

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040424\  
 Data File : VL041119.D  
 Acq On : 4 Apr 2024 8:46  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Apr 05 04:14:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 05 04:13:19 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.217  | 49   | 1397898  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.684  | 114  | 3576867  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.503 | 117  | 3217481  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.812 | 95    | 2653807  | 10.294   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.900% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.738 | 85  | 147862 | 0.617 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 2.684 | 51  | 118679 | 0.551 | ppbv   | 99     |
| 4) Chloromethane              | 2.825 | 50  | 43418  | 0.533 | ppbv # | 87     |
| 5) Vinyl Chloride             | 2.931 | 62  | 44273  | 0.569 | ppbv   | 99     |
| 6) Bromomethane               | 3.131 | 94  | 15785  | 0.533 | ppbv   | 82     |
| 7) Chloroethane               | 3.208 | 64  | 16643  | 0.587 | ppbv # | 83     |
| 8) Dichlorotetrafluoroethane  | 2.867 | 85  | 112682 | 0.552 | ppbv   | 98     |
| 9) Propene                    | 2.706 | 41  | 33141  | 0.484 | ppbv   | 98     |
| 10) Heptane                   | 7.616 | 43  | 76092  | 0.468 | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 3.578 | 101 | 116466 | 0.537 | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 4.086 | 101 | 87365  | 0.557 | ppbv   | 99     |
| 13) Ethanol                   | 3.269 | 45  | 3712   | 0.233 | ppbv # | 43     |
| 14) Bromoethene               | 3.382 | 108 | 31496  | 0.510 | ppbv # | 92     |
| 15) Acetone                   | 3.500 | 43  | 82162  | 0.543 | ppbv   | 91     |
| 16) 1,3-Butadiene             | 2.999 | 39  | 34571  | 0.465 | ppbv   | 85     |
| 17) tert-Butyl alcohol        | 3.915 | 59  | 70051  | 0.510 | ppbv   | 96     |
| 18) 1,1-Dichloroethene        | 3.902 | 96  | 18890  | 0.282 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 3.613 | 45  | 37698  | 0.405 | ppbv # | 89     |
| 20) Methylene Chloride        | 3.957 | 84  | 41263  | 0.661 | ppbv   | 93     |
| 21) Allyl Chloride            | 4.018 | 41  | 44615  | 0.484 | ppbv   | 90     |
| 22) trans-1,2-Dichloroethene  | 4.472 | 96  | 35189  | 0.504 | ppbv   | 95     |
| 23) Vinyl Acetate             | 4.658 | 43  | 72572  | 0.462 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 4.587 | 63  | 76901  | 0.547 | ppbv # | 98     |
| 25) Ethyl Acetate             | 5.243 | 43  | 144571 | 0.509 | ppbv # | 98     |
| 26) Hexane                    | 5.237 | 57  | 60228  | 0.472 | ppbv # | 82     |
| 27) Carbon Disulfide          | 4.150 | 76  | 79167  | 0.511 | ppbv   | 95     |
| 28) Methyl tert-Butyl Ether   | 4.619 | 73  | 49487  | 0.514 | ppbv   | 97     |
| 29) Chloroform                | 5.304 | 83  | 114616 | 0.533 | ppbv   | 92     |
| 30) Cyclohexane               | 6.629 | 84  | 19859  | 0.194 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 5.102 | 61  | 26493  | 0.219 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 6.034 | 97  | 99881  | 0.503 | ppbv   | 91     |
| 34) 2-Butanone                | 4.828 | 43  | 80499  | 0.521 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 6.520 | 117 | 105811 | 0.518 | ppbv   | 98     |
| 36) Benzene                   | 6.404 | 78  | 124334 | 0.474 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 5.832 | 62  | 83240  | 0.528 | ppbv   | 99     |
| 38) Trichloroethene           | 7.330 | 130 | 46228  | 0.485 | ppbv # | 88     |
| 39) 1,2-Dichloropropane       | 7.102 | 63  | 35348  | 0.339 | ppbv # | 82     |
| 40) 1,4-Dioxane               | 7.317 | 88  | 89     | 0.002 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.610 | 42  | 20633  | 0.209 | ppbv # | 33     |
| 42) Bromodichloromethane      | 7.278 | 83  | 109738 | 0.487 | ppbv   | 91     |
| 43) Methyl Methacrylate       | 7.497 | 69  | 6068   | 0.067 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 7.362 | 57  | 206574 | 0.475 | ppbv   | 93     |
| 45) t-1,3-Dichloropropene     | 8.745 | 75  | 18192  | 0.310 | ppbv   | 89     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040424\  
 Data File : VL041119.D  
 Acq On : 4 Apr 2024 8:46  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

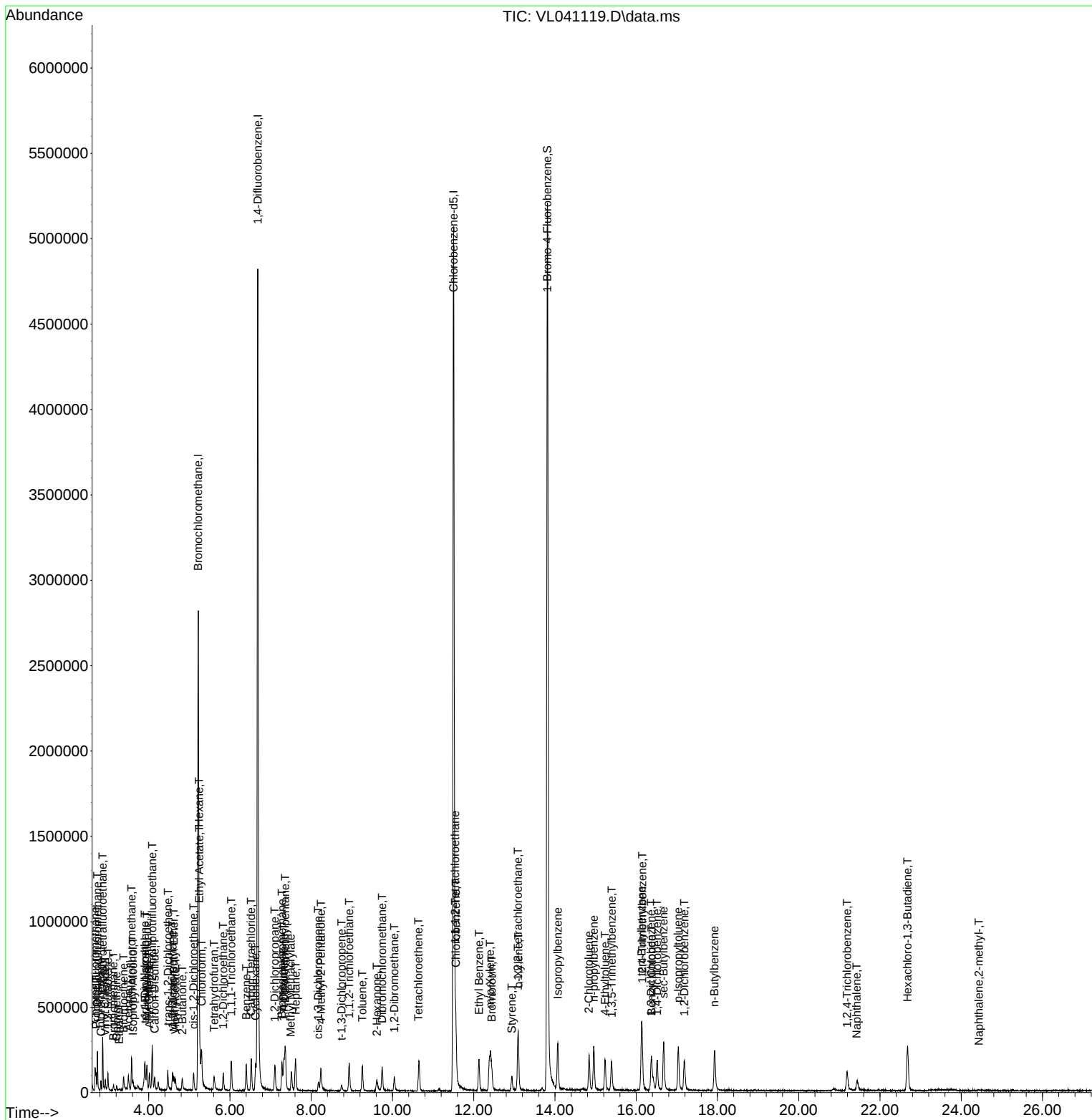
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

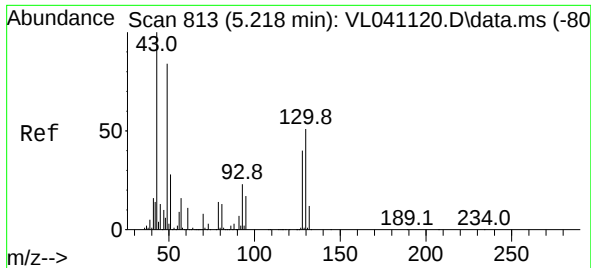
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 05 04:13:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.172  | 75   | 14486    | 0.194 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 8.934  | 97   | 53862    | 0.481 | ppbv   | 95       |
| 48) Dibromochloromethane      | 9.745  | 129  | 77253    | 0.435 | ppbv   | 97       |
| 49) Bromoform                 | 12.442 | 173  | 56428    | 0.401 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 8.240  | 43   | 105271   | 0.397 | ppbv   | 98       |
| 51) 2-Hexanone                | 9.613  | 43   | 56069    | 0.305 | ppbv   | 93       |
| 52) Tetrachloroethene         | 10.642 | 164  | 12532    | 0.149 | ppbv   | 89       |
| 53) Toluene                   | 9.259  | 91   | 109603   | 0.395 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.047 | 107  | 66334    | 0.475 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 11.545 | 131  | 44558    | 0.339 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.561 | 112  | 113448   | 0.521 | ppbv # | 96       |
| 58) Ethyl Benzene             | 12.130 | 91   | 152318   | 0.435 | ppbv   | 95       |
| 59) m/p-Xylene                | 12.404 | 91   | 42061    | 0.133 | ppbv # | 32       |
| 60) o-Xylene                  | 13.098 | 91   | 137803   | 0.457 | ppbv   | 97       |
| 61) Styrene                   | 12.937 | 104  | 26530    | 0.199 | ppbv # | 29       |
| 62) Isopropylbenzene          | 14.069 | 105  | 213848   | 0.478 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.089 | 83   | 126928   | 0.534 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.953 | 120  | 52114    | 0.466 | ppbv   | 82       |
| 65) tert-Butylbenzene         | 16.133 | 119  | 175902   | 0.450 | ppbv   | 90       |
| 66) Benzyl Chloride           | 16.378 | 91   | 2194     | 0.085 | ppbv # | 1        |
| 67) sec-Butylbenzene          | 16.674 | 105  | 261583   | 0.464 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.034 | 119  | 100268   | 0.228 | ppbv # | 46       |
| 70) n-Butylbenzene            | 17.924 | 91   | 92409    | 0.193 | ppbv # | 24       |
| 71) 2-Chlorotoluene           | 14.834 | 91   | 68785    | 0.201 | ppbv # | 43       |
| 72) 4-Ethyltoluene            | 15.230 | 105  | 94472    | 0.284 | ppbv # | 74       |
| 73) 1,3,5-Trimethylbenzene    | 15.394 | 105  | 125378   | 0.424 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.146 | 105  | 157640   | 0.463 | ppbv # | 92       |
| 75) 1,3-Dichlorobenzene       | 16.365 | 146  | 34957    | 0.177 | ppbv # | 1        |
| 76) 1,4-Dichlorobenzene       | 16.513 | 146  | 83282    | 0.433 | ppbv   | 89       |
| 77) 1,2-Dichlorobenzene       | 17.182 | 146  | 87860    | 0.457 | ppbv   | 92       |
| 78) Hexachloro-1,3-Butadiene  | 22.677 | 225  | 18688    | 0.146 | ppbv # | 18       |
| 79) Naphthalene               | 21.426 | 128  | 12477    | 0.058 | ppbv # | 76       |
| 80) Naphthalene,2-methyl-     | 24.435 | 142  | 3970     | 0.106 | ppbv # | 62       |
| 81) 1,2,4-Trichlorobenzene    | 21.194 | 180  | 30013    | 0.243 | ppbv # | 56       |

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

Quant Time: Apr 05 04:14:27 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSV0A\_L\methods\VL040424AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSV0A\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 05 04:13:19 2024  
Response via : Initial Calibration

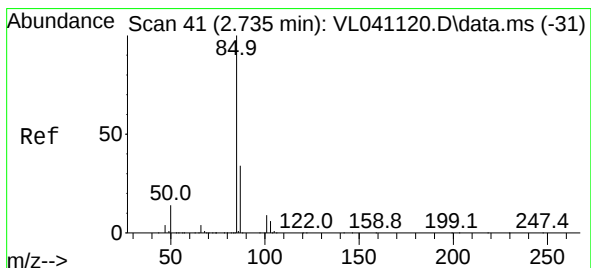
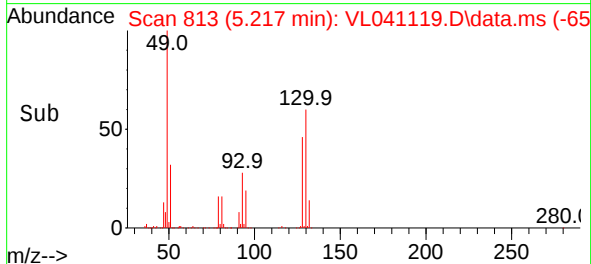
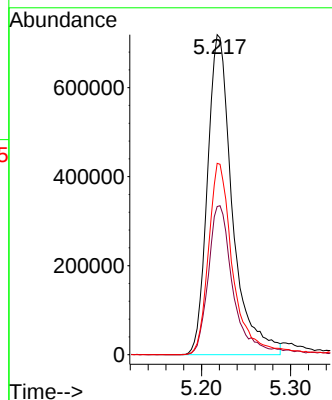
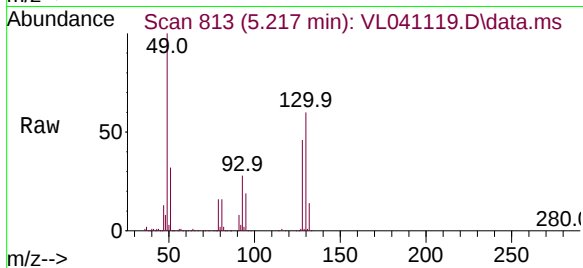




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.217 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

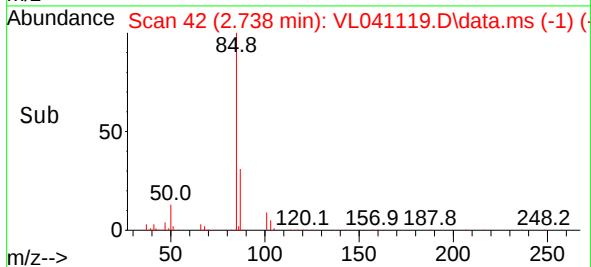
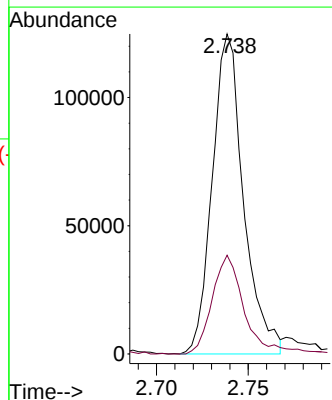
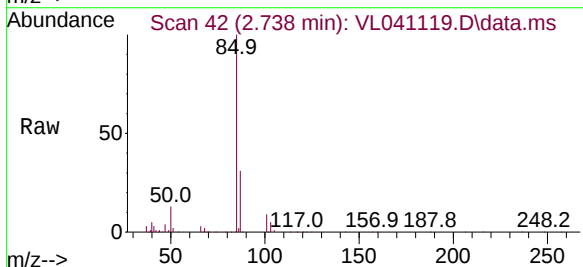
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

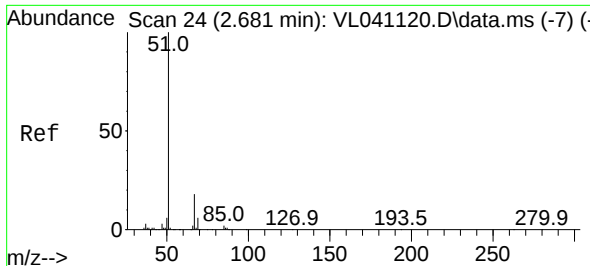
Tgt Ion: 49 Resp: 1397898  
Ion Ratio Lower Upper  
49 100  
128 48.5 23.6 71.0  
130 60.9 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 0.617 ppbv  
RT: 2.738 min Scan# 42  
Delta R.T. 0.003 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 85 Resp: 147862  
Ion Ratio Lower Upper  
85 100  
87 30.8 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.551 ppbv

RT: 2.684 min Scan# 24

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

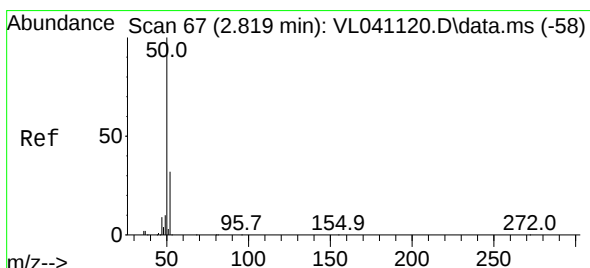
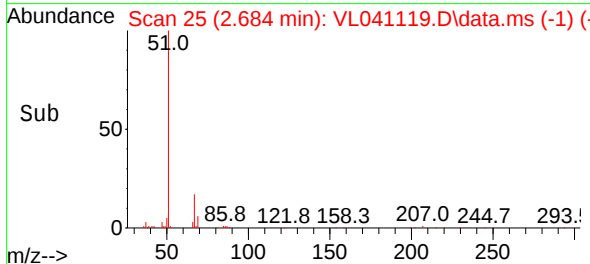
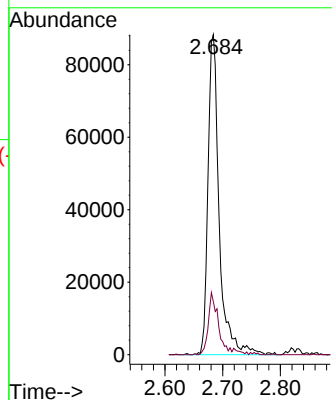
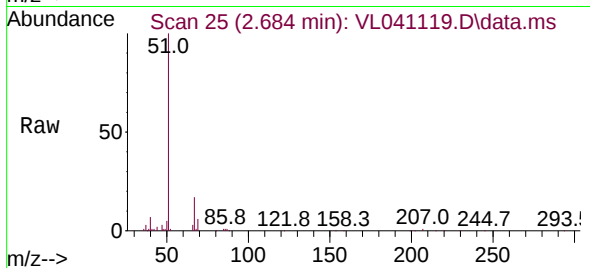
VSTDIC0.5

Tgt Ion: 51 Resp: 118679

Ion Ratio Lower Upper

51 100

67 18.9 14.9 22.3



#4

Chloromethane

Concen: 0.533 ppbv

RT: 2.825 min Scan# 69

Delta R.T. 0.006 min

Lab File: VL041119.D

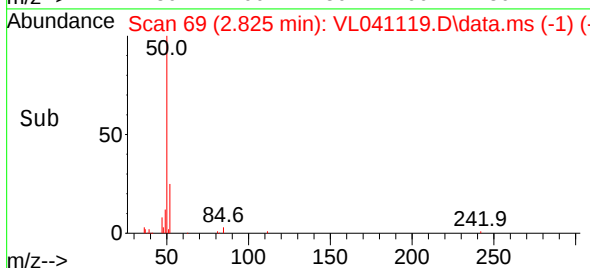
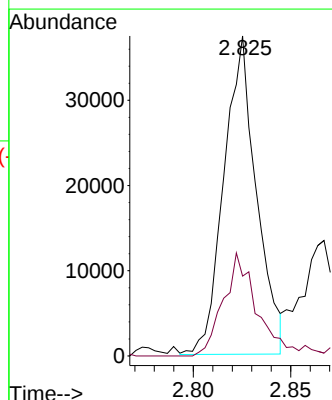
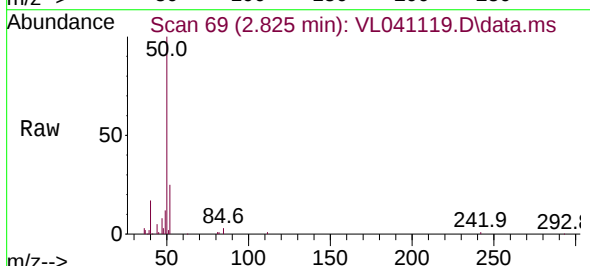
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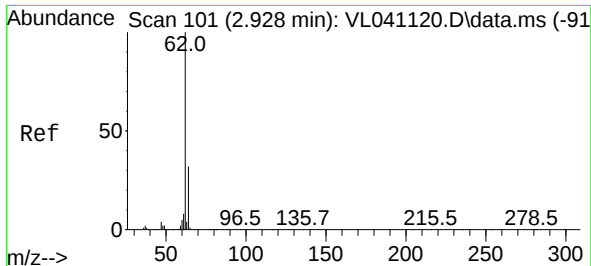
Tgt Ion: 50 Resp: 43418

Ion Ratio Lower Upper

50 100

52 25.2 26.0 39.0#

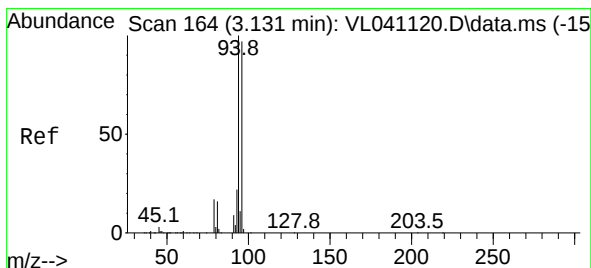
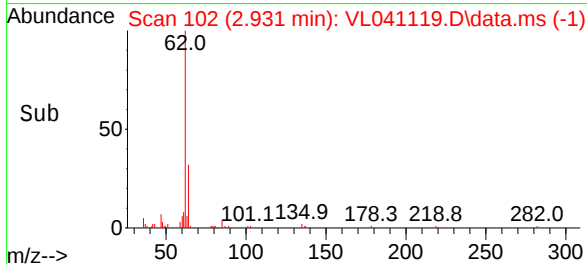
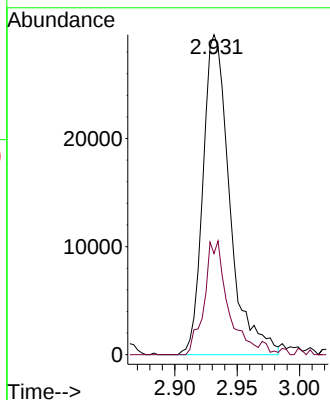
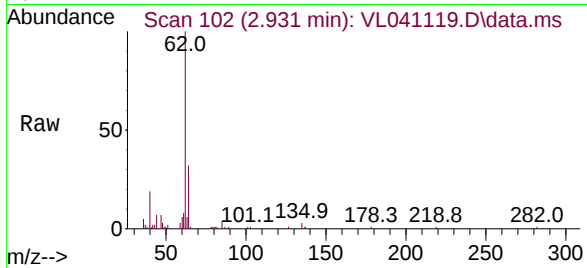




#5  
 Vinyl Chloride  
 Concen: 0.569 ppbv  
 RT: 2.931 min Scan# 101  
 Delta R.T. 0.003 min  
 Lab File: VL041119.D  
 Acq: 4 Apr 2024 8:46

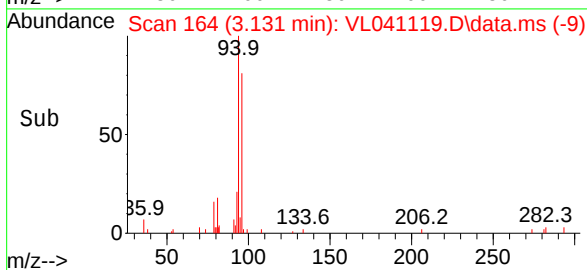
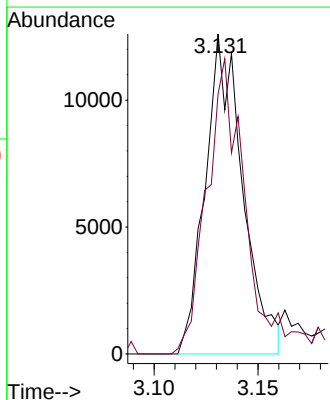
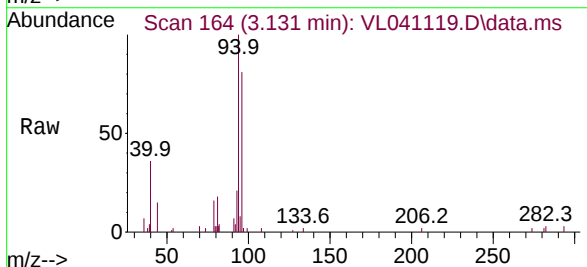
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

