

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042980.D  
 Acq On : 23 Sep 2025 04:44  
 Operator : SY/MD  
 Sample : Q3132-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 151-1A-2

Quant Time: Sep 24 01:16:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 23 02:39:16 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 144544   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 414049   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 363422   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 284547   | 10.489   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.900% |

| Target Compounds              |        |     |        |         |        | Qvalue |
|-------------------------------|--------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 8977   | 0.462   | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.466  | 51  | 20341  | 0.839   | ppbv # | 73     |
| 4) Chloromethane              | 1.534  | 50  | 4319   | 0.491   | ppbv # | 84     |
| 6) Bromomethane               | 1.664  | 94  | 91     | 0.032   | ppbv   | 84     |
| 9) Propene                    | 1.887  | 41  | 78927  | 7.487   | ppbv   | 88     |
| 10) Heptane                   | 4.988  | 43  | 5470   | 0.194   | ppbv # | 73     |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 8542   | 0.456   | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101 | 1008   | 0.066   | ppbv   | 91     |
| 13) Ethanol                   | 1.722  | 45  | 341697 | 334.148 | ppbv   | 96     |
| 15) Acetone                   | 1.839  | 43  | 295004 | 15.670  | ppbv   | 91     |
| 16) 1,3-Butadiene             | 1.606  | 39  | 1393   | 0.157   | ppbv # | 11     |
| 17) tert-Butyl alcohol        | 1.887  | 59  | 32235  | 1.561   | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 1.887  | 45  | 847050 | 74.844  | ppbv # | 38     |
| 20) Methylene Chloride        | 2.065  | 84  | 7194   | 0.656   | ppbv # | 83     |
| 21) Allyl Chloride            | 2.081  | 41  | 2009   | 0.153   | ppbv # | 1      |
| 23) Vinyl Acetate             | 2.476  | 43  | 34411  | 1.279   | ppbv # | 54     |
| 25) Ethyl Acetate             | 2.832  | 43  | 85787  | 1.803   | ppbv # | 92     |
| 26) Hexane                    | 2.832  | 57  | 73023  | 3.367   | ppbv # | 57     |
| 27) Carbon Disulfide          | 2.153  | 76  | 820    | 0.042   | ppbv # | 43     |
| 29) Chloroform                | 2.852  | 83  | 26341  | 0.929   | ppbv   | 97     |
| 30) Cyclohexane               | 3.865  | 84  | 2892   | 0.159   | ppbv # | 30     |
| 31) cis-1,2-Dichloroethene    | 2.842  | 61  | 4437   | 0.218   | ppbv # | 24     |
| 34) 2-Butanone                | 2.564  | 43  | 15549  | 0.536   | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.765  | 117 | 980    | 0.036   | ppbv # | 83     |
| 36) Benzene                   | 3.661  | 78  | 17329  | 0.446   | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.221  | 62  | 4279   | 0.209   | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 3.962  | 63  | 105834 | 7.456   | ppbv # | 24     |
| 41) Tetrahydrofuran           | 3.069  | 42  | 2271   | 0.136   | ppbv # | 60     |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57  | 13143  | 0.196   | ppbv # | 59     |
| 52) Tetrachloroethene         | 8.234  | 164 | 469    | 0.031   | ppbv # | 31     |
| 53) Toluene                   | 6.940  | 91  | 60968  | 1.325   | ppbv   | 100    |
| 58) Ethyl Benzene             | 9.357  | 91  | 14102  | 0.236   | ppbv   | 99     |
| 59) m/p-Xylene                | 9.535  | 91  | 39034  | 0.830   | ppbv # | 100    |
| 60) o-Xylene                  | 9.969  | 91  | 12216  | 0.260   | ppbv   | 94     |
| 61) Styrene                   | 9.872  | 104 | 4201   | 0.189   | ppbv   | 94     |
| 69) p-Isopropyltoluene        | 11.927 | 119 | 4561   | 0.062   | ppbv   | 98     |
| 72) 4-Ethyltoluene            | 11.131 | 105 | 3946   | 0.067   | ppbv # | 61     |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105 | 3224   | 0.067   | ppbv   | 90     |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105 | 12546  | 0.238   | ppbv # | 67     |
| 79) Naphthalene               | 13.517 | 128 | 2765   | 0.059   | ppbv # | 94     |
| 80) Naphthalene,2-methyl-     | 14.465 | 142 | 2846   | 0.198   | ppbv   | 90     |

