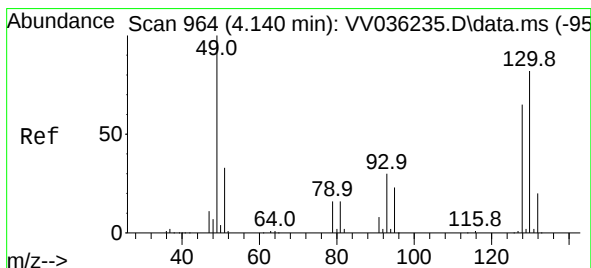
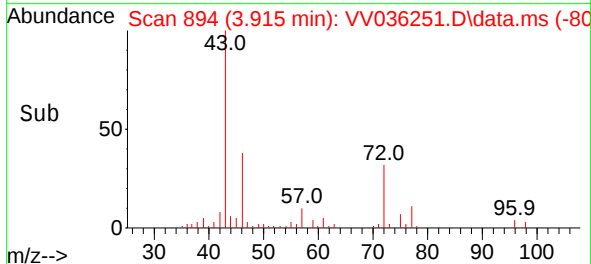
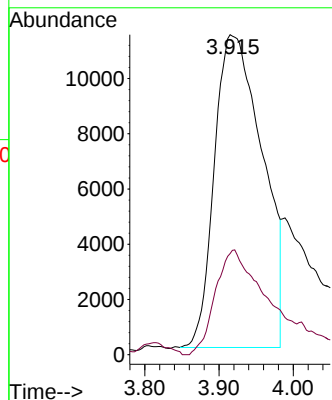
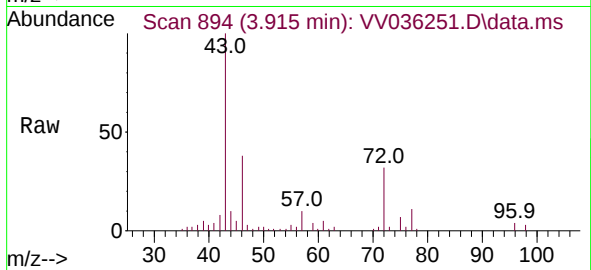
ClientSampleId :

Tgt Ion: 43 Resp: 50742

Ion Ratio Lower Upper

43 100

72 35.3 8.2 24.4#



#23

Bromochloromethane

Concen: 14.396 ug/L

RT: 4.143 min Scan# 965

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Tgt Ion: 128 Resp: 68106

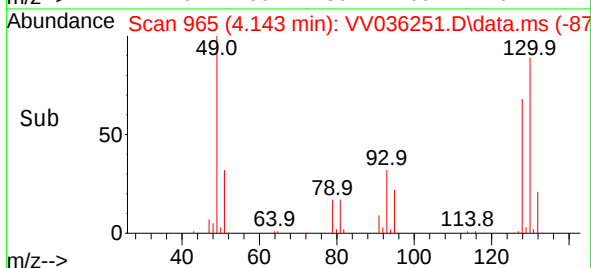
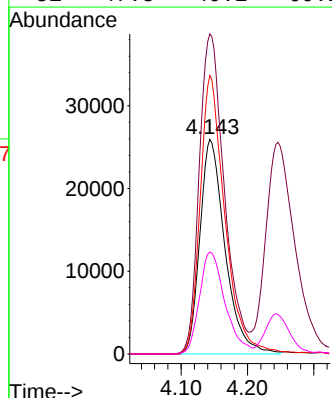
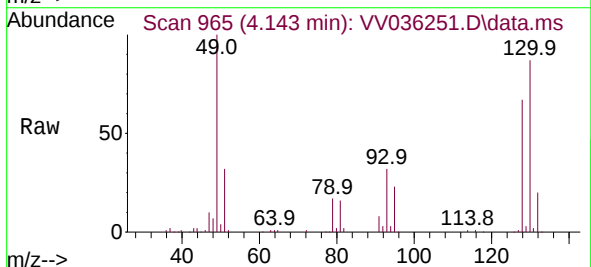
Ion Ratio Lower Upper

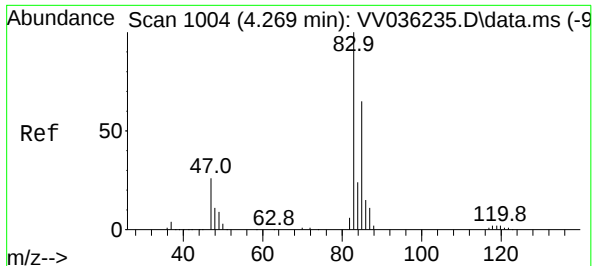
128 100

49 149.1 110.2 204.6

130 129.7 90.2 167.4

51 47.5 40.2 60.2





#25

Chloroform

Concen: 14.043 ug/L

RT: 4.272 min Scan# 1004

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

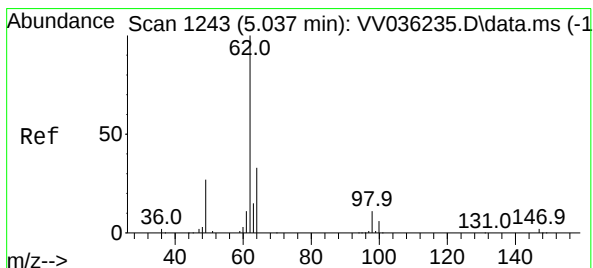
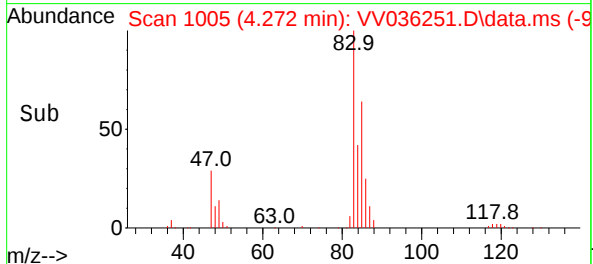
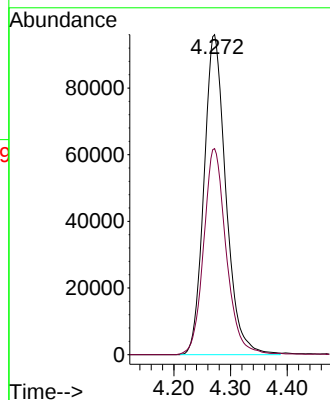
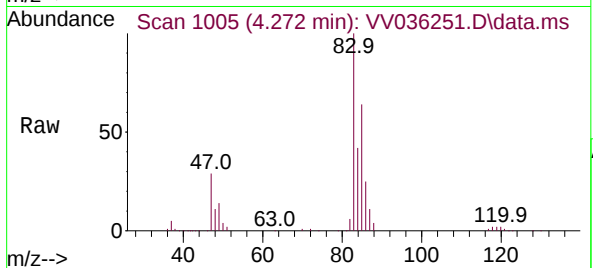
ClientSampleId :

Tgt Ion: 83 Resp: 258208

Ion Ratio Lower Upper

83 100

85 64.4 45.2 84.0



#27

1,2-Dichloroethane

Concen: 14.674 ug/L

RT: 5.037 min Scan# 1243

Delta R.T. -0.000 min

Lab File: VV036251.D

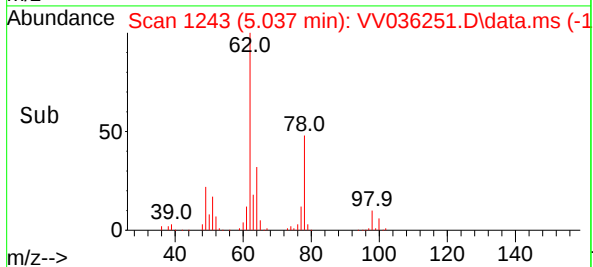
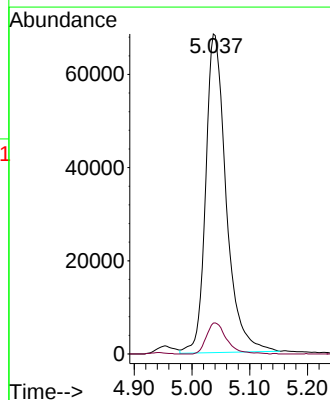
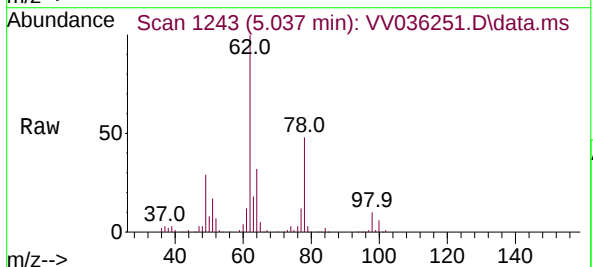
Acq: 24 Jun 2024 17:10

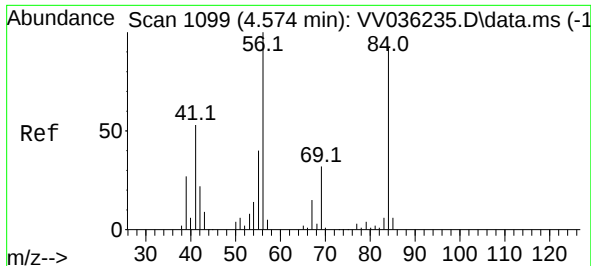
Tgt Ion: 62 Resp: 168440

Ion Ratio Lower Upper

62 100

98 9.7 7.8 11.6





#29

Cyclohexane

Concen: 11.377 ug/L

RT: 4.577 min Scan# 1100

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

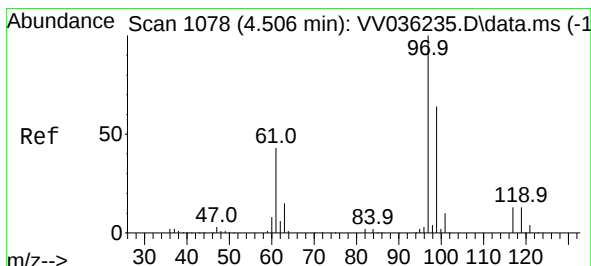
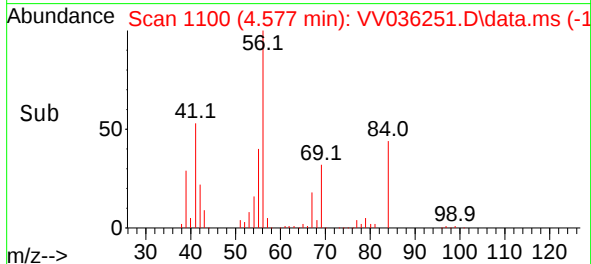
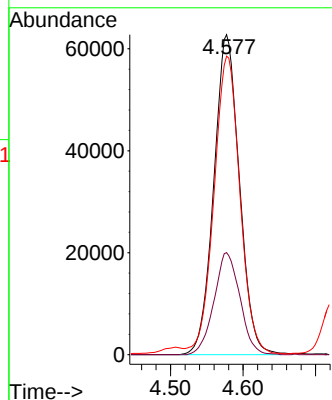
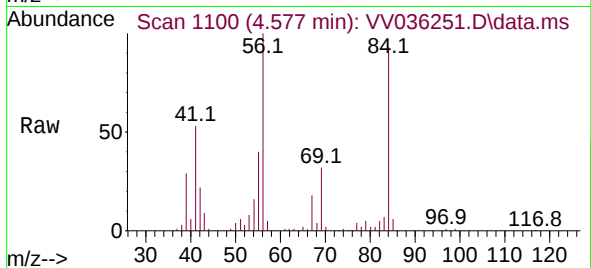
Tgt Ion: 56 Resp: 153879