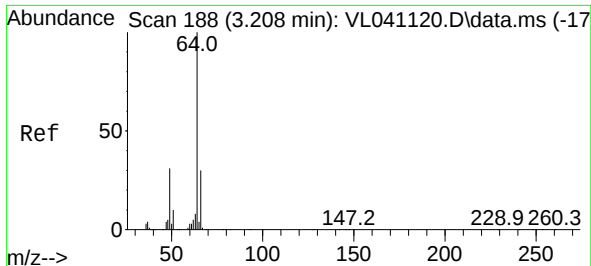
Tgt Ion: 62 Resp: 44273  
 Ion Ratio Lower Upper  
 62 100  
 64 31.6 25.6 38.4



#6  
 Bromomethane  
 Concen: 0.533 ppbv  
 RT: 3.131 min Scan# 164  
 Delta R.T. -0.000 min  
 Lab File: VL041119.D  
 Acq: 4 Apr 2024 8:46

Tgt Ion: 94 Resp: 15785  
 Ion Ratio Lower Upper  
 94 100  
 96 79.5 77.9 116.9

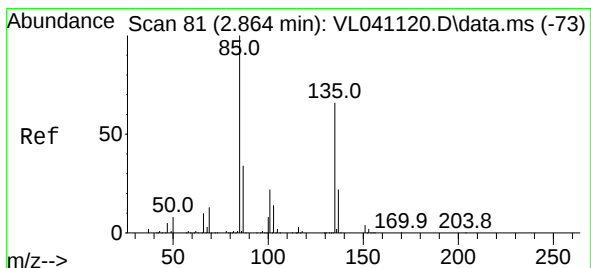
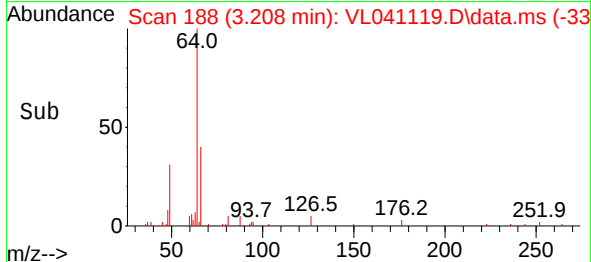
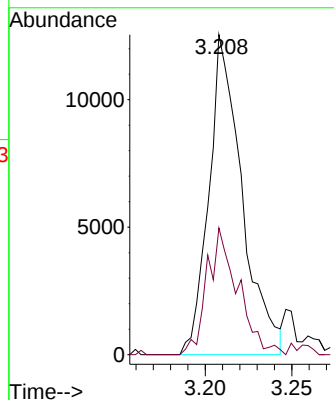
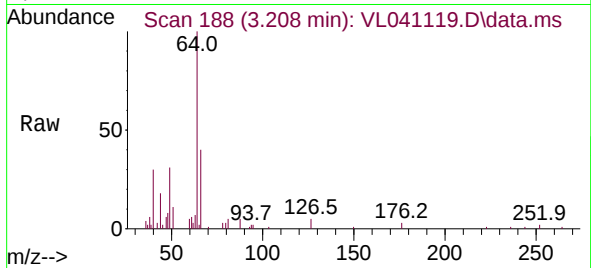




#7  
Chloroethane  
Concen: 0.587 ppbv  
RT: 3.208 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

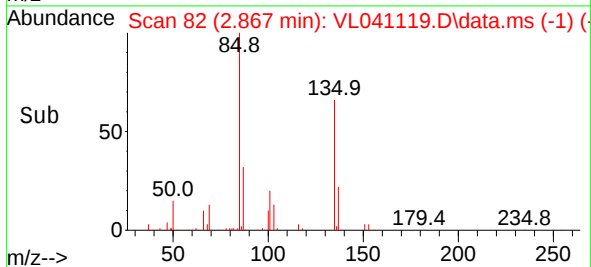
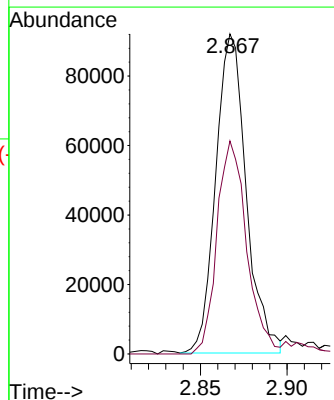
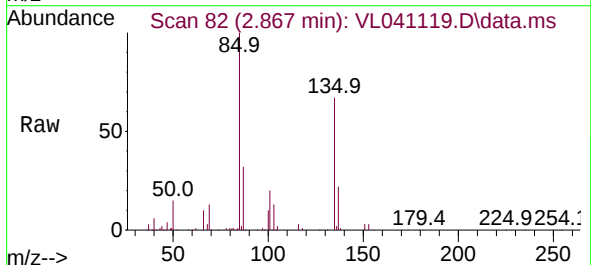
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

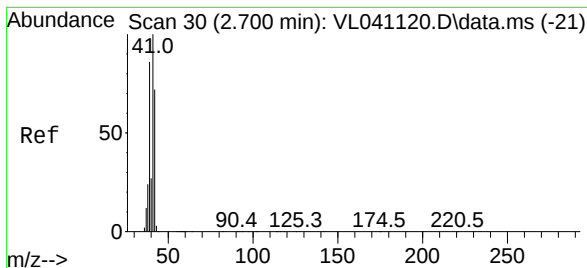
Tgt Ion: 64 Resp: 16643  
Ion Ratio Lower Upper  
64 100  
66 39.6 24.2 36.4#



#8  
Dichlorotetrafluoroethane  
Concen: 0.552 ppbv  
RT: 2.867 min Scan# 82  
Delta R.T. 0.003 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 85 Resp: 112682  
Ion Ratio Lower Upper  
85 100  
135 69.7 54.2 81.2





#9

Propene

Concen: 0.484 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

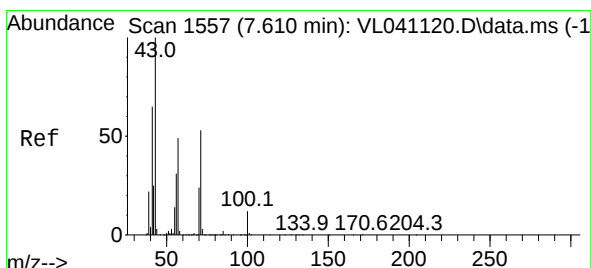
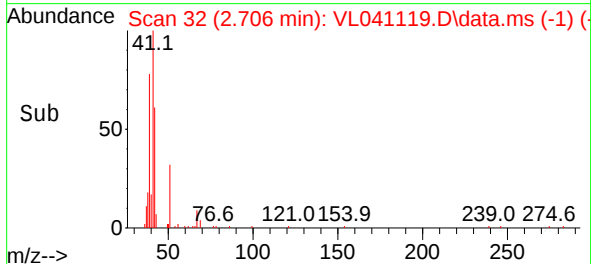
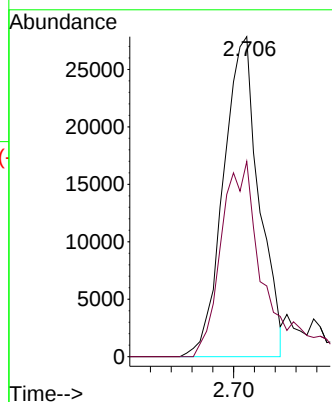
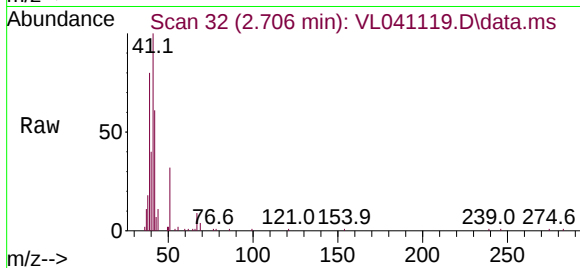
VSTDICC0.5

Tgt Ion: 41 Resp: 33141

Ion Ratio Lower Upper

41 100

42 76.6 60.1 90.1



#10

Heptane

Concen: 0.468 ppbv

RT: 7.616 min Scan# 1559

Delta R.T. 0.006 min

Lab File: VL041119.D

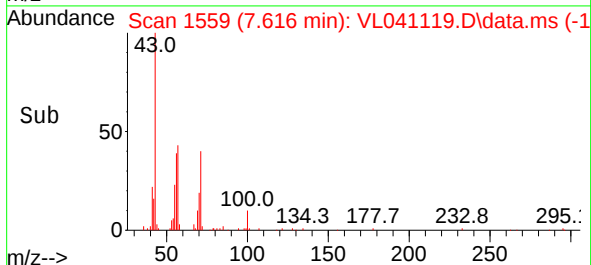
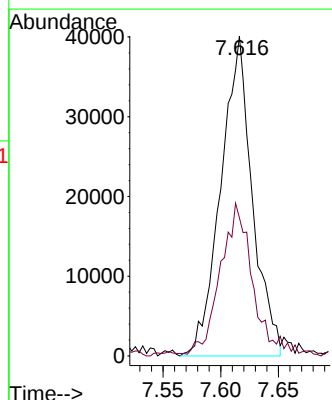
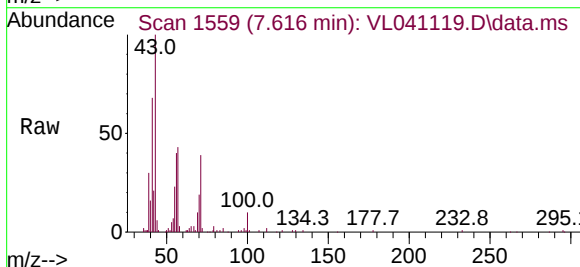
Acq: 4 Apr 2024 8:46

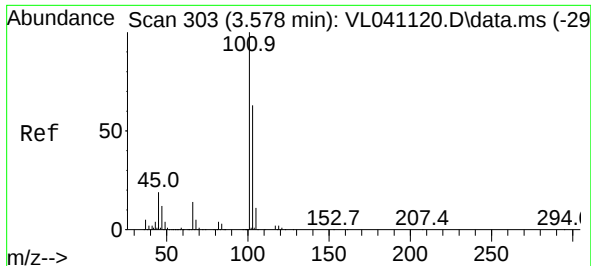
Tgt Ion: 43 Resp: 76092

Ion Ratio Lower Upper

43 100

57 51.0 39.9 59.9





#11

Trichlorofluoromethane

Concen: 0.537 ppbv

RT: 3.578 min Scan# 303

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

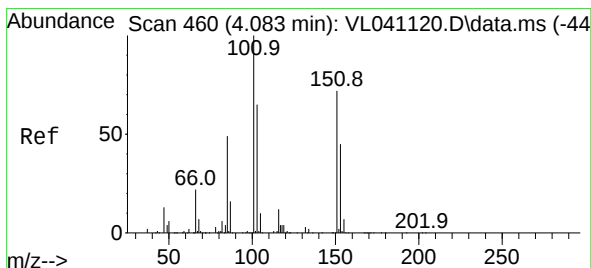
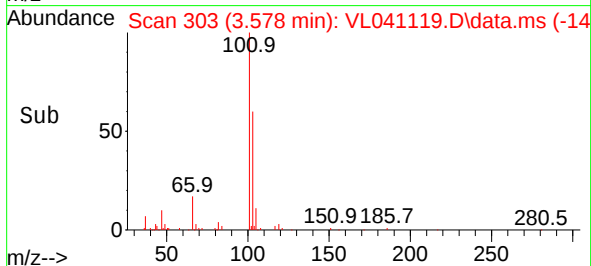
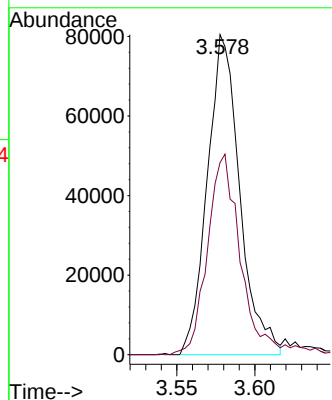
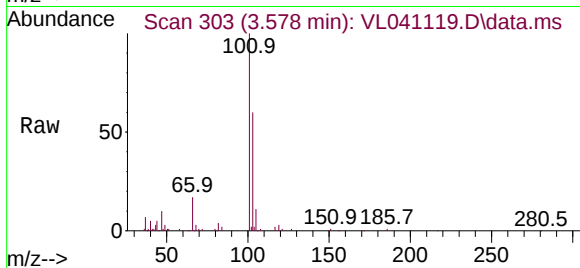
VSTDIC0.5

Tgt Ion:101 Resp: 116466

Ion Ratio Lower Upper

101 100

103 58.7 50.6 75.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.557 ppbv

RT: 4.086 min Scan# 461

Delta R.T. 0.003 min

Lab File: VL041119.D

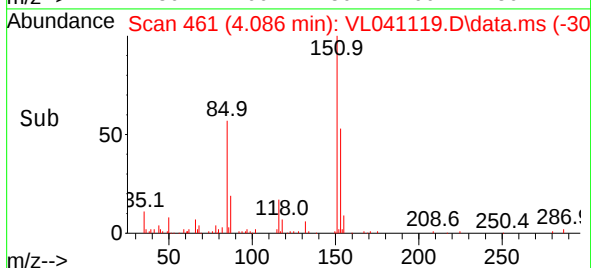
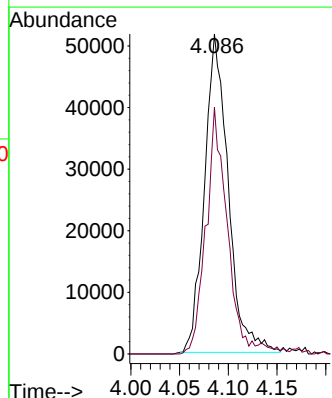
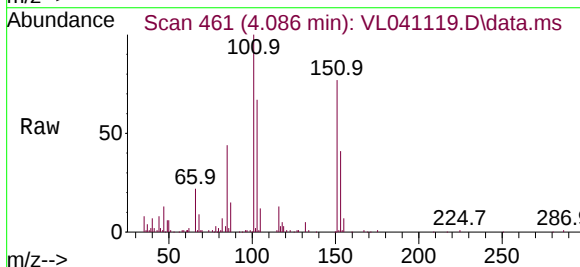
Acq: 4 Apr 2024 8:46

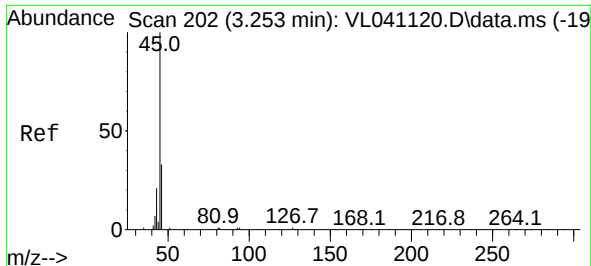
Tgt Ion:101 Resp: 87365

Ion Ratio Lower Upper

101 100

151 71.4 56.2 84.4





#13

Ethanol

Concen: 0.233 ppbv

RT: 3.269 min Scan# 20

Delta R.T. 0.016 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

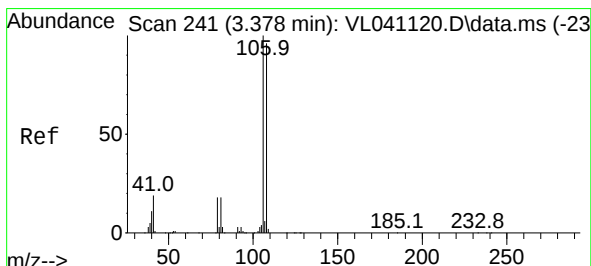
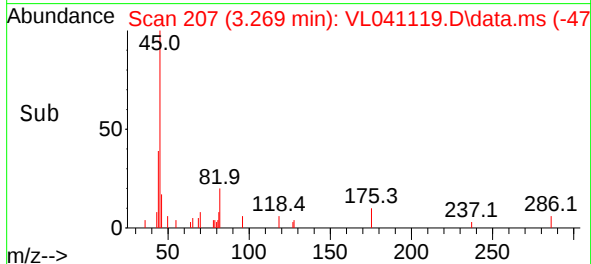
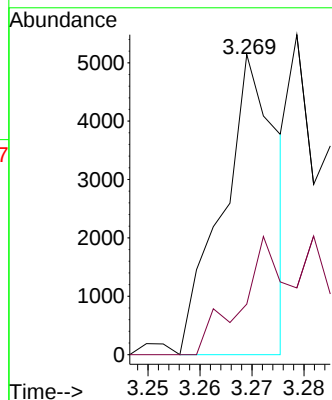
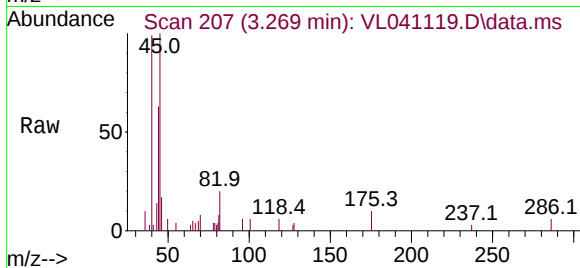
VSTDICC0.5

Tgt Ion: 45 Resp: 3712

Ion Ratio Lower Upper

45 100

46 3.2 15.0 59.8#



#14

Bromoethene

Concen: 0.510 ppbv

RT: 3.382 min Scan# 242

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

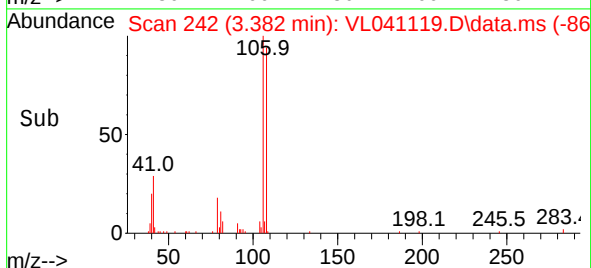
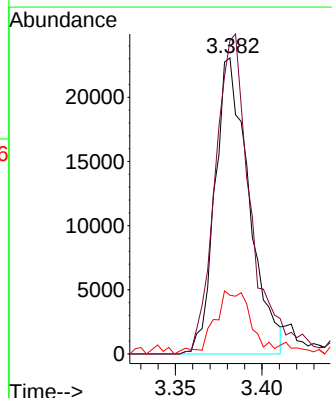
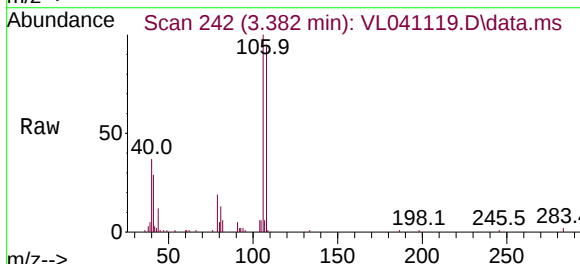
Tgt Ion:108 Resp: 31496

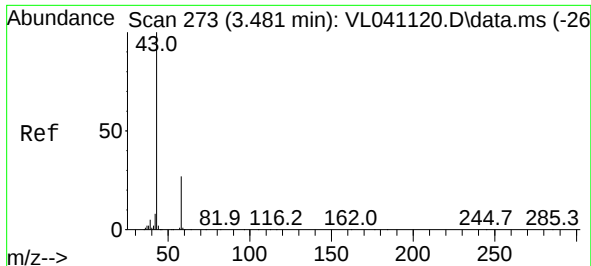
Ion Ratio Lower Upper

108 100

106 115.2 86.0 129.0

79 24.9 15.4 23.2#





#15

Acetone

Concen: 0.543 ppbv

RT: 3.500 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

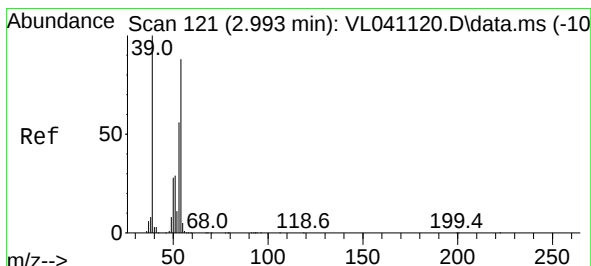
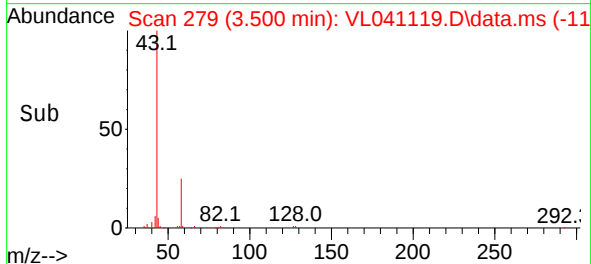
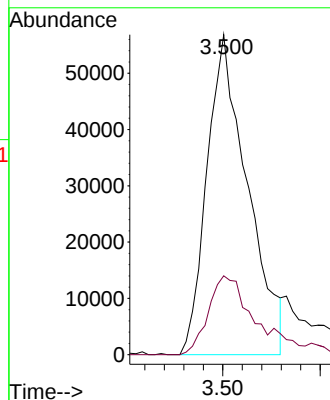
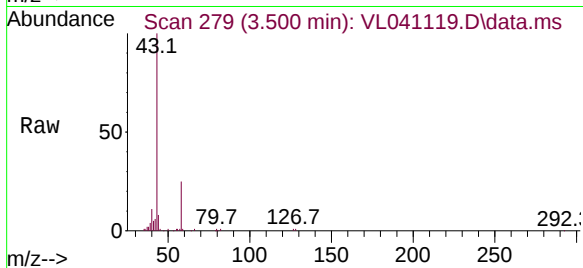
VSTDICC0.5

Tgt Ion: 43 Resp: 82162

Ion Ratio Lower Upper

43 100

58 31.2 21.1 31.7



#16

1,3-Butadiene

Concen: 0.465 ppbv

RT: 2.999 min Scan# 123

Delta R.T. 0.006 min

Lab File: VL041119.D

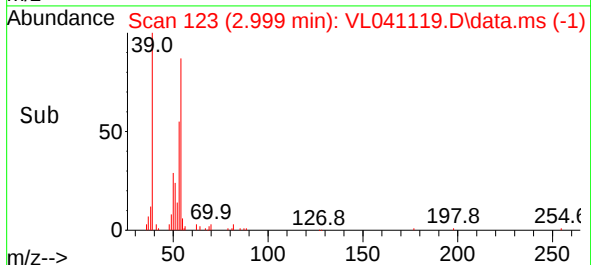
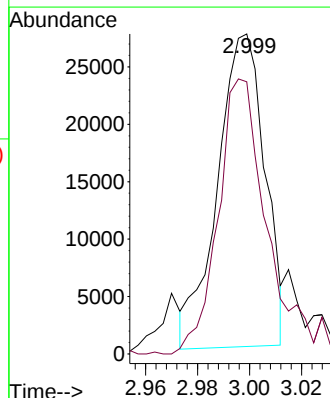
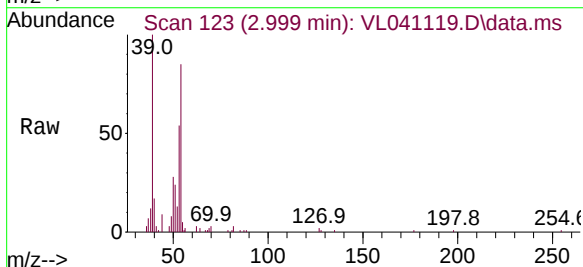
Acq: 4 Apr 2024 8:46

