

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112025\  
 Data File : VL043270.D  
 Acq On : 20 Nov 2025 18:02  
 Operator : SY/MD  
 Sample : Q3698-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Quant Time: Nov 21 00:41:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111825AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Nov 19 01:11:25 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.781  | 49    | 104226   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.949  | 114   | 262002   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.872  | 117   | 222185   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.367 | 95    | 170603   | 10.475   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 104.800% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.496  | 85    | 7562     | 0.514    | ppbv       | 97       |
| 3) Chlorodifluoromethane      | 1.842  | 51    | 1292     | 0.089    | ppbv       | 93       |
| 4) Chloromethane              | 1.531  | 50    | 2453     | 0.446    | ppbv #     | 83       |
| 6) Bromomethane               | 1.703  | 94    | 96       | 0.033    | ppbv #     | 4        |
| 7) Chloroethane               | 1.703  | 64    | 83       | 0.035    | ppbv #     | 77       |
| 8) Dichlorotetrafluoroethane  | 1.551  | 85    | 421      | 0.034    | ppbv #     | 53       |
| 9) Propene                    | 1.486  | 41    | 394823   | 64.313   | ppbv #     | 6        |
| 10) Heptane                   | 4.968  | 43    | 5780     | 0.316    | ppbv #     | 84       |
| 11) Trichlorofluoromethane    | 1.874  | 101   | 4245     | 0.298    | ppbv       | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.136  | 101   | 971      | 0.087    | ppbv       | 93       |
| 13) Ethanol                   | 1.719  | 45    | 43147    | 19.987   | ppbv       | 98       |
| 15) Acetone                   | 1.832  | 43    | 2648167  | 182.878  | ppbv #     | 68       |
| 16) 1,3-Butadiene             | 1.619  | 39    | 279214   | 43.251   | ppbv #     | 14       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 865      | 0.046    | ppbv #     | 1        |
| 19) Isopropyl Alcohol         | 1.881  | 45    | 120618   | 14.741   | ppbv #     | 36       |
| 20) Methylene Chloride        | 2.059  | 84    | 5103     | 0.446    | ppbv       | 95       |
| 21) Allyl Chloride            | 1.962  | 41    | 24305    | 2.495    | ppbv #     | 21       |
| 23) Vinyl Acetate             | 2.470  | 43    | 24703    | 1.413    | ppbv #     | 48       |
| 25) Ethyl Acetate             | 2.819  | 43    | 23700    | 0.759    | ppbv #     | 1        |
| 26) Hexane                    | 2.819  | 57    | 18674    | 1.364    | ppbv #     | 61       |
| 30) Cyclohexane               | 3.855  | 84    | 2372     | 0.207    | ppbv #     | 76       |
| 31) cis-1,2-Dichloroethene    | 2.813  | 61    | 29420    | 2.162    | ppbv #     | 26       |
| 34) 2-Butanone                | 2.554  | 43    | 16273    | 0.880    | ppbv       | 98       |
| 35) Carbon Tetrachloride      | 3.755  | 117   | 597      | 0.030    | ppbv #     | 20       |
| 36) Benzene                   | 3.645  | 78    | 17039    | 0.679    | ppbv       | 97       |
| 37) 1,2-Dichloroethane        | 2.813  | 62    | 43545    | 2.967    | ppbv #     | 80       |
| 39) 1,2-Dichloropropane       | 3.949  | 63    | 68202    | 7.427    | ppbv #     | 25       |
| 44) 2,2,4-Trimethylpentane    | 4.629  | 57    | 6710     | 0.156    | ppbv #     | 9        |
| 52) Tetrachloroethene         | 8.205  | 164   | 283      | 0.030    | ppbv #     | 54       |
| 53) Toluene                   | 6.920  | 91    | 78010    | 2.626    | ppbv       | 98       |
| 57) Chlorobenzene             | 8.862  | 112   | 1451     | 0.064    | ppbv #     | 62       |
| 58) Ethyl Benzene             | 9.348  | 91    | 477084   | 11.156   | ppbv       | 99       |
| 59) m/p-Xylene                | 9.522  | 91    | 1740919  | 50.776   | ppbv       | 100      |
| 60) o-Xylene                  | 9.953  | 91    | 543908   | 15.880   | ppbv       | 99       |
| 61) Styrene                   | 9.859  | 104   | 783      | 0.052    | ppbv #     | 28       |
| 62) Isopropylbenzene          | 10.532 | 105   | 3375     | 0.055    | ppbv       | 98       |
| 65) tert-Butylbenzene         | 11.529 | 119   | 1996     | 0.036    | ppbv #     | 22       |
| 72) 4-Ethyltoluene            | 11.115 | 105   | 5206     | 0.125    | ppbv #     | 55       |
| 73) 1,3,5-Trimethylbenzene    | 11.196 | 105   | 4045     | 0.116    | ppbv       | 91       |
| 74) 1,2,4-Trimethylbenzene    | 11.526 | 105   | 15663    | 0.410    | ppbv #     | 47       |
| 79) Naphthalene               | 13.510 | 128   | 1770     | 0.052    | ppbv #     | 95       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142   | 428      | 0.048    | ppbv #     | 86       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112025\  
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Acq On : 20 Nov 2025 18:02  
Operator : SY/MD  
Sample : Q3698-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Quant Time: Nov 21 00:41:41 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111825AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Nov 19 01:11:25 2025  
Response via : Initial Calibration

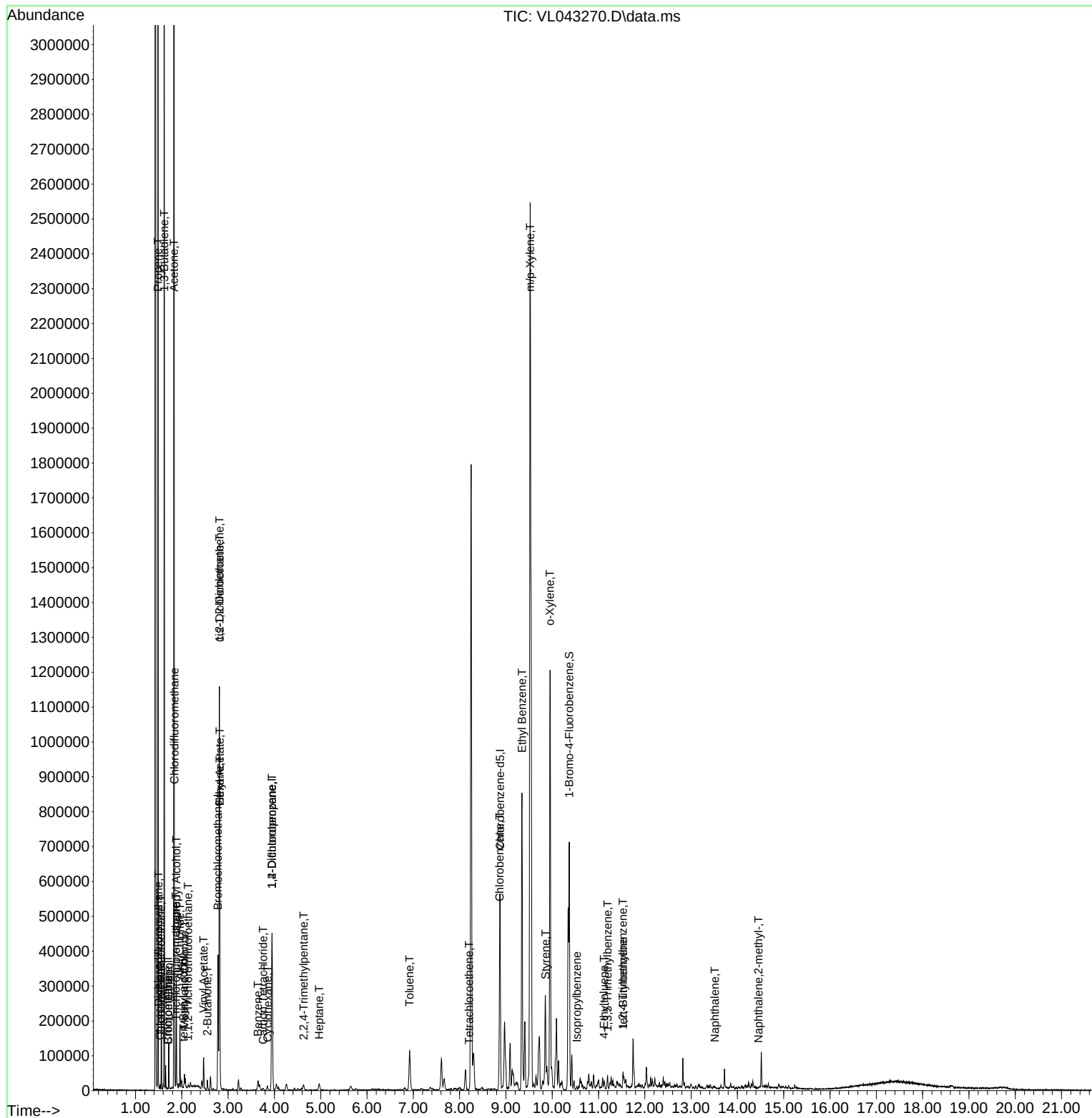
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

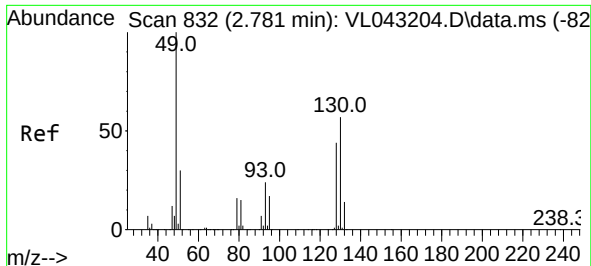
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112025\  
Data File : VL043270.D  
Acq On : 20 Nov 2025 18:02  
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Sample : Q3698-03  
Misc : 400mL/MSVOA\_L  
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Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Quant Time: Nov 21 00:41:41 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL11825AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Nov 19 01:11:25 2025  
Response via : Initial Calibration

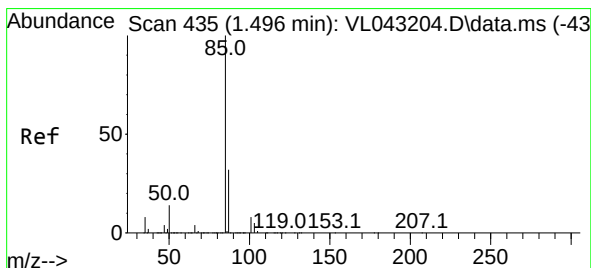
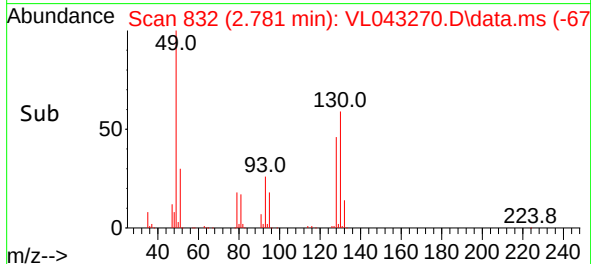
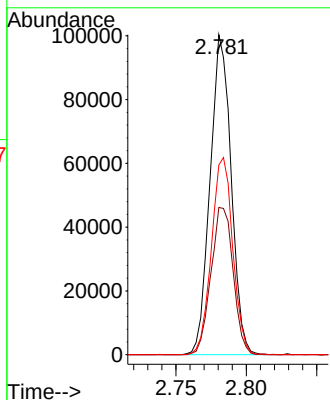
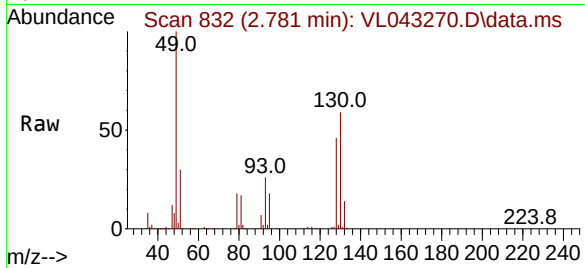




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.781 min Scan# 832  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

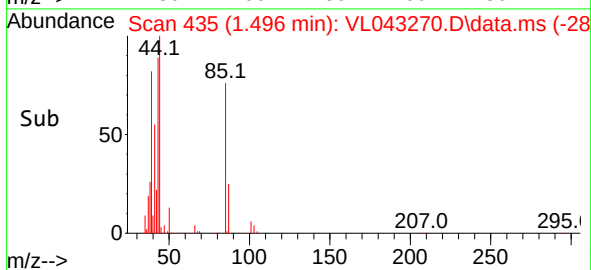
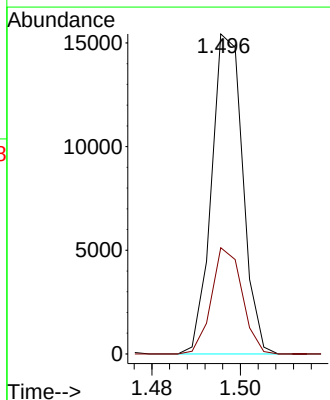
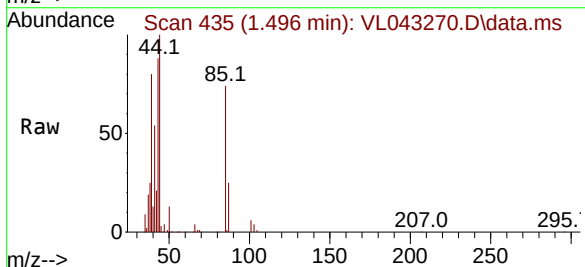
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

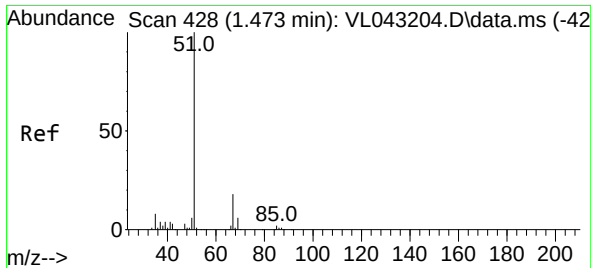
Tgt Ion: 49 Resp: 104226  
Ion Ratio Lower Upper  
49 100  
128 48.5 23.0 69.0  
130 62.4 29.9 89.7



#2  
Dichlorodifluoromethane  
Concen: 0.514 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 85 Resp: 7562  
Ion Ratio Lower Upper  
85 100  
87 33.2 25.4 38.2