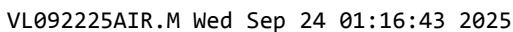
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042980.D  
Acq On : 23 Sep 2025 04:44  
Operator : SY/MD  
Sample : Q3132-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

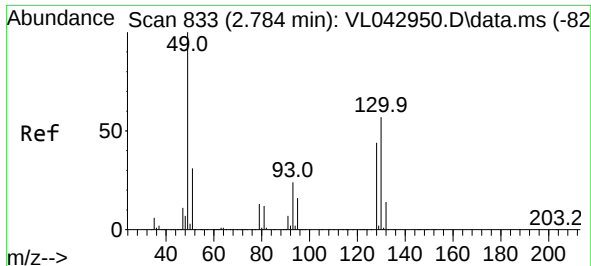
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

Quant Time: Sep 24 01:16:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

Quant Time: Sep 24 01:16:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

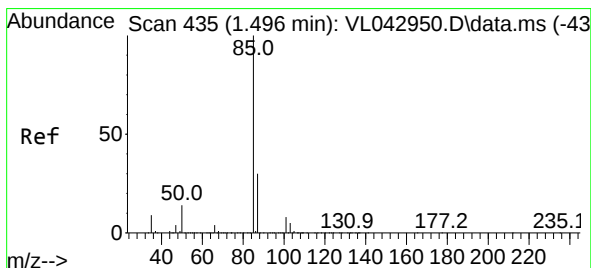
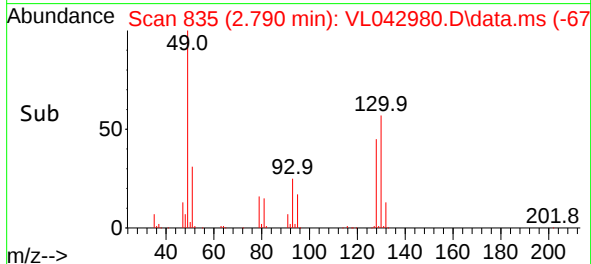
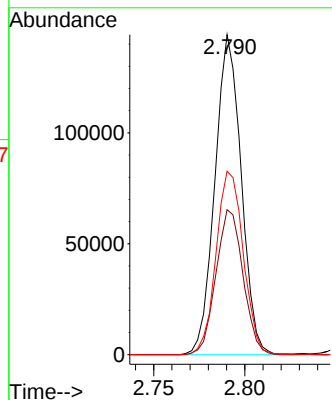
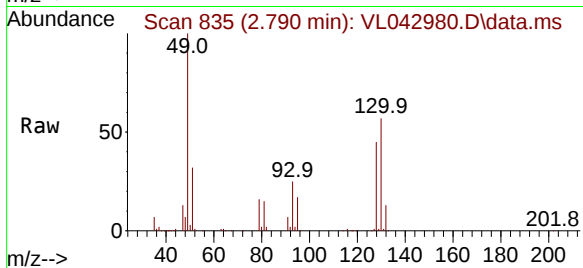




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

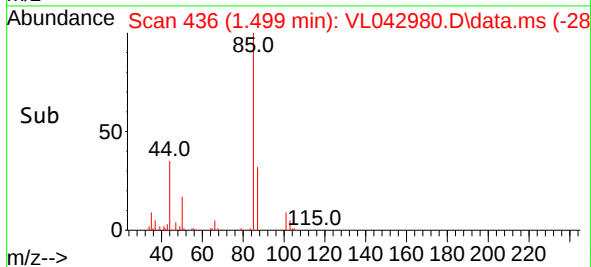
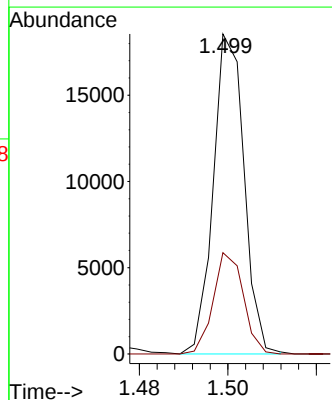
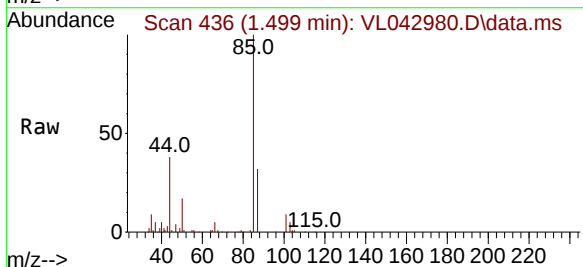
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