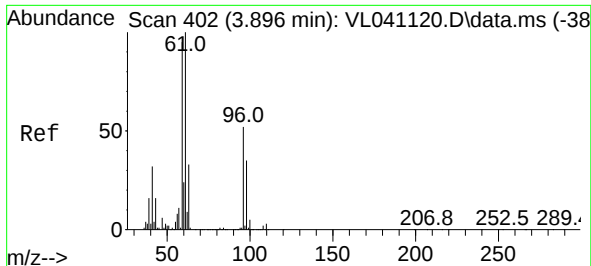
Tgt Ion: 39 Resp: 34571

Ion Ratio Lower Upper

39 100

54 92.4 63.5 95.3





#17

tert-Butyl alcohol

Concen: 0.510 ppbv

RT: 3.915 min Scan# 408

Delta R.T. 0.019 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

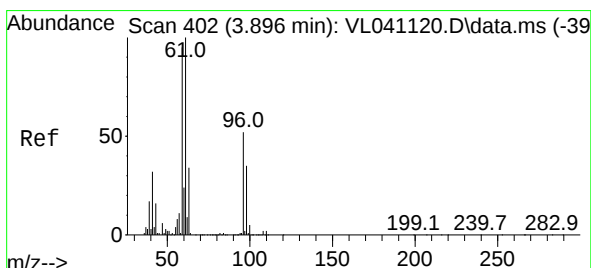
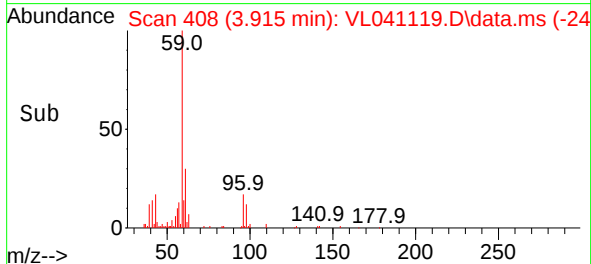
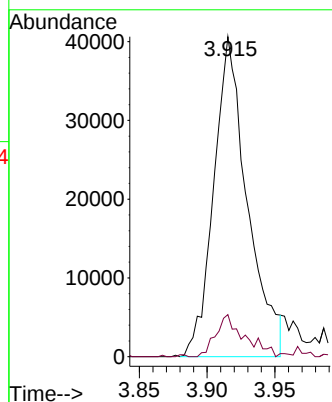
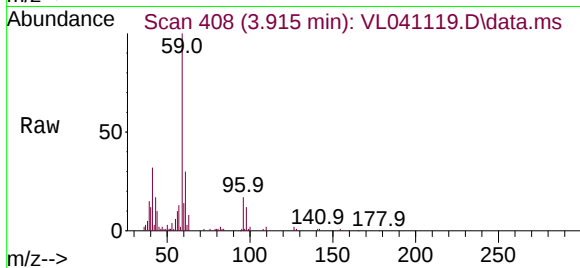
VSTDICC0.5

Tgt Ion: 59 Resp: 70051

Ion Ratio Lower Upper

59 100

57 12.5 8.7 13.1



#18

1,1-Dichloroethene

Concen: 0.282 ppbv

RT: 3.902 min Scan# 404

Delta R.T. 0.006 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

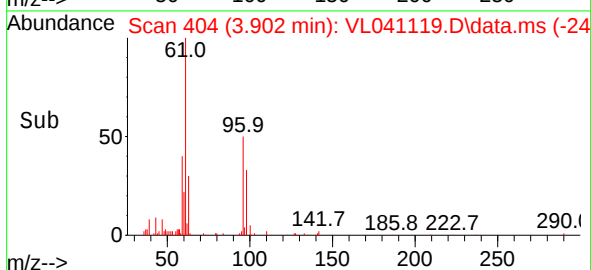
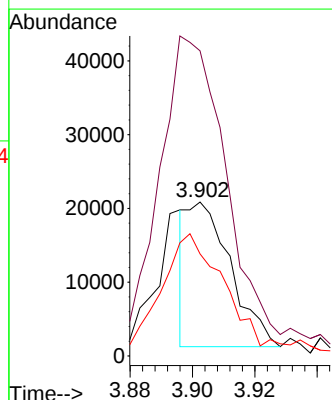
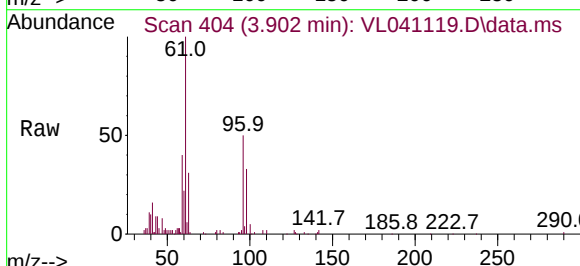
Tgt Ion: 96 Resp: 18890

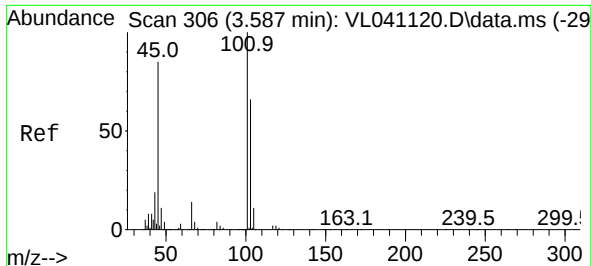
Ion Ratio Lower Upper

96 100

61 196.2 152.6 228.8

98 62.2 54.0 81.0





#19

Isopropyl Alcohol

Concen: 0.405 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.026 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

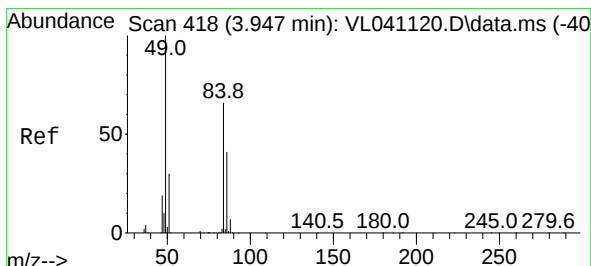
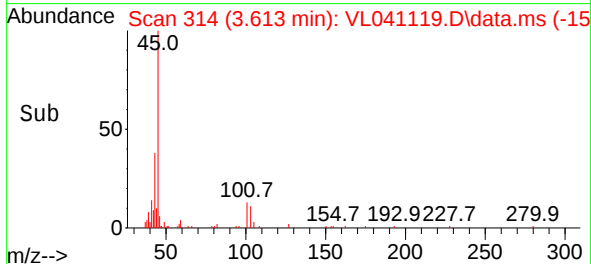
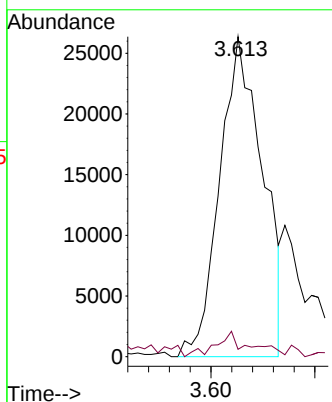
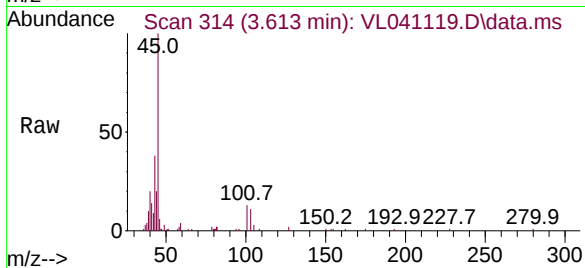
VSTDIC0.5

Tgt Ion: 45 Resp: 37698

Ion Ratio Lower Upper

45 100

58 7.0 2.8 4.2#



#20

Methylene Chloride

Concen: 0.661 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.010 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Tgt Ion: 84 Resp: 41263

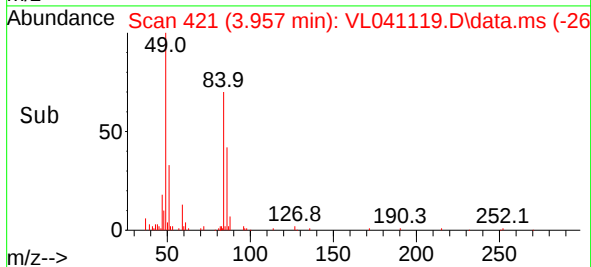
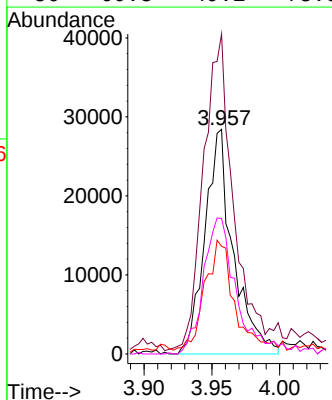
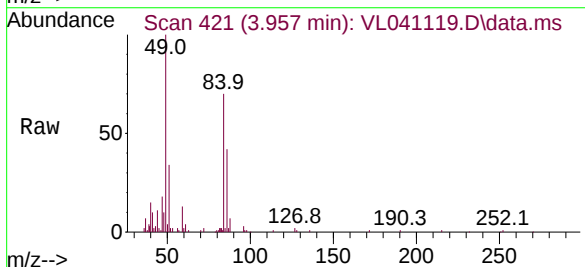
Ion Ratio Lower Upper

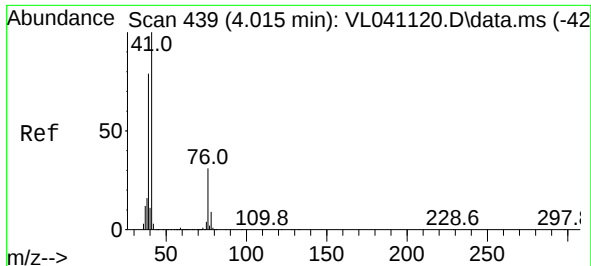
84 100

49 137.1 120.7 181.1

51 45.3 36.6 54.8

86 60.3 49.2 73.8





#21

Allyl Chloride

Concen: 0.484 ppbv

RT: 4.018 min Scan# 440

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

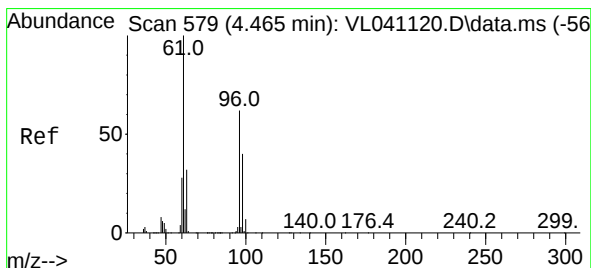
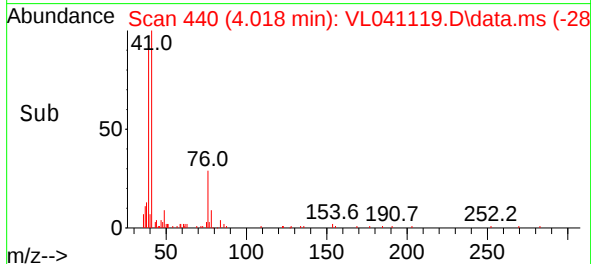
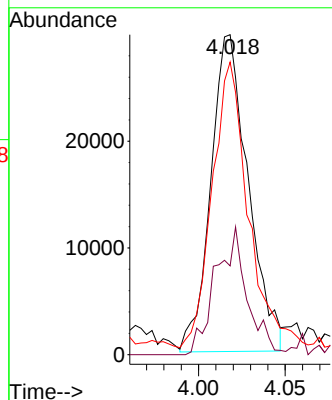
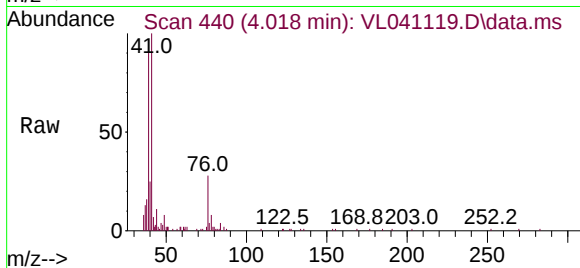
Tgt Ion: 41 Resp: 44615

Ion Ratio Lower Upper

41 100

76 36.1 25.7 38.5

39 92.5 65.7 98.5



#22

trans-1,2-Dichloroethene

Concen: 0.504 ppbv

RT: 4.472 min Scan# 581

Delta R.T. 0.006 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

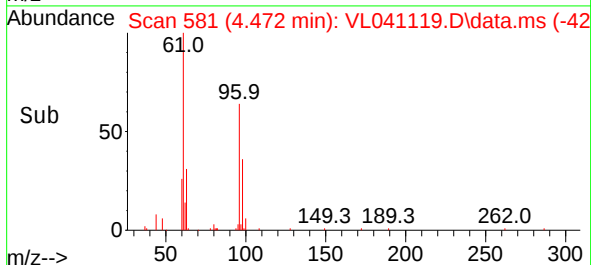
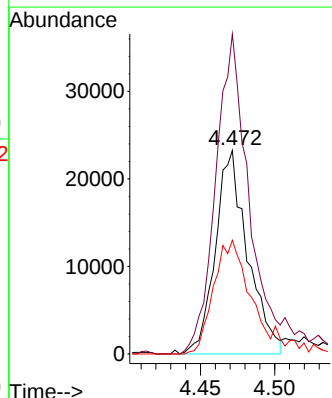
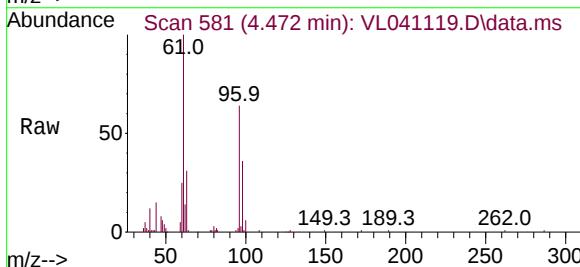
Tgt Ion: 96 Resp: 35189

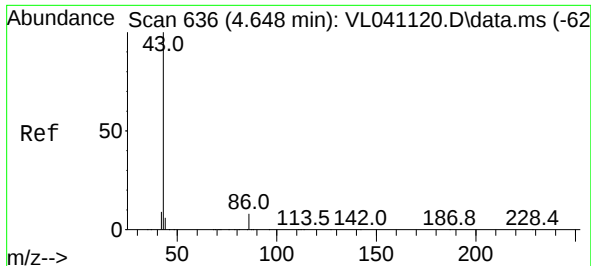
Ion Ratio Lower Upper

96 100

61 157.2 128.4 192.6

98 55.9 51.5 77.3





#23

Vinyl Acetate

Concen: 0.462 ppbv

RT: 4.658 min Scan# 61

Delta R.T. 0.010 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 72572

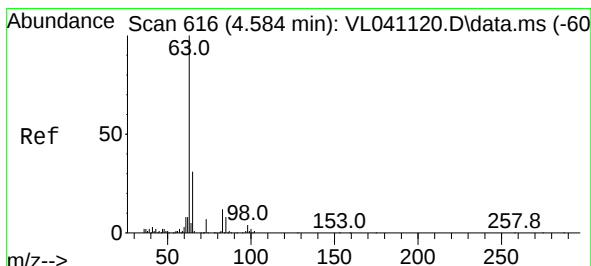
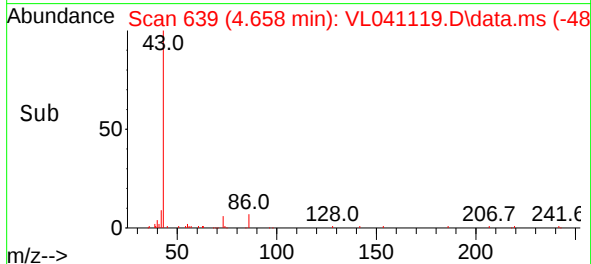
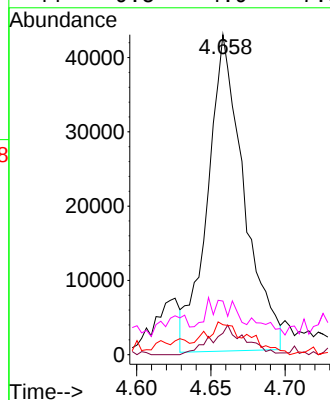
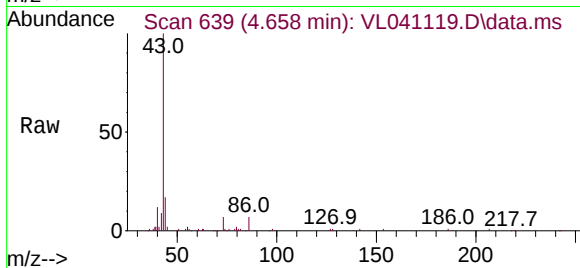
Ion Ratio Lower Upper

43 100

86 7.4 6.2 9.4

42 8.9 7.7 11.5

44 9.5 4.9 7.3#



#24

1,1-Dichloroethane

Concen: 0.547 ppbv

RT: 4.587 min Scan# 617

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

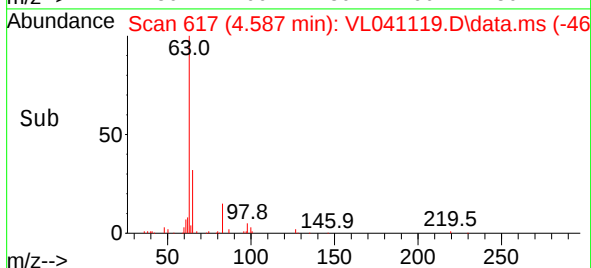
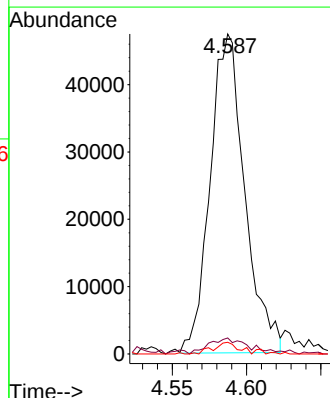
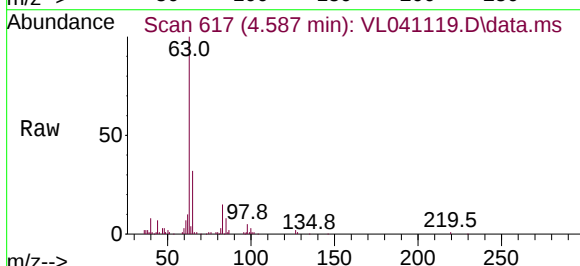
Tgt Ion: 63 Resp: 76901

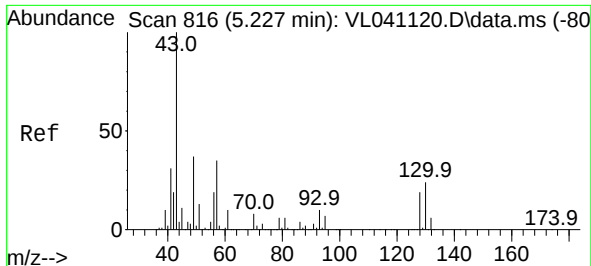
Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.3

100 3.7 1.1 3.3#





#25

Ethyl Acetate

Concen: 0.509 ppbv

RT: 5.243 min Scan# 816

Delta R.T. 0.016 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 144571

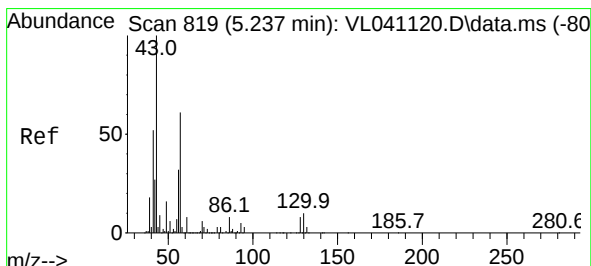
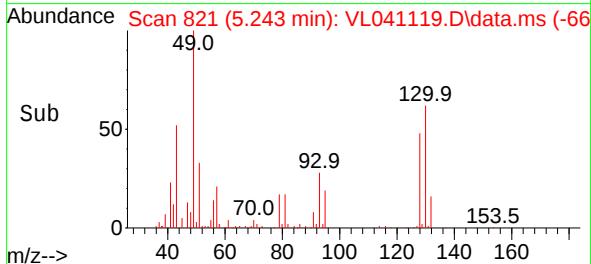
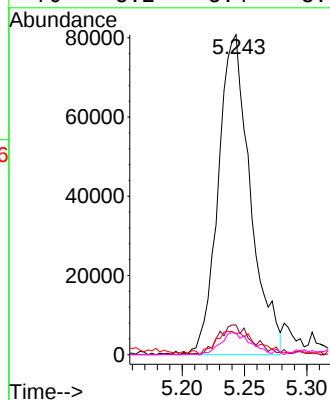
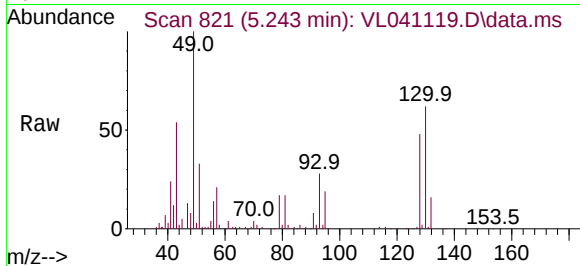
Ion Ratio Lower Upper

43 100

45 10.6 8.0 12.0

61 10.5 7.8 11.6

70 8.2 5.4 8.0#



#26

Hexane

Concen: 0.472 ppbv

RT: 5.237 min Scan# 819

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Tgt Ion: 57 Resp: 60228

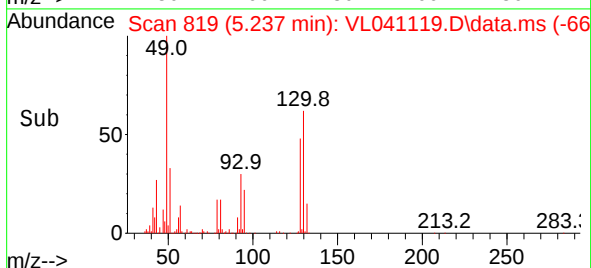
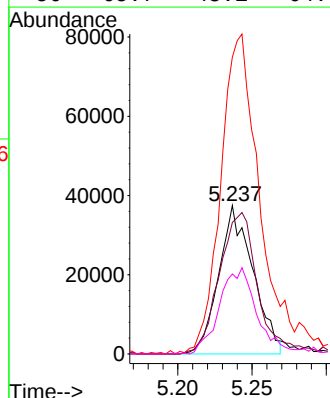
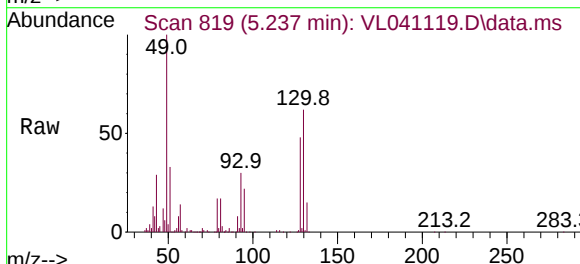
Ion Ratio Lower Upper

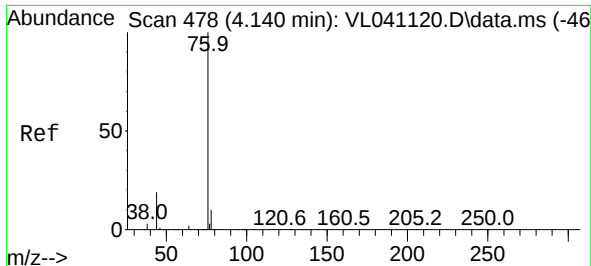
57 100

41 106.6 73.8 110.8

43 263.9 186.2 279.2

56 65.7 43.1 64.7#

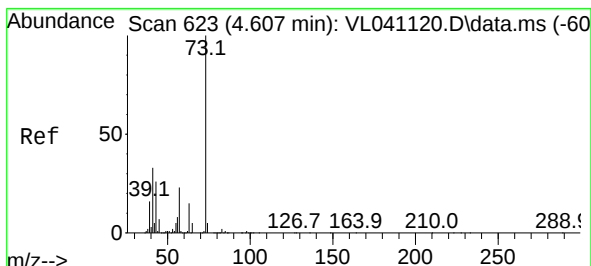
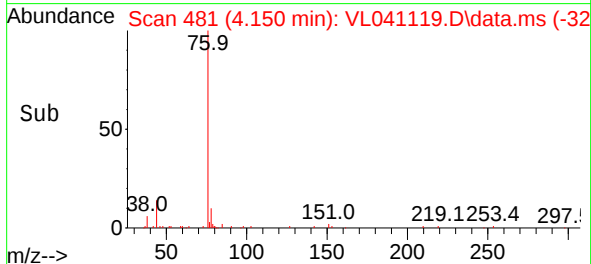
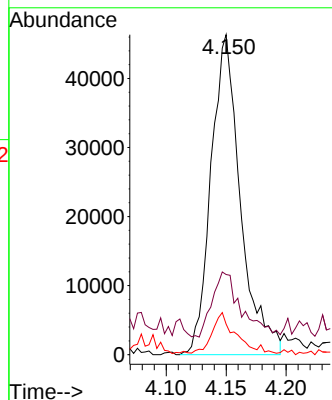
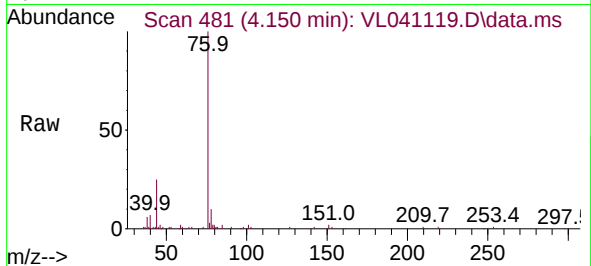