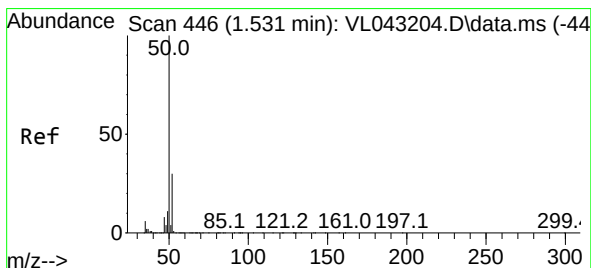
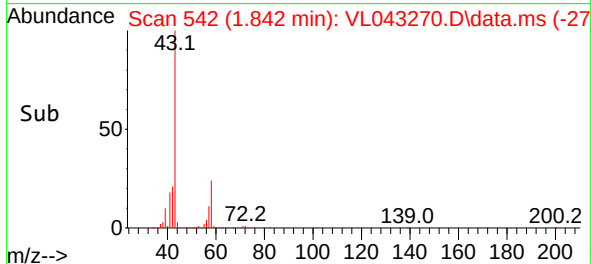
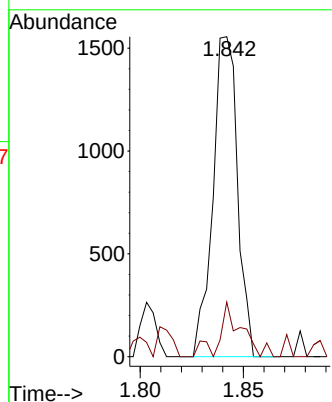
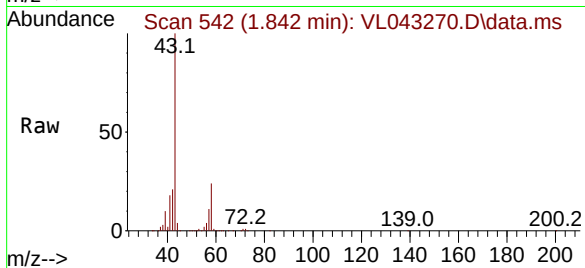




#3  
Chlorodifluoromethane  
Concen: 0.089 ppbv  
RT: 1.842 min Scan# 54  
Delta R.T. 0.369 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

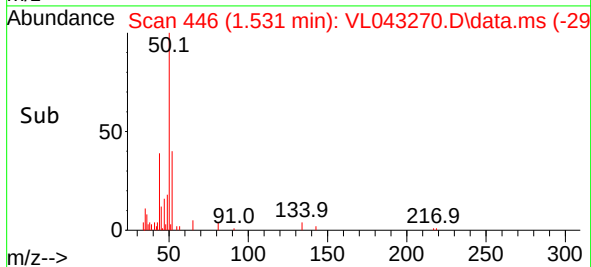
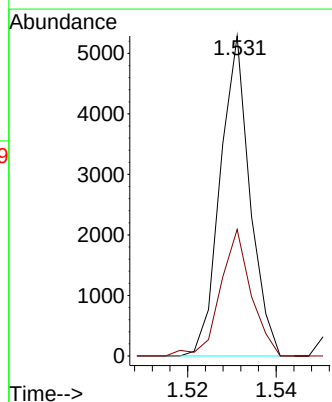
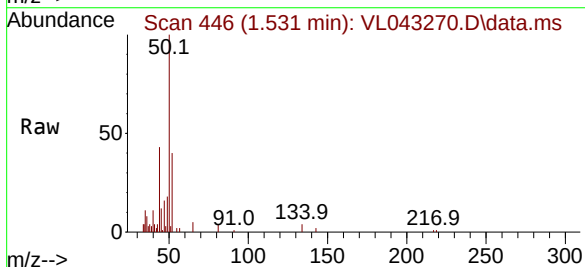
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA1

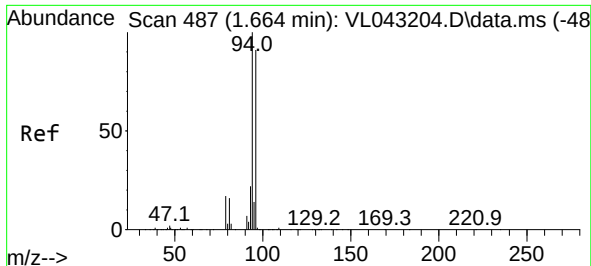
Tgt Ion: 51 Resp: 1292  
Ion Ratio Lower Upper  
51 100  
67 15.4 14.9 22.3



#4  
Chloromethane  
Concen: 0.446 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 50 Resp: 2453  
Ion Ratio Lower Upper  
50 100  
52 39.5 24.1 36.1#

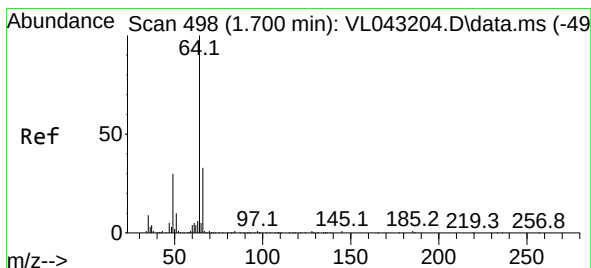
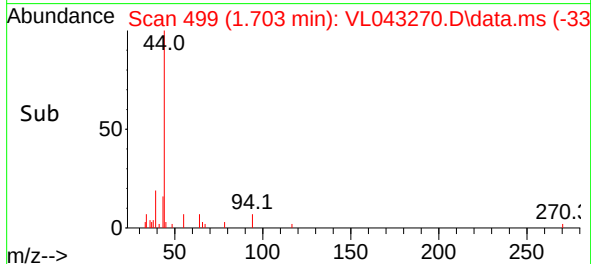
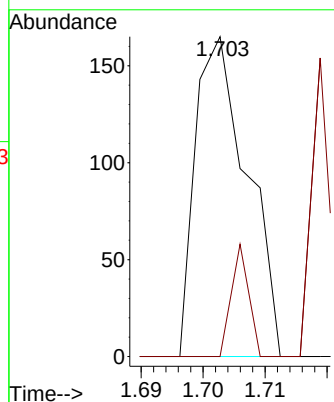
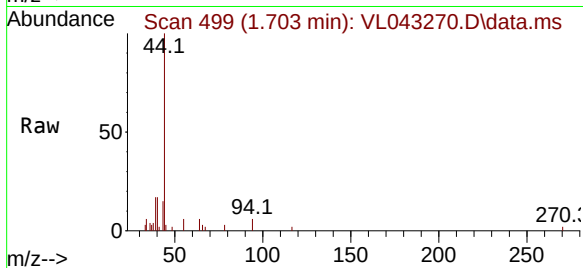




#6  
Bromomethane  
Concen: 0.033 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.039 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

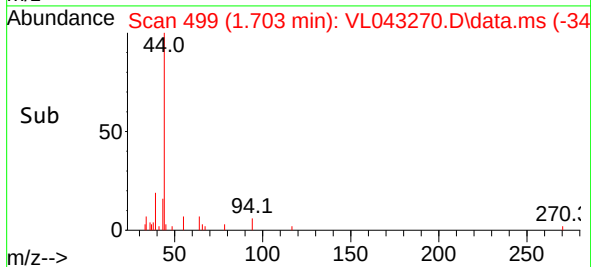
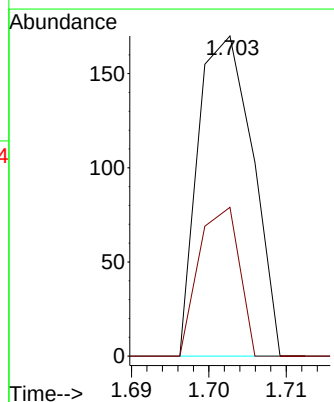
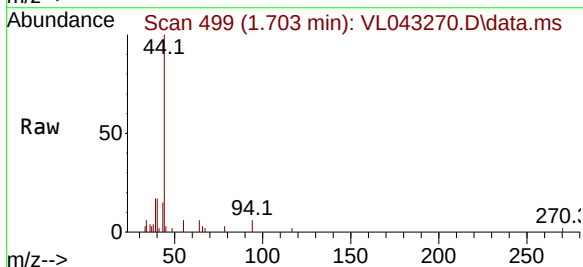
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

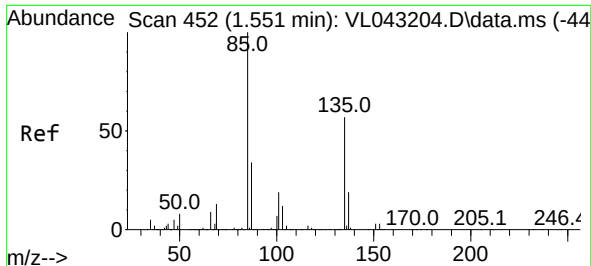
Tgt Ion: 94 Resp: 96  
Ion Ratio Lower Upper  
94 100  
96 0.0 72.9 109.3#



#7  
Chloroethane  
Concen: 0.035 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 64 Resp: 83  
Ion Ratio Lower Upper  
64 100  
66 46.5 26.8 40.2#

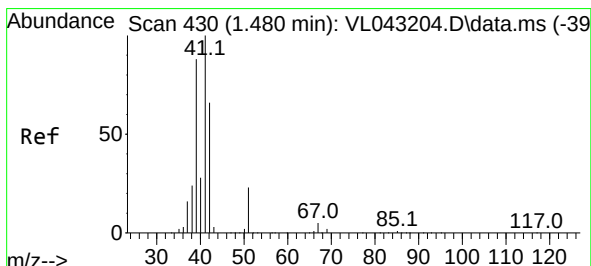
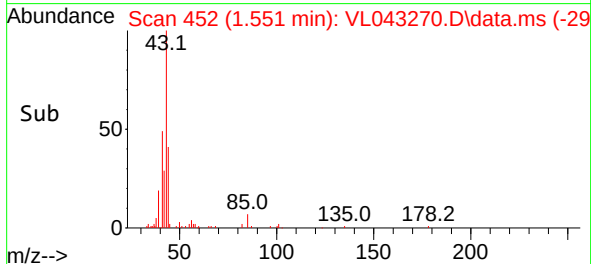
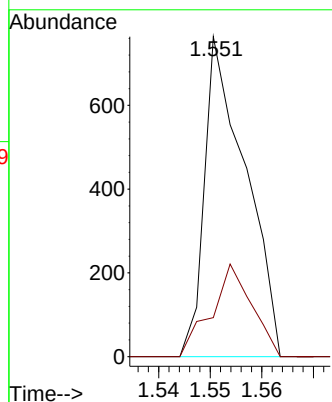
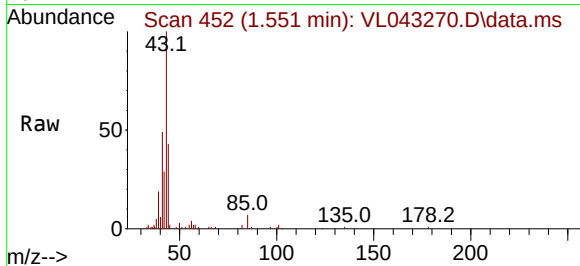




#8  
Dichlorotetrafluoroethane  
Concen: 0.034 ppbv  
RT: 1.551 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

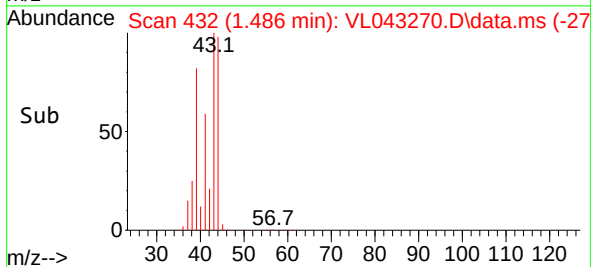
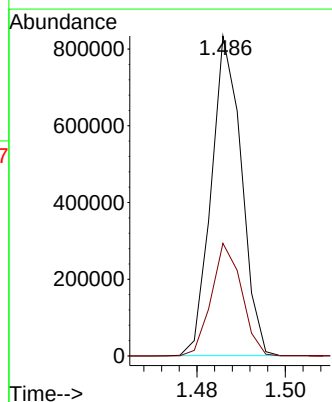
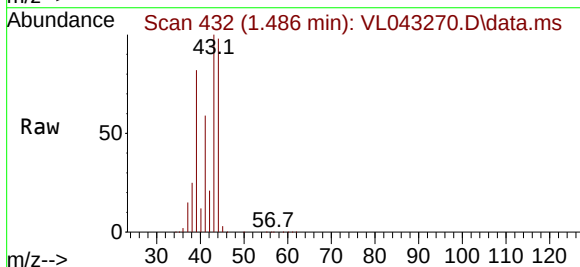
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

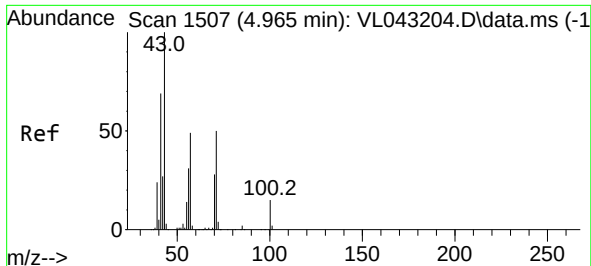
Tgt Ion: 85 Resp: 421  
Ion Ratio Lower Upper  
85 100  
135 28.5 52.6 79.0#



#9  
Propene  
Concen: 64.313 ppbv  
RT: 1.486 min Scan# 432  
Delta R.T. 0.006 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 41 Resp: 394823  
Ion Ratio Lower Upper  
41 100  
42 35.5 3.7 5.5#