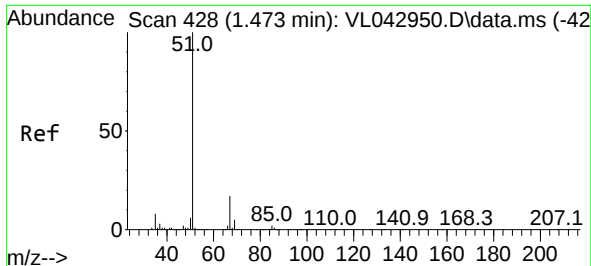
Tgt Ion: 49 Resp: 144544  
Ion Ratio Lower Upper  
49 100  
128 46.6 22.9 68.8  
130 59.4 29.1 87.3



#2  
Dichlorodifluoromethane  
Concen: 0.462 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 85 Resp: 8977  
Ion Ratio Lower Upper  
85 100  
87 31.6 24.3 36.5

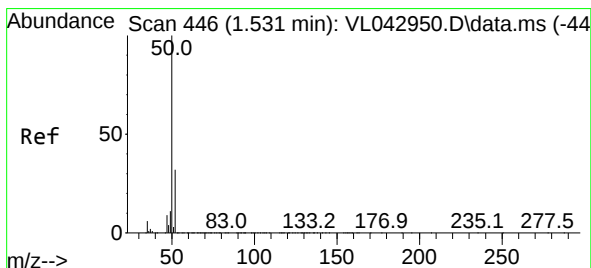
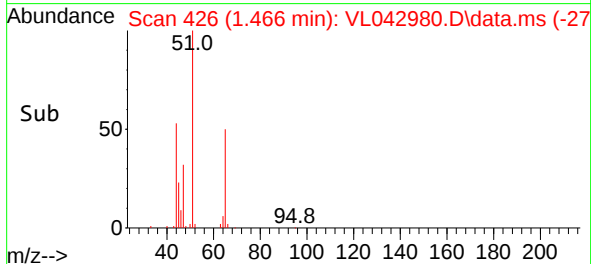
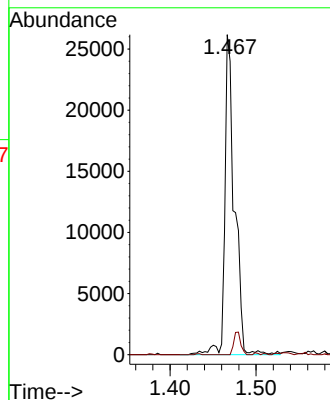
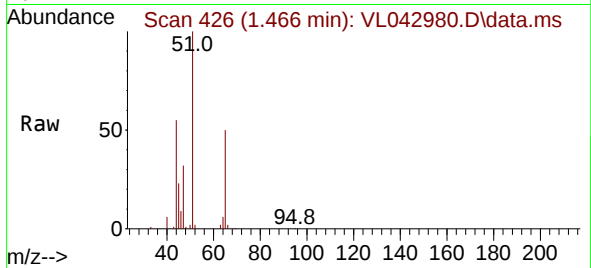




#3  
 Chlorodifluoromethane  
 Concen: 0.839 ppbv  
 RT: 1.466 min Scan# 41  
 Delta R.T. -0.007 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

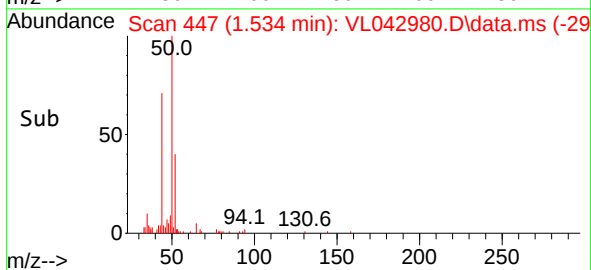
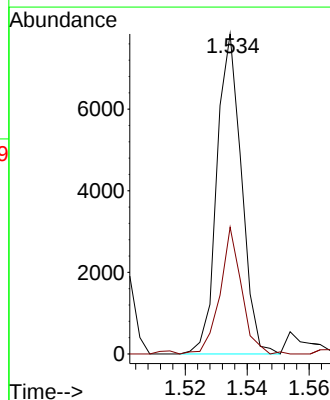
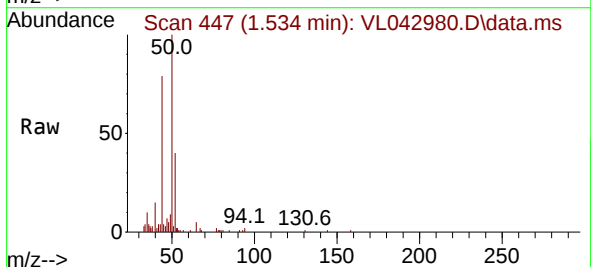
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 151-1A-2