#27  
Carbon Disulfide  
Concen: 0.511 ppbv  
RT: 4.150 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

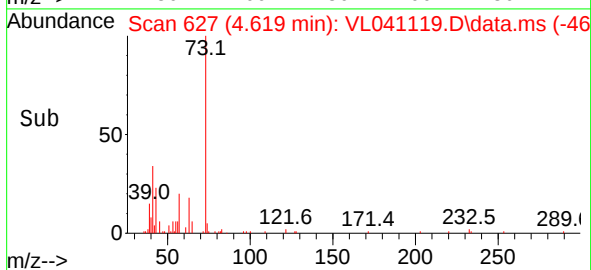
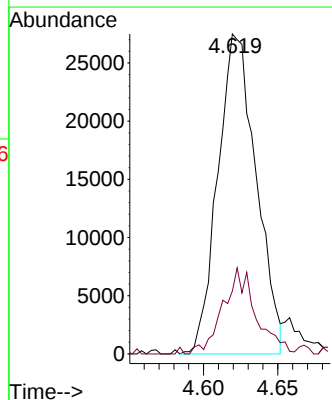
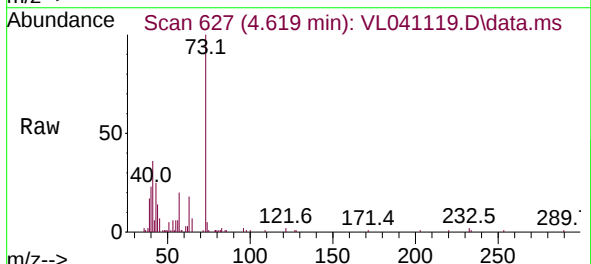
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.5

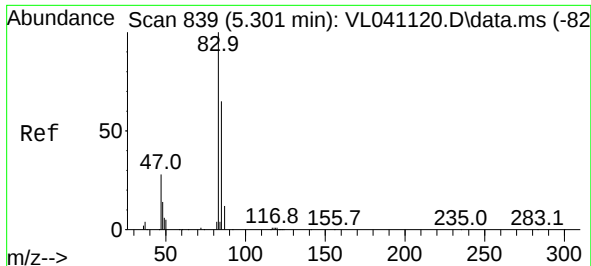
Tgt Ion: 76 Resp: 79167  
Ion Ratio Lower Upper  
76 100  
44 18.1 16.3 24.5  
78 11.6 7.9 11.9



#28  
Methyl tert-Butyl Ether  
Concen: 0.514 ppbv  
RT: 4.619 min Scan# 627  
Delta R.T. 0.013 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 73 Resp: 49487  
Ion Ratio Lower Upper  
73 100  
57 24.5 18.6 27.8





#29

Chloroform

Concen: 0.533 ppbv

RT: 5.304 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

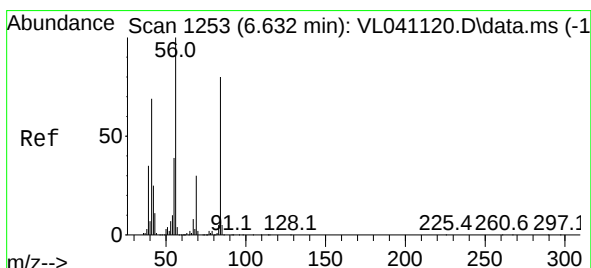
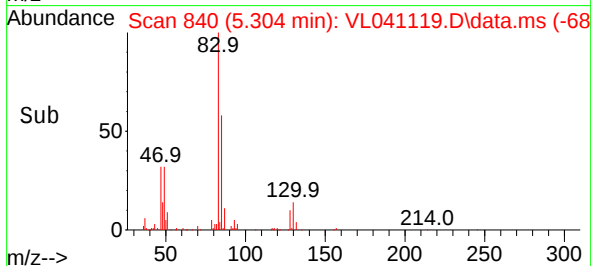
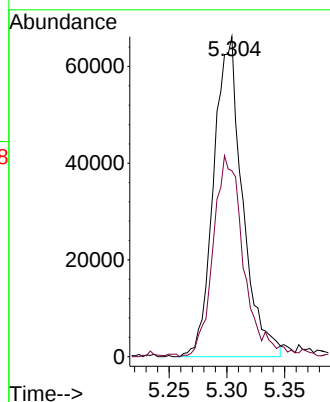
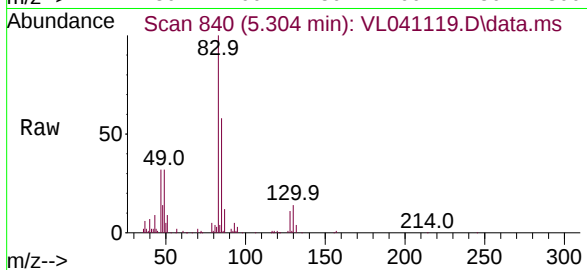
VSTDICC0.5

Tgt Ion: 83 Resp: 114616

Ion Ratio Lower Upper

83 100

85 58.1 51.5 77.3



#30

Cyclohexane

Concen: 0.194 ppbv

RT: 6.629 min Scan# 1252

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

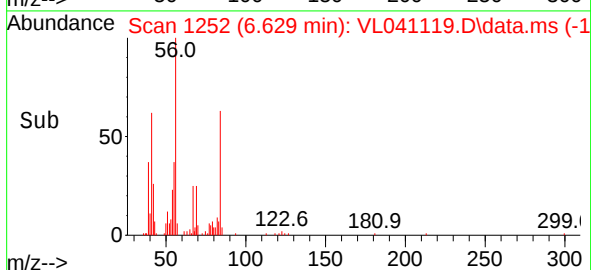
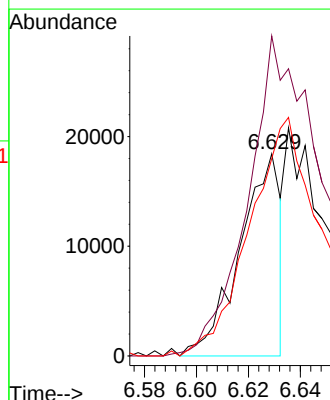
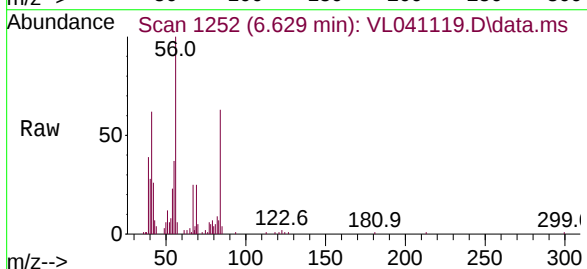
Tgt Ion: 84 Resp: 19859

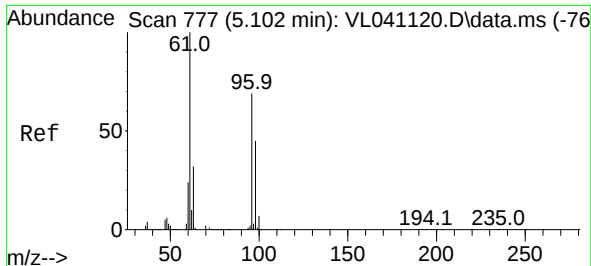
Ion Ratio Lower Upper

84 100

56 286.8 111.9 167.9#

41 0.0 71.0 106.6#

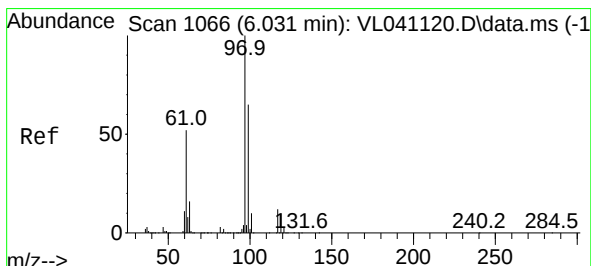
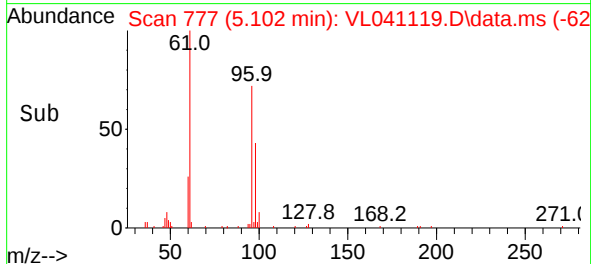
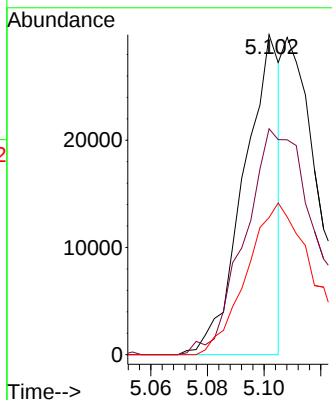
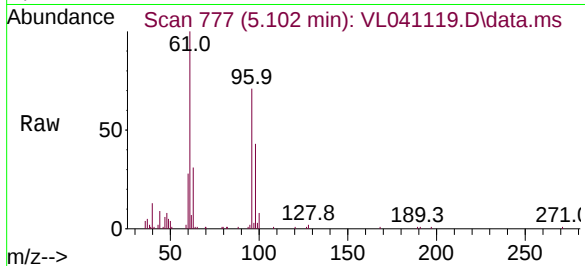




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.219 ppbv  
 RT: 5.102 min Scan# 777  
 Delta R.T. -0.000 min  
 Lab File: VL041119.D  
 Acq: 4 Apr 2024 8:46

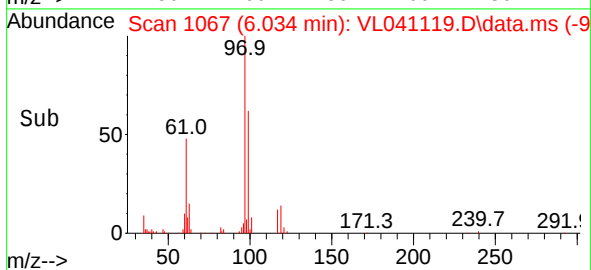
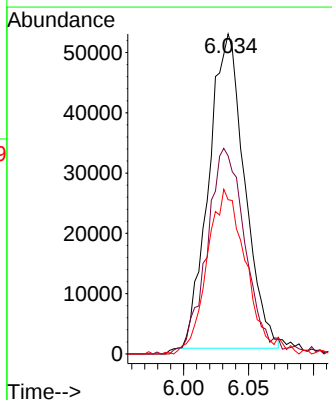
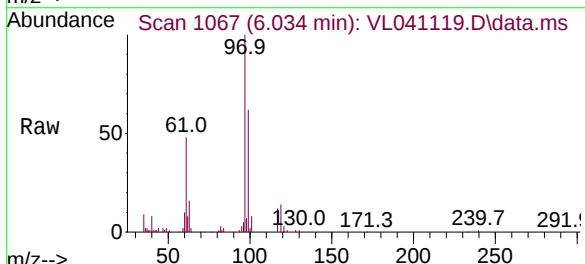
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

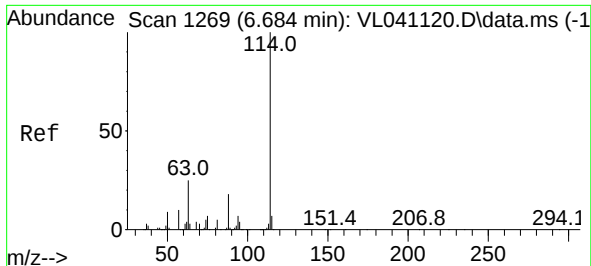
Tgt Ion: 61 Resp: 26493  
 Ion Ratio Lower Upper  
 61 100  
 96 66.2 54.9 82.3  
 98 40.2 35.9 53.9



#32  
 1,1,1-Trichloroethane  
 Concen: 0.503 ppbv  
 RT: 6.034 min Scan# 1067  
 Delta R.T. 0.003 min  
 Lab File: VL041119.D  
 Acq: 4 Apr 2024 8:46

Tgt Ion: 97 Resp: 99881  
 Ion Ratio Lower Upper  
 97 100  
 99 71.4 52.0 78.0  
 61 57.0 40.5 60.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.684 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

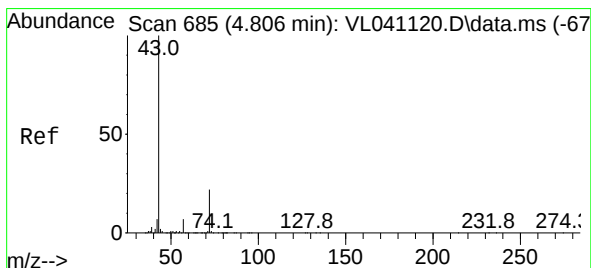
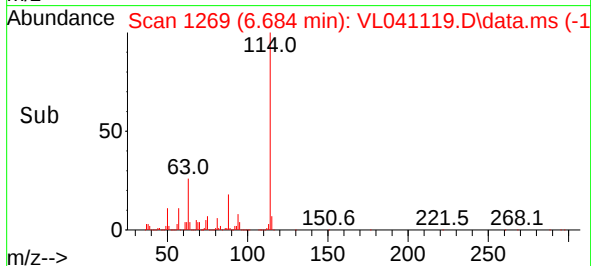
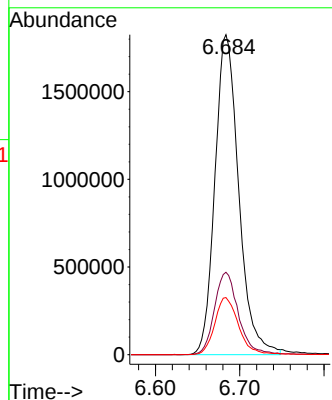
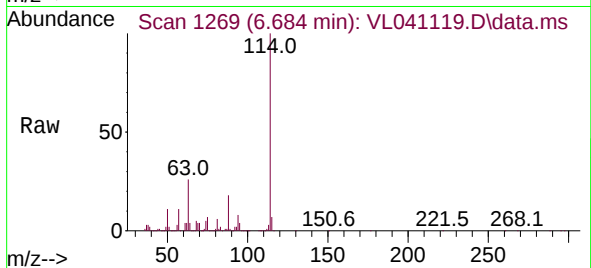
Tgt Ion:114 Resp: 3576867

Ion Ratio Lower Upper

114 100

63 26.2 20.9 31.3

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 0.521 ppbv

RT: 4.828 min Scan# 692

Delta R.T. 0.022 min

Lab File: VL041119.D

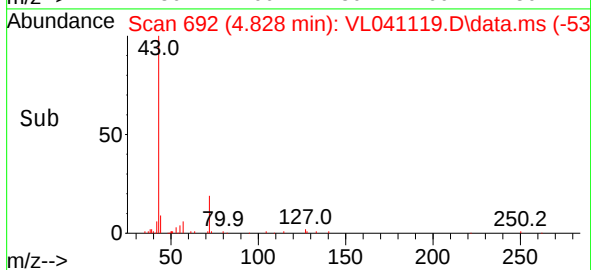
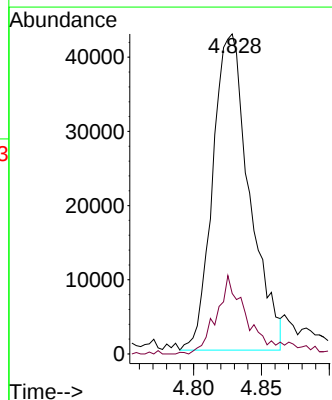
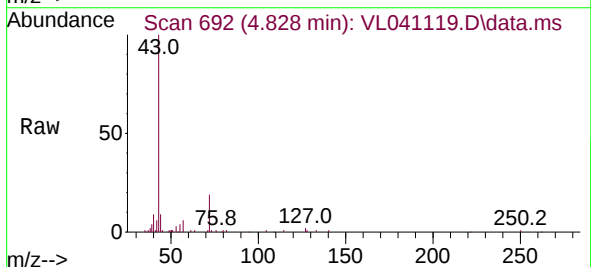
Acq: 4 Apr 2024 8:46

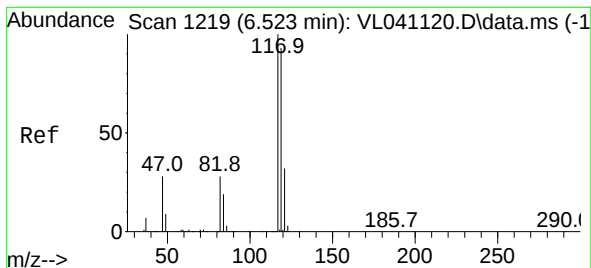
Tgt Ion: 43 Resp: 80499

Ion Ratio Lower Upper

43 100

72 23.3 17.6 26.4





#35

Carbon Tetrachloride

Concen: 0.518 ppbv

RT: 6.520 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

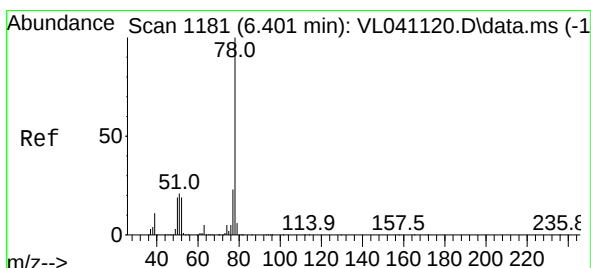
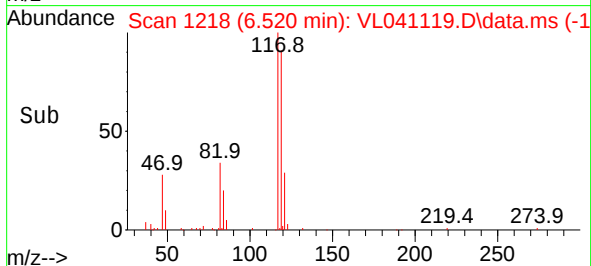
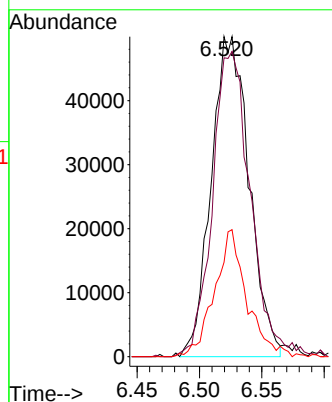
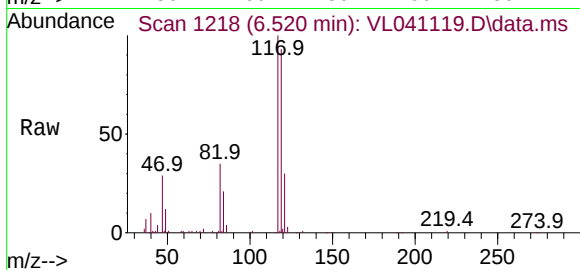
Tgt Ion:117 Resp: 105811

Ion Ratio Lower Upper

117 100

119 92.1 74.2 111.4

121 28.5 25.4 38.2



#36

Benzene

Concen: 0.474 ppbv

RT: 6.404 min Scan# 1182

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

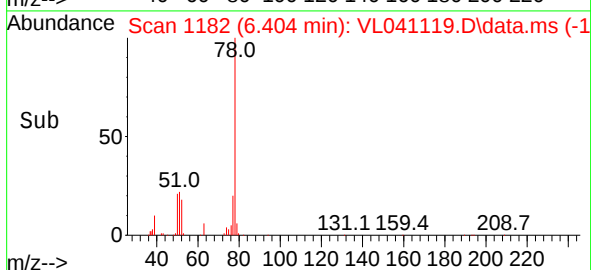
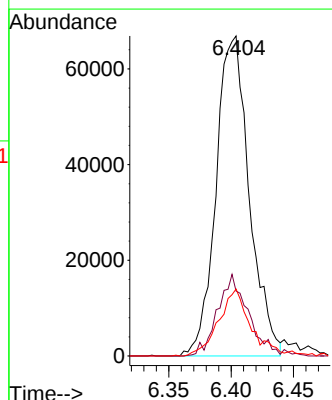
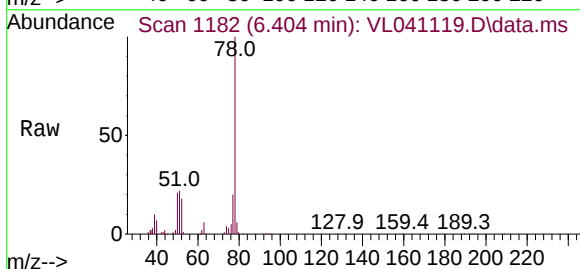
Tgt Ion: 78 Resp: 124334

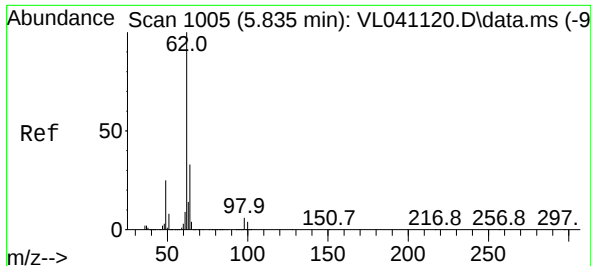
Ion Ratio Lower Upper

78 100

77 20.3 18.2 27.4

50 20.9 15.4 23.2





#37

1,2-Dichloroethane

Concen: 0.528 ppbv

RT: 5.832 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

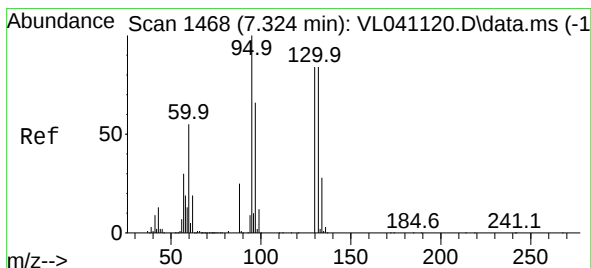
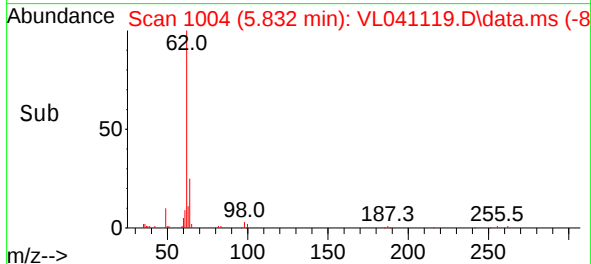
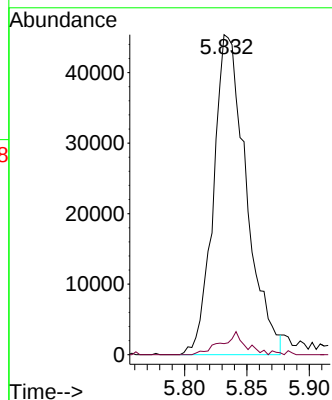
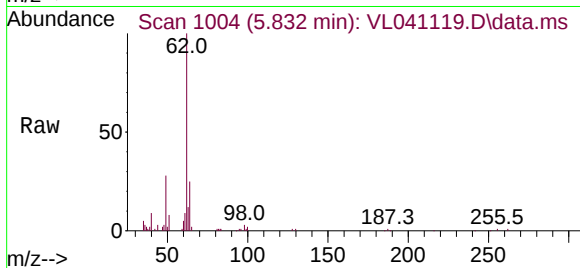
VSTDICC0.5

Tgt Ion: 62 Resp: 83240

Ion Ratio Lower Upper

62 100

98 5.6 4.6 7.0



#38

Trichloroethene

Concen: 0.485 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Tgt Ion:130 Resp: 46228

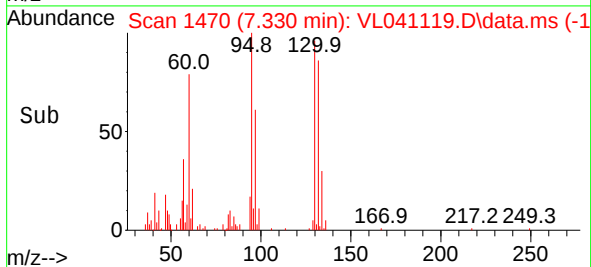
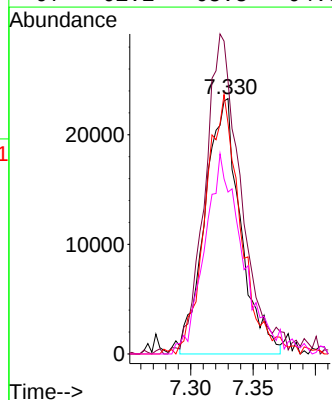
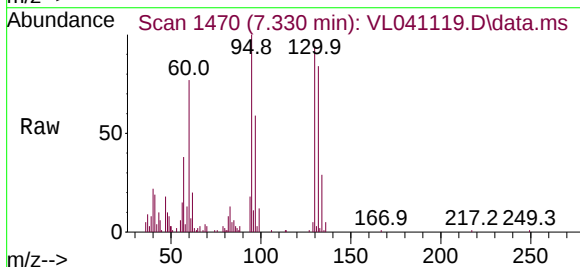
Ion Ratio Lower Upper