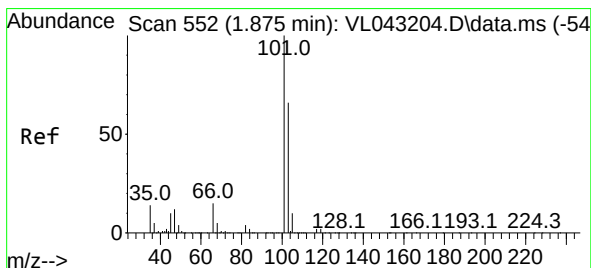
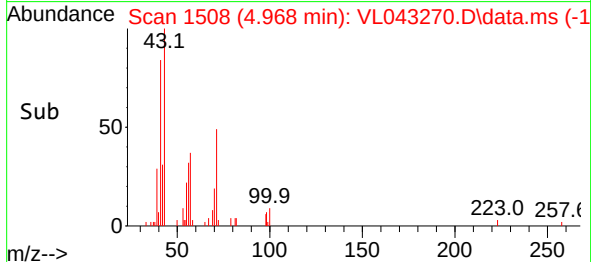
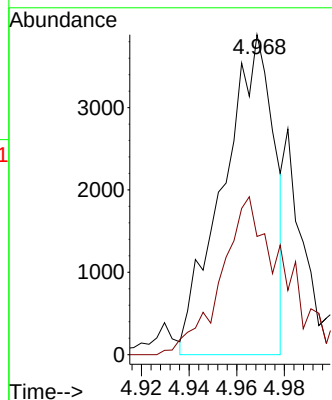
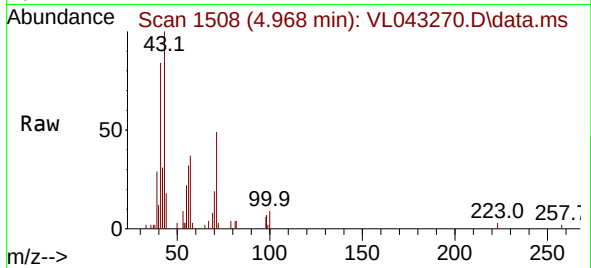




#10  
Heptane  
Concen: 0.316 ppbv  
RT: 4.968 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

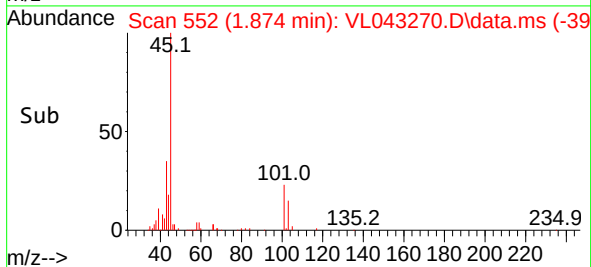
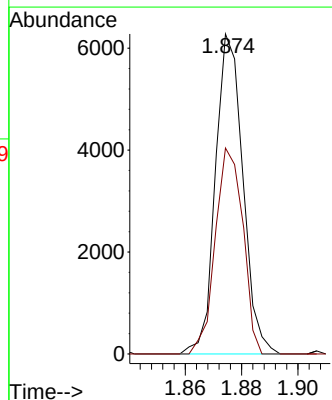
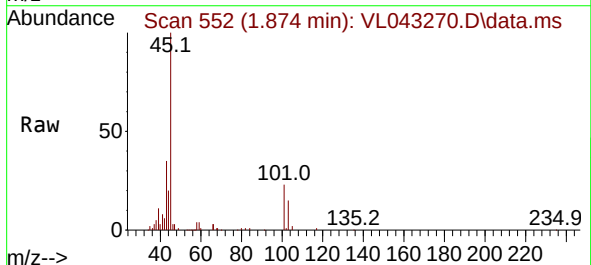
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion: 43 Resp: 5780  
Ion Ratio Lower Upper  
43 100  
57 60.9 39.7 59.5#

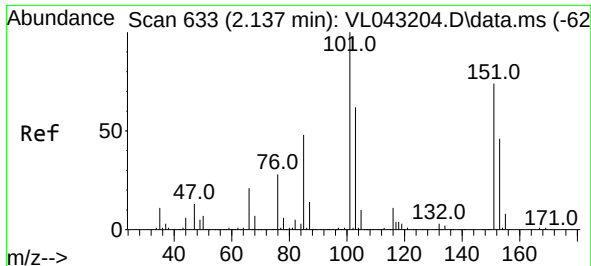


#11  
Trichlorofluoromethane  
Concen: 0.298 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 101 Resp: 4245  
Ion Ratio Lower Upper  
101 100  
103 64.4 52.6 79.0



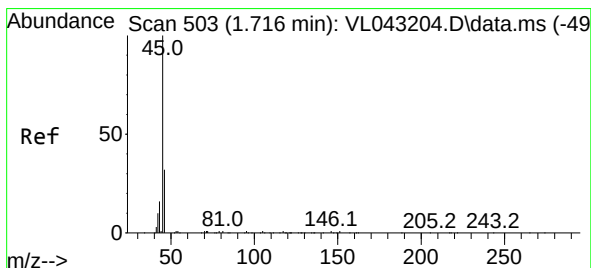
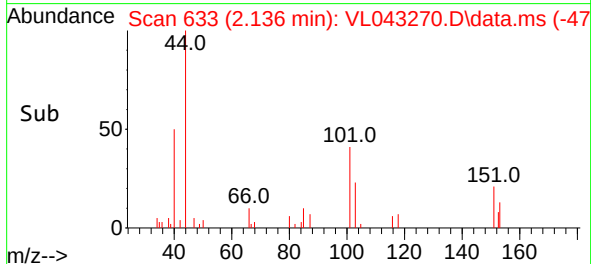
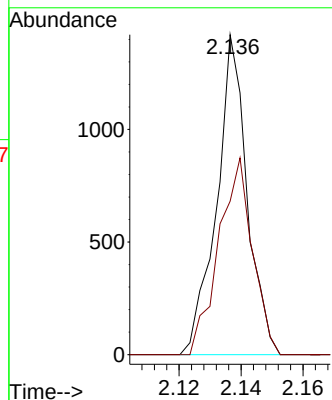
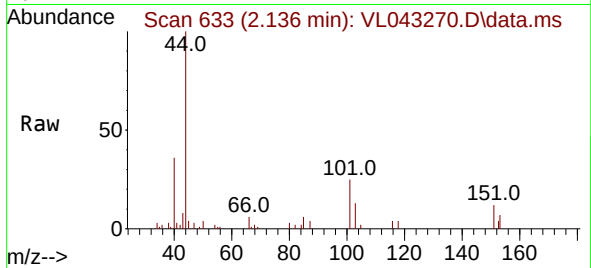




#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.087 ppbv  
 RT: 2.136 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL043270.D  
 Acq: 20 Nov 2025 18:02

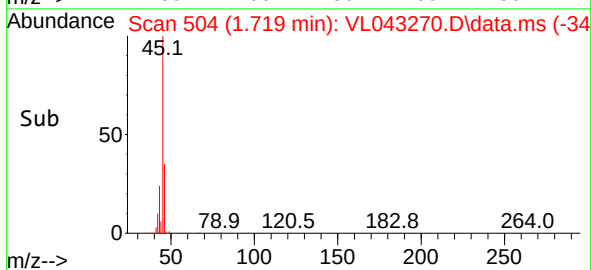
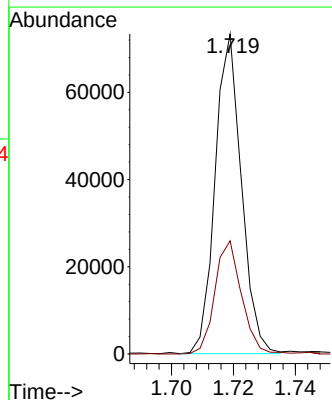
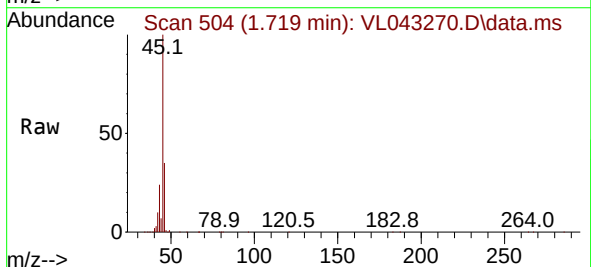
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

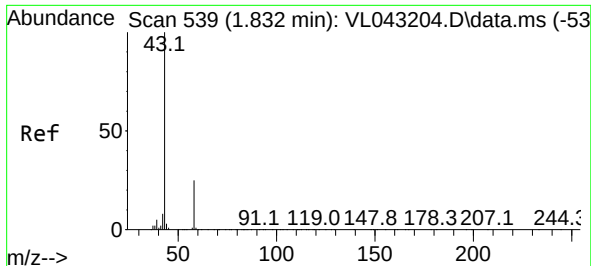
Tgt Ion:101 Resp: 971  
 Ion Ratio Lower Upper  
 101 100  
 151 68.2 59.2 88.8



#13  
 Ethanol  
 Concen: 19.987 ppbv  
 RT: 1.719 min Scan# 504  
 Delta R.T. 0.003 min  
 Lab File: VL043270.D  
 Acq: 20 Nov 2025 18:02

Tgt Ion: 45 Resp: 43147  
 Ion Ratio Lower Upper  
 45 100  
 46 36.3 15.0 59.8

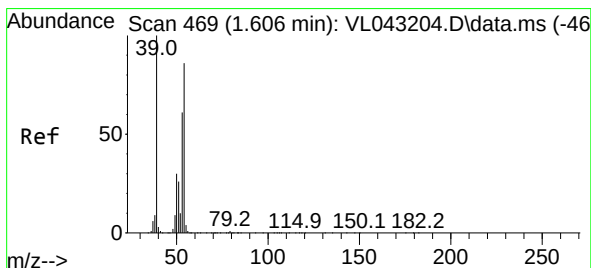
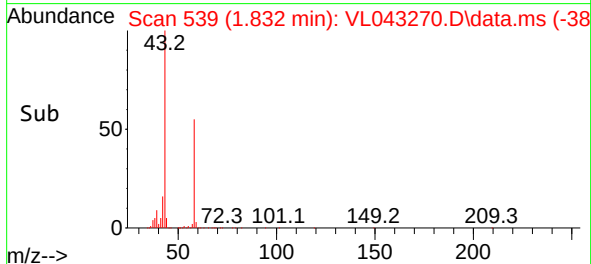
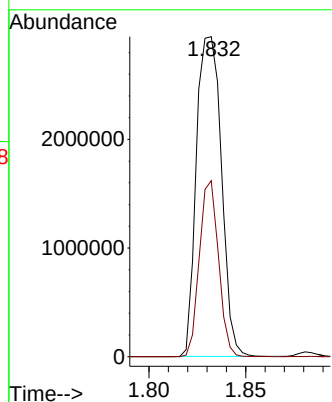
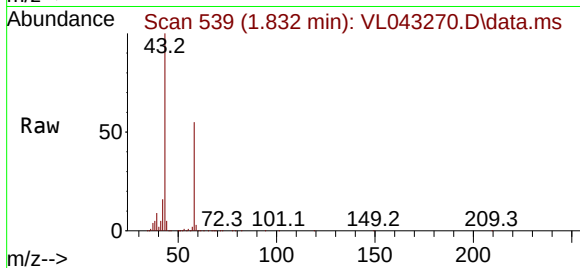




#15  
Acetone  
Concen: 182.878 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

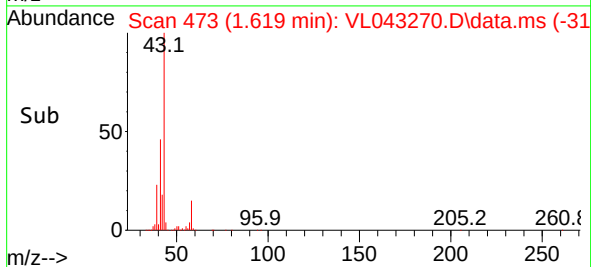
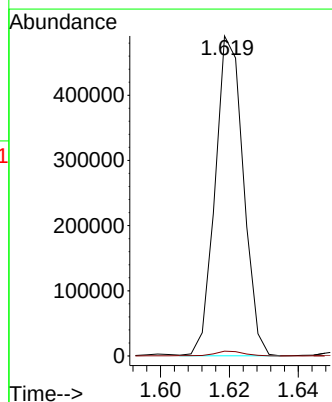
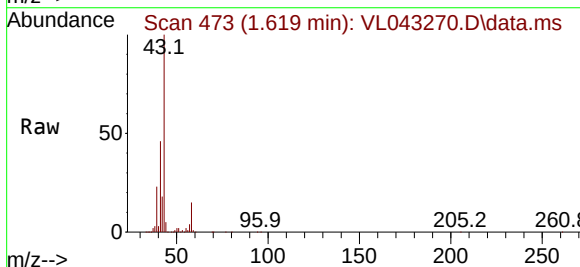
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MSVOA\_L  
ClientSampleId :  
IA1

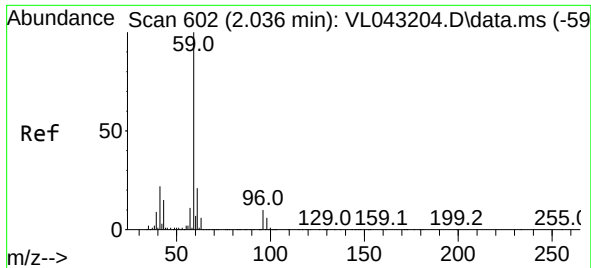
Tgt Ion: 43 Resp: 2648167  
Ion Ratio Lower Upper  
43 100  
58 42.2 20.7 31.1#



#16  
1,3-Butadiene  
Concen: 43.251 ppbv  
RT: 1.619 min Scan# 473  
Delta R.T. 0.013 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 39 Resp: 279214  
Ion Ratio Lower Upper  
39 100  
54 1.7 59.4 89.2#

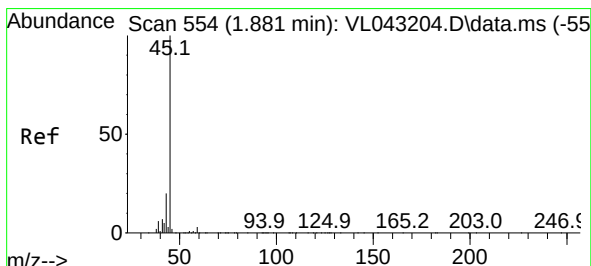
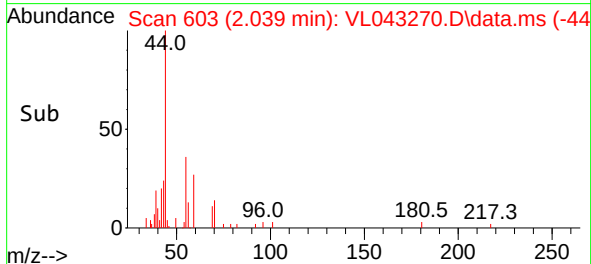
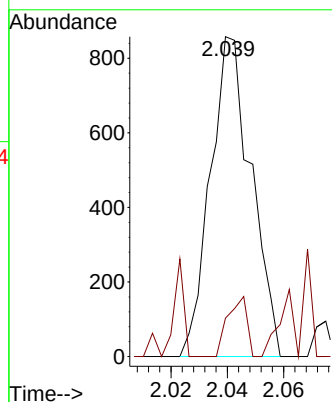
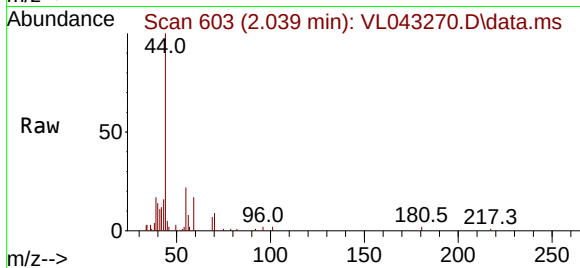