Ion Ratio Lower Upper

56 100

69 32.3 25.2 37.8

84 93.8 72.2 108.2



#30

1,1,1-Trichloroethane

Concen: 13.356 ug/L

RT: 4.506 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

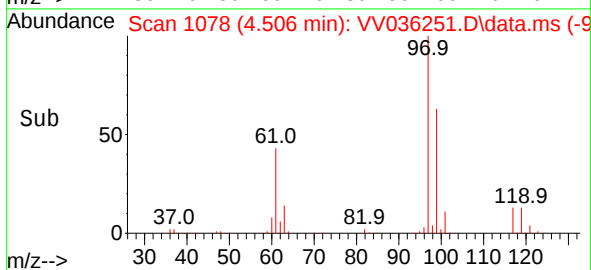
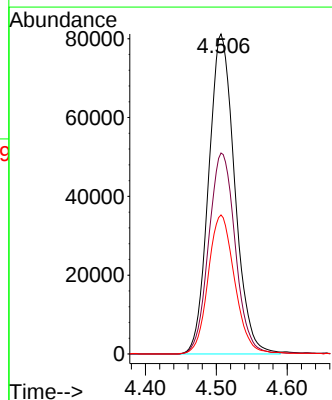
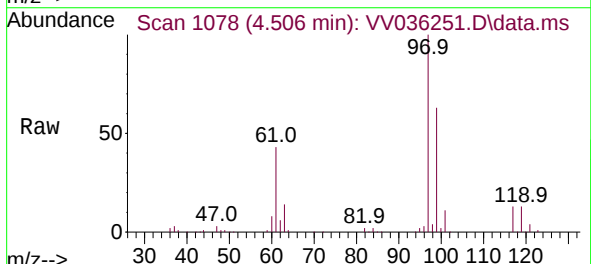
Tgt Ion: 97 Resp: 207427

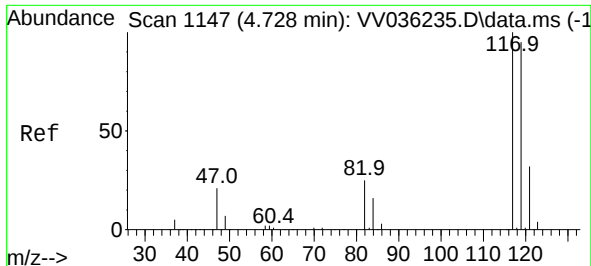
Ion Ratio Lower Upper

97 100

99 64.2 50.9 76.3

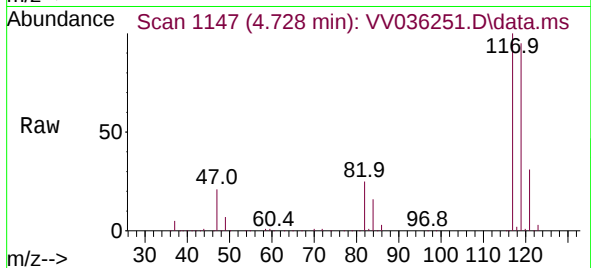
61 44.1 35.0 52.6



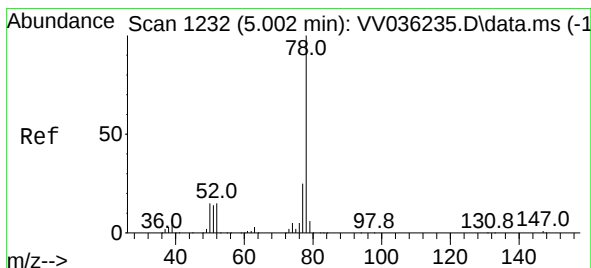
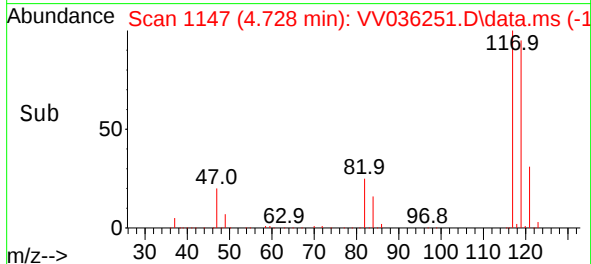
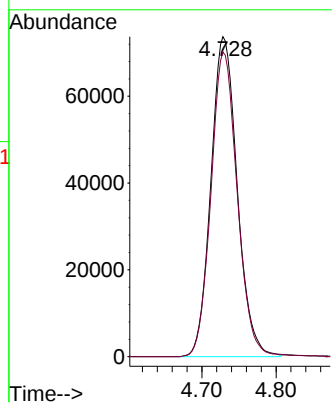


#31  
Carbon tetrachloride  
Concen: 13.319 ug/L  
RT: 4.728 min Scan# 1147  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Instrument :  
MSVOA\_V  
ClientSampleId :

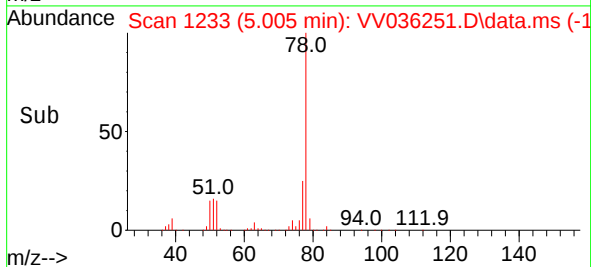
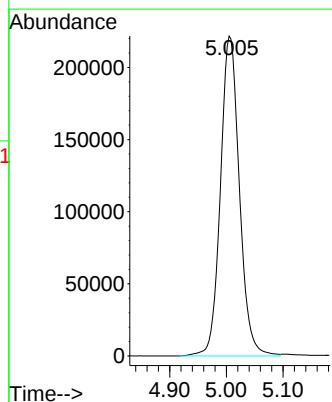
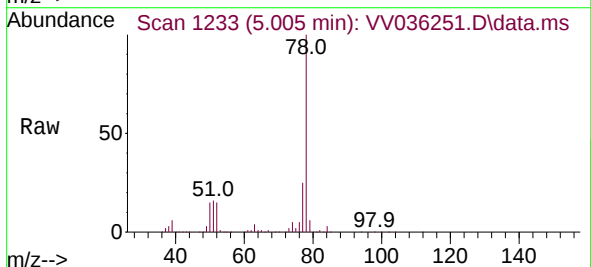


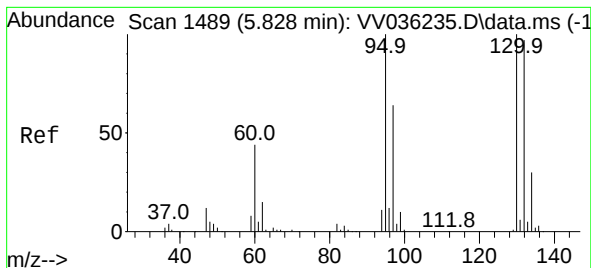
Tgt Ion:117 Resp: 181466  
Ion Ratio Lower Upper  
117 100  
119 94.6 76.8 115.2



#33  
Benzene  
Concen: 13.873 ug/L  
RT: 5.005 min Scan# 1233  
Delta R.T. 0.003 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Tgt Ion: 78 Resp: 515455





#34

Trichloroethene

Concen: 13.028 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 148357

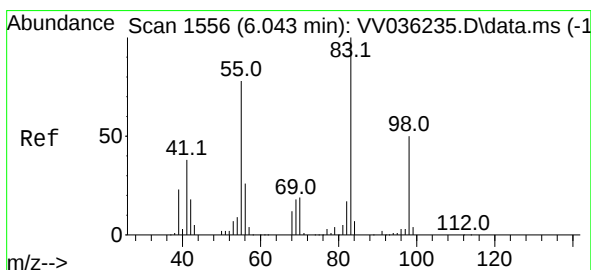
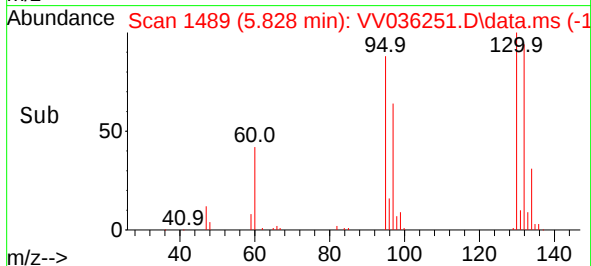
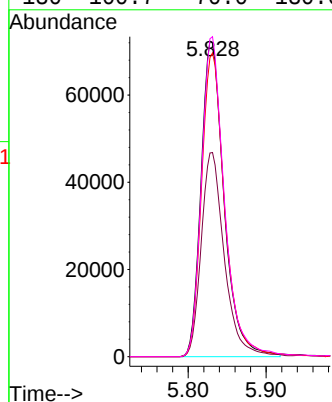
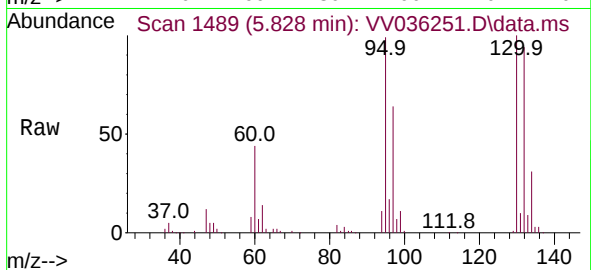
Ion Ratio Lower Upper

95 100

97 64.5 44.8 83.2

132 94.7 66.8 124.2

130 100.7 70.0 130.0



#35

Methylcyclohexane

Concen: 12.037 ug/L

RT: 6.047 min Scan# 1557

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

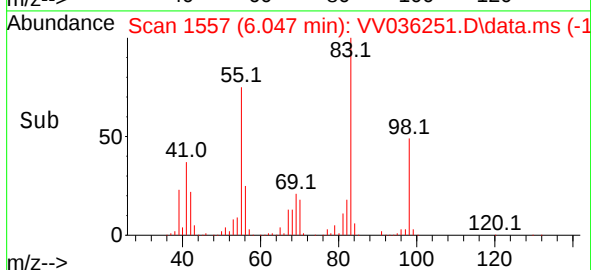
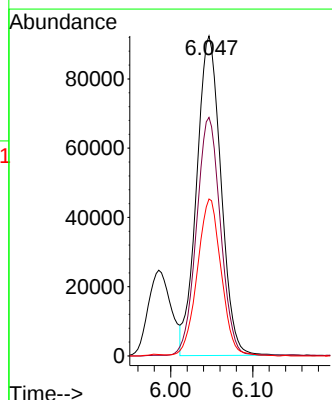
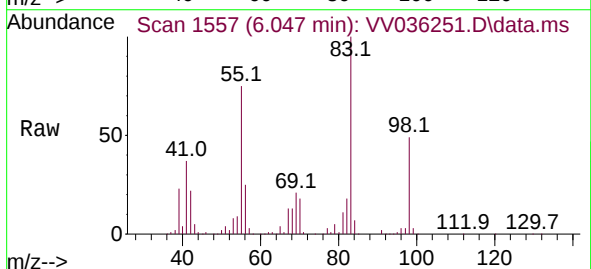
Tgt Ion: 83 Resp: 189552