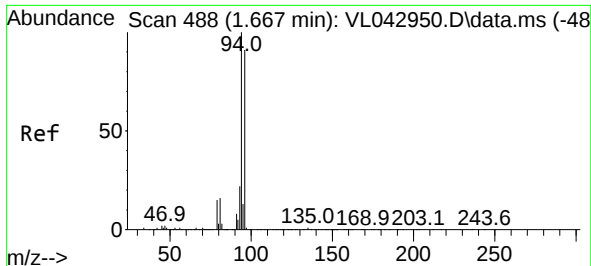
Tgt Ion: 51 Resp: 20341  
 Ion Ratio Lower Upper  
 51 100  
 67 5.5 13.8 20.8#



#4  
 Chloromethane  
 Concen: 0.491 ppbv  
 RT: 1.534 min Scan# 447  
 Delta R.T. 0.003 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

Tgt Ion: 50 Resp: 4319  
 Ion Ratio Lower Upper  
 50 100  
 52 41.4 25.9 38.9#

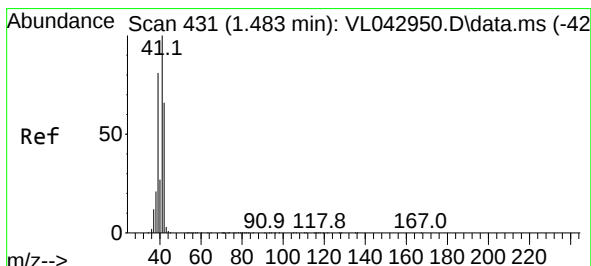
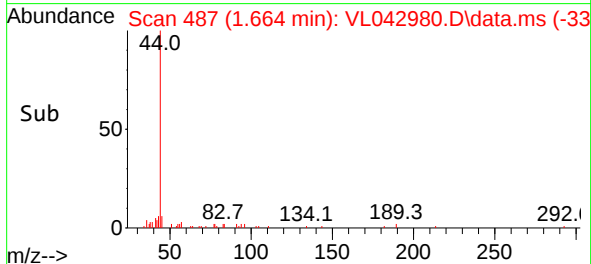
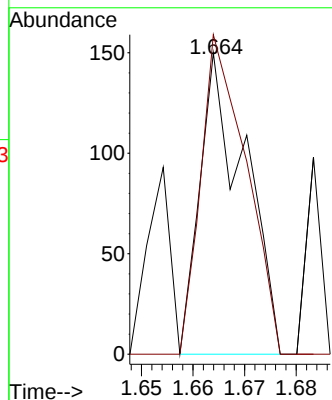
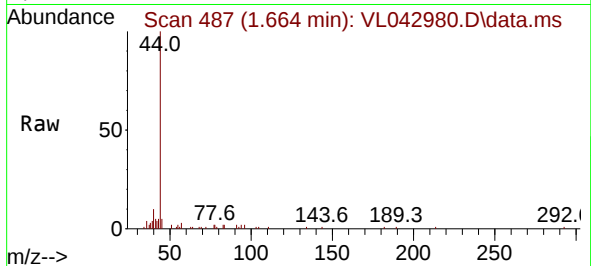




#6  
Bromomethane  
Concen: 0.032 ppbv  
RT: 1.664 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