#17  
tert-Butyl alcohol  
Concen: 0.046 ppbv  
RT: 2.039 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

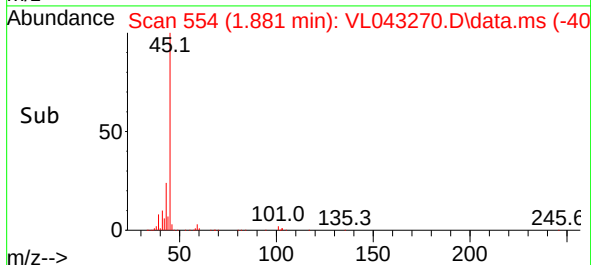
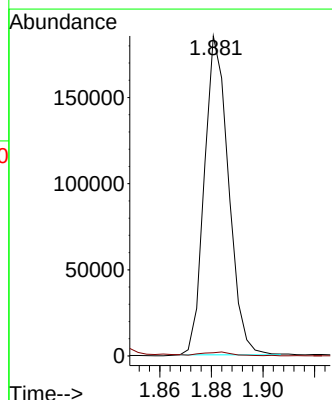
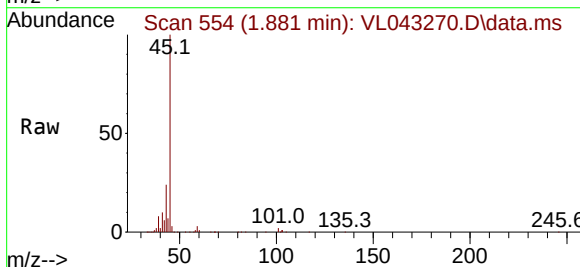
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA1

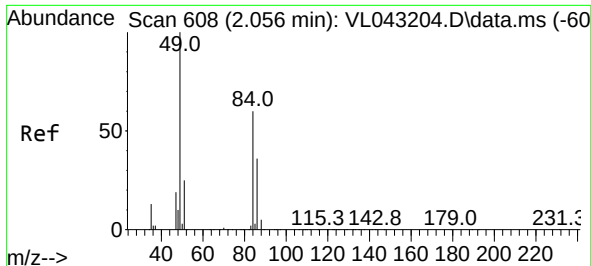
Tgt Ion: 59 Resp: 865  
Ion Ratio Lower Upper  
59 100  
57 741.2 9.0 13.4#



#19  
Isopropyl Alcohol  
Concen: 14.741 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 45 Resp: 120618  
Ion Ratio Lower Upper  
45 100  
58 0.0 31.3 46.9#

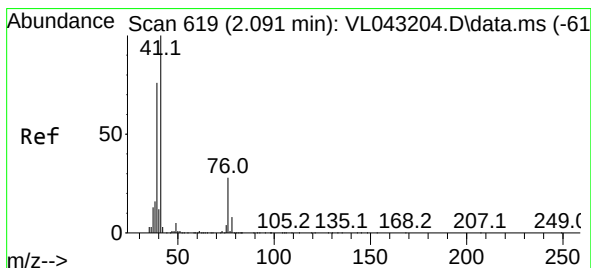
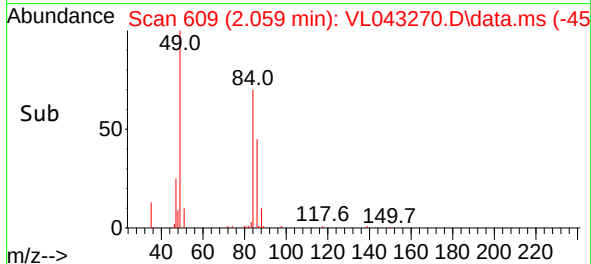
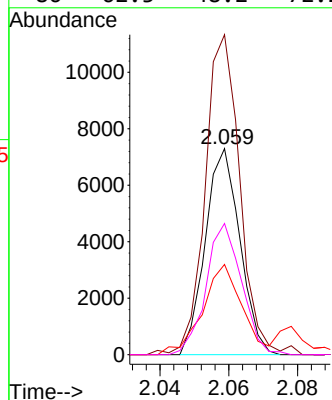
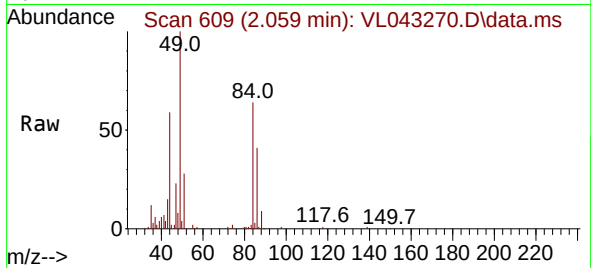




#20  
Methylene Chloride  
Concen: 0.446 ppbv  
RT: 2.059 min Scan# 608  
Delta R.T. 0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

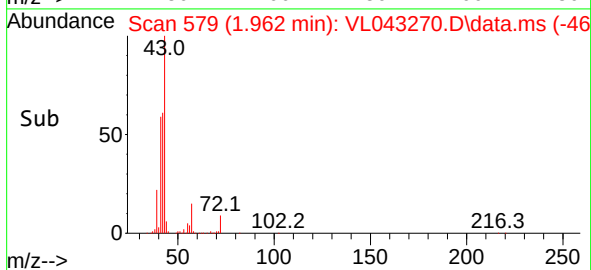
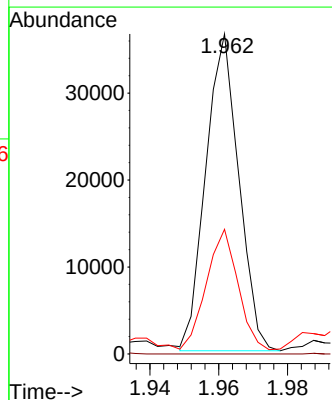
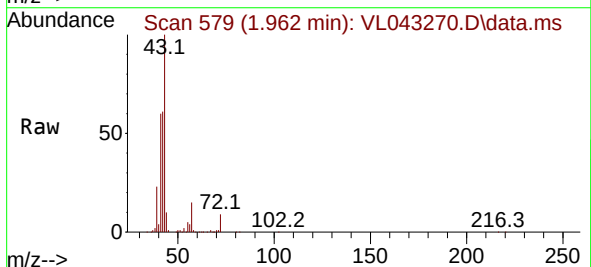
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

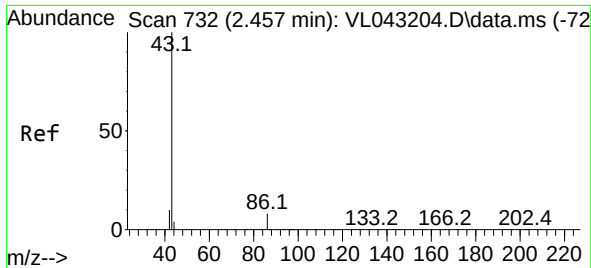
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5103  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 159.1 | 132.9 | 199.3 |
| 51       | 40.3  | 34.8  | 52.2  |
| 86       | 62.3  | 48.2  | 72.2  |



#21  
Allyl Chloride  
Concen: 2.495 ppbv  
RT: 1.962 min Scan# 579  
Delta R.T. -0.130 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 24305 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 0.3   | 22.1  | 33.1# |
| 39       | 0.0   | 61.0  | 91.4# |

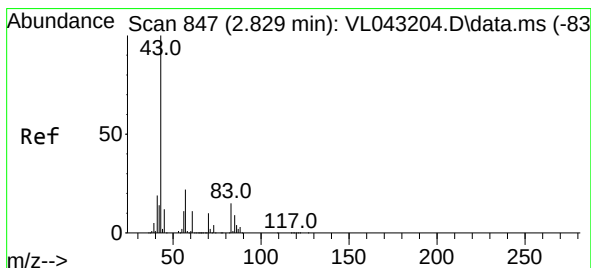
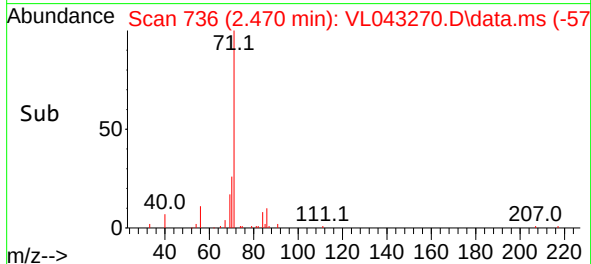
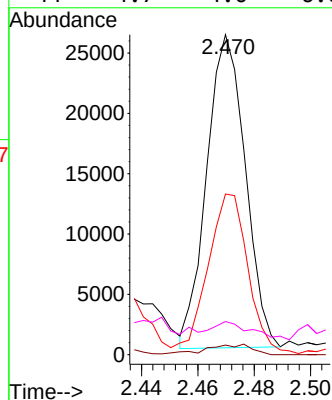
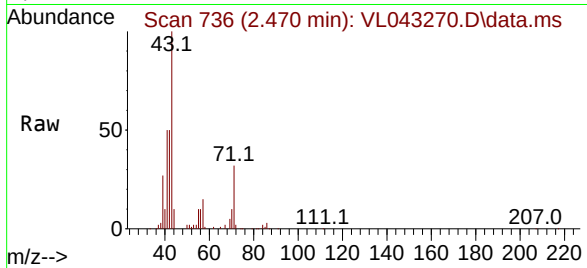




#23  
 Vinyl Acetate  
 Concen: 1.413 ppbv  
 RT: 2.470 min Scan# 71  
 Delta R.T. 0.013 min  
 Lab File: VL043270.D  
 Acq: 20 Nov 2025 18:02

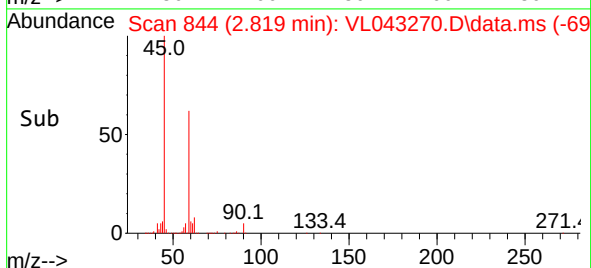
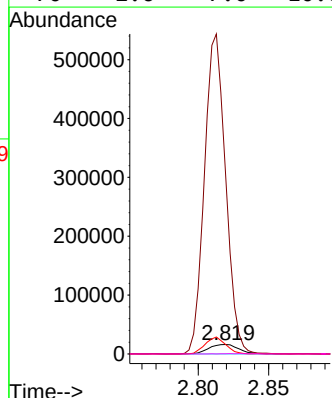
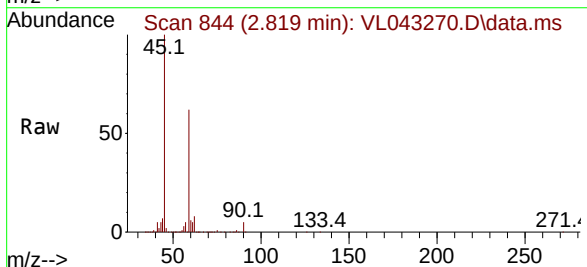
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

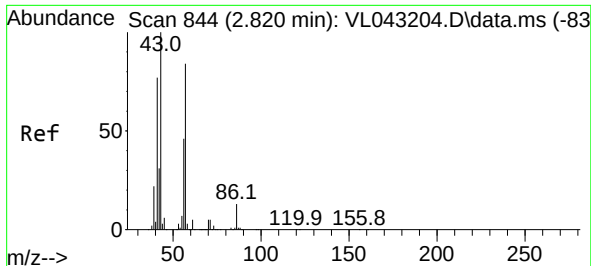
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 43 | Resp: | 24703 |
| Ion | Ratio   | Lower | Upper |
| 43  | 100     |       |       |
| 86  | 3.1     | 6.2   | 9.2#  |
| 42  | 49.9    | 8.0   | 12.0# |
| 44  | 4.7     | 4.0   | 6.0   |



#25  
 Ethyl Acetate  
 Concen: 0.759 ppbv  
 RT: 2.819 min Scan# 844  
 Delta R.T. -0.010 min  
 Lab File: VL043270.D  
 Acq: 20 Nov 2025 18:02

|             |             |       |       |
|-------------|-------------|-------|-------|
| Tgt Ion: 43 | Resp: 23700 |       |       |
| Ion         | Ratio       | Lower | Upper |
| 43          | 100         |       |       |
| 45          | 2412.4      | 8.1   | 12.1# |
| 61          | 125.4       | 7.0   | 10.4# |
| 70          | 2.6         | 7.0   | 10.6# |

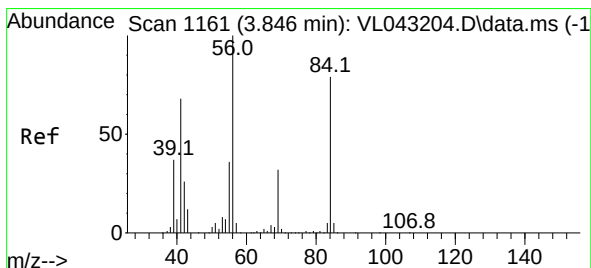
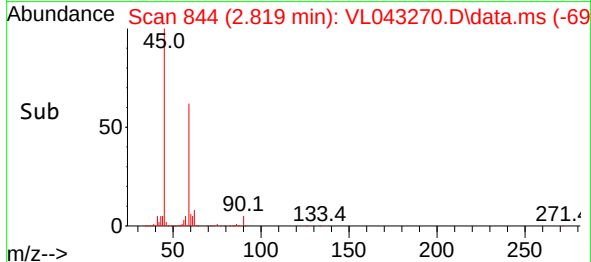
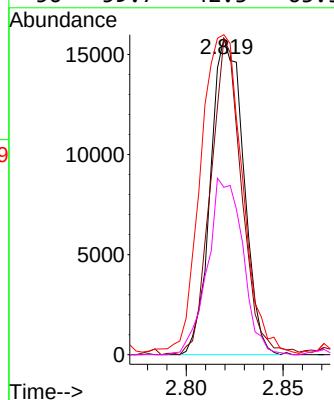
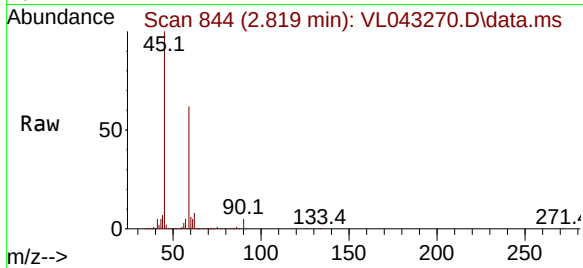