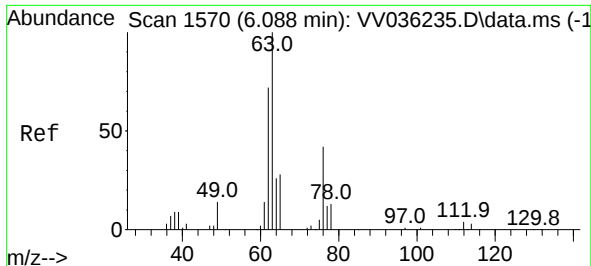
Ion Ratio Lower Upper

83 100

55 73.7 60.7 91.1

98 48.6 38.7 58.1

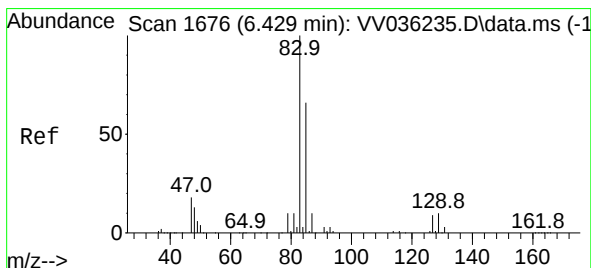
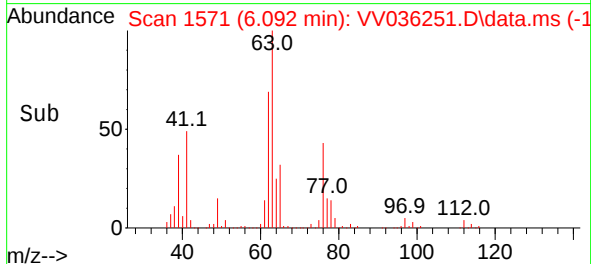
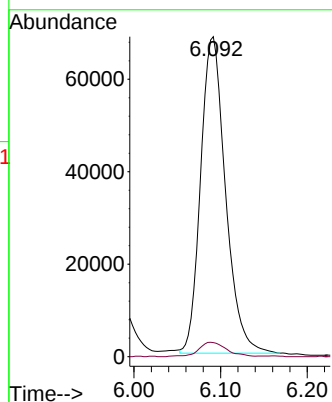
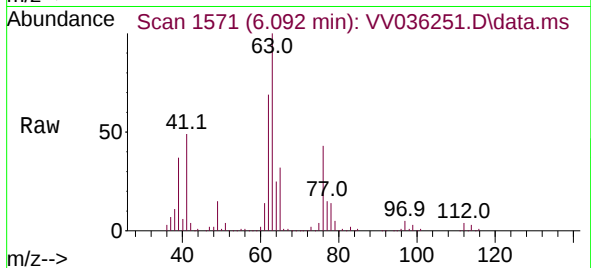




#37  
1,2-Dichloropropane  
Concen: 14.020 ug/L  
RT: 6.092 min Scan# 1571  
Delta R.T. 0.003 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

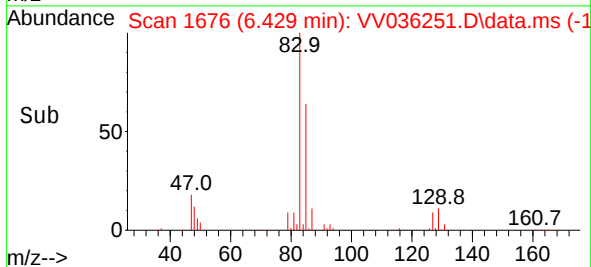
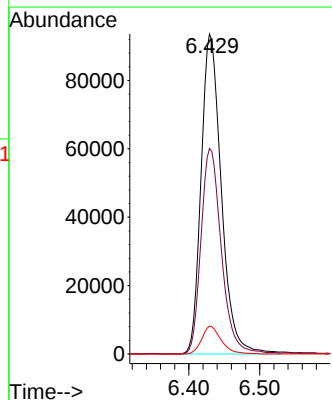
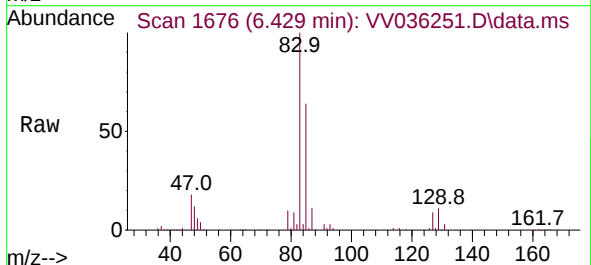
Instrument :  
MSVOA\_V  
ClientSampleId :

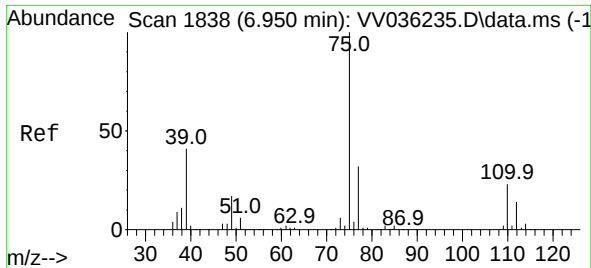
Tgt Ion: 63 Resp: 136784  
Ion Ratio Lower Upper  
63 100  
112 5.0 3.5 5.3



#38  
Bromodichloromethane  
Concen: 14.375 ug/L  
RT: 6.429 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Tgt Ion: 83 Resp: 185631  
Ion Ratio Lower Upper  
83 100  
85 64.2 45.3 84.1  
127 8.7 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 13.923 ug/L

RT: 6.953 min Scan# 1838

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

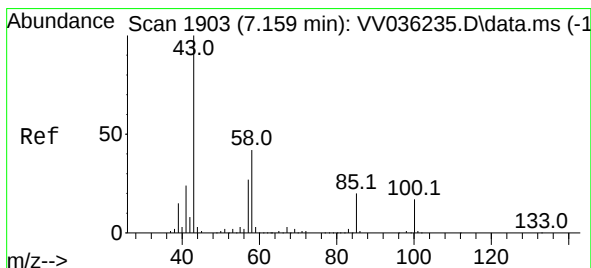
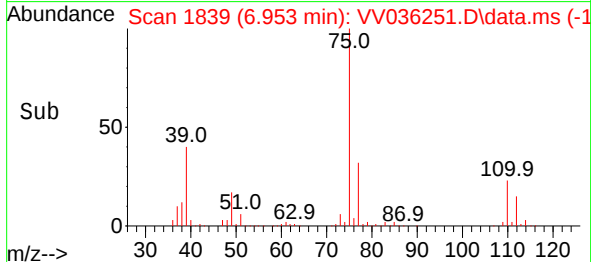
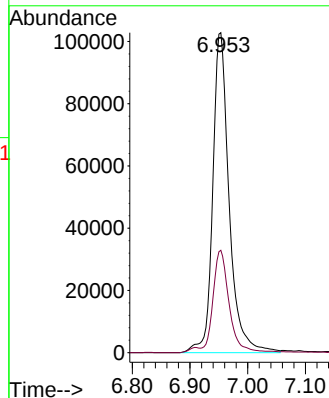
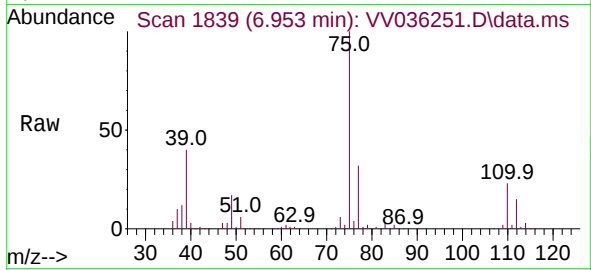
ClientSampleId :

Tgt Ion: 75 Resp: 203165

Ion Ratio Lower Upper

75 100

77 32.0 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 27.925 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

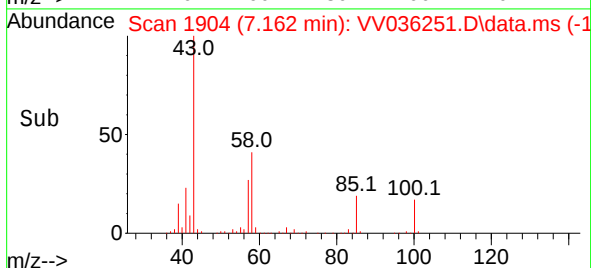
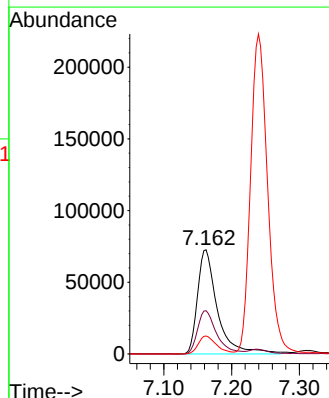
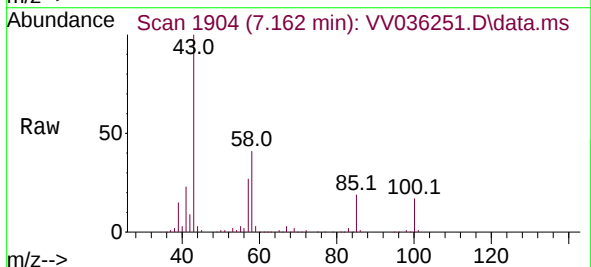
Tgt Ion: 43 Resp: 148017

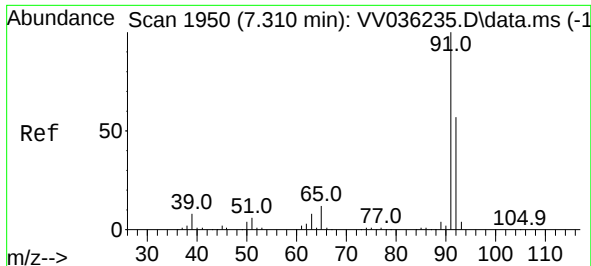
Ion Ratio Lower Upper

43 100

58 39.9 32.5 48.7

100 15.8 12.5 18.7





#42

Toluene

Concen: 14.555 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

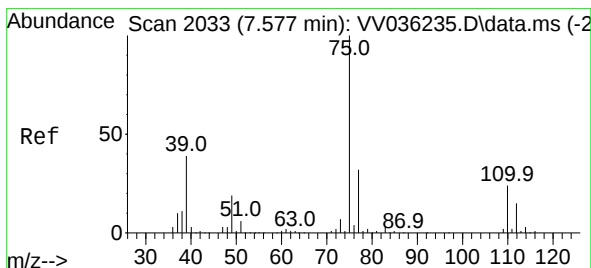
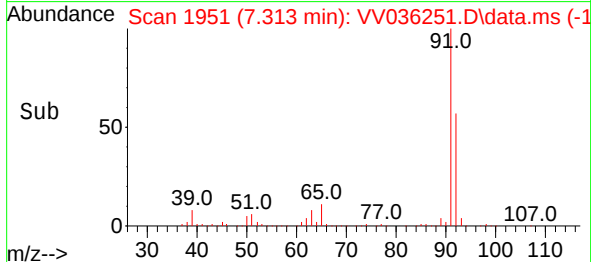
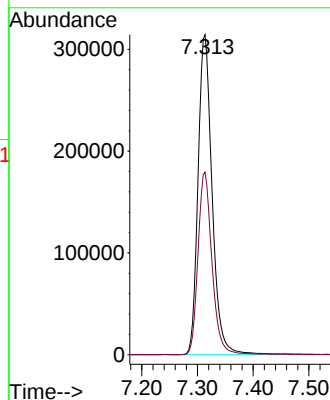
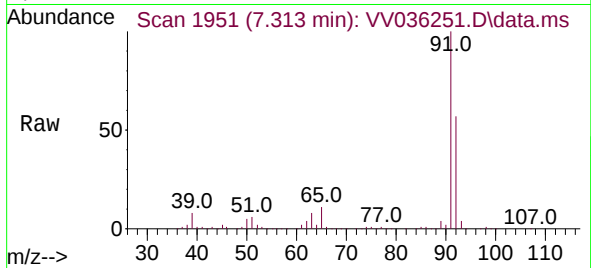
ClientSampleId :