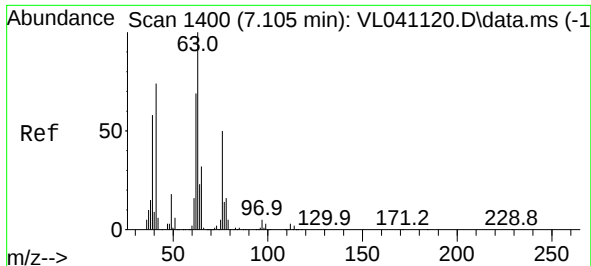
130 100

95 108.2 95.4 143.0

132 91.3 80.0 120.0

97 61.2 63.3 94.9#





#39

1,2-Dichloropropane

Concen: 0.339 ppbv

RT: 7.102 min Scan# 1400

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

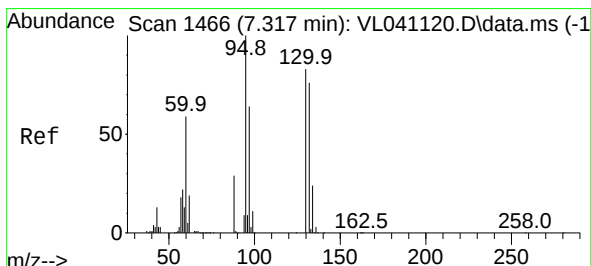
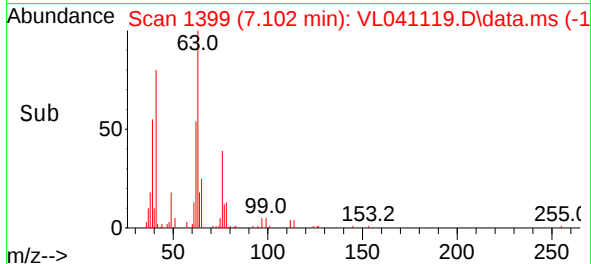
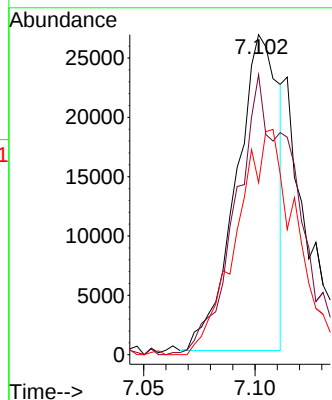
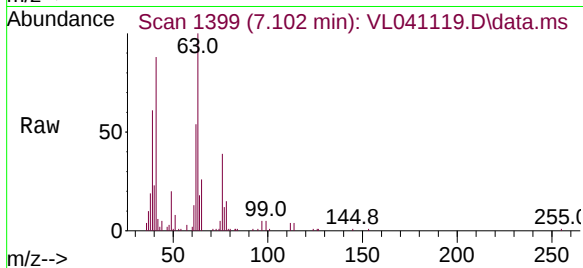
Tgt Ion: 63 Resp: 35348

Ion Ratio Lower Upper

63 100

41 88.0 58.7 88.1

62 54.5 55.5 83.3#



#40

1,4-Dioxane

Concen: 0.002 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Tgt Ion: 88 Resp: 89

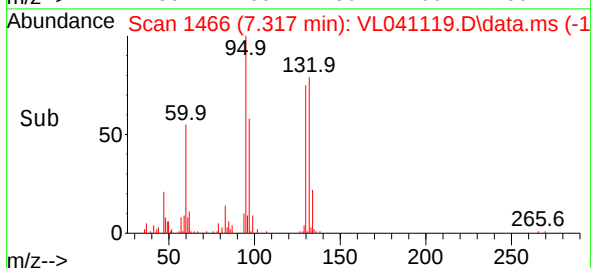
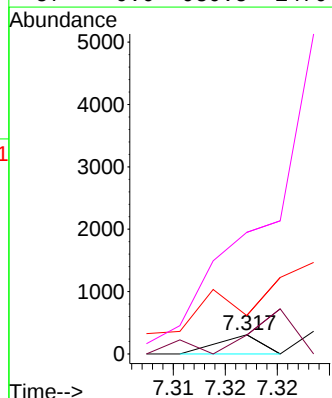
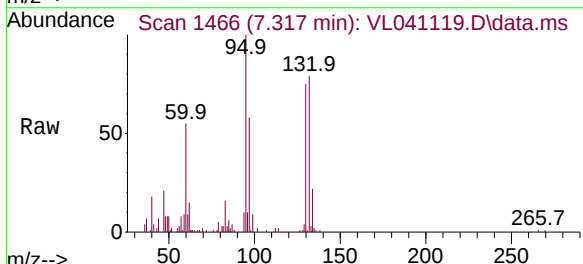
Ion Ratio Lower Upper

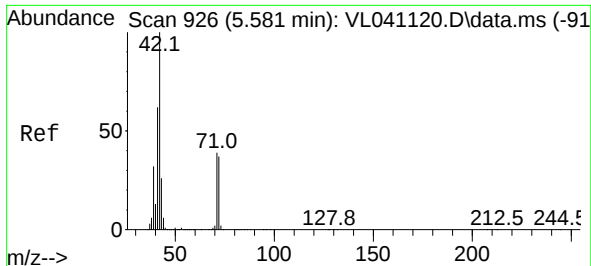
88 100

58 0.0 107.8 161.6#

43 0.0 223.8 335.6#

57 0.0 980.5 1470.7#





#41

Tetrahydrofuran

Concen: 0.209 ppbv

RT: 5.610 min Scan# 91

Delta R.T. 0.029 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

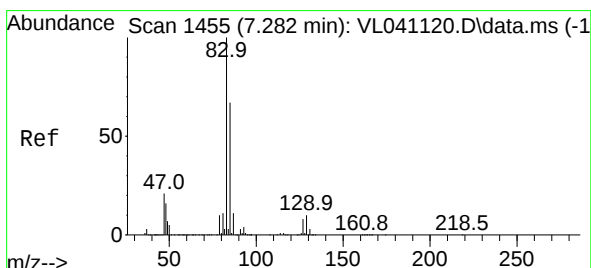
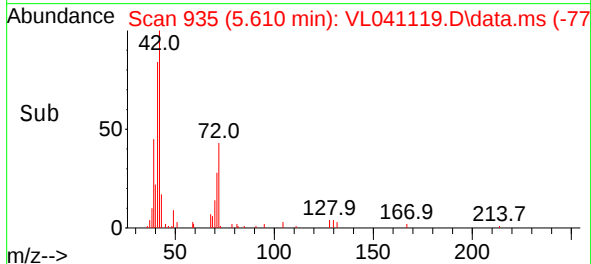
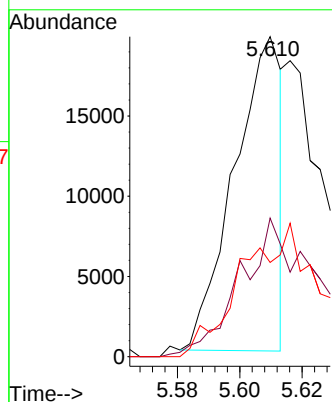
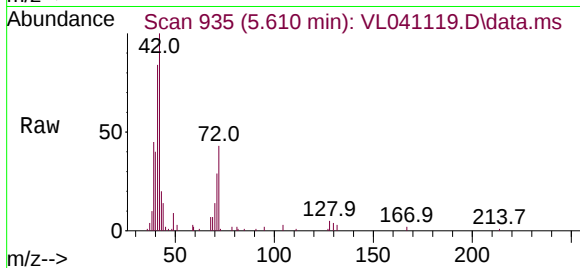
Tgt Ion: 42 Resp: 20633

Ion Ratio Lower Upper

42 100

72 82.7 31.2 46.8#

71 0.0 29.9 44.9#



#42

Bromodichloromethane

Concen: 0.487 ppbv

RT: 7.278 min Scan# 1454

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

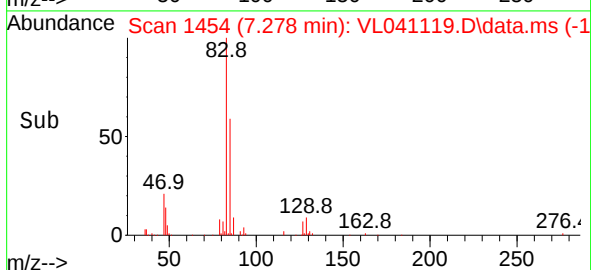
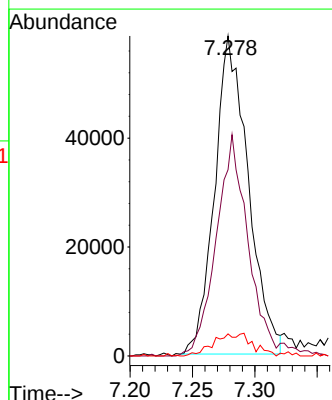
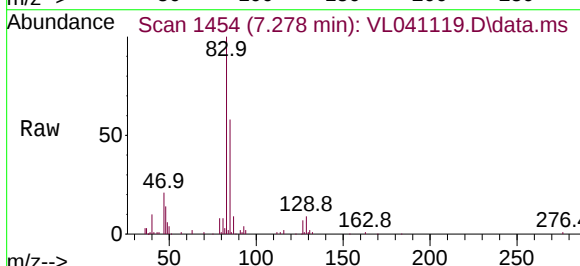
Tgt Ion: 83 Resp: 109738

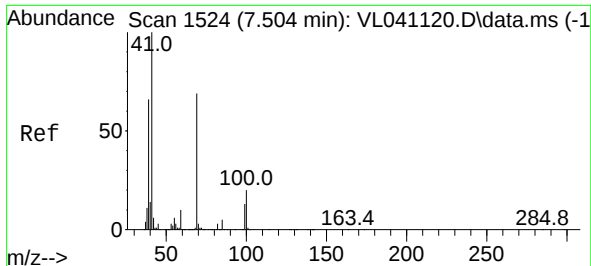
Ion Ratio Lower Upper

83 100

85 59.0 53.5 80.3

127 8.0 6.2 9.4





#43

Methyl Methacrylate

Concen: 0.067 ppbv

RT: 7.497 min Scan# 1480

Delta R.T. -0.007 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

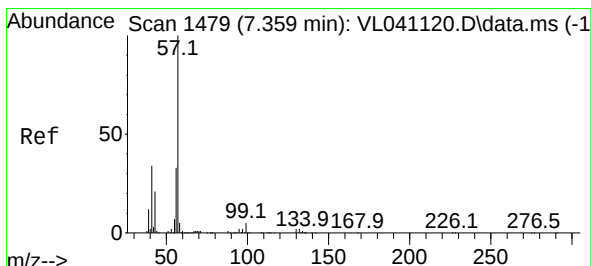
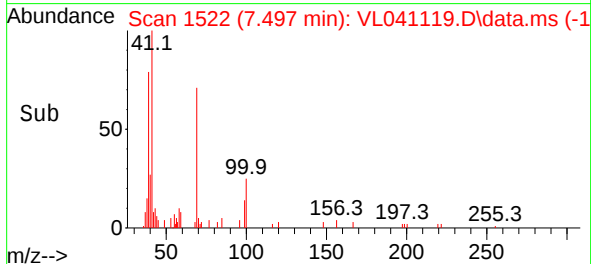
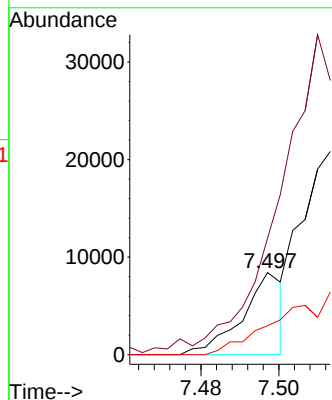
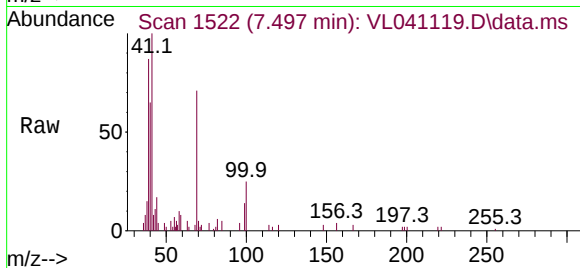
Tgt Ion: 69 Resp: 6068

Ion Ratio Lower Upper

69 100

41 0.0 119.2 178.8#

100 0.0 24.6 37.0#



#44

2,2,4-Trimethylpentane

Concen: 0.475 ppbv

RT: 7.362 min Scan# 1480

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

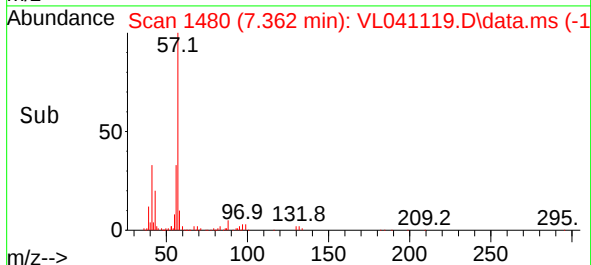
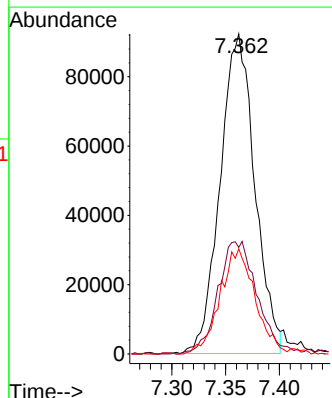
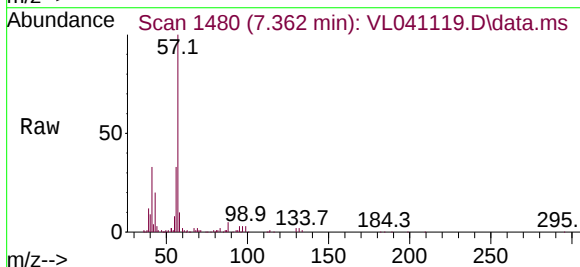
Tgt Ion: 57 Resp: 206574

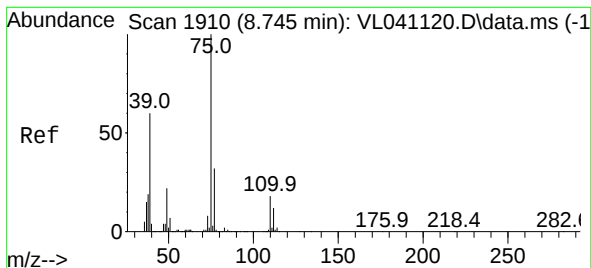
Ion Ratio Lower Upper

57 100

41 40.4 28.2 42.2

56 34.1 25.2 37.8





#45

t-1,3-Dichloropropene

Concen: 0.310 ppbv

RT: 8.745 min Scan# 1910

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

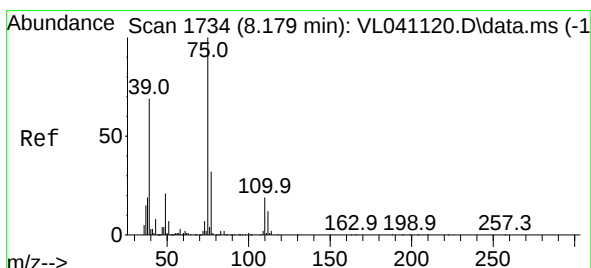
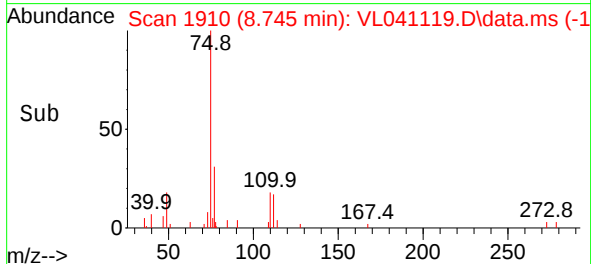
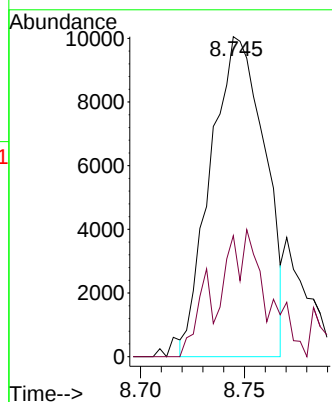
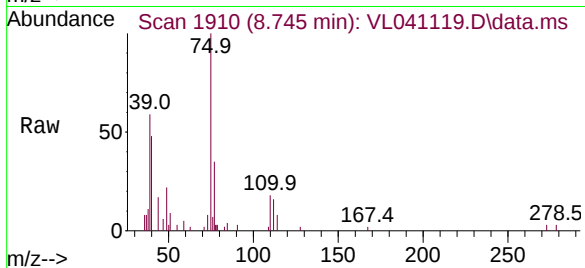
VSTDIC0.5

Tgt Ion: 75 Resp: 18192

Ion Ratio Lower Upper

75 100

77 37.8 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 0.194 ppbv

RT: 8.172 min Scan# 1732

Delta R.T. -0.007 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

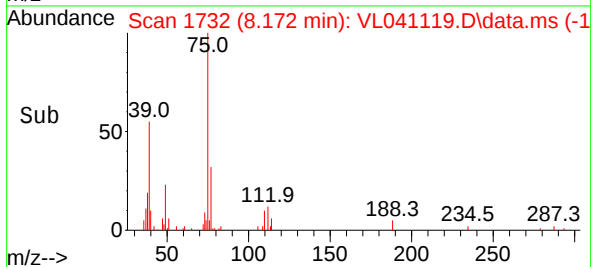
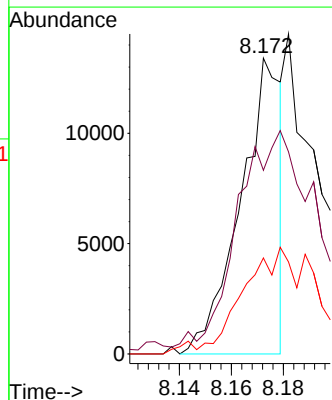
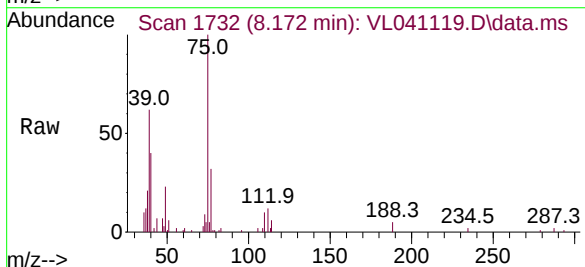
Tgt Ion: 75 Resp: 14486

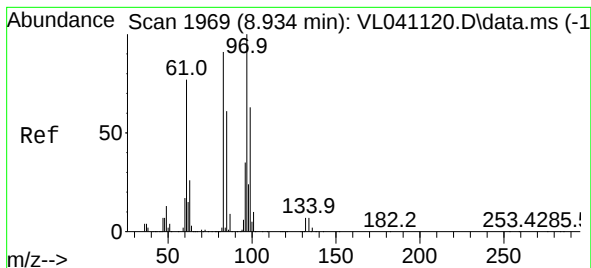
Ion Ratio Lower Upper

75 100

39 58.6 55.1 82.7

77 30.0 25.2 37.8





#47

1,1,2-Trichloroethane

Concen: 0.481 ppbv

RT: 8.934 min Scan# 1969

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 97 Resp: 53862

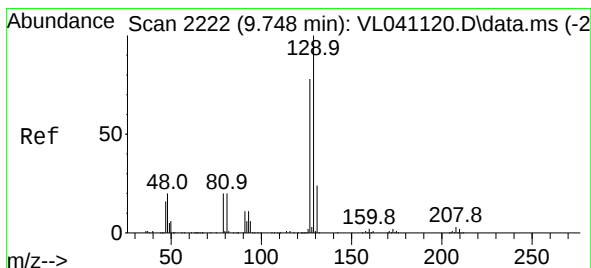
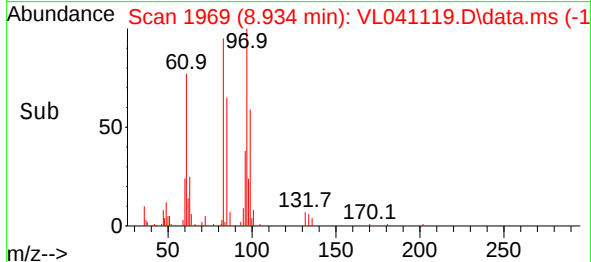
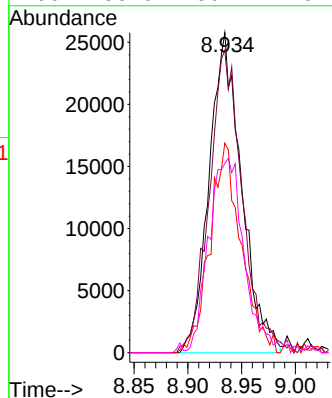
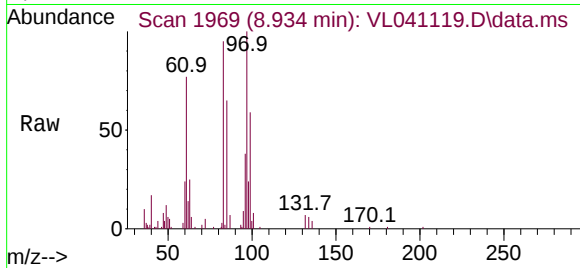
Ion Ratio Lower Upper

97 100

83 92.6 72.9 109.3

85 65.5 49.1 73.7

99 56.0 50.7 76.1



#48

Dibromochloromethane

Concen: 0.435 ppbv

RT: 9.745 min Scan# 2221

Delta R.T. -0.003 min

Lab File: VL041119.D

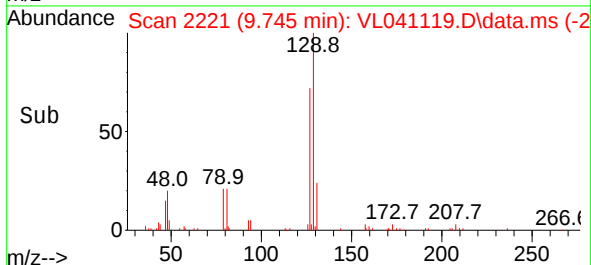
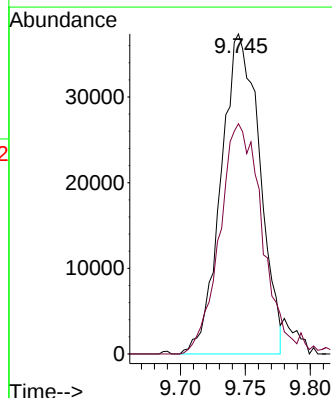
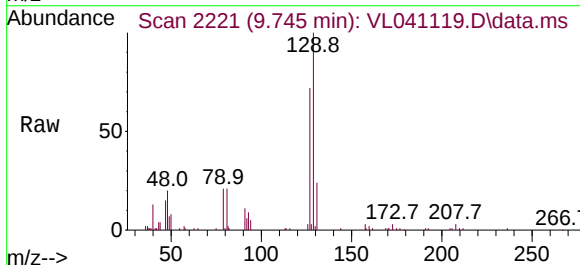
Acq: 4 Apr 2024 8:46