#26  
Hexane  
Concen: 1.364 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

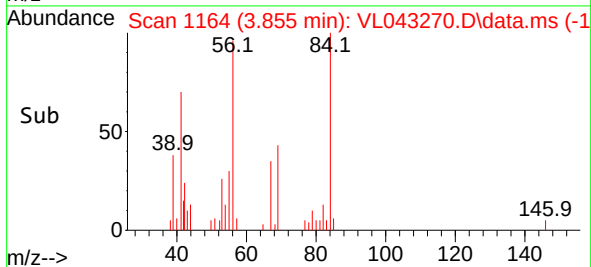
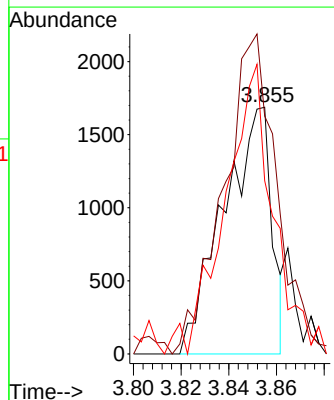
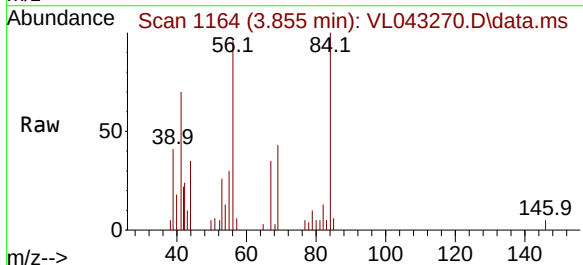
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

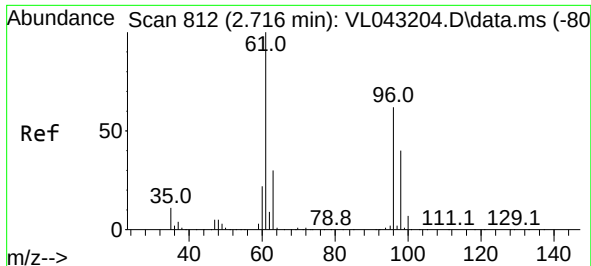
Tgt Ion: 57 Resp: 18674  
Ion Ratio Lower Upper  
57 100  
41 95.2 74.6 111.8  
43 124.5 179.0 268.4#  
56 59.7 42.3 63.5



#30  
Cyclohexane  
Concen: 0.207 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. 0.009 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 84 Resp: 2372  
Ion Ratio Lower Upper  
84 100  
56 145.5 104.7 157.1  
41 123.5 69.0 103.6#

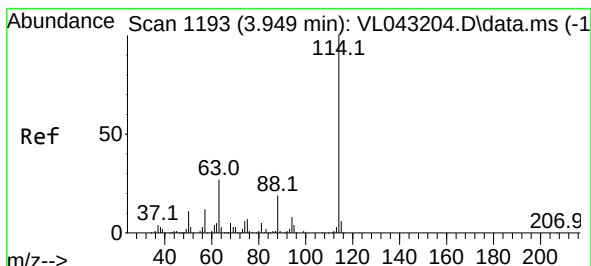
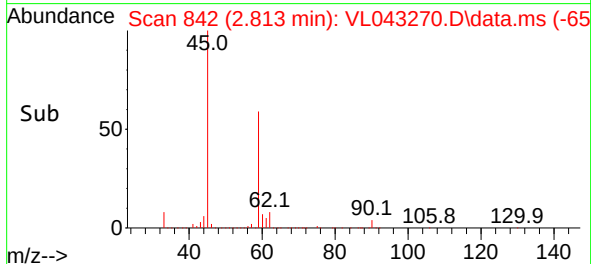
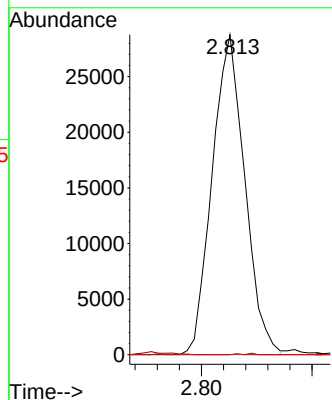
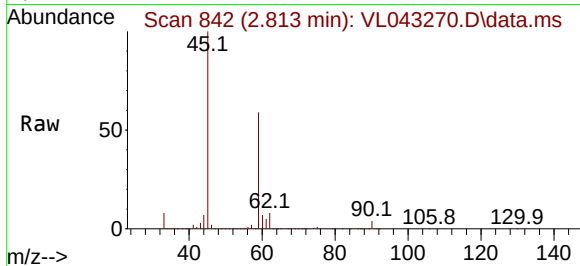




#31  
 cis-1,2-Dichloroethene  
 Concen: 2.162 ppbv  
 RT: 2.813 min Scan# 842  
 Delta R.T. 0.097 min  
 Lab File: VL043270.D  
 Acq: 20 Nov 2025 18:02

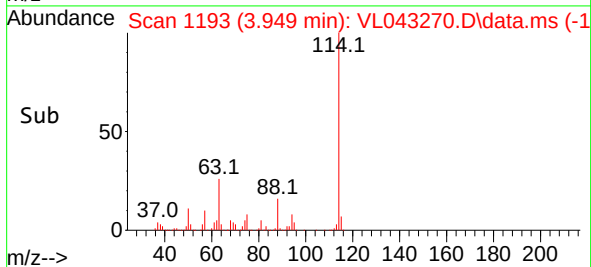
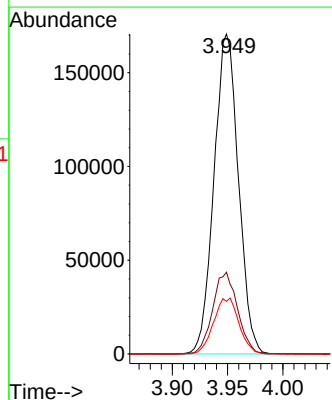
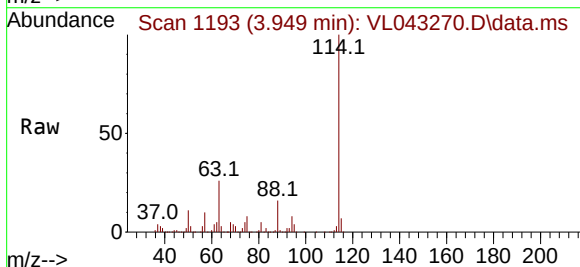
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

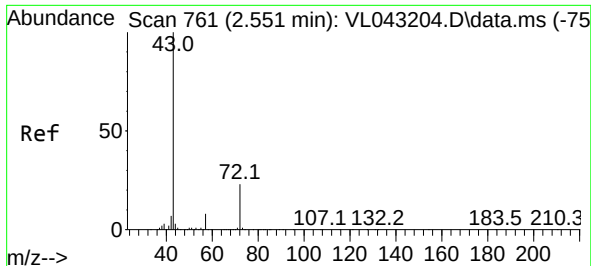
Tgt Ion: 61 Resp: 29420  
 Ion Ratio Lower Upper  
 61 100  
 96 0.0 49.3 73.9#  
 98 0.0 32.1 48.1#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.949 min Scan# 1193  
 Delta R.T. -0.000 min  
 Lab File: VL043270.D  
 Acq: 20 Nov 2025 18:02

Tgt Ion: 114 Resp: 262002  
 Ion Ratio Lower Upper  
 114 100  
 63 26.1 21.0 31.6  
 88 18.2 14.9 22.3

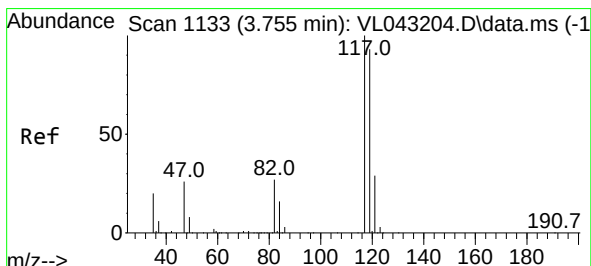
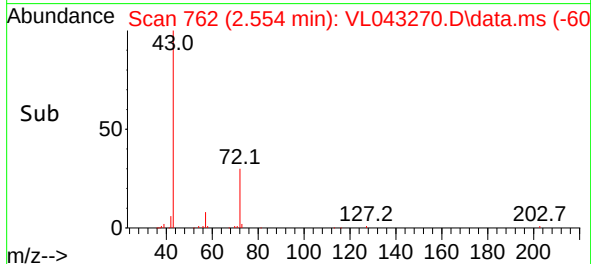
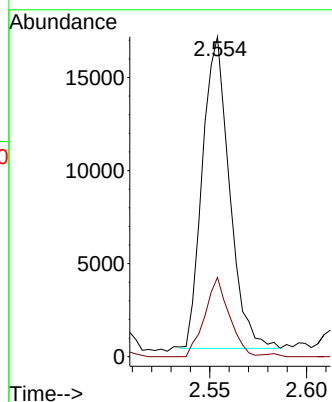
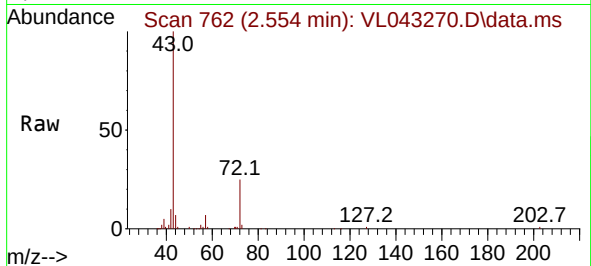




#34  
2-Butanone  
Concen: 0.880 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. 0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

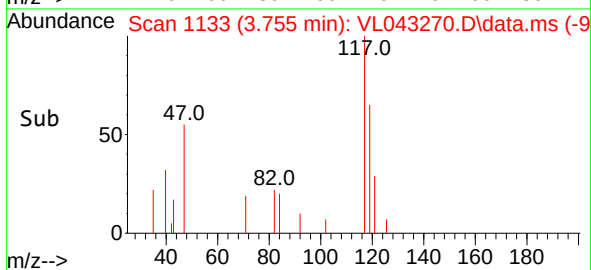
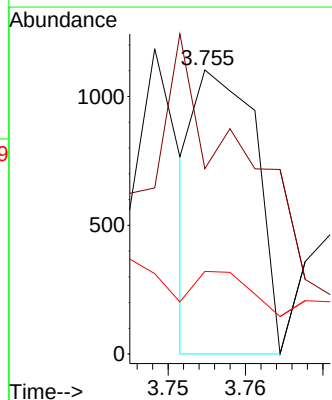
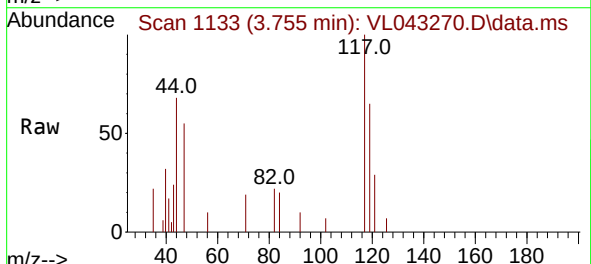
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion: 43 Resp: 16273  
Ion Ratio Lower Upper  
43 100  
72 23.5 18.1 27.1

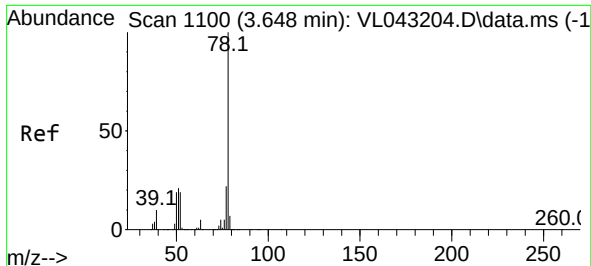


#35  
Carbon Tetrachloride  
Concen: 0.030 ppbv  
RT: 3.755 min Scan# 1133  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 117 Resp: 597  
Ion Ratio Lower Upper  
117 100  
119 0.3 74.6 112.0#  
121 15.9 23.2 34.8#



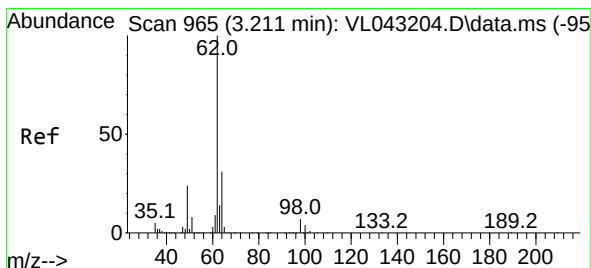
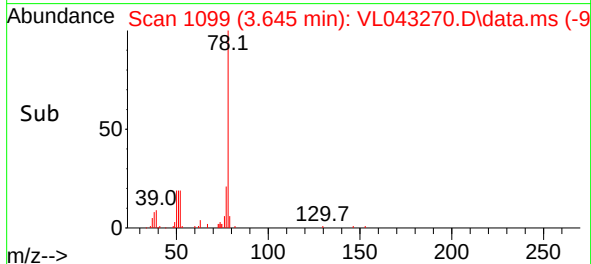
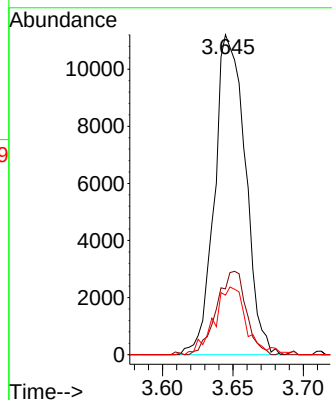
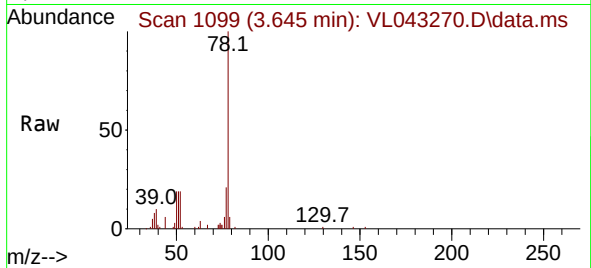