Tgt Ion: 91 Resp: 552610

Ion Ratio Lower Upper

91 100

92 57.0 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 14.712 ug/L

RT: 7.580 min Scan# 2034

Delta R.T. 0.003 min

Lab File: VV036251.D

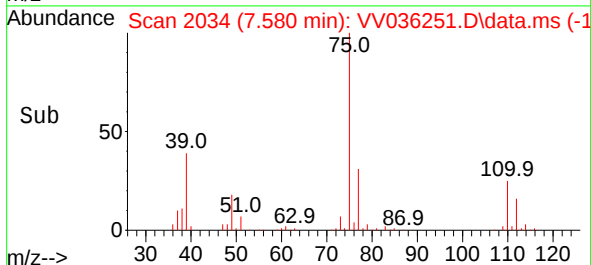
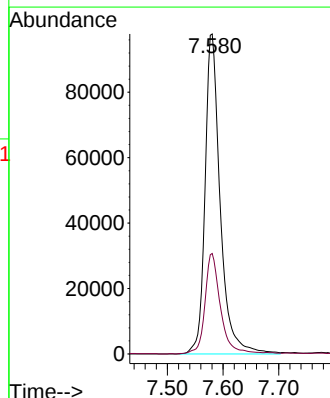
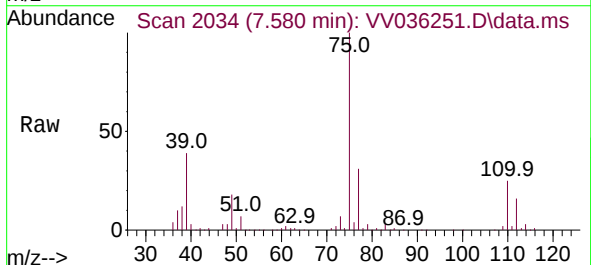
Acq: 24 Jun 2024 17:10

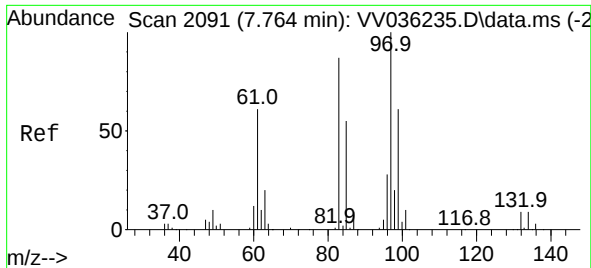
Tgt Ion: 75 Resp: 185433

Ion Ratio Lower Upper

75 100

77 31.4 23.1 42.9

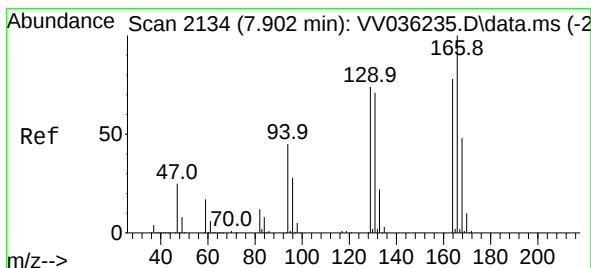
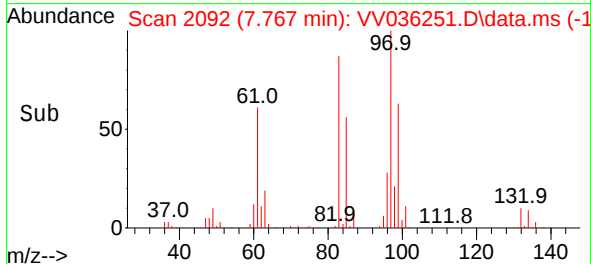
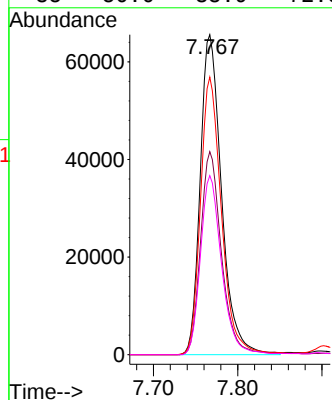
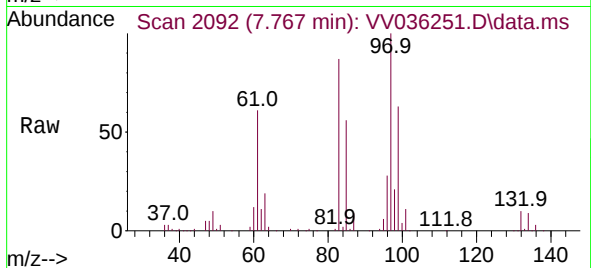




#45  
1,1,2-Trichloroethane  
Concen: 14.320 ug/L  
RT: 7.767 min Scan# 2092  
Delta R.T. 0.003 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

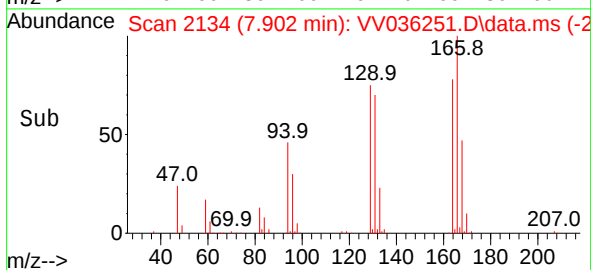
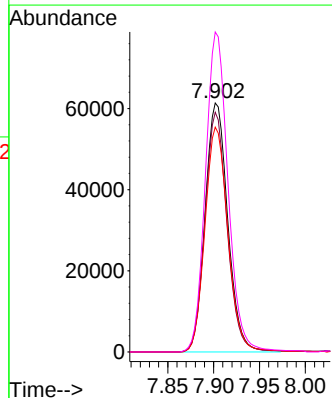
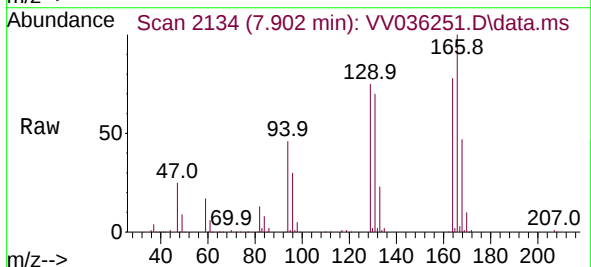
Instrument :  
MSVOA\_V  
ClientSampleId :

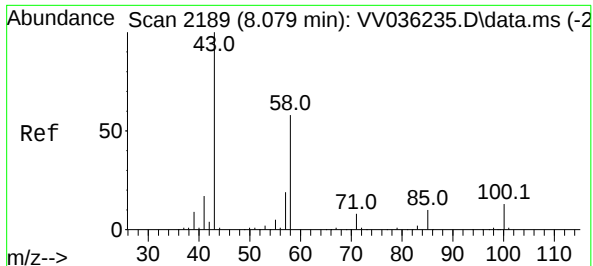
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 115597 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.4  | 43.3  | 80.5   |
| 83       | 86.7  | 60.1  | 111.7  |
| 85       | 56.0  | 38.9  | 72.3   |



#46  
Tetrachloroethene  
Concen: 12.685 ug/L  
RT: 7.902 min Scan# 2134  
Delta R.T. 0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 105648 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 96.3  | 64.6  | 120.0  |
| 131      | 90.3  | 63.2  | 117.4  |
| 166      | 128.5 | 89.5  | 166.3  |





#48

2-Hexanone

Concen: 25.738 ug/L

RT: 8.079 min Scan# 2189

Delta R.T. -0.000 min

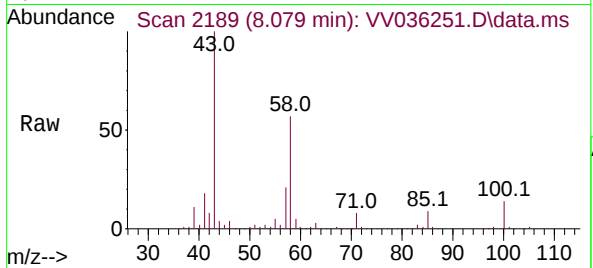
Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion: 43 Resp: 106656

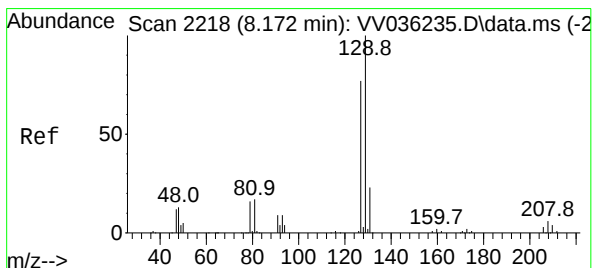
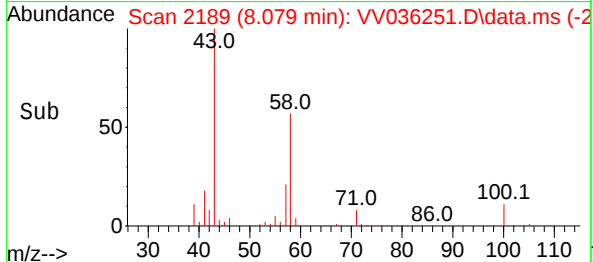
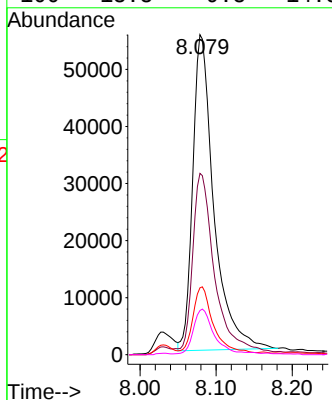
Ion Ratio Lower Upper

43 100

58 58.5 45.4 68.0

57 20.7 15.8 23.8

100 13.3 9.8 14.8



#49

Dibromochloromethane

Concen: 14.525 ug/L

RT: 8.175 min Scan# 2219

Delta R.T. 0.003 min

Lab File: VV036251.D

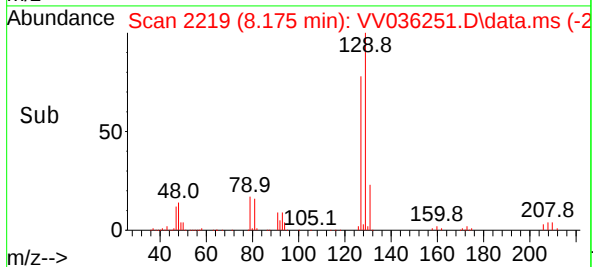
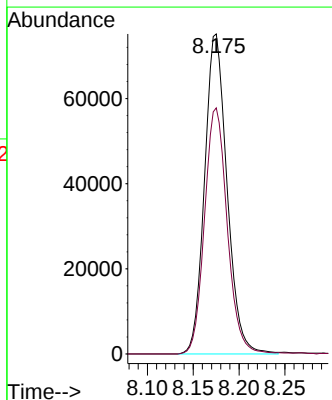
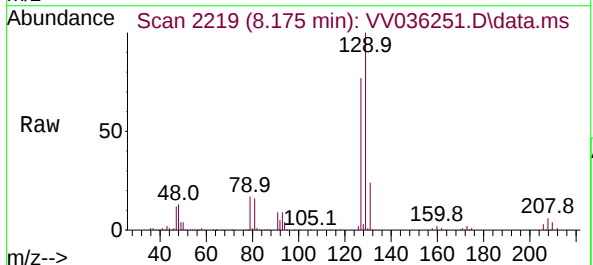
Acq: 24 Jun 2024 17:10