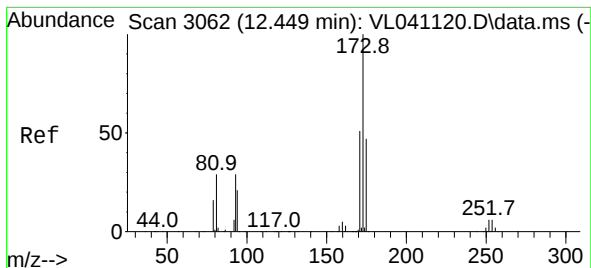
Tgt Ion: 129 Resp: 77253

Ion Ratio Lower Upper

129 100

127 80.8 39.3 117.9





#49

Bromoform

Concen: 0.401 ppbv

RT: 12.442 min Scan# 3060

Delta R.T. -0.007 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

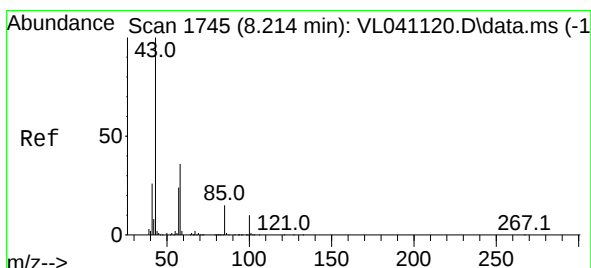
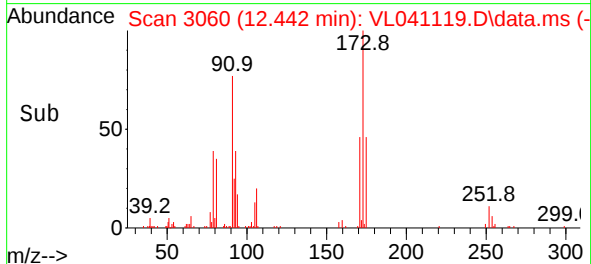
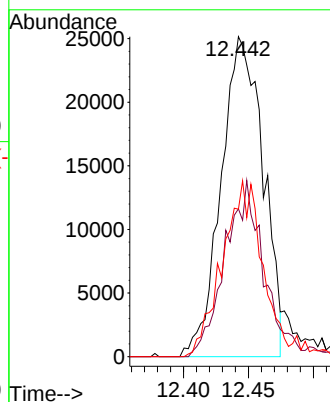
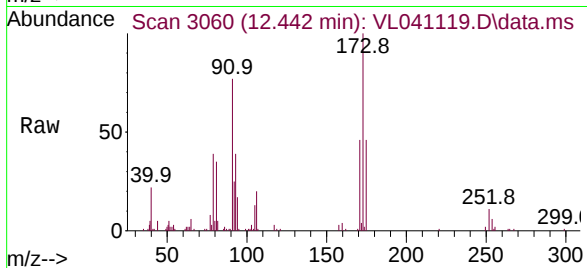
Tgt Ion:173 Resp: 56428

Ion Ratio Lower Upper

173 100

175 51.7 39.4 59.0

171 55.3 42.9 64.3



#50

4-Methyl-2-Pentanone

Concen: 0.397 ppbv

RT: 8.240 min Scan# 1753

Delta R.T. 0.026 min

Lab File: VL041119.D

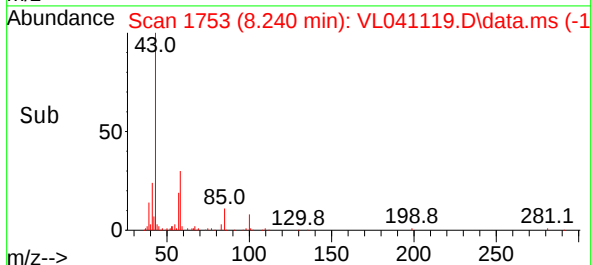
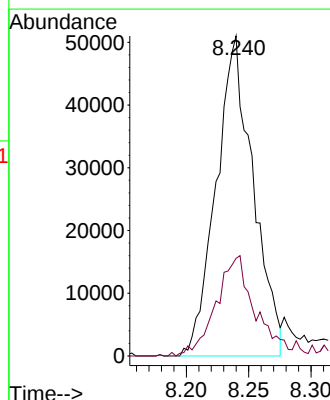
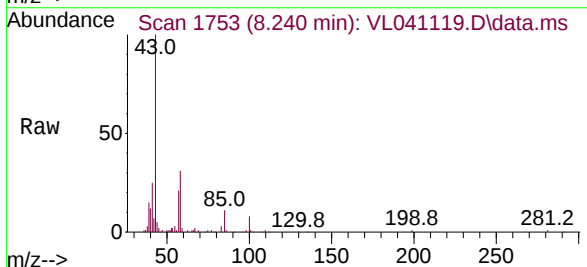
Acq: 4 Apr 2024 8:46

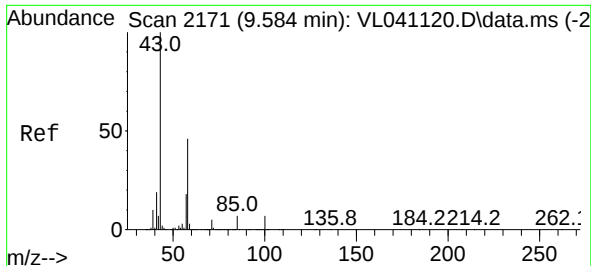
Tgt Ion: 43 Resp: 105271

Ion Ratio Lower Upper

43 100

58 33.5 27.7 41.5

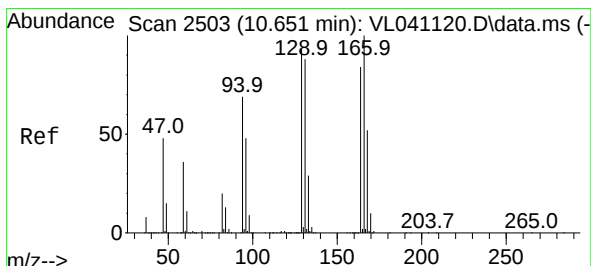
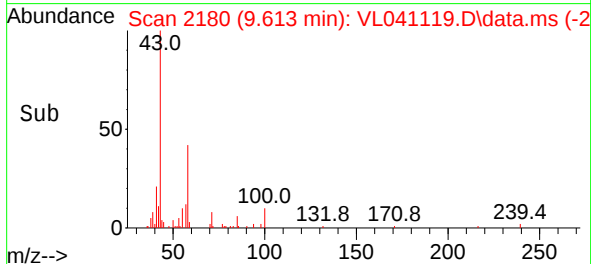
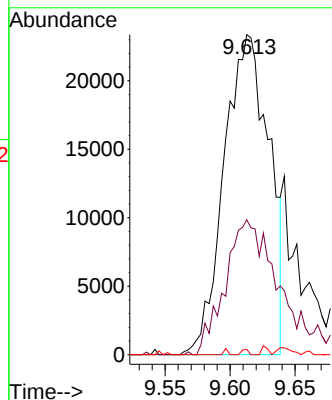
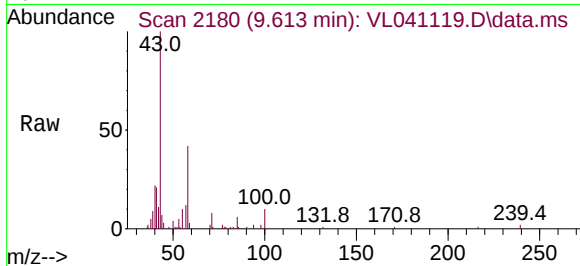




#51  
2-Hexanone  
Concen: 0.305 ppbv  
RT: 9.613 min Scan# 2171  
Delta R.T. 0.029 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

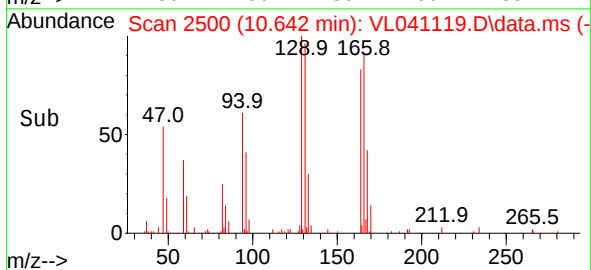
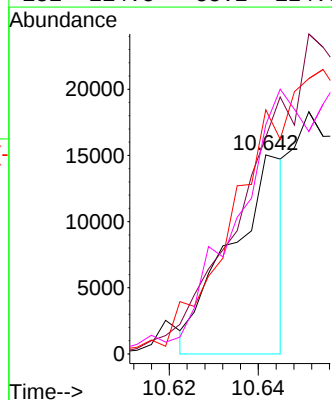
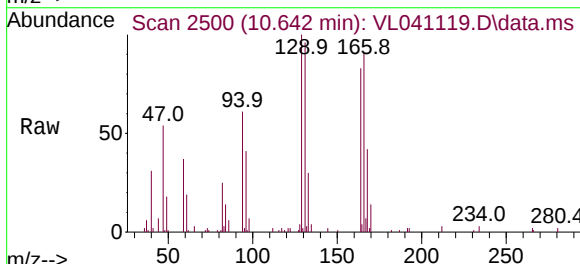
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

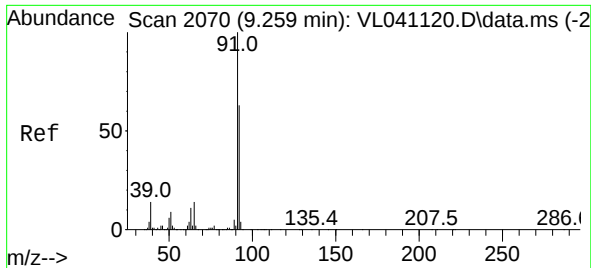
Tgt Ion: 43 Resp: 56069  
Ion Ratio Lower Upper  
43 100  
58 51.5 37.3 55.9  
98 0.4 0.3 0.5



#52  
Tetrachloroethene  
Concen: 0.149 ppbv  
RT: 10.642 min Scan# 2500  
Delta R.T. -0.010 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 164 Resp: 12532  
Ion Ratio Lower Upper  
164 100  
166 101.2 95.0 142.6  
129 103.6 88.7 133.1  
131 114.8 83.2 124.8





#53

Toluene

Concen: 0.395 ppbv

RT: 9.259 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

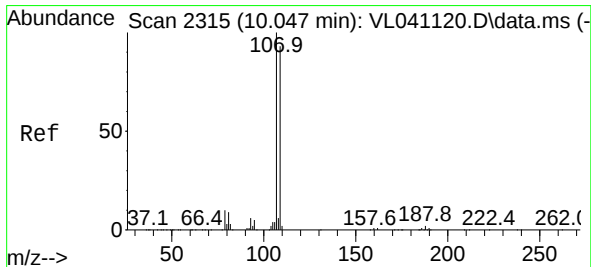
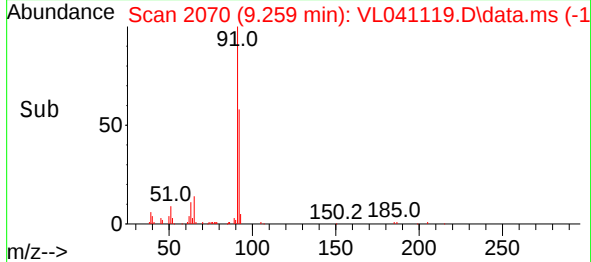
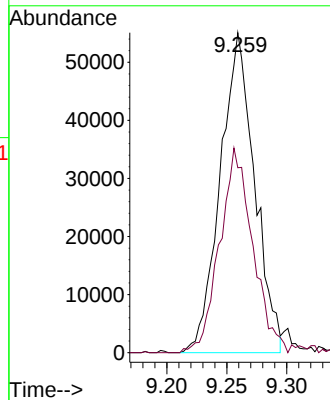
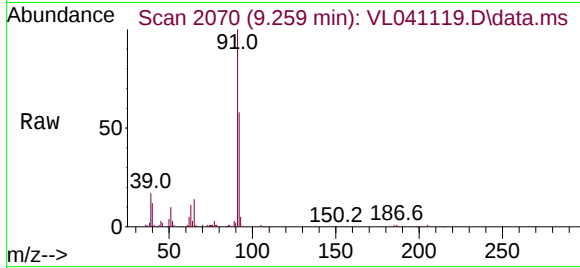
VSTDIC0.5

Tgt Ion: 91 Resp: 109603

Ion Ratio Lower Upper

91 100

92 62.9 49.0 73.4



#54

1,2-Dibromoethane

Concen: 0.475 ppbv

RT: 10.047 min Scan# 2315

Delta R.T. -0.000 min

Lab File: VL041119.D

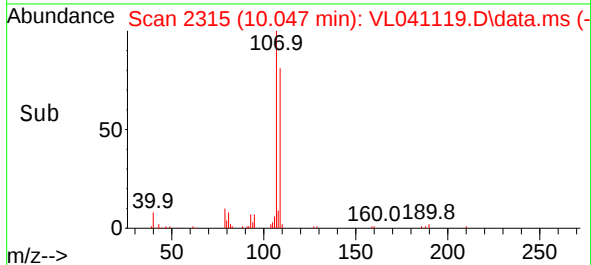
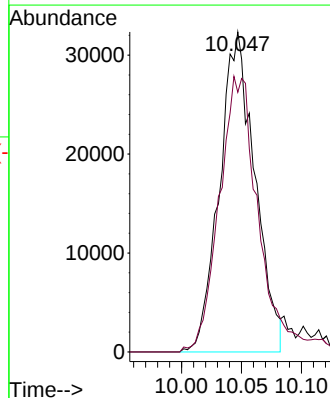
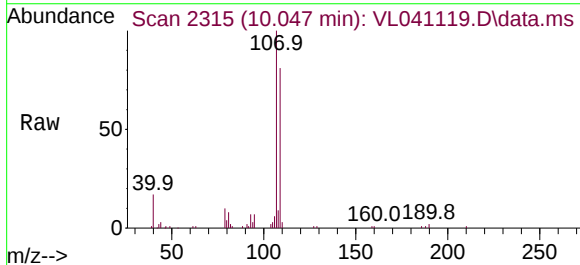
Acq: 4 Apr 2024 8:46

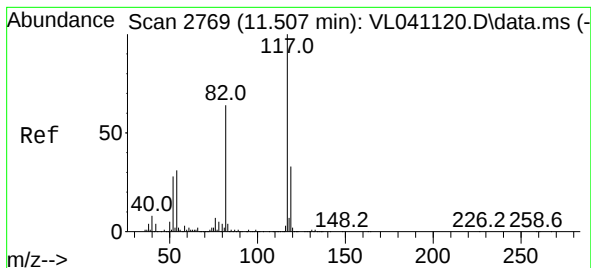
Tgt Ion: 107 Resp: 66334

Ion Ratio Lower Upper

107 100

109 81.1 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.503 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

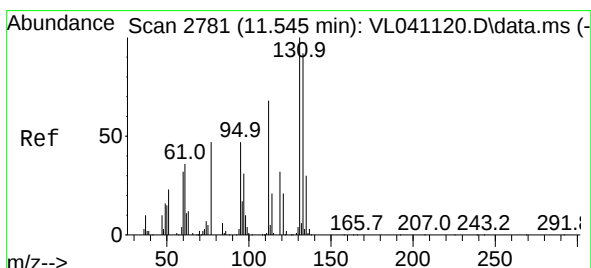
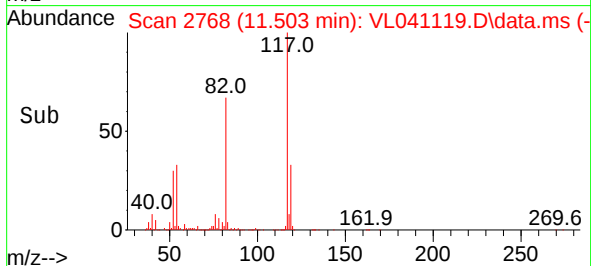
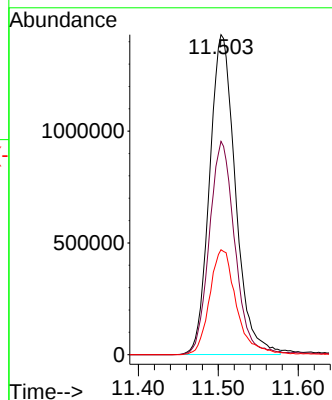
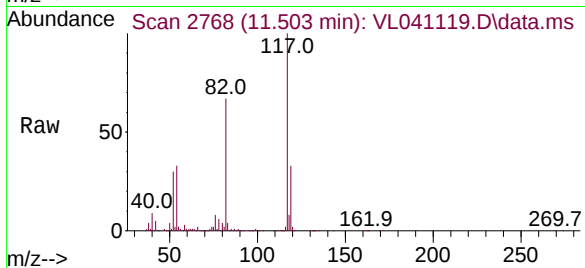
Tgt Ion:117 Resp: 3217481

Ion Ratio Lower Upper

117 100

82 67.4 51.0 76.6

119 34.4 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.339 ppbv

RT: 11.545 min Scan# 2781

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

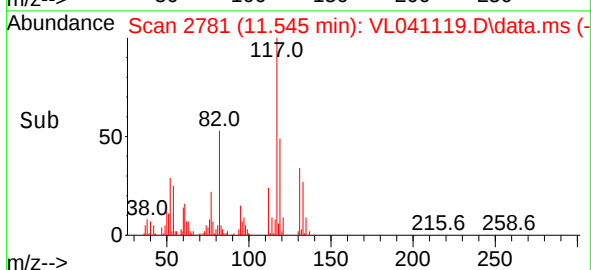
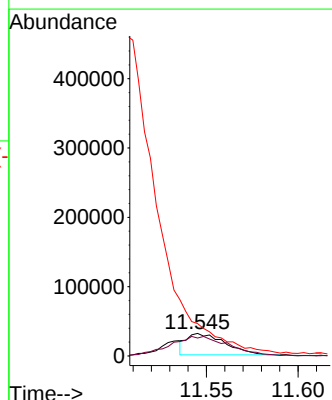
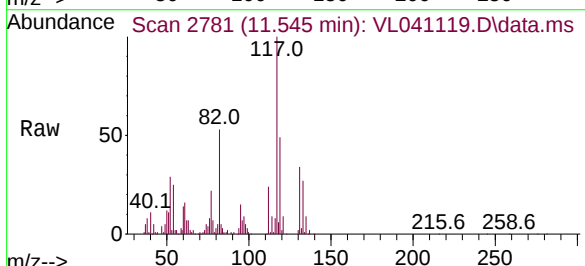
Tgt Ion:131 Resp: 44558

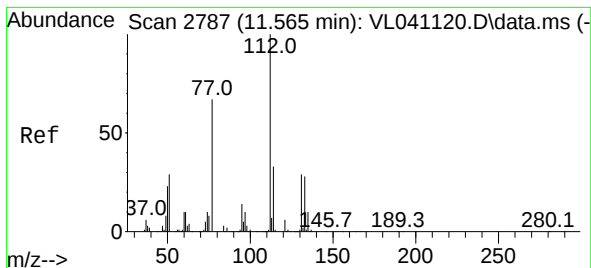
Ion Ratio Lower Upper

131 100

133 145.8 76.6 115.0#

119 2482.6 49.9 74.9#





#57

Chlorobenzene

Concen: 0.521 ppbv

RT: 11.561 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

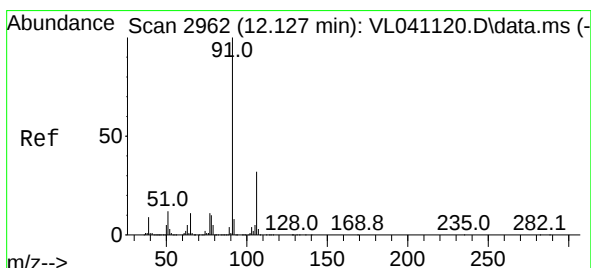
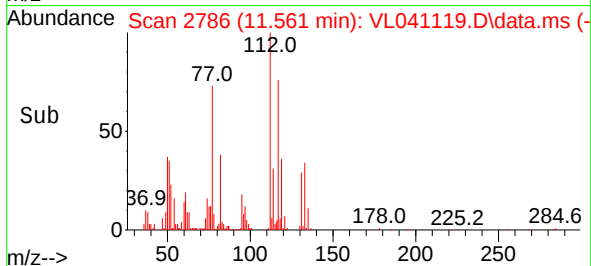
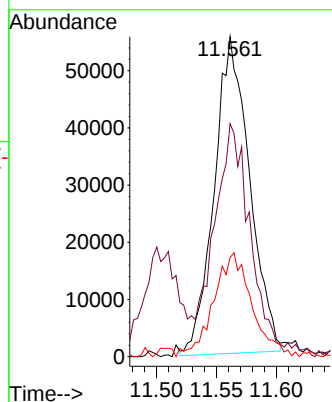
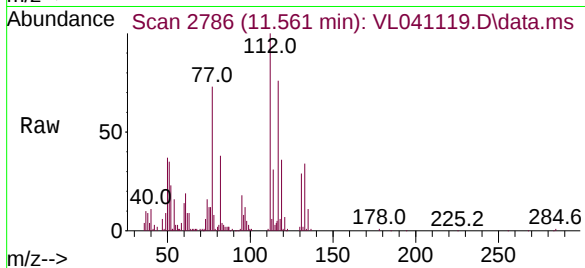
Tgt Ion:112 Resp: 113448

Ion Ratio Lower Upper

112 100

77 70.1 54.0 81.0

114 28.8 29.3 35.9#



#58

Ethyl Benzene

Concen: 0.435 ppbv

RT: 12.130 min Scan# 2963

Delta R.T. 0.003 min

Lab File: VL041119.D

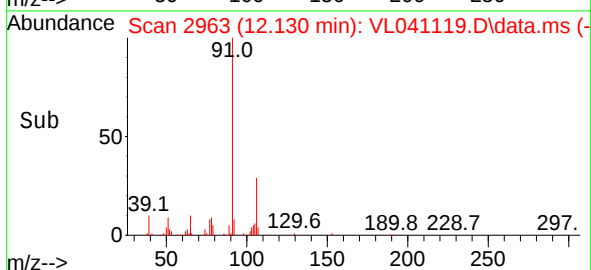
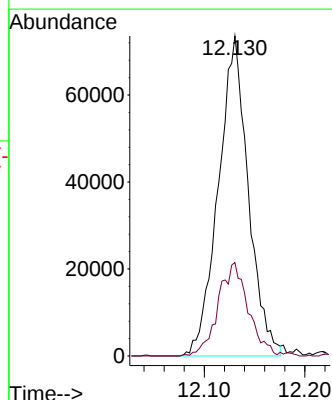
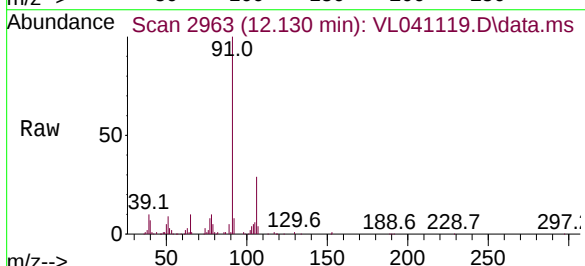
Acq: 4 Apr 2024 8:46

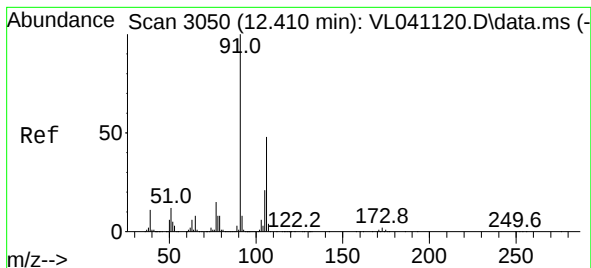
Tgt Ion: 91 Resp: 152318

Ion Ratio Lower Upper

91 100

106 29.2 25.6 38.4

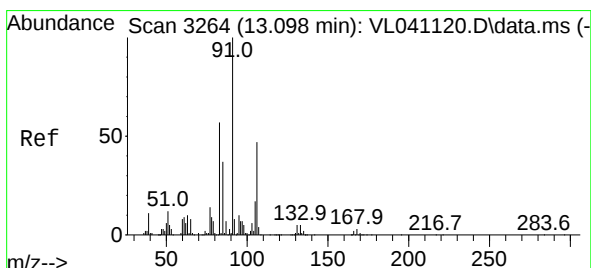
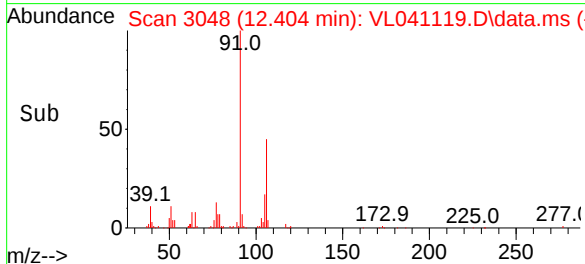
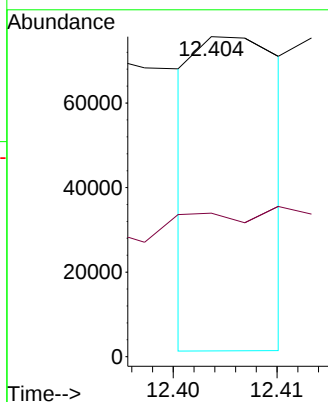
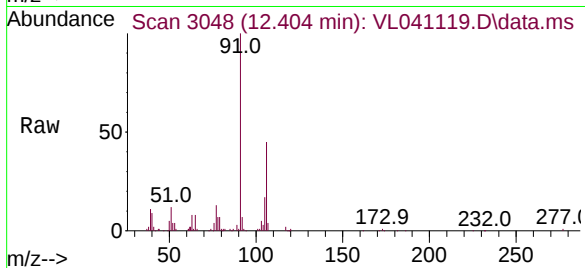