#36  
Benzene  
Concen: 0.679 ppbv  
RT: 3.645 min Scan# 1100  
Delta R.T. -0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

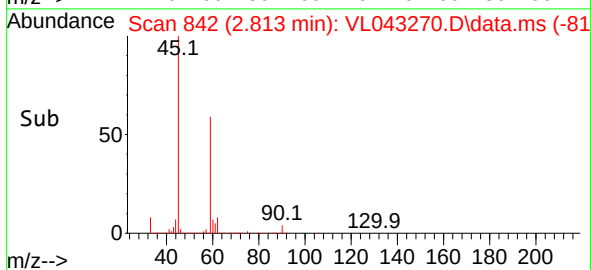
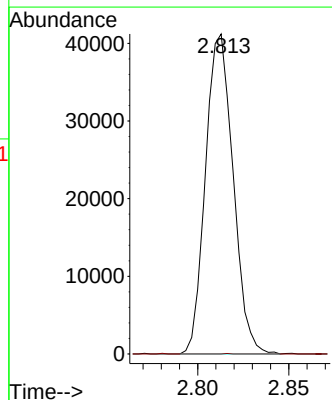
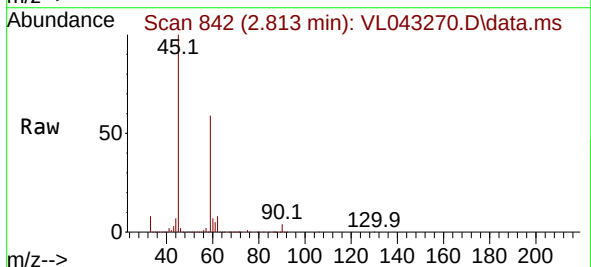
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

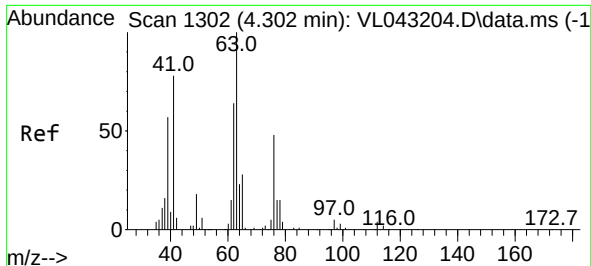
Tgt Ion: 78 Resp: 17039  
Ion Ratio Lower Upper  
78 100  
77 20.1 17.5 26.3  
50 18.0 15.5 23.3



#37  
1,2-Dichloroethane  
Concen: 2.967 ppbv  
RT: 2.813 min Scan# 842  
Delta R.T. -0.398 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 62 Resp: 43545  
Ion Ratio Lower Upper  
62 100  
98 0.0 5.5 8.3#





#39

1,2-Dichloropropane

Concen: 7.427 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.353 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

Instrument :

MSVOA\_L

ClientSampleId :

IA1

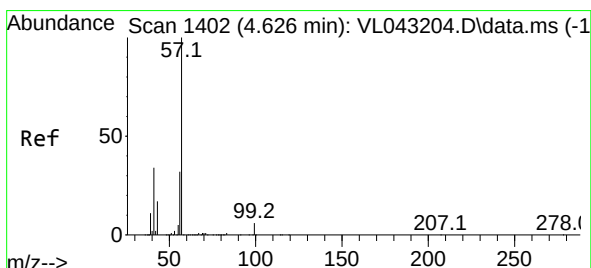
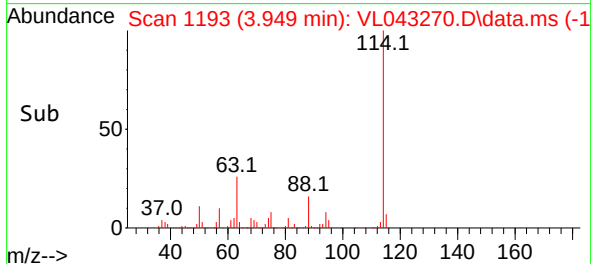
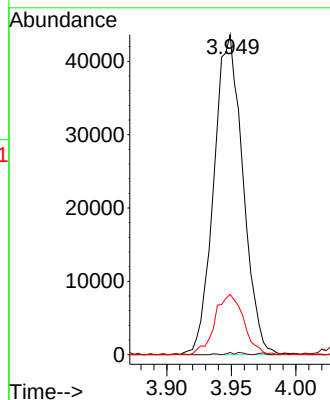
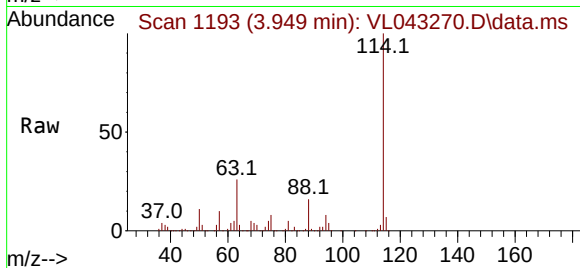
Tgt Ion: 63 Resp: 68202

Ion Ratio Lower Upper

63 100

41 0.7 62.6 93.8#

62 18.8 51.0 76.6#



#44

2,2,4-Trimethylpentane

Concen: 0.156 ppbv

RT: 4.629 min Scan# 1403

Delta R.T. 0.003 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

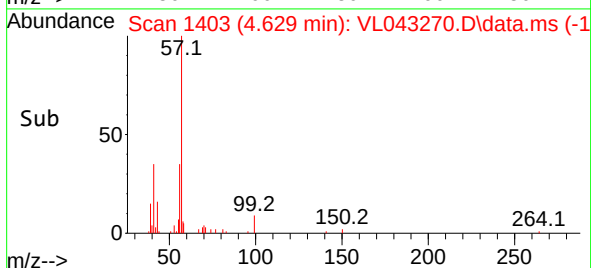
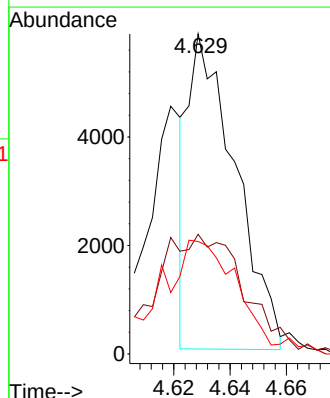
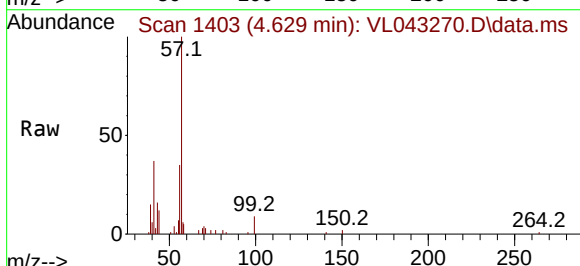
Tgt Ion: 57 Resp: 6710

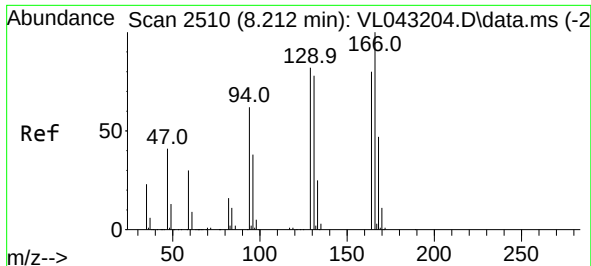
Ion Ratio Lower Upper

57 100

41 89.8 28.0 42.0#

56 80.3 25.6 38.4#

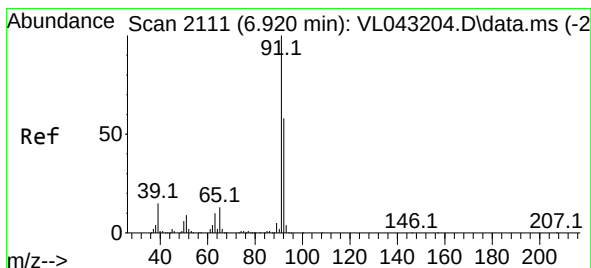
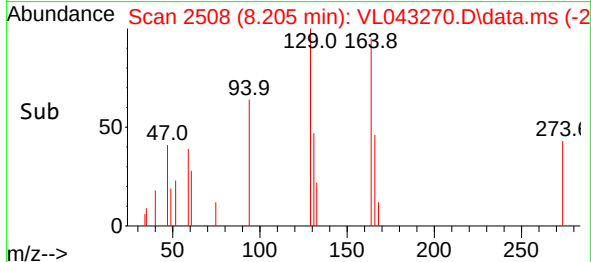
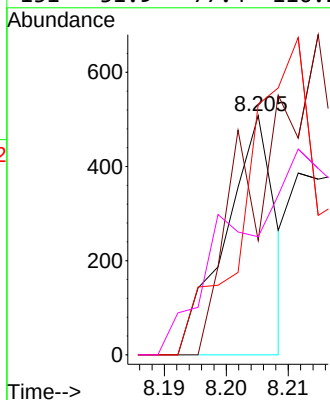
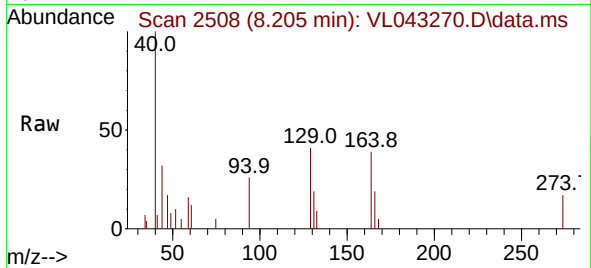




#52  
Tetrachloroethene  
Concen: 0.030 ppbv  
RT: 8.205 min Scan# 2110  
Delta R.T. -0.007 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

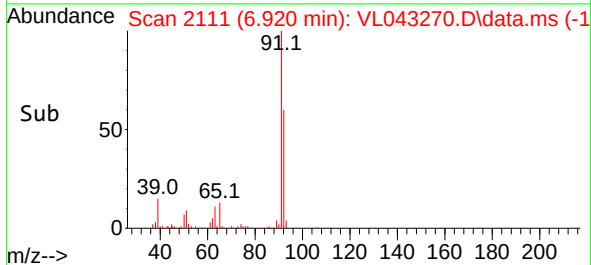
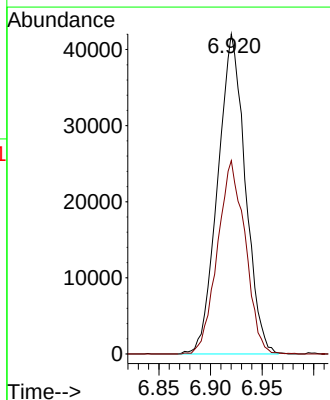
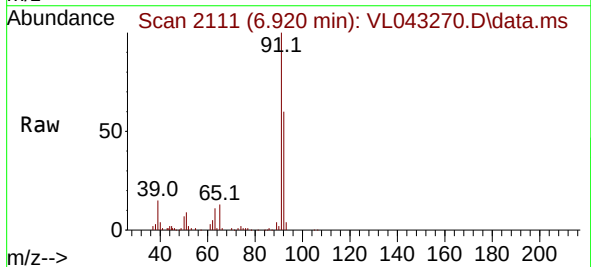
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA1

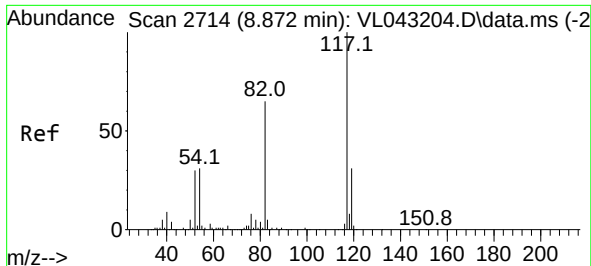
Tgt Ion:164 Resp: 283  
Ion Ratio Lower Upper  
164 100  
166 47.8 99.4 149.2#  
129 104.7 81.8 122.8  
131 31.9 77.4 116.2#



#53  
Toluene  
Concen: 2.626 ppbv  
RT: 6.920 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 91 Resp: 78010  
Ion Ratio Lower Upper  
91 100  
92 60.9 47.4 71.0

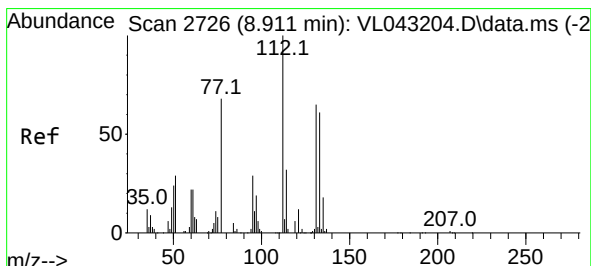
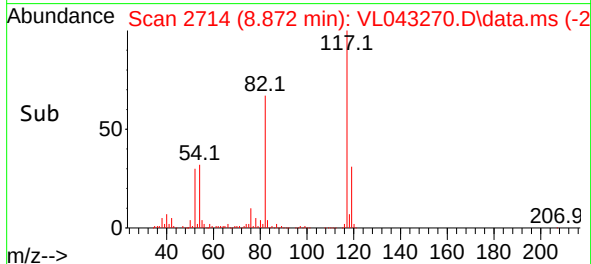
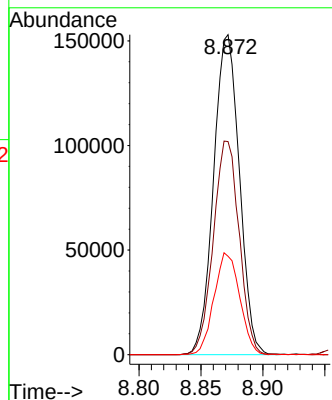
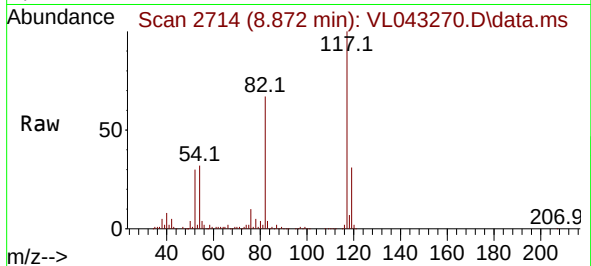