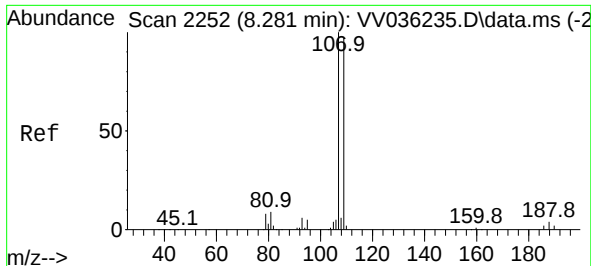
Tgt Ion:129 Resp: 128327

Ion Ratio Lower Upper

129 100

127 76.9 53.9 100.1

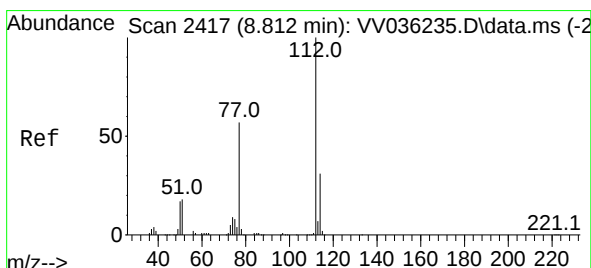
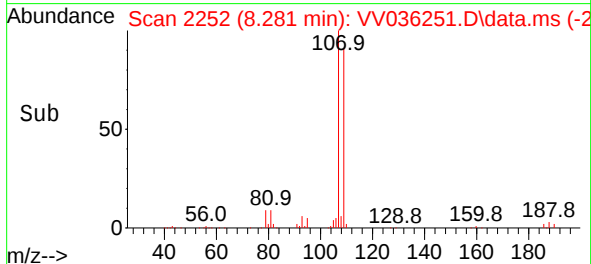
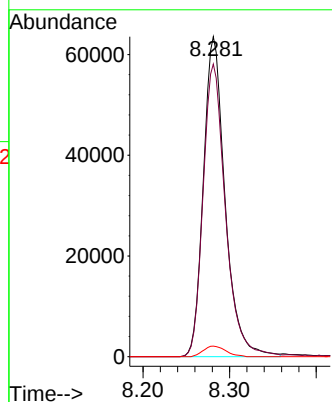
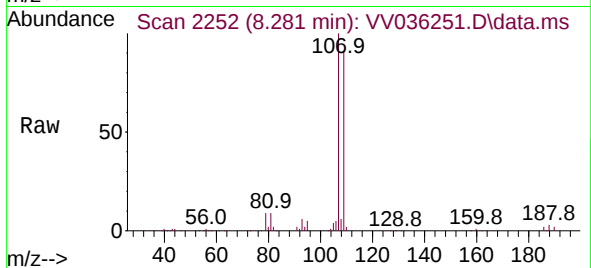




#50  
1,2-Dibromoethane  
Concen: 14.269 ug/L  
RT: 8.281 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

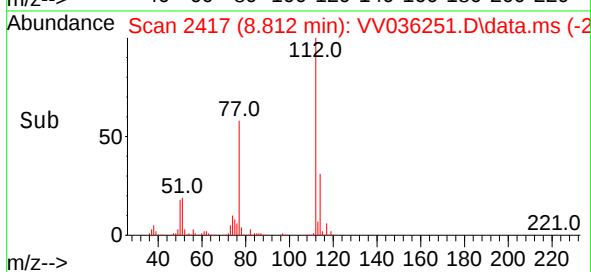
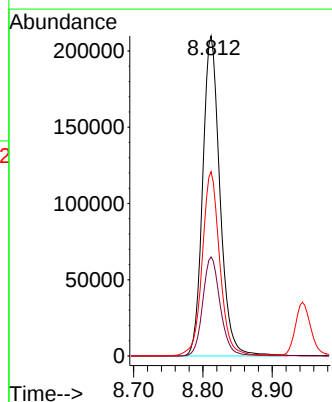
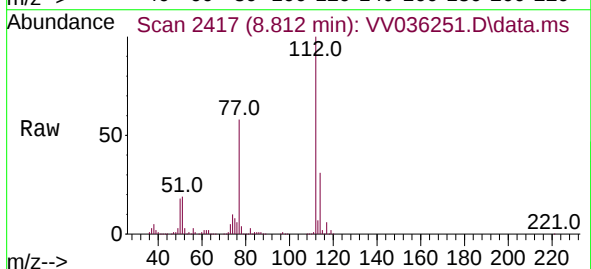
Instrument :  
MSVOA\_V  
ClientSampleId :

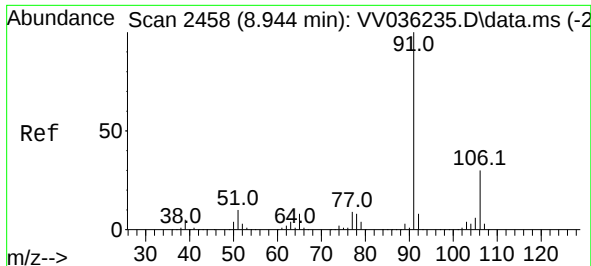
Tgt Ion:107 Resp: 110523  
Ion Ratio Lower Upper  
107 100  
109 91.4 66.1 122.7  
188 3.3 3.0 4.6



#51  
Chlorobenzene  
Concen: 14.045 ug/L  
RT: 8.812 min Scan# 2417  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Tgt Ion:112 Resp: 363328  
Ion Ratio Lower Upper  
112 100  
114 30.9 22.3 41.5  
77 57.6 47.3 70.9





#52

Ethylbenzene

Concen: 13.972 ug/L

RT: 8.944 min Scan# 2458

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

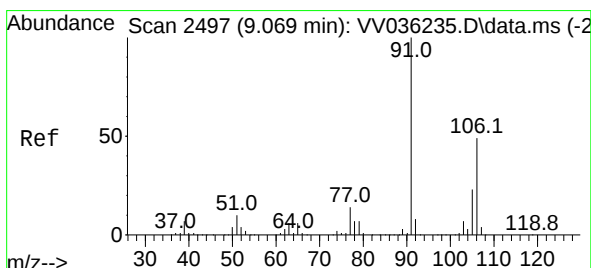
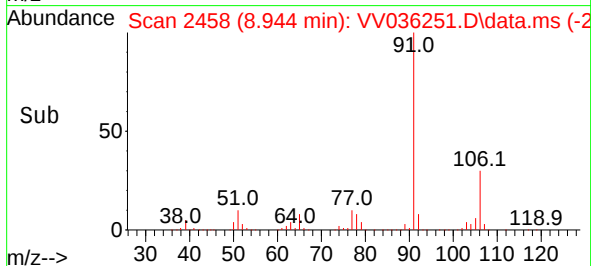
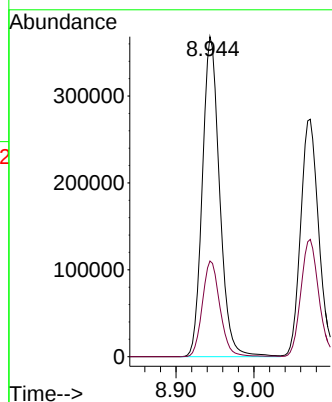
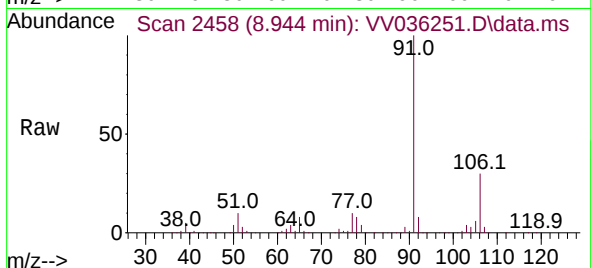
ClientSampleId :

Tgt Ion: 91 Resp: 567542

Ion Ratio Lower Upper

91 100

106 29.9 21.6 40.0



#53

m,p-Xylene

Concen: 14.236 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.003 min

Lab File: VV036251.D

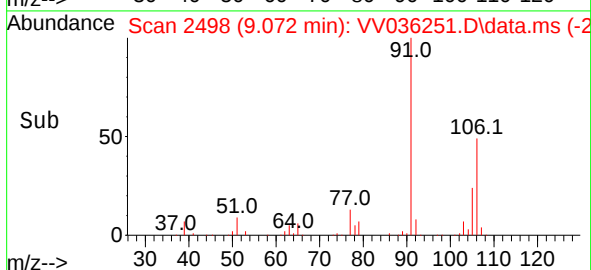
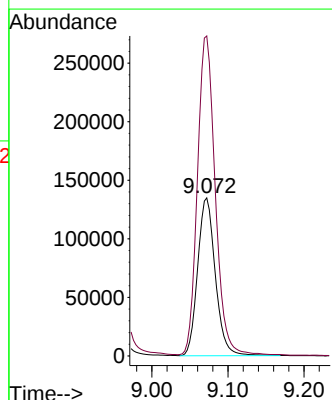
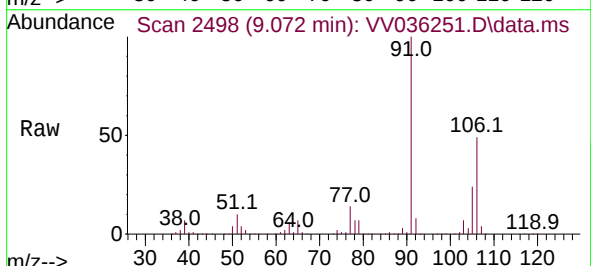
Acq: 24 Jun 2024 17:10

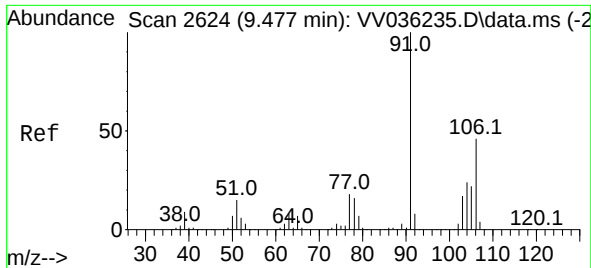
Tgt Ion: 106 Resp: 217277

Ion Ratio Lower Upper

106 100

91 202.3 143.1 265.9

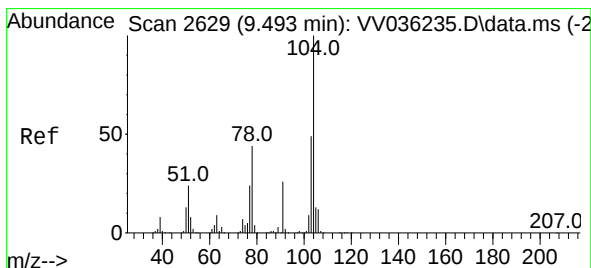
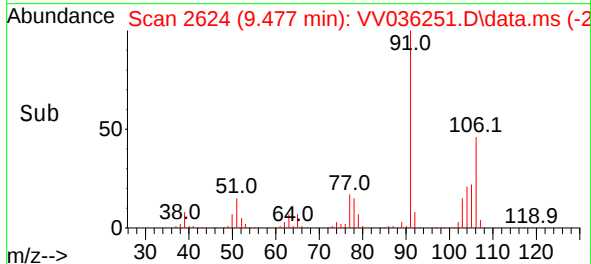
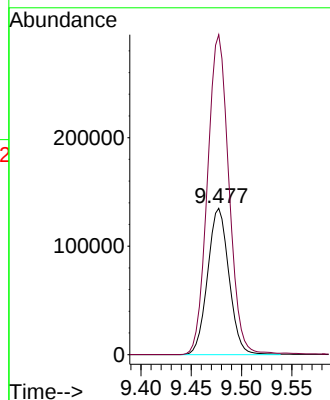
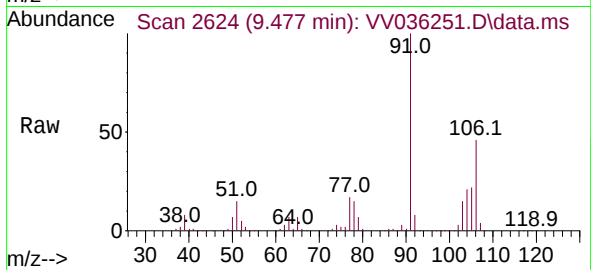