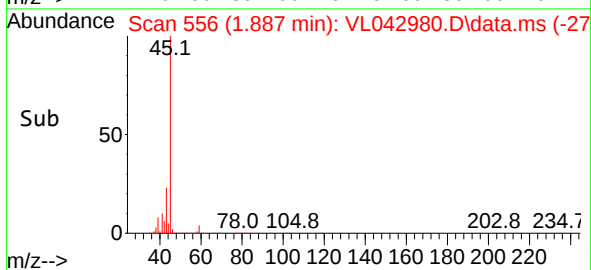
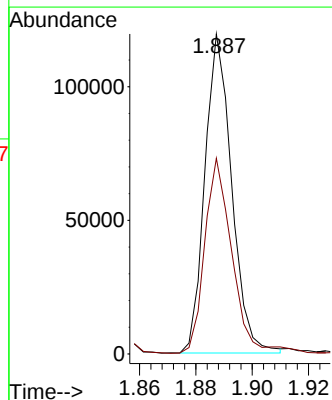
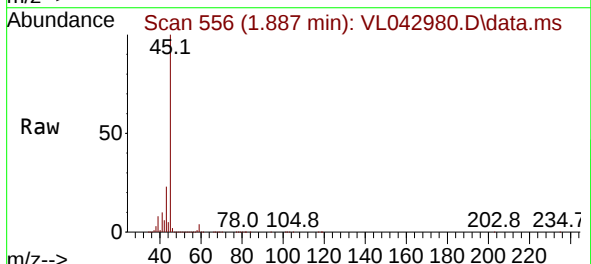
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-1A-2

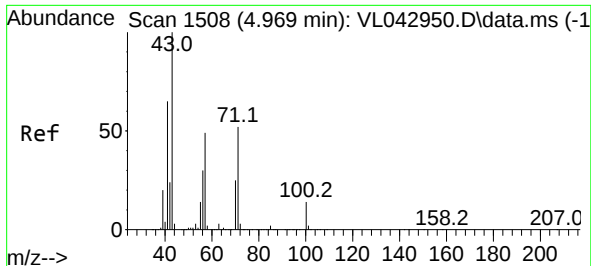
Tgt Ion: 94 Resp: 91  
Ion Ratio Lower Upper  
94 100  
96 106.0 72.6 108.8



#9  
Propene  
Concen: 7.487 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.405 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 41 Resp: 78927  
Ion Ratio Lower Upper  
41 100  
42 61.8 57.4 86.2

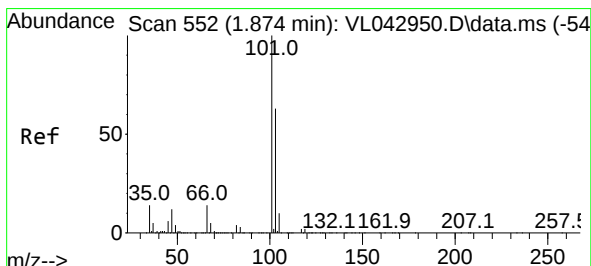
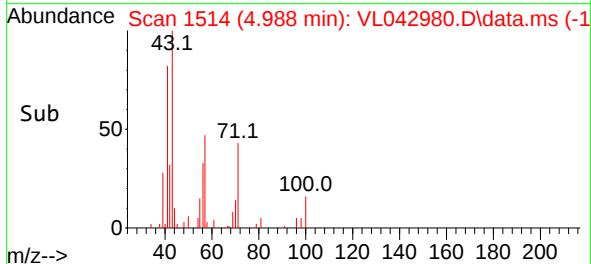
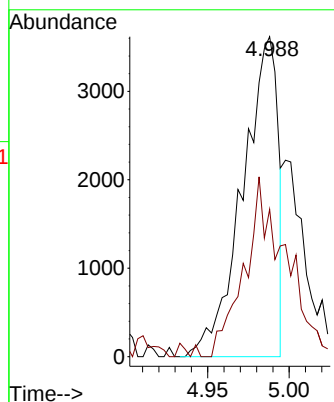
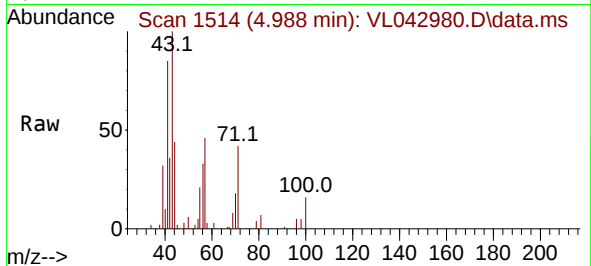




#10  
Heptane  
Concen: 0.194 ppbv  
RT: 4.988 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