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 2711  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

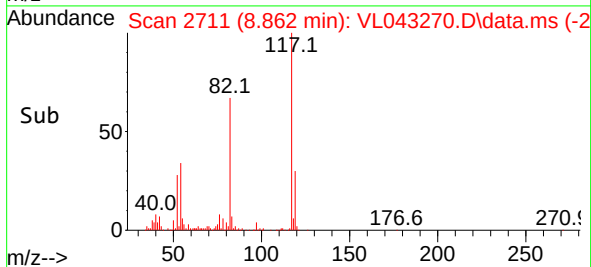
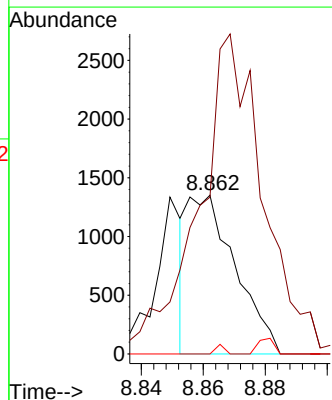
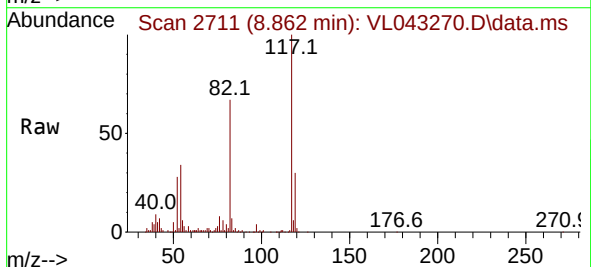
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

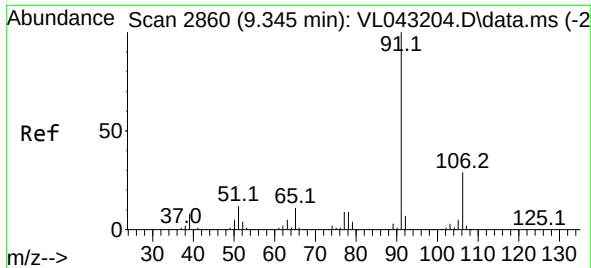
Tgt Ion:117 Resp: 222185  
Ion Ratio Lower Upper  
117 100  
82 66.9 56.1 84.1  
119 31.7 25.0 37.6



#57  
Chlorobenzene  
Concen: 0.064 ppbv  
RT: 8.862 min Scan# 2711  
Delta R.T. -0.049 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion:112 Resp: 1451  
Ion Ratio Lower Upper  
112 100  
77 46.1 55.5 83.3#  
114 0.0 29.1 35.5#

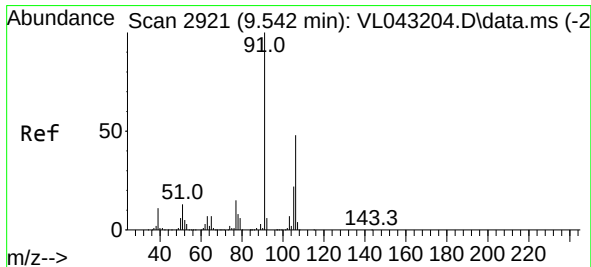
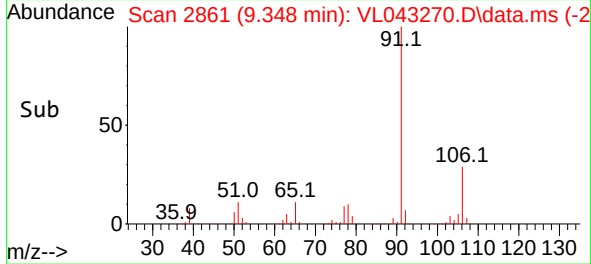
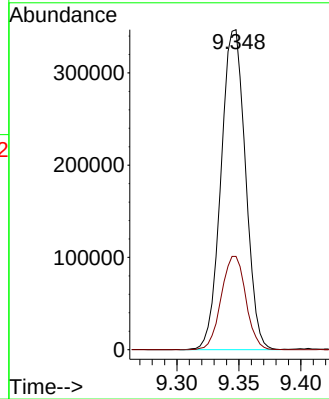
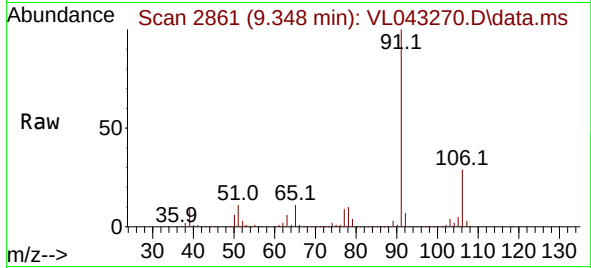




#58  
Ethyl Benzene  
Concen: 11.156 ppbv  
RT: 9.348 min Scan# 2860  
Delta R.T. 0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

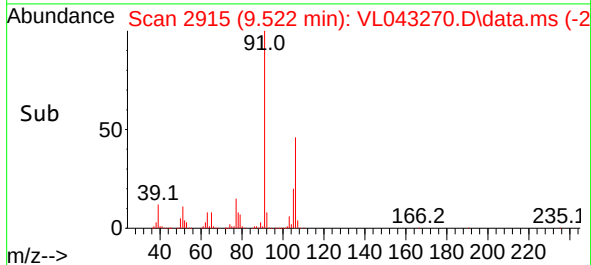
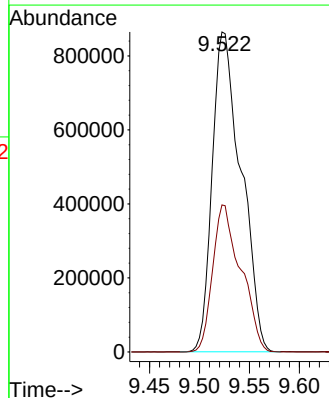
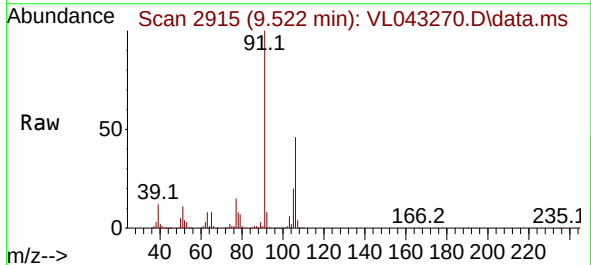
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA1

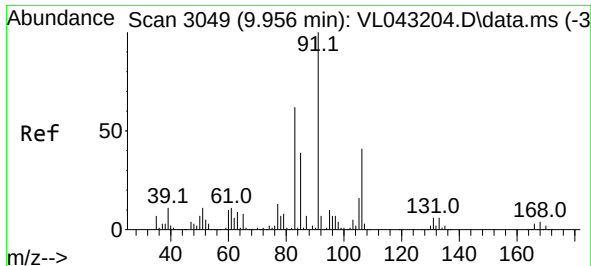
Tgt Ion: 91 Resp: 477084  
Ion Ratio Lower Upper  
91 100  
106 29.2 22.8 34.2



#59  
m/p-Xylene  
Concen: 50.776 ppbv  
RT: 9.522 min Scan# 2915  
Delta R.T. -0.020 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 91 Resp: 1740919  
Ion Ratio Lower Upper  
91 100  
106 44.8 36.1 54.1

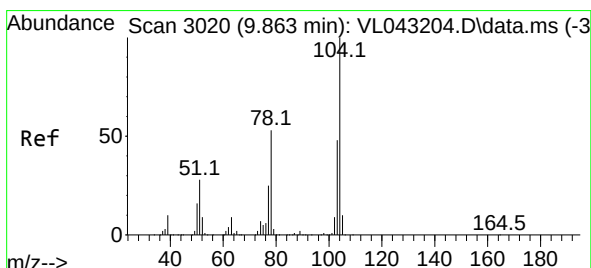
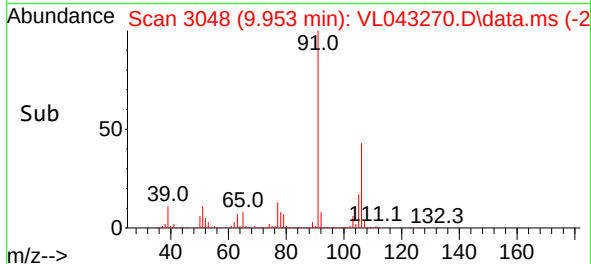
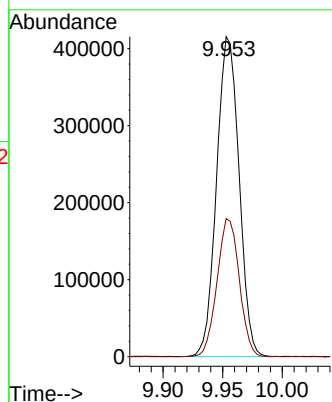
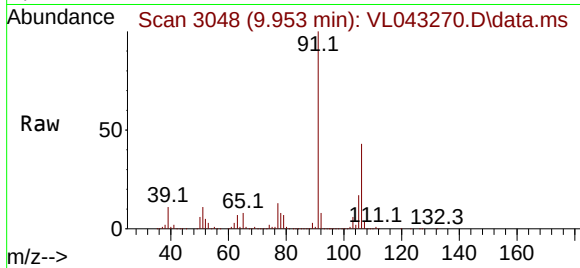




#60  
o-Xylene  
Concen: 15.880 ppbv  
RT: 9.953 min Scan# 3049  
Delta R.T. -0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

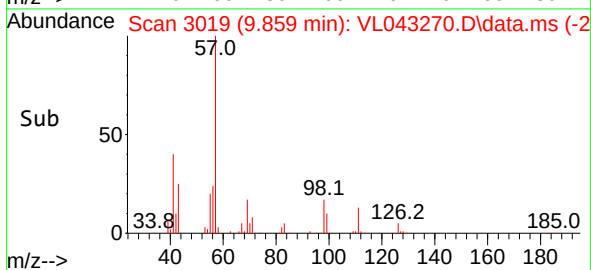
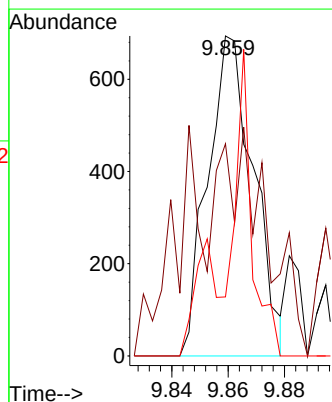
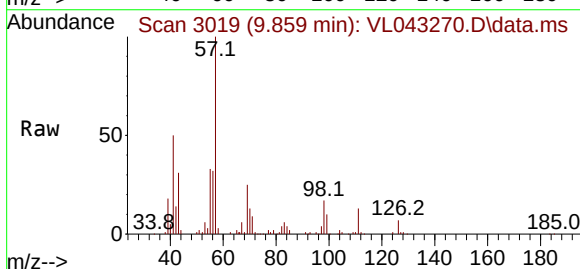
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA1

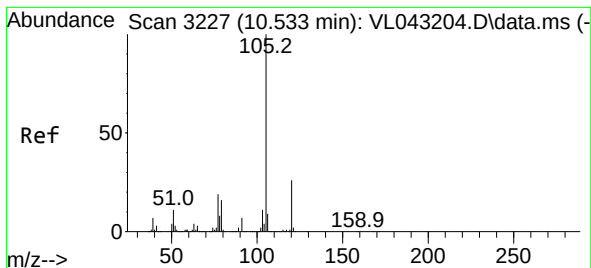
Tgt Ion: 91 Resp: 543908  
Ion Ratio Lower Upper  
91 100  
106 42.7 20.9 62.8



#61  
Styrene  
Concen: 0.052 ppbv  
RT: 9.859 min Scan# 3019  
Delta R.T. -0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion: 104 Resp: 783  
Ion Ratio Lower Upper  
104 100  
78 0.0 42.1 63.1#  
103 0.0 37.2 55.8#





#62

Isopropylbenzene

Concen: 0.055 ppbv

RT: 10.532 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

Instrument :

MSVOA\_L

ClientSampleId :

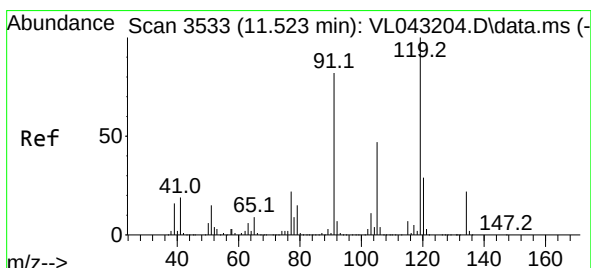
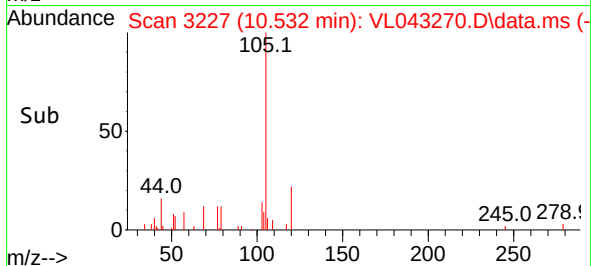
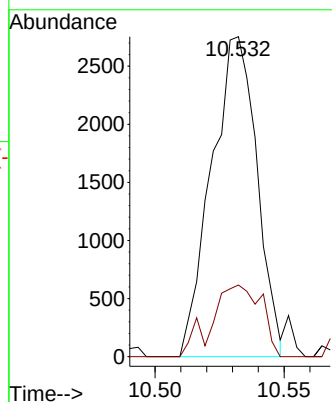
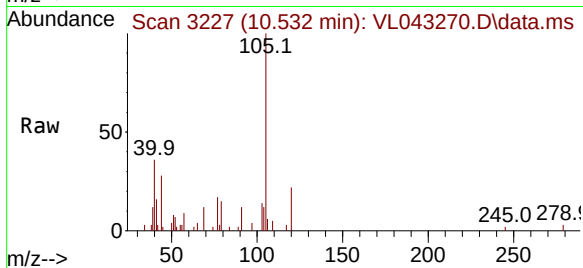
IA1

Tgt Ion:105 Resp: 3375

Ion Ratio Lower Upper

105 100

120 25.7 19.8 29.8



#65

tert-Butylbenzene

Concen: 0.036 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.006 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