#54  
o-Xylene  
Concen: 13.882 ug/L  
RT: 9.477 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

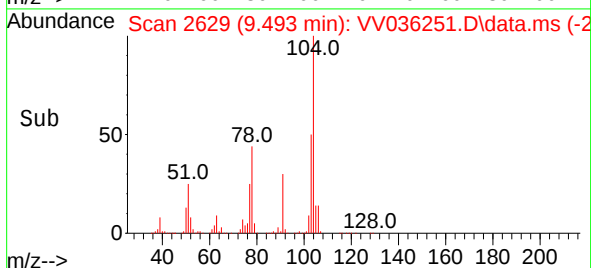
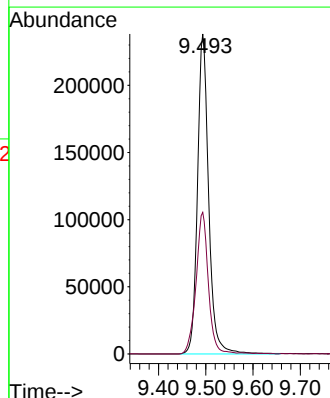
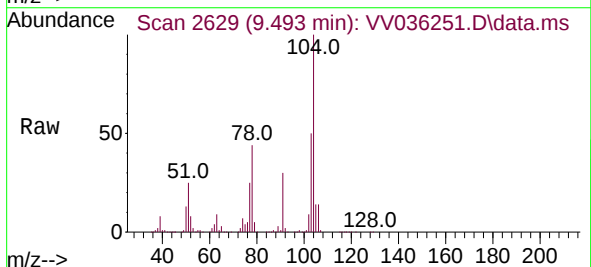
Instrument :  
MSVOA\_V  
ClientSampleId :

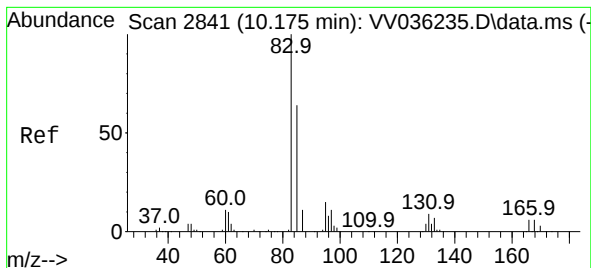
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 218.6 | 154.5 | 286.9 |



#55  
Styrene  
Concen: 15.389 ug/L  
RT: 9.493 min Scan# 2629  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 44.2  | 31.4  | 58.2  |





#57

1,1,2,2-Tetrachloroethane

Concen: 15.185 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

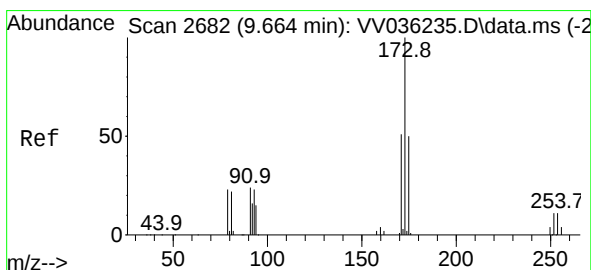
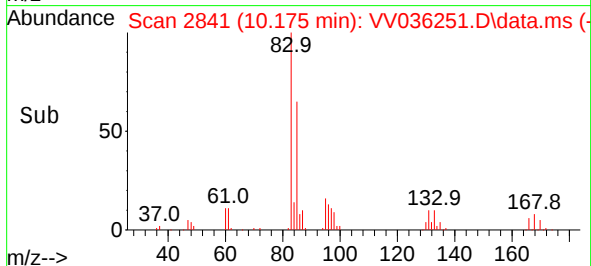
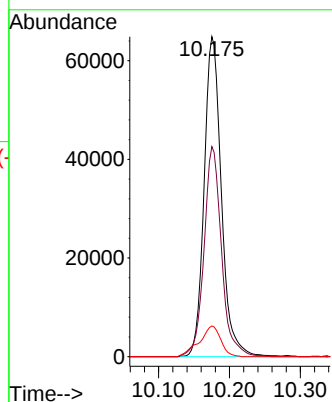
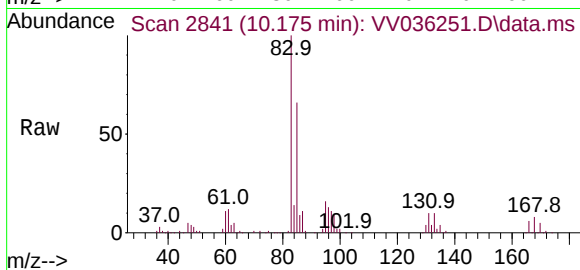
Tgt Ion: 83 Resp: 109763

Ion Ratio Lower Upper

83 100

85 65.6 45.1 83.7

131 9.6 7.6 11.4



#59

Bromoform

Concen: 14.148 ug/L

RT: 9.664 min Scan# 2682

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

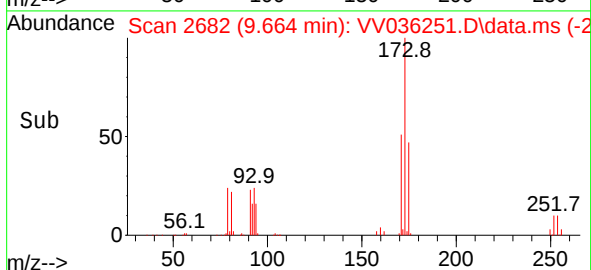
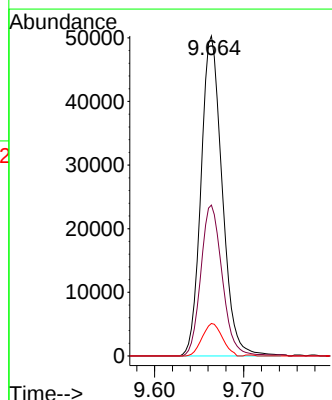
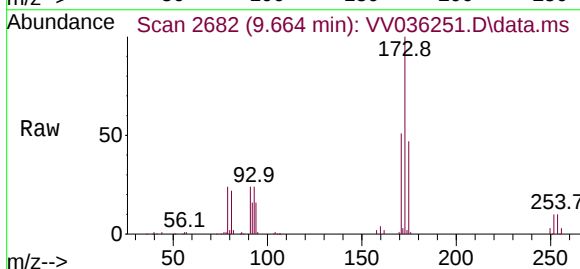
Tgt Ion: 173 Resp: 83036

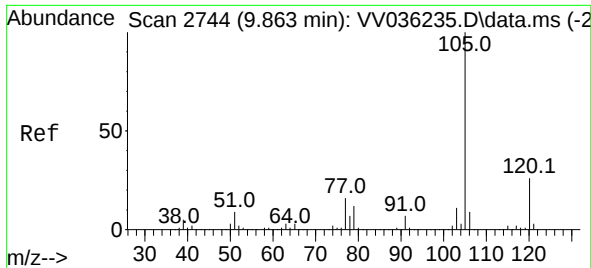
Ion Ratio Lower Upper

173 100

175 47.7 39.0 58.6

254 9.7 8.6 13.0

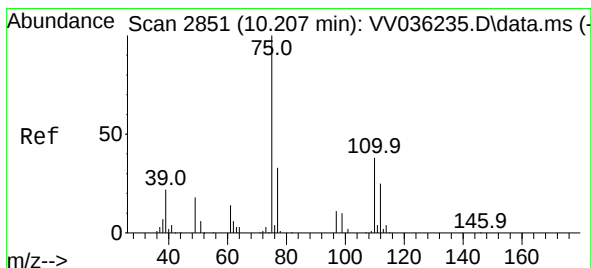
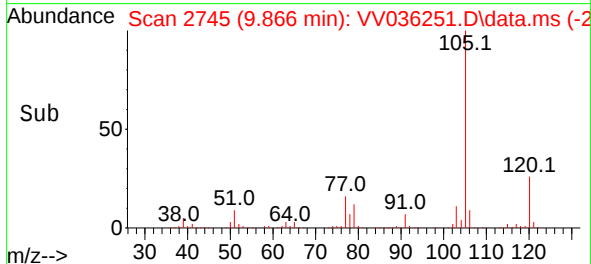
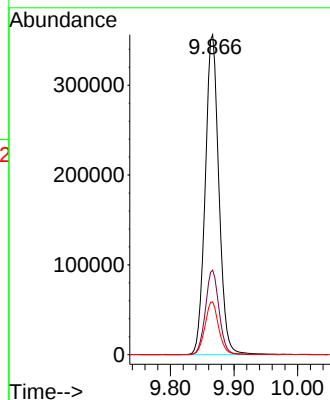
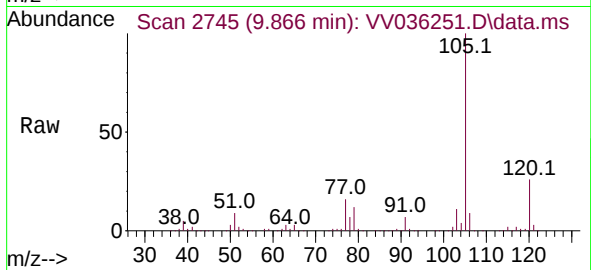




#60  
Isopropylbenzene  
Concen: 13.322 ug/L  
RT: 9.866 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

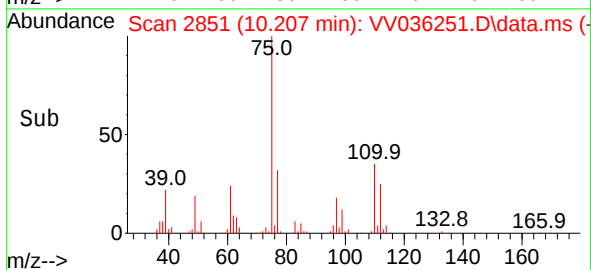
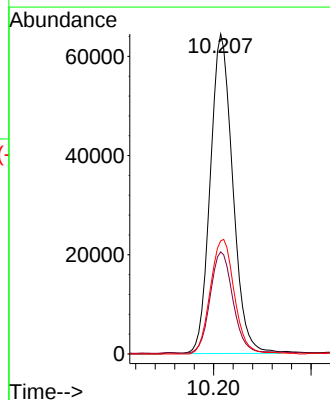
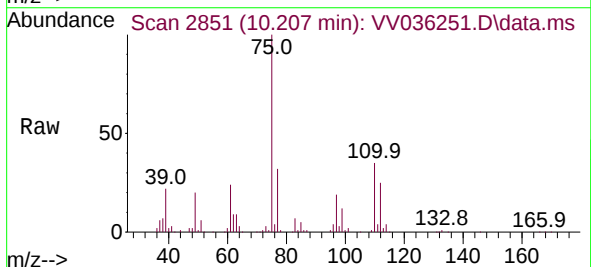
Instrument :  
MSVOA\_V  
ClientSampleId :