#59  
m/p-Xylene  
Concen: 0.133 ppbv  
RT: 12.404 min Scan# 3050  
Delta R.T. -0.007 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

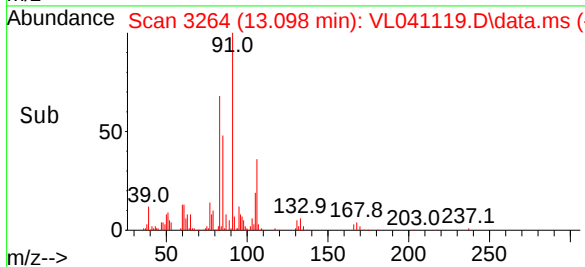
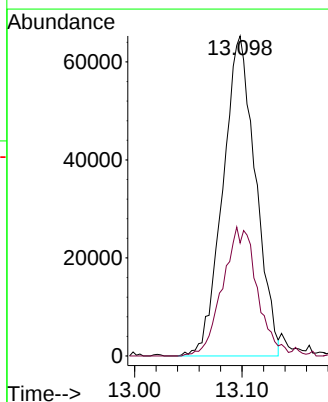
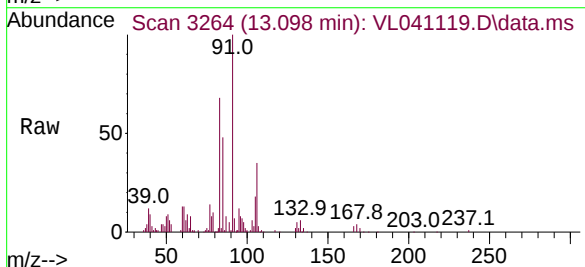
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

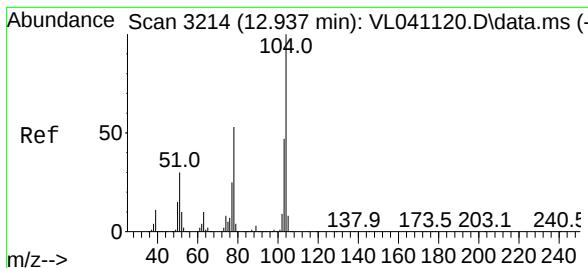
Tgt Ion: 91 Resp: 42061  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.4 53.2#



#60  
o-Xylene  
Concen: 0.457 ppbv  
RT: 13.098 min Scan# 3264  
Delta R.T. -0.000 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 91 Resp: 137803  
Ion Ratio Lower Upper  
91 100  
106 43.5 22.9 68.5





#61

Styrene

Concen: 0.199 ppbv

RT: 12.937 min Scan# 3214

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

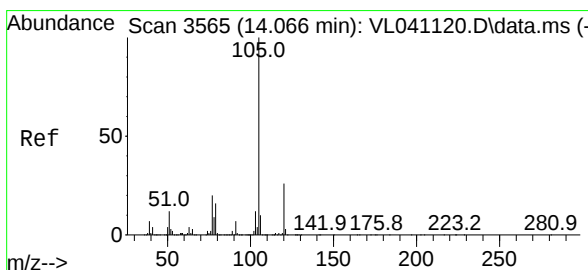
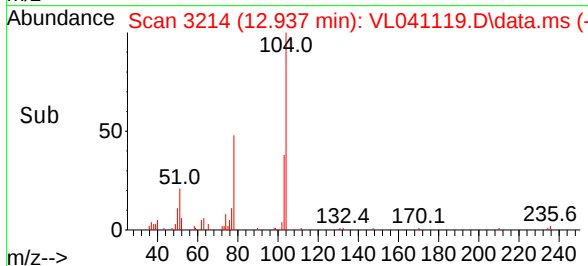
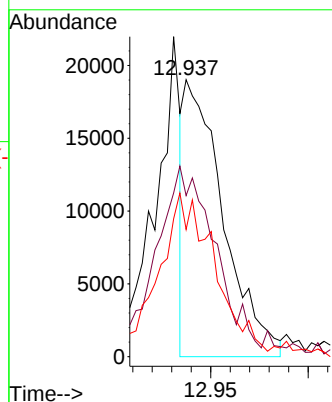
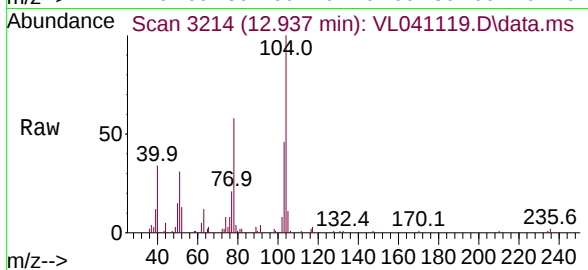
Tgt Ion:104 Resp: 26530

Ion Ratio Lower Upper

104 100

78 111.9 43.3 64.9#

103 88.5 38.2 57.2#



#62

Isopropylbenzene

Concen: 0.478 ppbv

RT: 14.069 min Scan# 3566

Delta R.T. 0.003 min

Lab File: VL041119.D

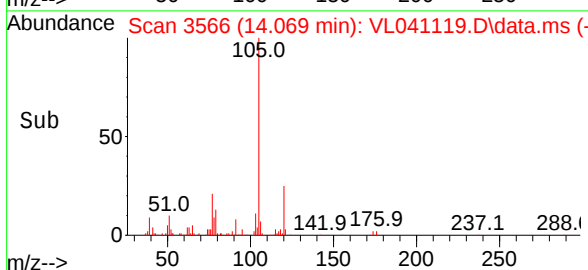
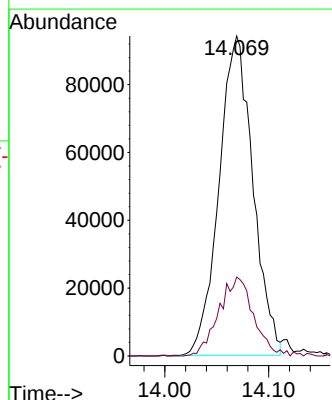
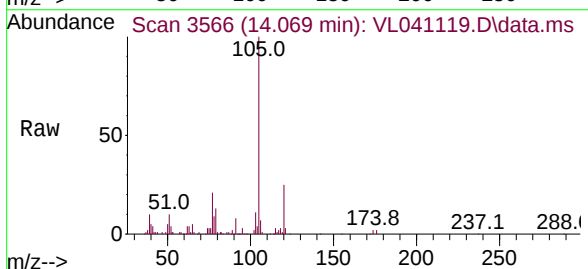
Acq: 4 Apr 2024 8:46

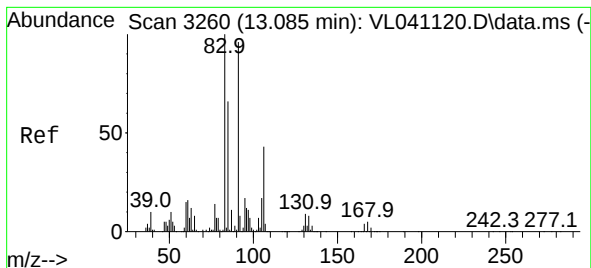
Tgt Ion:105 Resp: 213848

Ion Ratio Lower Upper

105 100

120 25.5 21.0 31.4

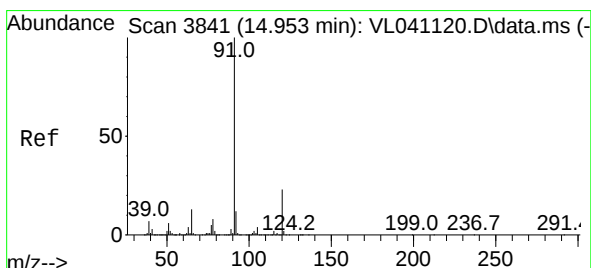
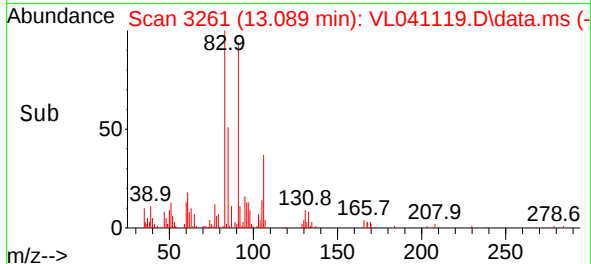
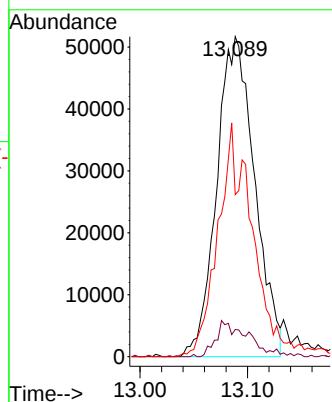
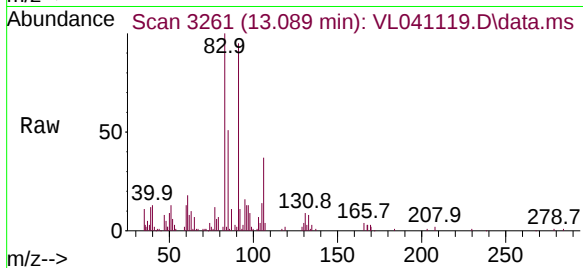




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.534 ppbv  
RT: 13.089 min Scan# 3260  
Delta R.T. 0.003 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

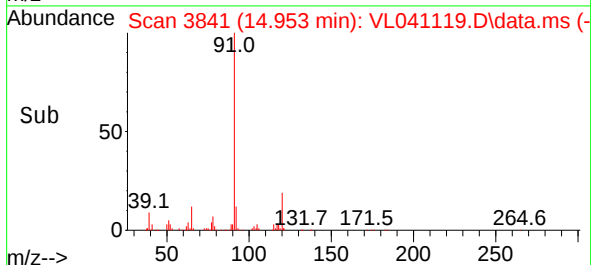
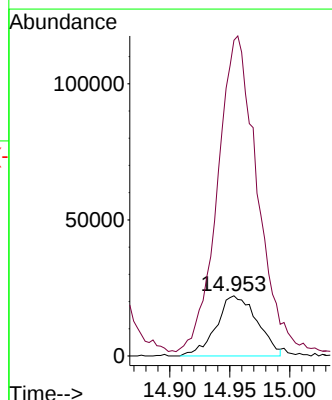
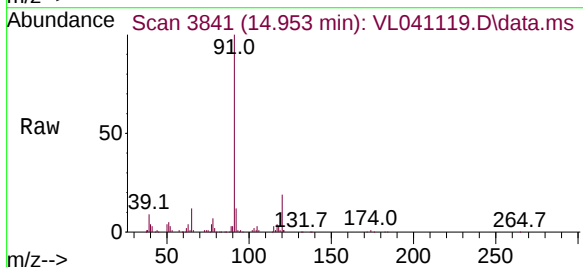
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

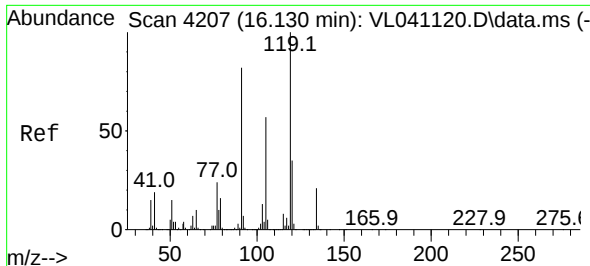
Tgt Ion: 83 Resp: 126928  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.7 14.0  
85 68.7 33.1 99.2



#64  
n-propylbenzene  
Concen: 0.466 ppbv  
RT: 14.953 min Scan# 3841  
Delta R.T. -0.000 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion:120 Resp: 52114  
Ion Ratio Lower Upper  
120 100  
91 542.1 395.0 592.6

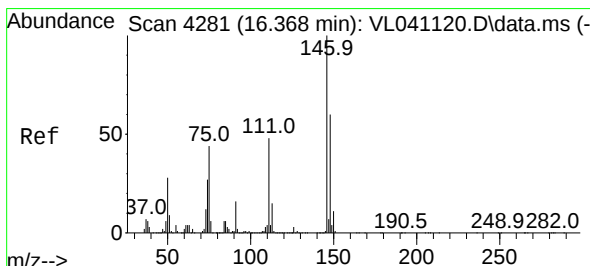
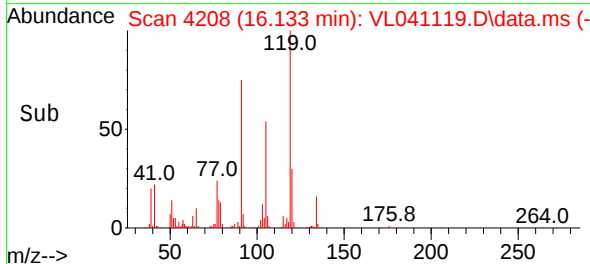
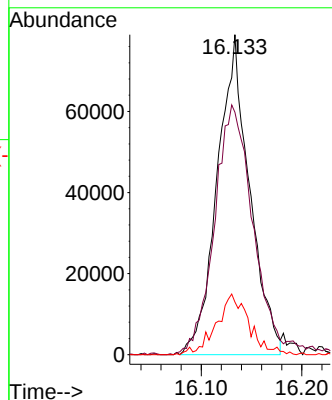
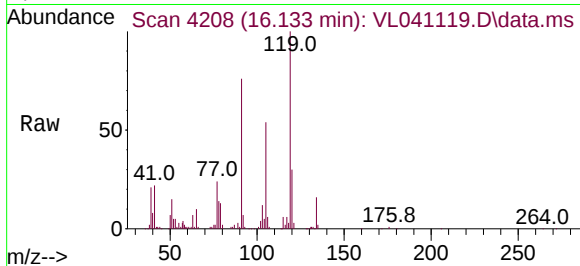




#65  
tert-Butylbenzene  
Concen: 0.450 ppbv  
RT: 16.133 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

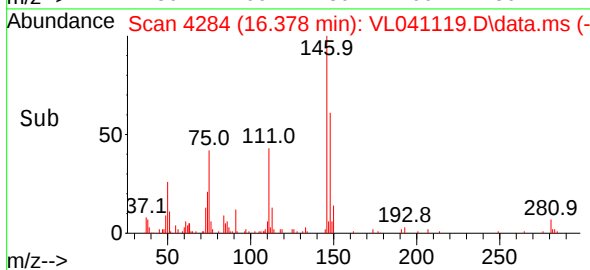
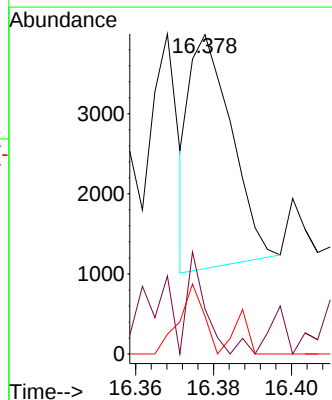
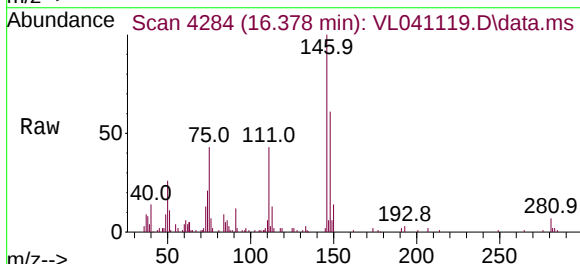
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

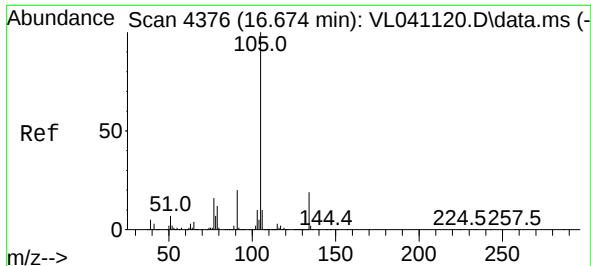
Tgt Ion:119 Resp: 175902  
Ion Ratio Lower Upper  
119 100  
91 95.6 67.8 101.8  
134 19.3 16.0 24.0



#66  
Benzyl Chloride  
Concen: 0.085 ppbv  
RT: 16.378 min Scan# 4284  
Delta R.T. 0.010 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 91 Resp: 2194  
Ion Ratio Lower Upper  
91 100  
126 65.9 13.4 20.2#  
128 24.1 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.464 ppbv

RT: 16.674 min Scan# 4376

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

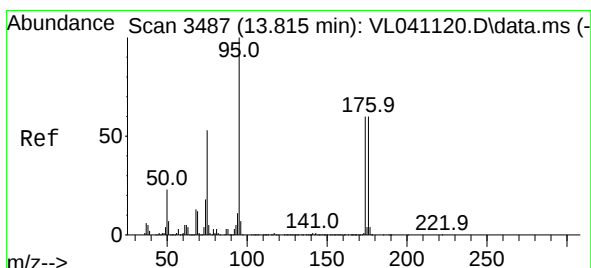
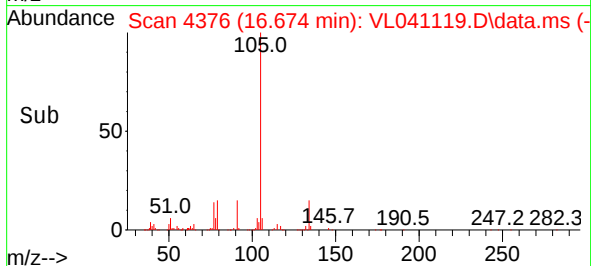
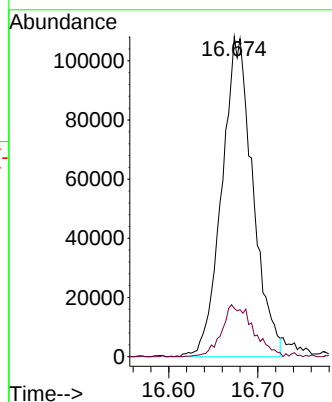
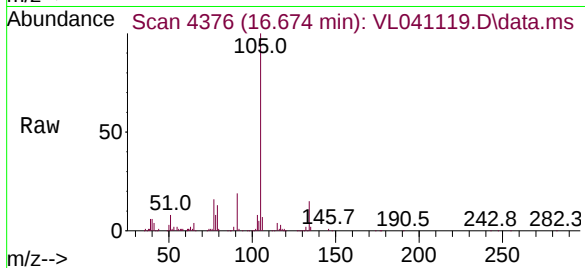
VSTDIC0.5

Tgt Ion:105 Resp: 261583

Ion Ratio Lower Upper

105 100

134 16.9 14.3 21.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.294 ppbv

RT: 13.812 min Scan# 3486

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

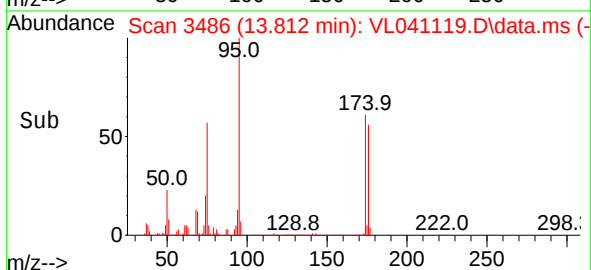
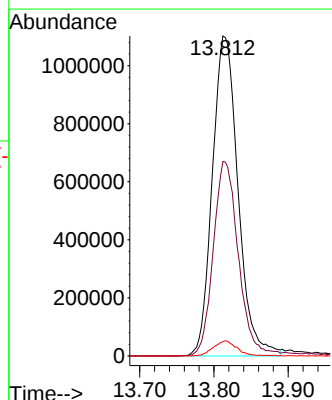
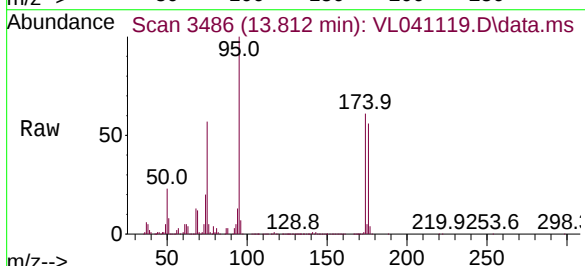
Tgt Ion: 95 Resp: 2653807

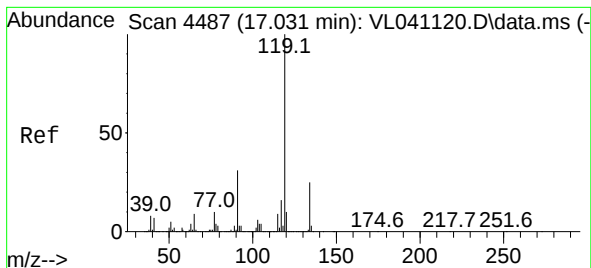
Ion Ratio Lower Upper

95 100

174 60.9 49.3 73.9

175 4.5 3.6 5.4





#69

p-Isopropyltoluene

Concen: 0.228 ppbv

RT: 17.034 min Scan# 4487

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

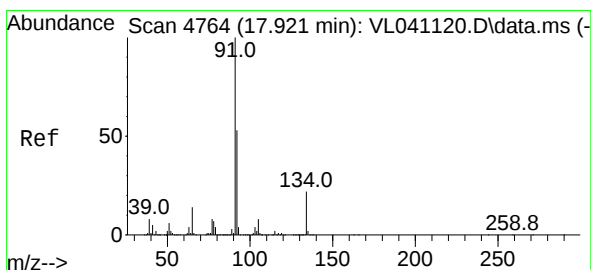
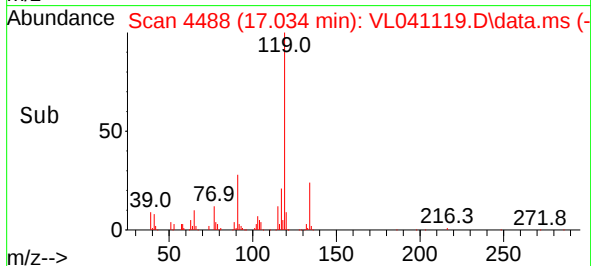
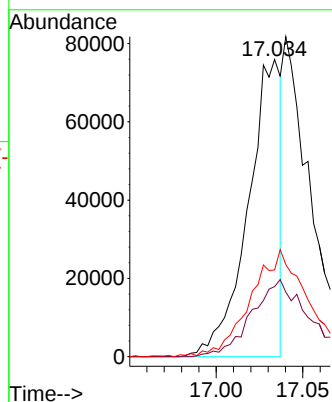
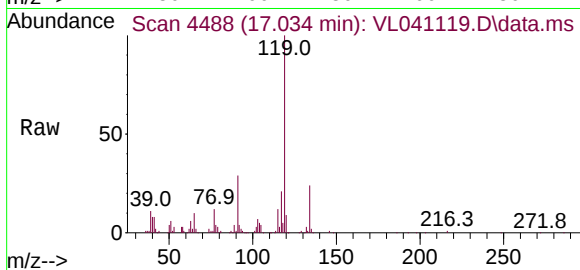
Tgt Ion:119 Resp: 100268

Ion Ratio Lower Upper

119 100

134 0.0 20.5 30.7#

91 0.0 24.8 37.2#



#70

n-Butylbenzene

Concen: 0.193 ppbv

RT: 17.924 min Scan# 4765

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

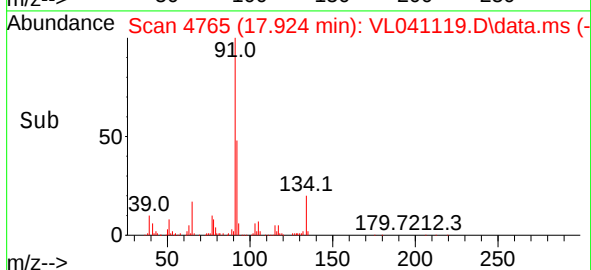
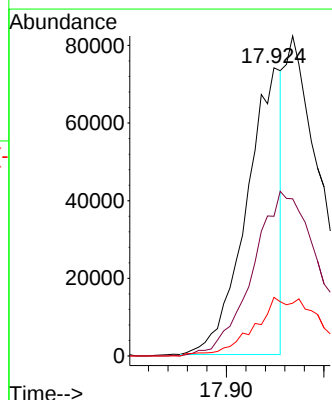
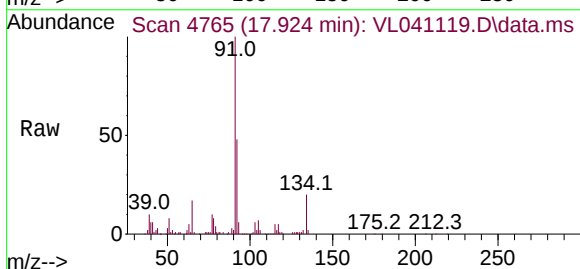
Tgt Ion: 91 Resp: 92409