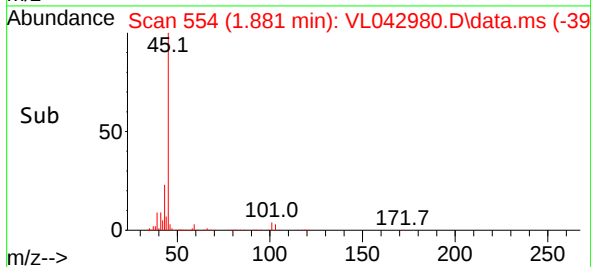
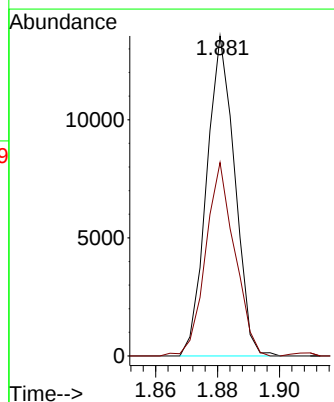
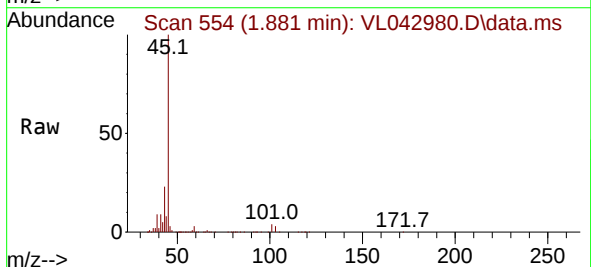
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-1A-2

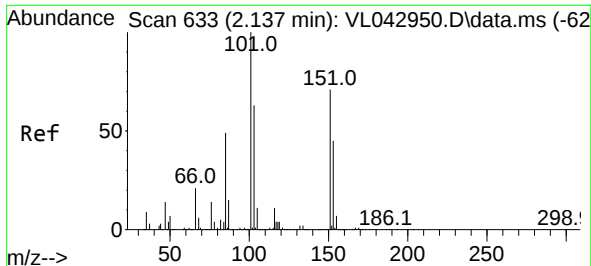
Tgt Ion: 43 Resp: 5470  
Ion Ratio Lower Upper  
43 100  
57 66.3 38.6 57.8#



#11  
Trichlorofluoromethane  
Concen: 0.456 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 101 Resp: 8542  
Ion Ratio Lower Upper  
101 100  
103 60.4 50.1 75.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.066 ppbv

RT: 2.140 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA\_L

ClientSampleId :

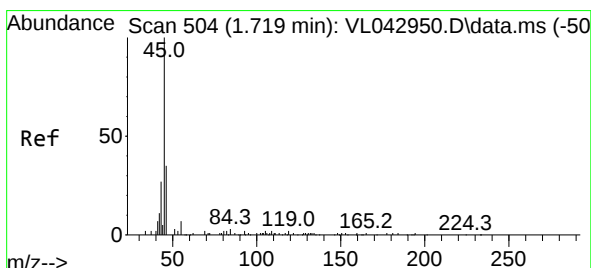
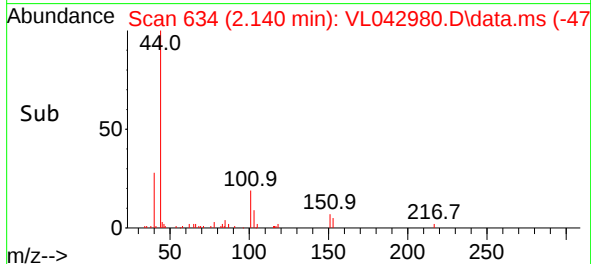
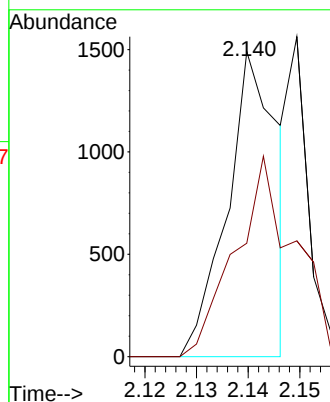
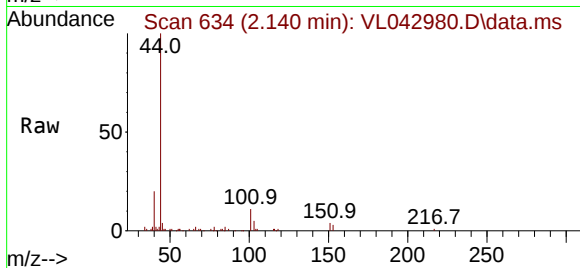
151-1A-2