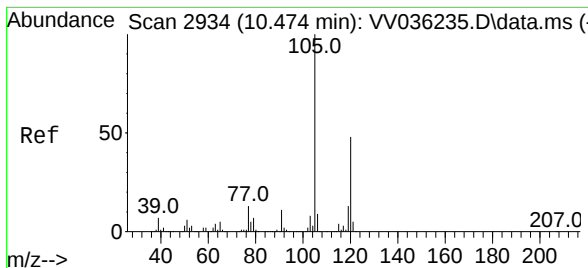
Tgt Ion:105 Resp: 531882  
Ion Ratio Lower Upper  
105 100  
120 26.4 21.0 31.6  
77 16.5 12.6 18.8



#61  
1,2,3-Trichloropropane  
Concen: 13.993 ug/L  
RT: 10.207 min Scan# 2851  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Tgt Ion: 75 Resp: 102990  
Ion Ratio Lower Upper  
75 100  
77 32.2 26.0 39.0  
110 38.1 32.2 48.4

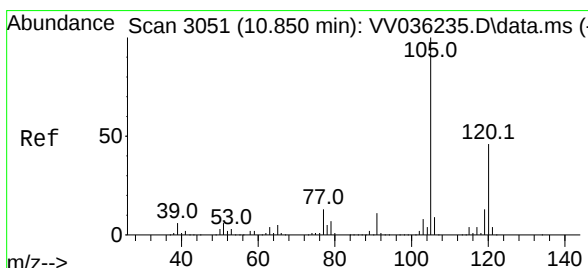
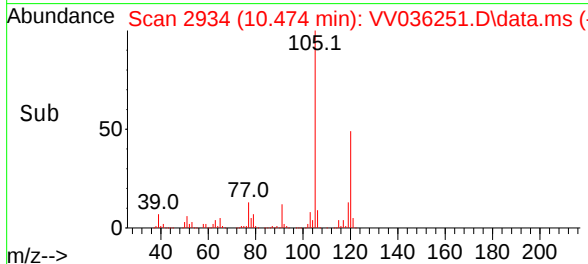
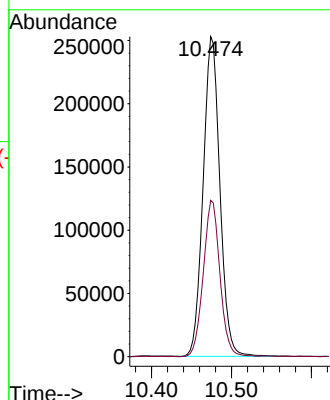
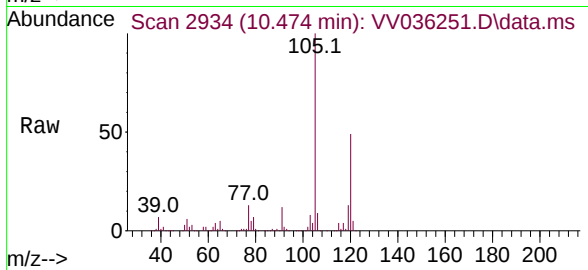




#62  
1,3,5-Trimethylbenzene  
Concen: 12.760 ug/L  
RT: 10.474 min Scan# 2934  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

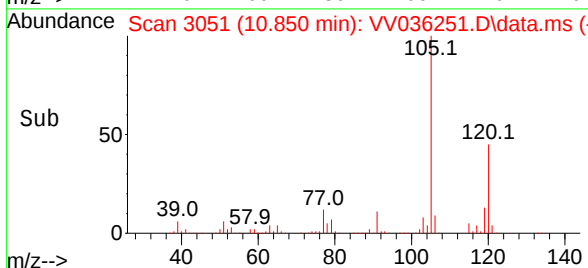
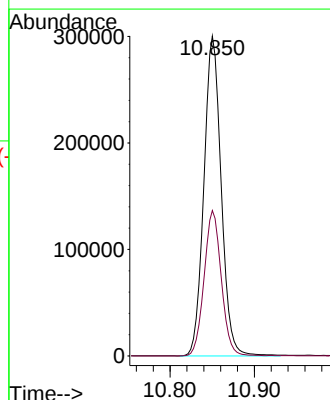
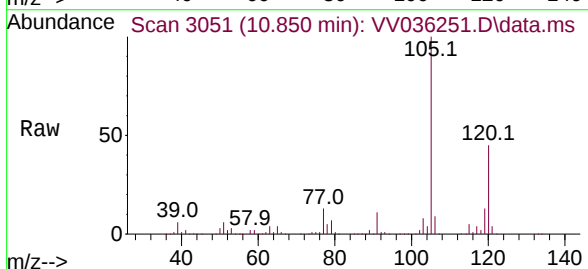
Instrument :  
MSVOA\_V  
ClientSampleId :

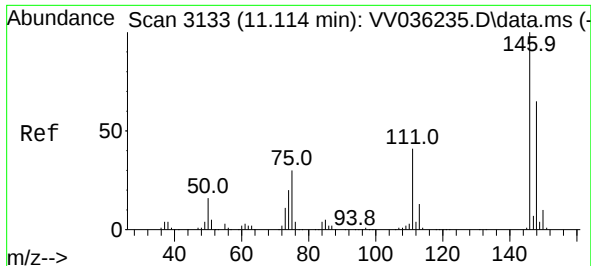
Tgt Ion:105 Resp: 369412  
Ion Ratio Lower Upper  
105 100  
120 48.6 38.6 58.0



#63  
1,2,4-Trimethylbenzene  
Concen: 13.818 ug/L  
RT: 10.850 min Scan# 3051  
Delta R.T. 0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

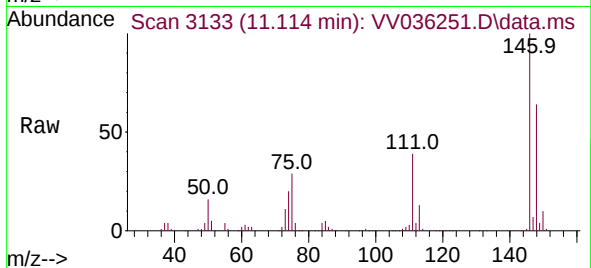
Tgt Ion:105 Resp: 431022  
Ion Ratio Lower Upper  
105 100  
120 45.1 36.2 54.4



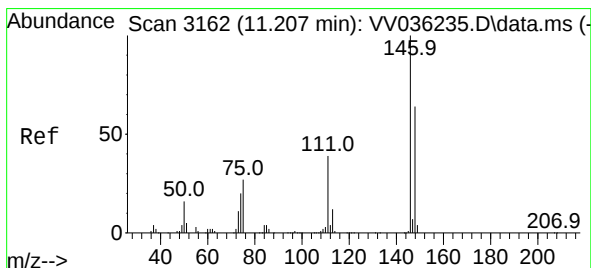
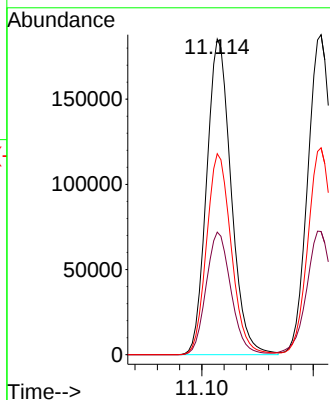
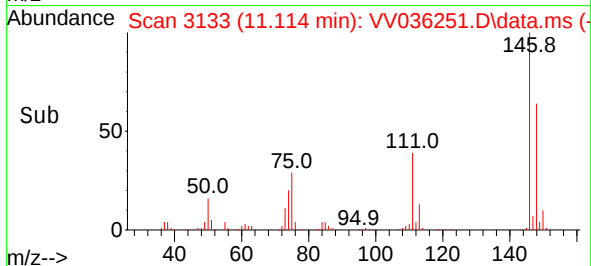


#64  
1,3-Dichlorobenzene  
Concen: 13.506 ug/L  
RT: 11.114 min Scan# 3133  
Delta R.T. -0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

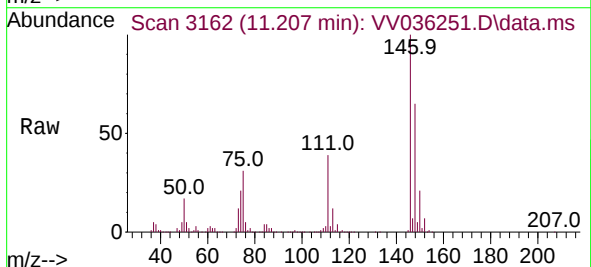
Instrument :  
MSVOA\_V  
ClientSampleId :



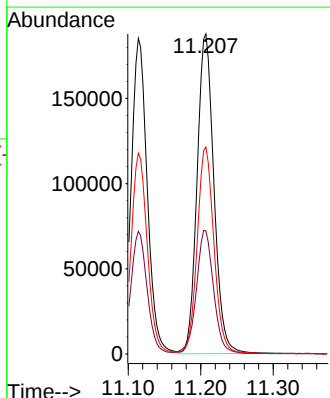
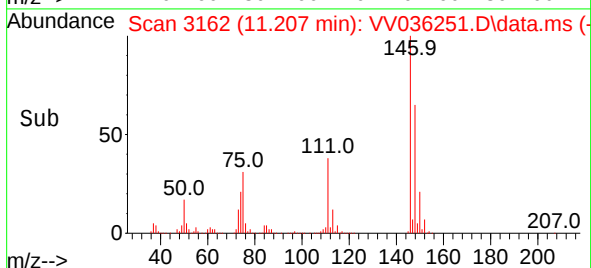
Tgt Ion:146 Resp: 283185  
Ion Ratio Lower Upper  
146 100  
111 38.8 28.1 52.1  
148 63.7 44.7 83.1

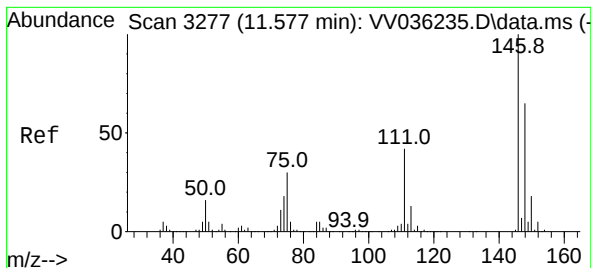


#65  
1,4-Dichlorobenzene  
Concen: 14.001 ug/L  
RT: 11.207 min Scan# 3162  
Delta R.T. 0.000 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10



Tgt Ion:146 Resp: 303010  
Ion Ratio Lower Upper  
146 100  
111 38.5 26.9 50.1  
148 64.7 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 14.213 ug/L

RT: 11.577 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :