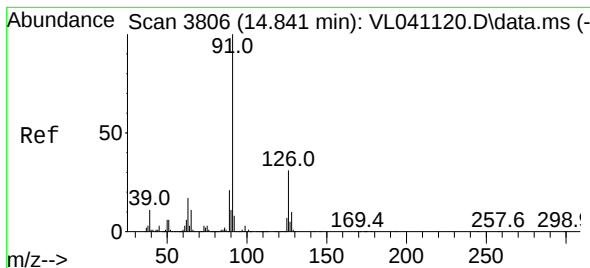
Ion Ratio Lower Upper

91 100

92 118.1 43.4 65.0#

134 42.2 17.1 25.7#

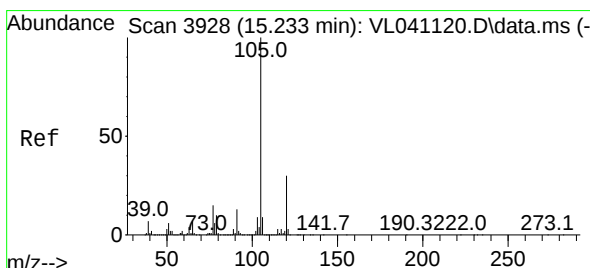
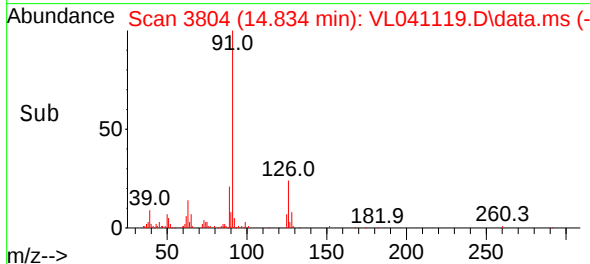
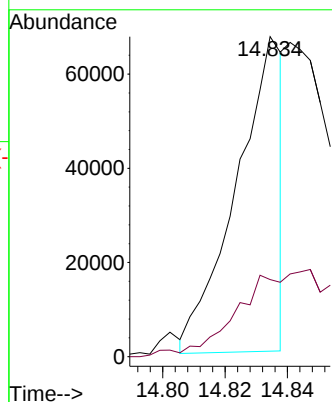
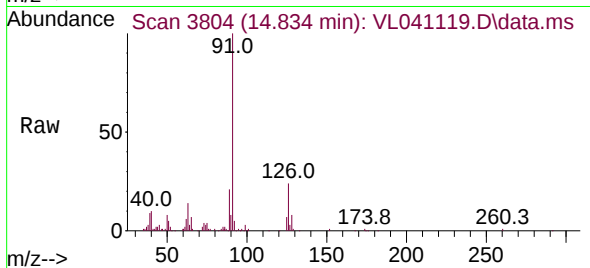




#71  
2-Chlorotoluene  
Concen: 0.201 ppbv  
RT: 14.834 min Scan# 3804  
Delta R.T. -0.007 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

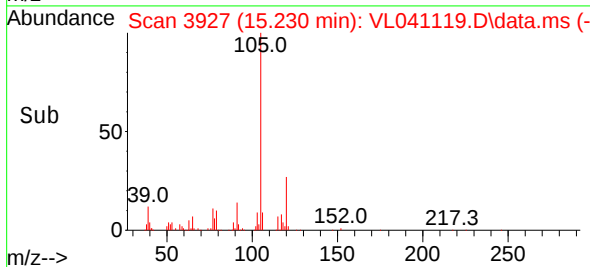
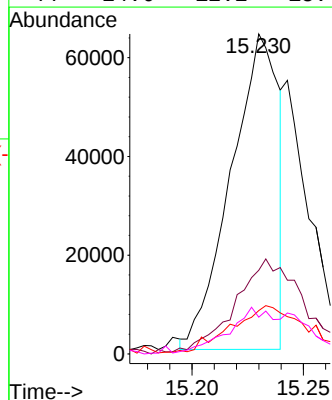
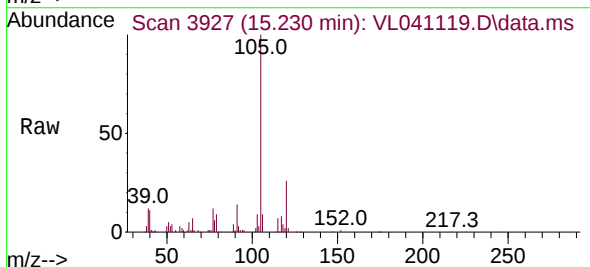
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

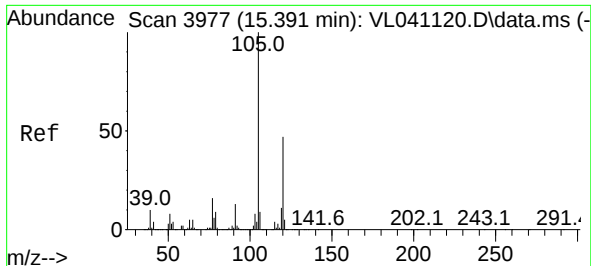
Tgt Ion: 91 Resp: 68785  
Ion Ratio Lower Upper  
91 100  
126 0.0 12.5 50.1#



#72  
4-Ethyltoluene  
Concen: 0.284 ppbv  
RT: 15.230 min Scan# 3927  
Delta R.T. -0.003 min  
Lab File: VL041119.D  
Acq: 4 Apr 2024 8:46

Tgt Ion: 105 Resp: 94472  
Ion Ratio Lower Upper  
105 100  
120 45.5 24.2 36.2#  
91 24.5 11.2 16.8#  
77 24.6 12.2 18.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.424 ppbv

RT: 15.394 min Scan# 3977

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

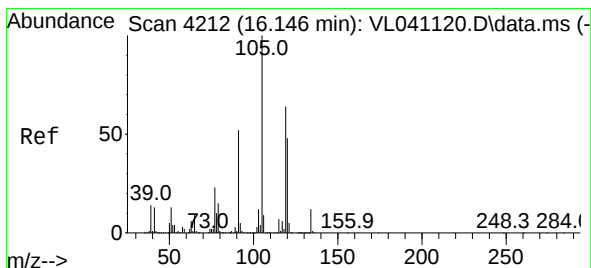
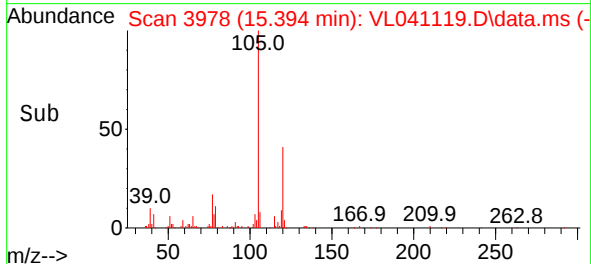
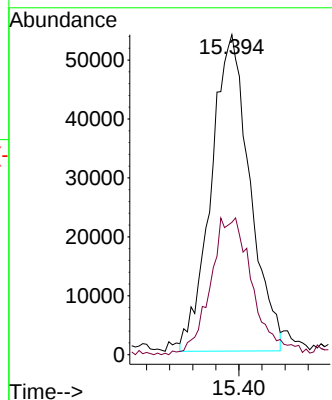
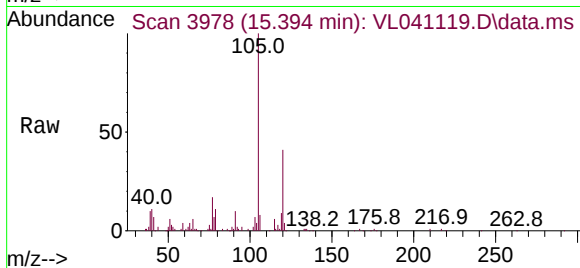
VSTDIC0.5

Tgt Ion:105 Resp: 125378

Ion Ratio Lower Upper

105 100

120 41.8 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.463 ppbv

RT: 16.146 min Scan# 4212

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Tgt Ion:105 Resp: 157640

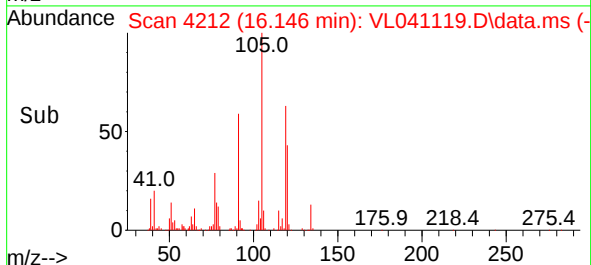
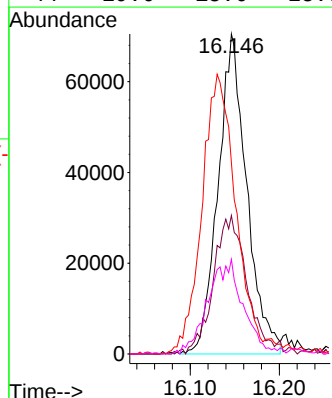
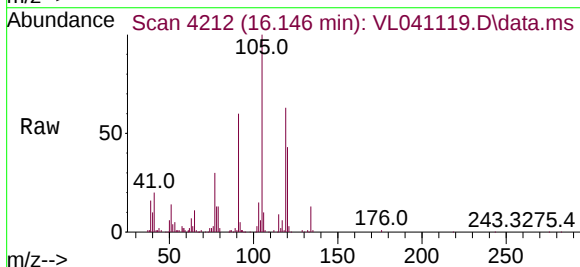
Ion Ratio Lower Upper

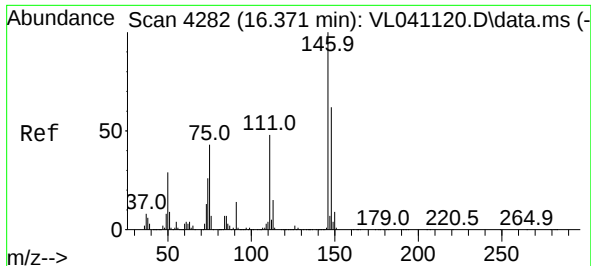
105 100

120 42.1 38.9 58.3

91 56.7 43.0 64.6

77 29.6 18.6 28.0#





#75

1,3-Dichlorobenzene

Concen: 0.177 ppbv

RT: 16.365 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

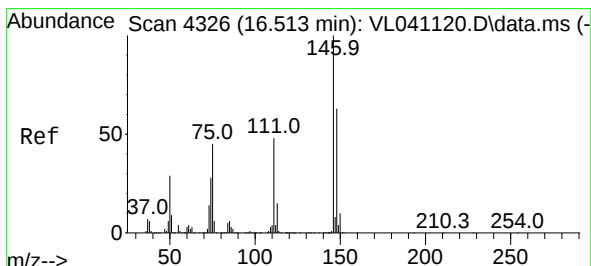
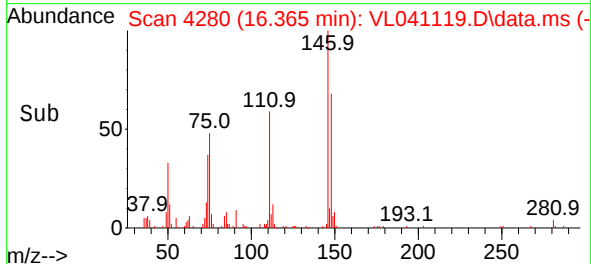
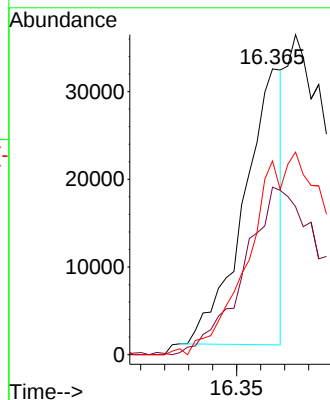
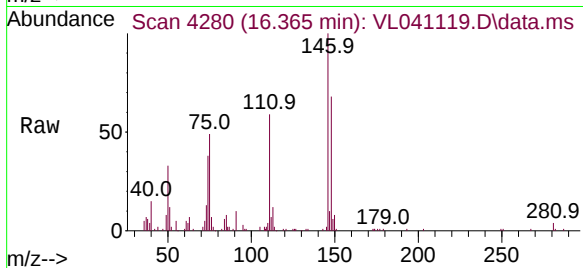
Tgt Ion:146 Resp: 34957

Ion Ratio Lower Upper

146 100

111 142.5 24.1 72.4#

148 0.0 32.0 96.2#



#76

1,4-Dichlorobenzene

Concen: 0.433 ppbv

RT: 16.513 min Scan# 4326

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

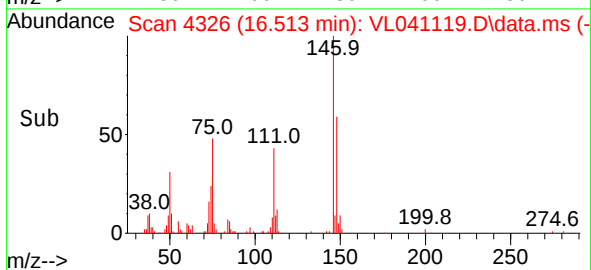
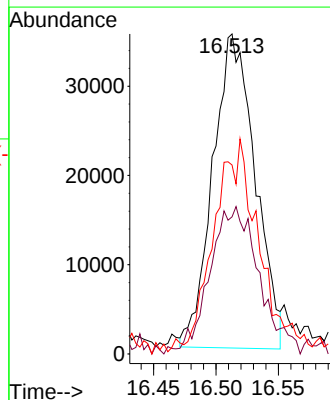
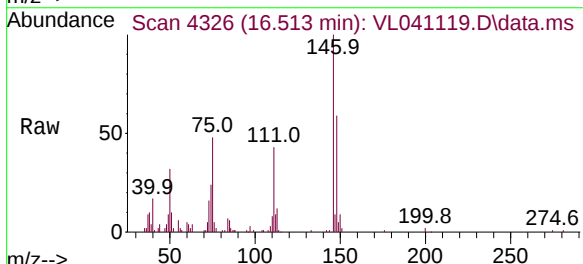
Tgt Ion:146 Resp: 83282

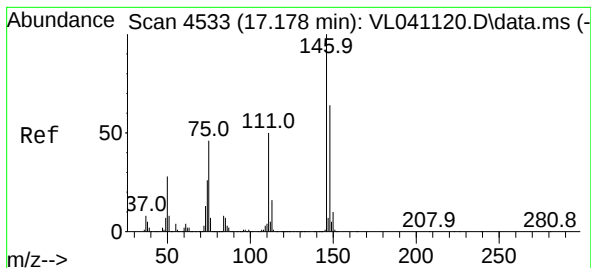
Ion Ratio Lower Upper

146 100

111 55.0 24.1 72.3

148 74.8 33.1 99.2





#77

1,2-Dichlorobenzene

Concen: 0.457 ppbv

RT: 17.182 min Scan# 4534

Delta R.T. 0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

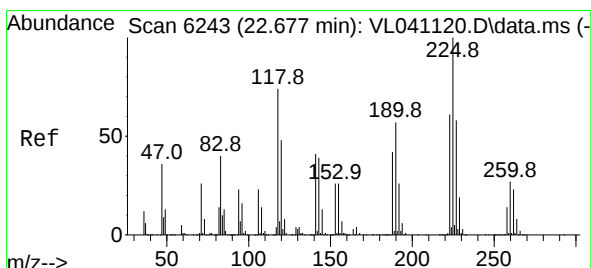
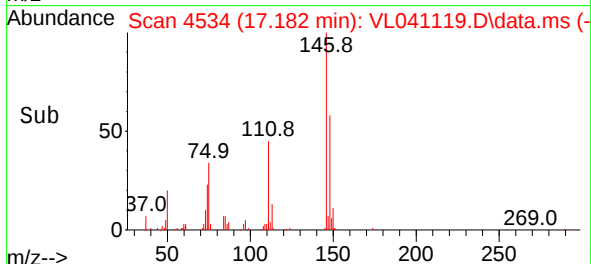
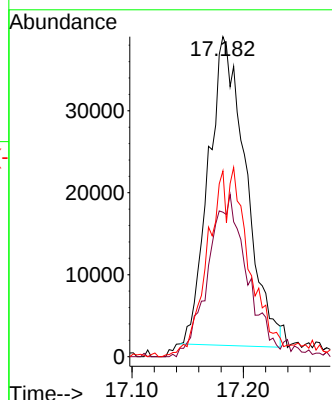
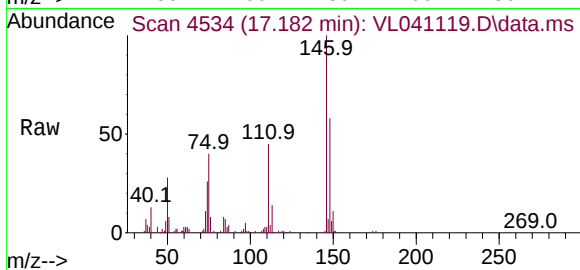
Tgt Ion:146 Resp: 87860

Ion Ratio Lower Upper

146 100

111 56.4 25.1 75.3

148 70.8 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 0.146 ppbv

RT: 22.677 min Scan# 6243

Delta R.T. -0.000 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

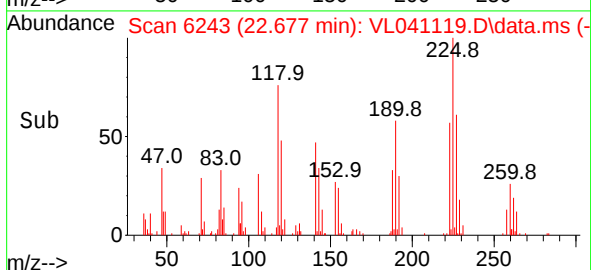
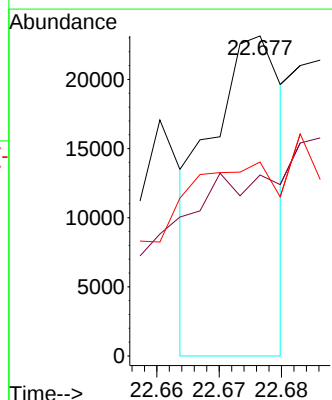
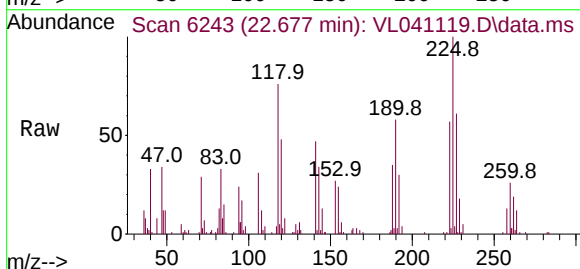
Tgt Ion:225 Resp: 18688

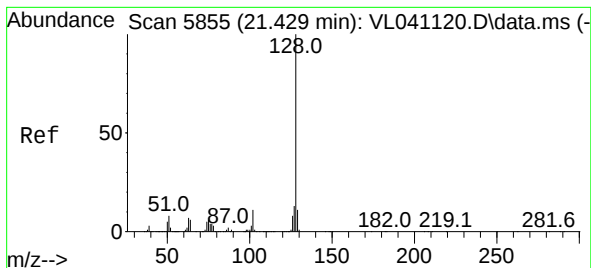
Ion Ratio Lower Upper

225 100

223 0.0 50.9 76.3#

227 0.0 51.3 76.9#





#79

Naphthalene

Concen: 0.058 ppbv

RT: 21.426 min Scan# 51

Delta R.T. -0.003 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

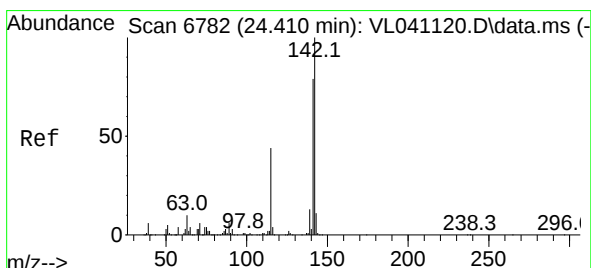
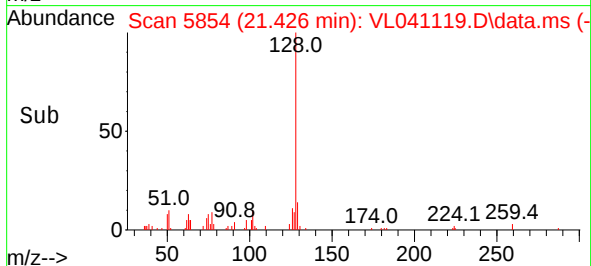
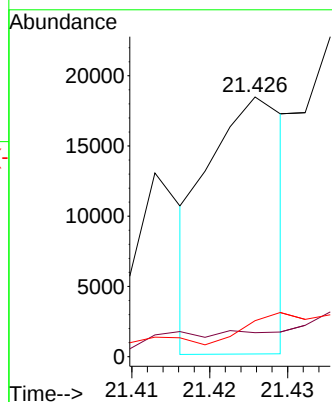
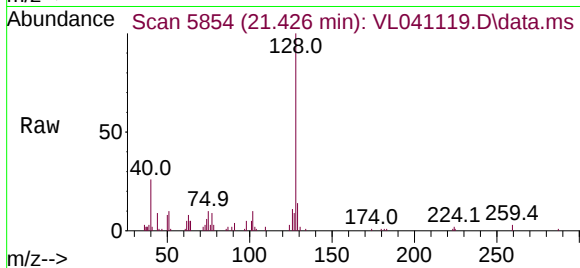
Tgt Ion:128 Resp: 12477

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 15.7 8.6 12.8#



#80

Naphthalene,2-methyl-

Concen: 0.106 ppbv

RT: 24.435 min Scan# 6790

Delta R.T. 0.026 min

Lab File: VL041119.D

Acq: 4 Apr 2024 8:46

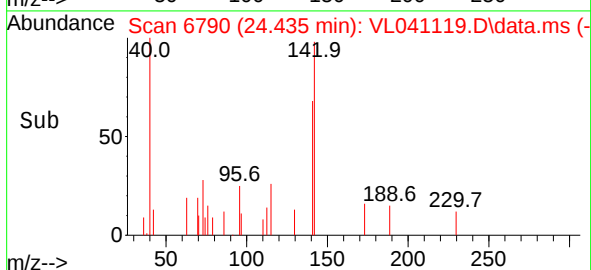
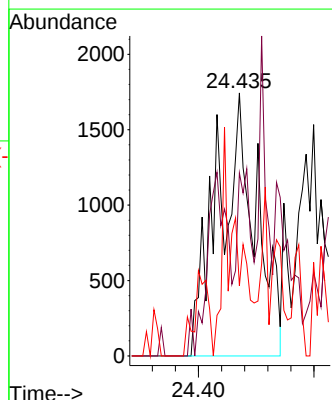
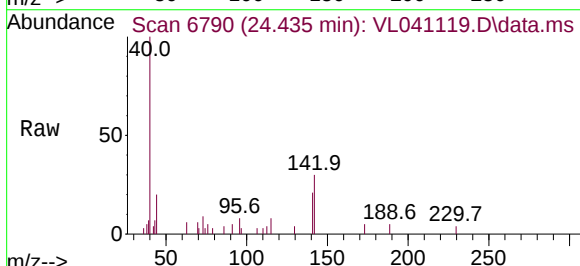
Tgt Ion:142 Resp: 3970

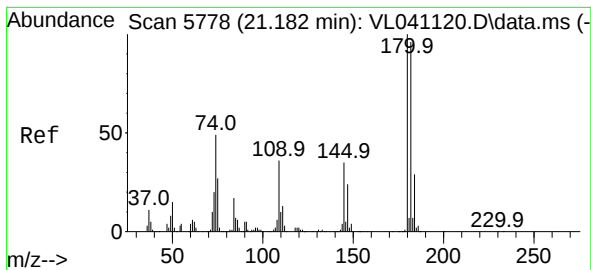
Ion Ratio Lower Upper

142 100

141 40.1 64.4 96.6#

115 56.0 33.5 50.3#





#81

1,2,4-Trichlorobenzene

Concen: 0.243 ppbv

RT: 21.194 min Scan# 51

Delta R.T. 0.013 min

Lab File: VL041119.D

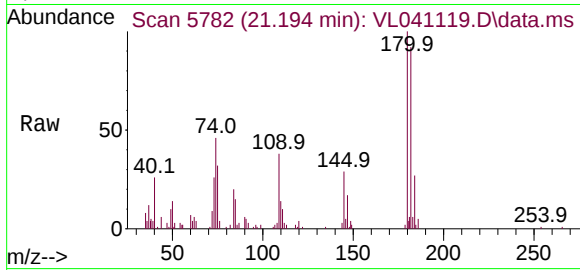
Acq: 4 Apr 2024 8:46

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5



Tgt Ion:180 Resp: 30013

Ion Ratio Lower Upper

180 100

182 144.5 77.4 116.2#

184 46.6 24.9 37.3#