Tgt Ion:101 Resp: 1008

Ion Ratio Lower Upper

101 100

151 76.8 55.7 83.5



#13

Ethanol

Concen: 334.148 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042980.D

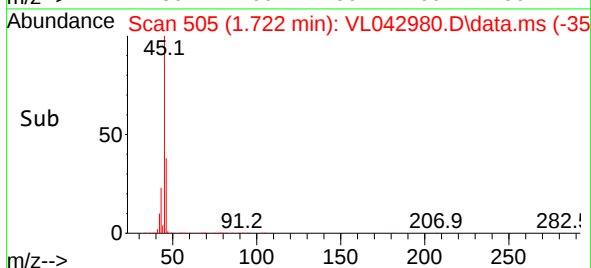
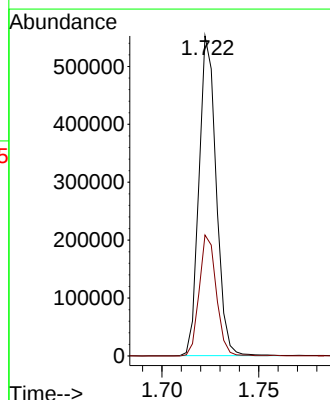
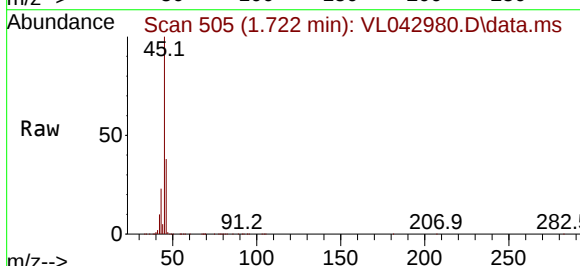
Acq: 23 Sep 2025 04:44

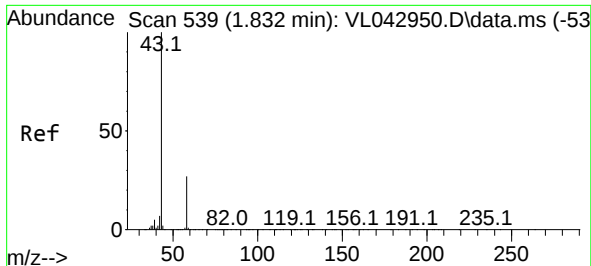
Tgt Ion: 45 Resp: 341697

Ion Ratio Lower Upper

45 100

46 38.0 16.2 64.6

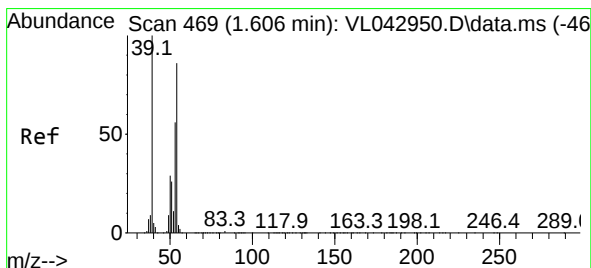
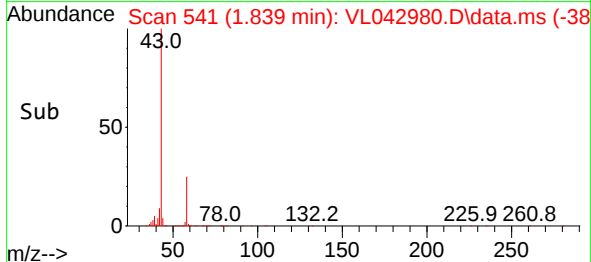
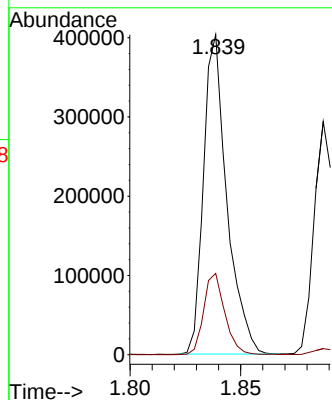
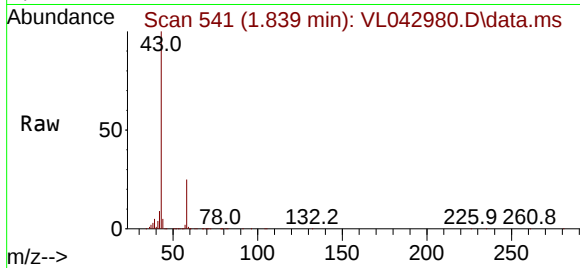