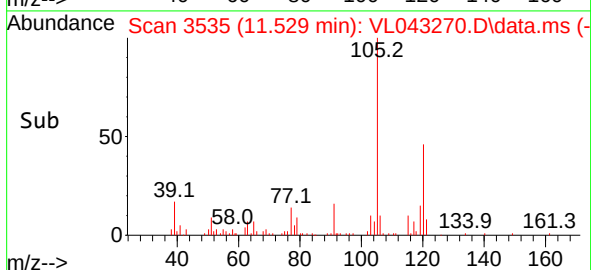
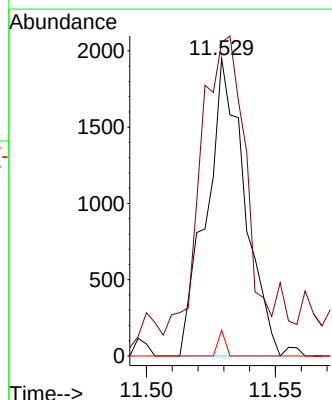
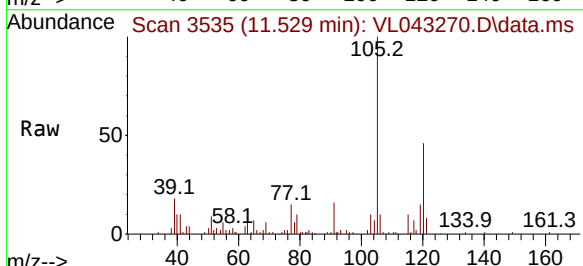
Tgt Ion:119 Resp: 1996

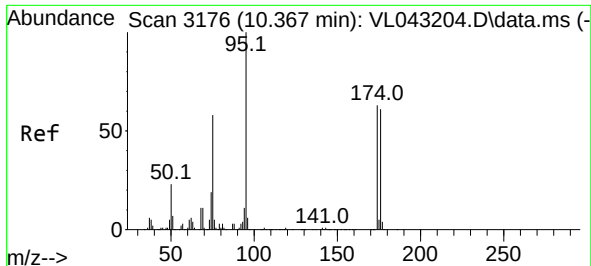
Ion Ratio Lower Upper

119 100

91 159.0 65.3 97.9#

134 0.0 17.0 25.4#

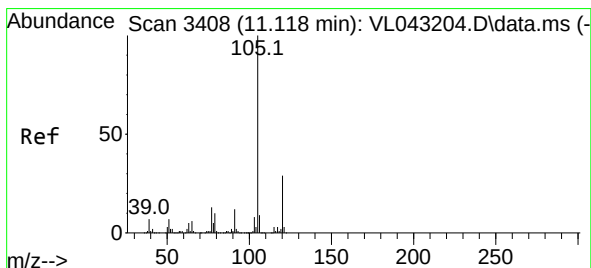
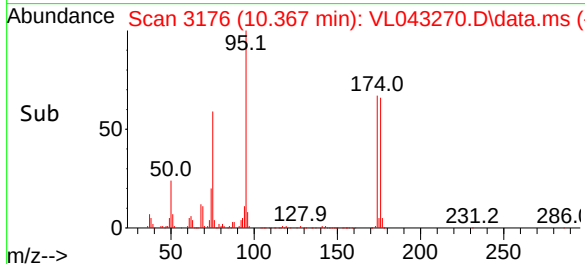
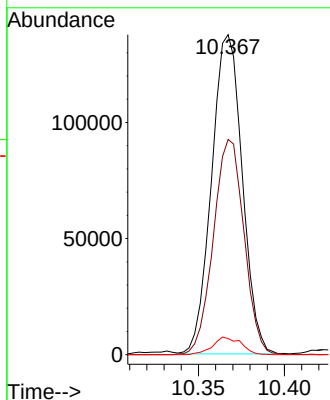
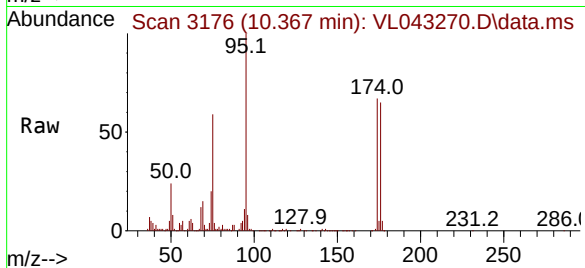




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.475 ppbv  
RT: 10.367 min Scan# 3176  
Delta R.T. -0.000 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

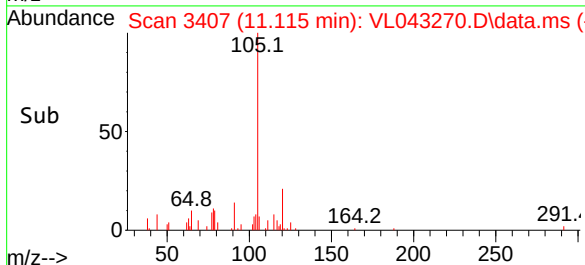
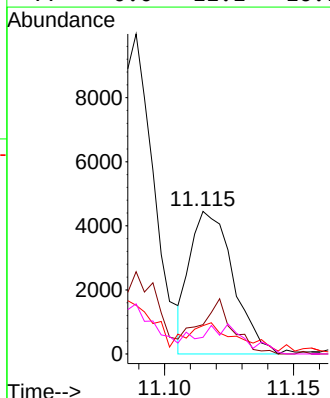
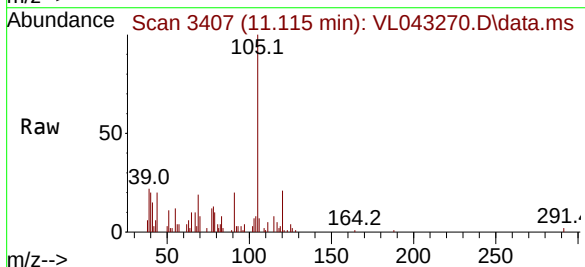
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion: 95 Resp: 170603  
Ion Ratio Lower Upper  
95 100  
174 67.3 50.2 75.2  
175 5.1 4.1 6.1

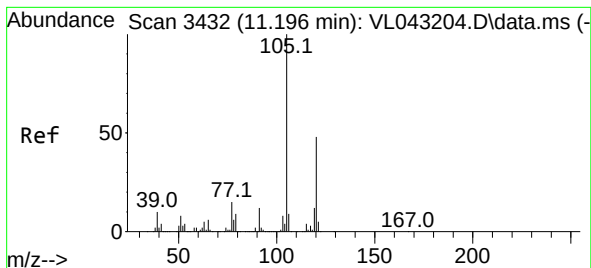


#72  
4-Ethyltoluene  
Concen: 0.125 ppbv  
RT: 11.115 min Scan# 3407  
Delta R.T. -0.003 min  
Lab File: VL043270.D  
Acq: 20 Nov 2025 18:02

Tgt Ion:105 Resp: 5206  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.8 35.8#  
91 0.0 10.3 15.5#  
77 0.0 11.1 16.7#







#73

1,3,5-Trimethylbenzene

Concen: 0.116 ppbv

RT: 11.196 min Scan# 3432

Delta R.T. -0.000 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

Instrument :

MSVOA\_1

ClientSampleId :

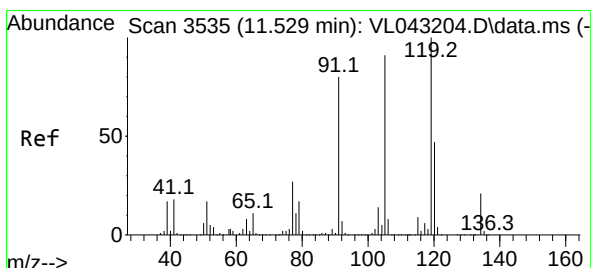
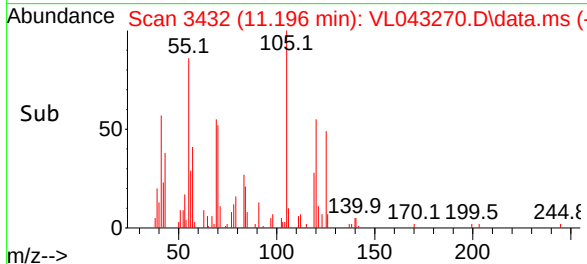
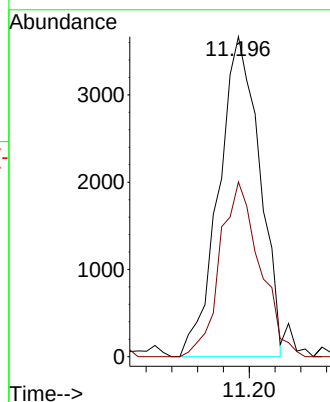
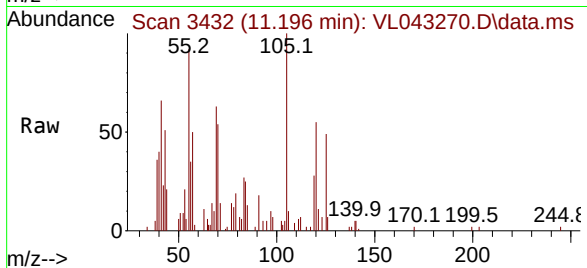
IA1

Tgt Ion:105 Resp: 4045

Ion Ratio Lower Upper

105 100

120 54.6 38.6 57.8



#74

1,2,4-Trimethylbenzene

Concen: 0.410 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.003 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

Tgt Ion:105 Resp: 15663

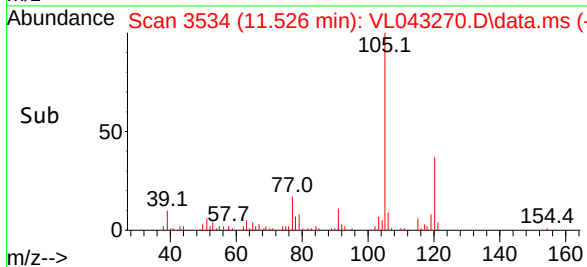
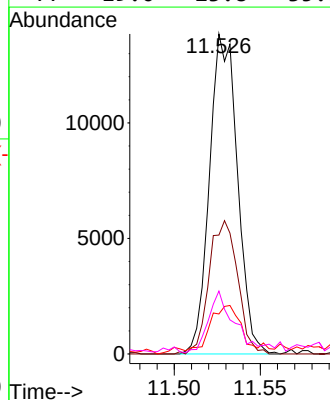
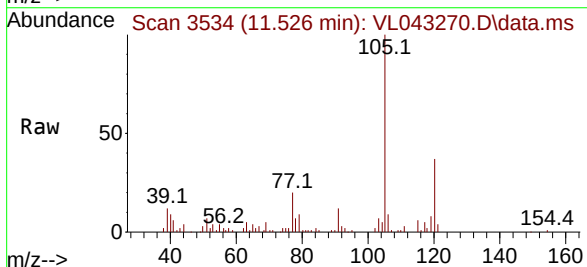
Ion Ratio Lower Upper

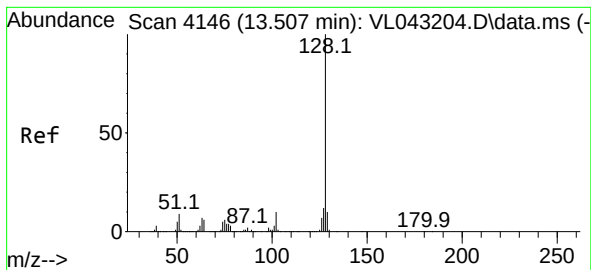
105 100

120 37.1 41.7 62.5#

91 10.9 70.0 105.0#

77 19.0 23.8 35.8#





#79

Naphthalene

Concen: 0.052 ppbv

RT: 13.510 min Scan# 4146

Delta R.T. 0.003 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

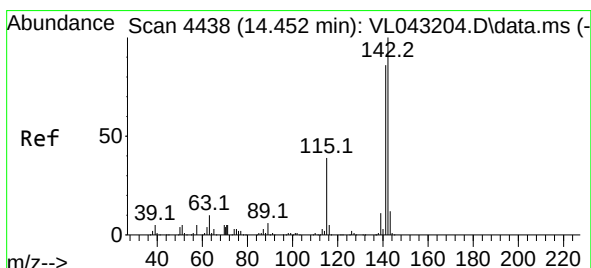
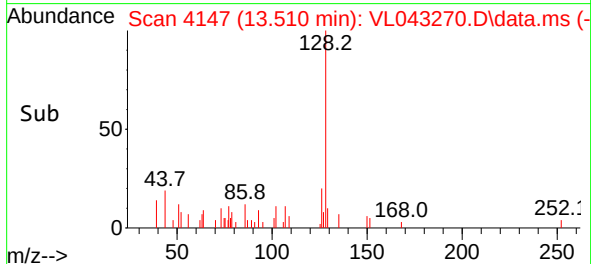
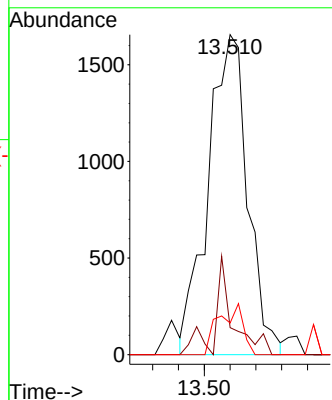
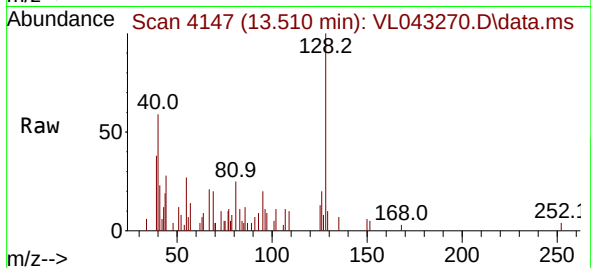
Instrument :

MSVOA\_L

ClientSampleId :

IA1

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 1770        |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 8.8   | 9.9 14.9#   |
| 129         | 10.3  | 8.4 12.6    |



#80

Naphthalene,2-methyl-

Concen: 0.048 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.003 min

Lab File: VL043270.D

Acq: 20 Nov 2025 18:02

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:142 | Resp: | 428         |
| Ion         | Ratio | Lower Upper |
| 142         | 100   |             |
| 141         | 87.9  | 67.1 100.7  |
| 115         | 60.7  | 31.9 47.9#  |