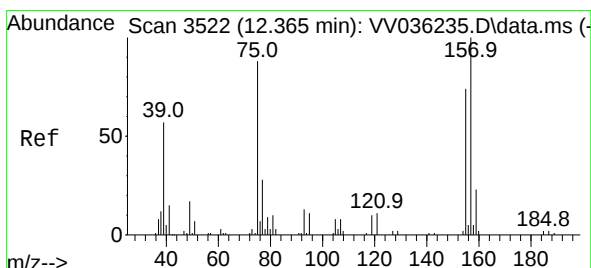
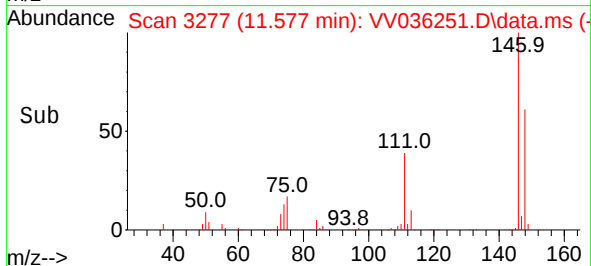
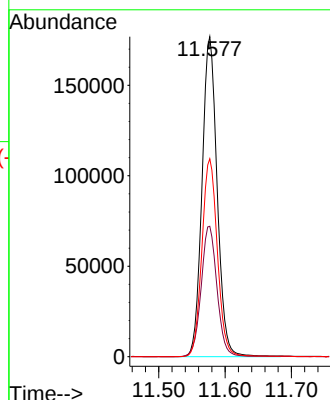
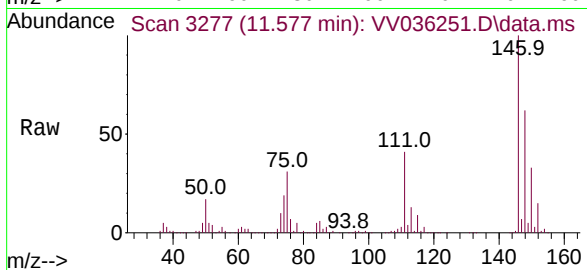
Tgt Ion:146 Resp: 280435

Ion Ratio Lower Upper

146 100

111 40.8 33.5 50.3

148 61.9 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 14.641 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. -0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

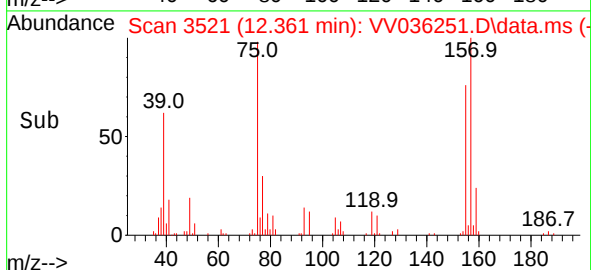
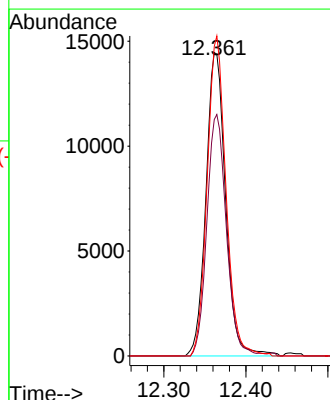
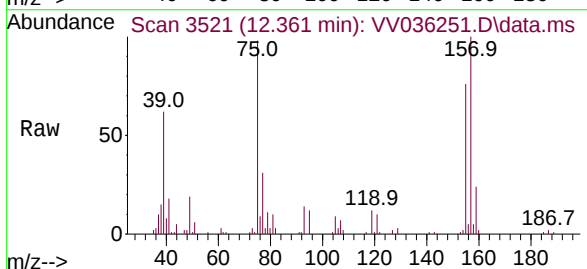
Tgt Ion: 75 Resp: 24097

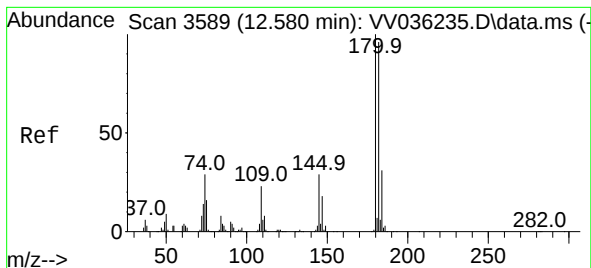
Ion Ratio Lower Upper

75 100

155 78.0 63.3 94.9

157 102.1 82.4 123.6





#69

1,3,5-Trichlorobenzene

Concen: 12.303 ug/L

RT: 12.580 min Scan# 3589

Delta R.T. 0.000 min

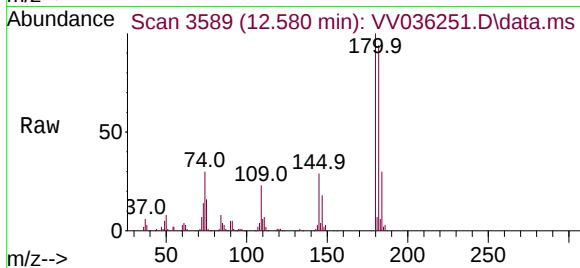
Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 192959

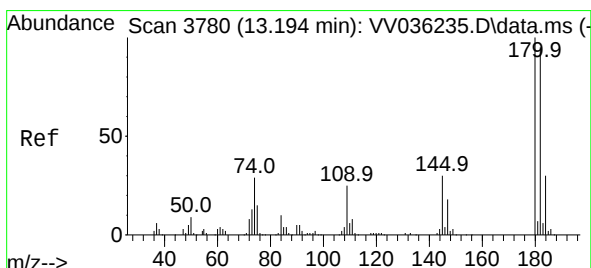
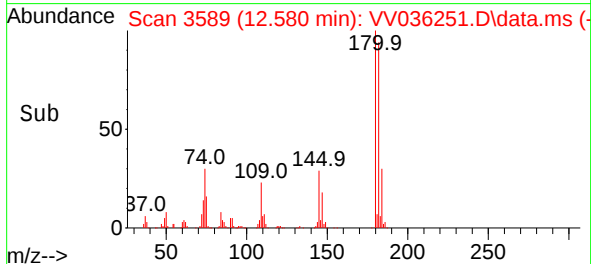
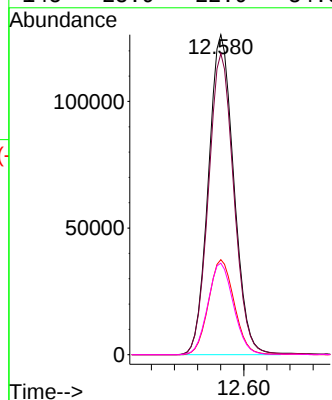
Ion Ratio Lower Upper

180 100

182 94.0 76.2 114.4

184 30.0 24.2 36.2

145 28.9 22.9 34.3



#70

1,2,4-trichlorobenzene

Concen: 12.635 ug/L

RT: 13.197 min Scan# 3781

Delta R.T. 0.003 min

Lab File: VV036251.D

Acq: 24 Jun 2024 17:10

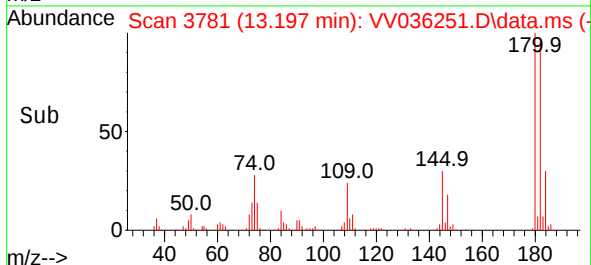
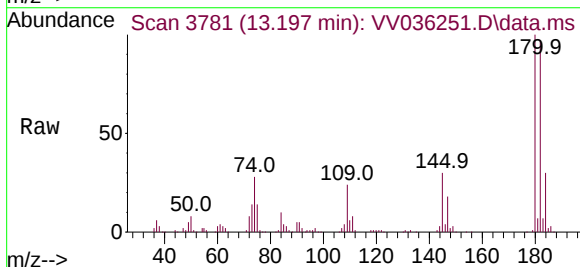
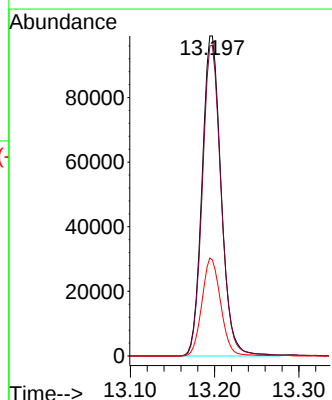
Tgt Ion:180 Resp: 156037

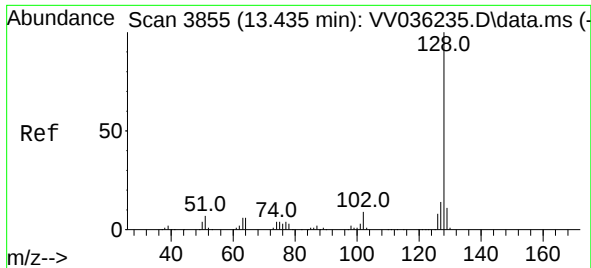
Ion Ratio Lower Upper

180 100

182 95.7 76.1 114.1

145 30.1 23.5 35.3

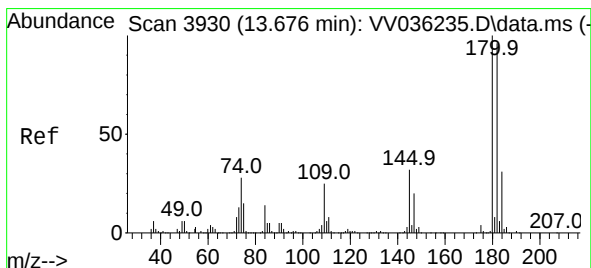
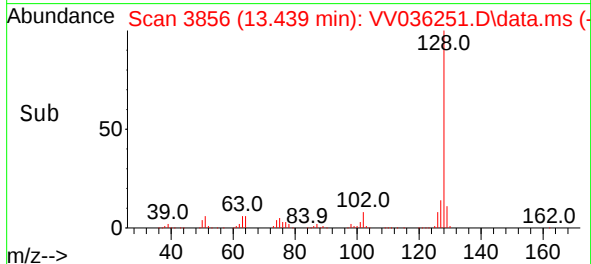
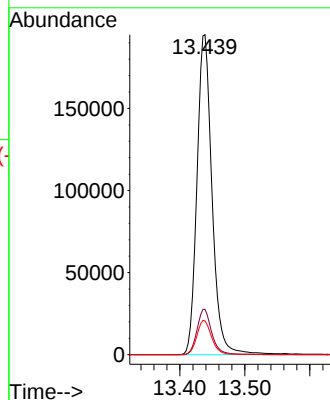
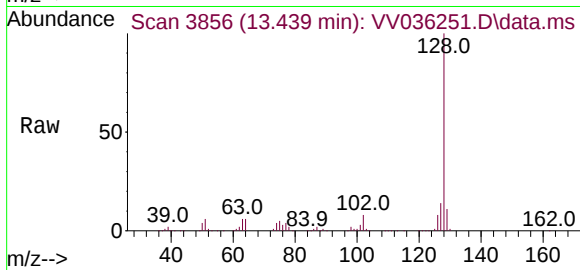




#71  
Naphthalene  
Concen: 15.629 ug/L  
RT: 13.439 min Scan# 3855  
Delta R.T. 0.003 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:128 Resp: 314970  
Ion Ratio Lower Upper  
128 100  
127 13.9 10.6 16.0  
129 10.5 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 13.736 ug/L  
RT: 13.680 min Scan# 3931  
Delta R.T. 0.003 min  
Lab File: VV036251.D  
Acq: 24 Jun 2024 17:10

Tgt Ion:180 Resp: 154789  
Ion Ratio Lower Upper  
180 100  
182 96.2 75.1 112.7  
145 32.1 25.2 37.8