#15  
Acetone  
Concen: 15.670 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

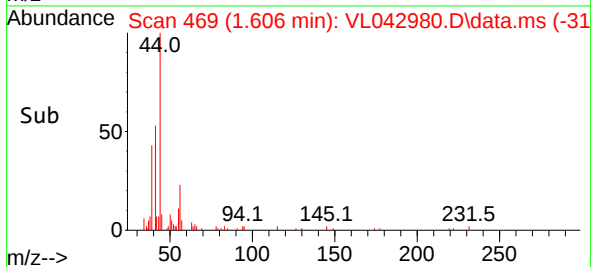
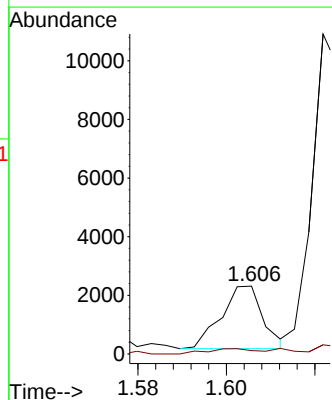
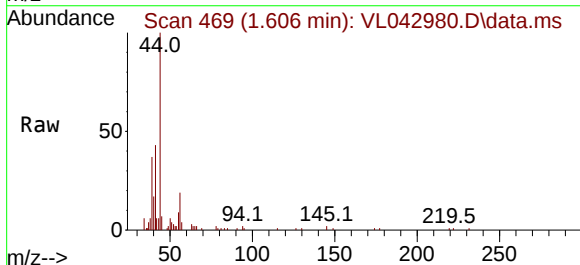
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-1A-2

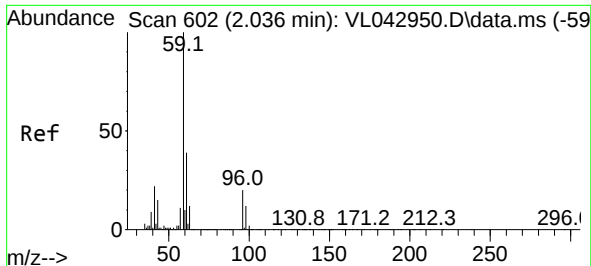
Tgt Ion: 43 Resp: 295004  
Ion Ratio Lower Upper  
43 100  
58 23.1 22.3 33.5



#16  
1,3-Butadiene  
Concen: 0.157 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 39 Resp: 1393  
Ion Ratio Lower Upper  
39 100  
54 0.0 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 1.561 ppbv

RT: 1.887 min Scan# 51

Delta R.T. -0.149 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA\_1

ClientSampleId :

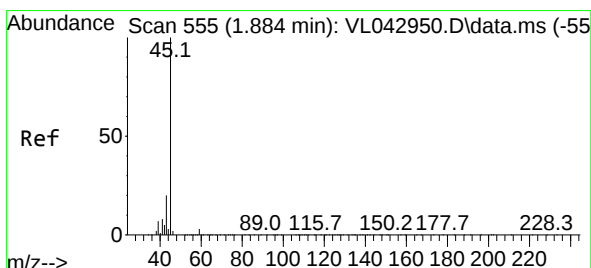
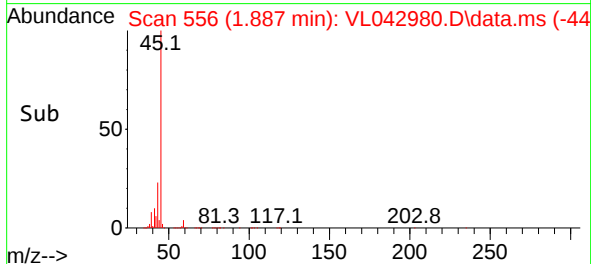
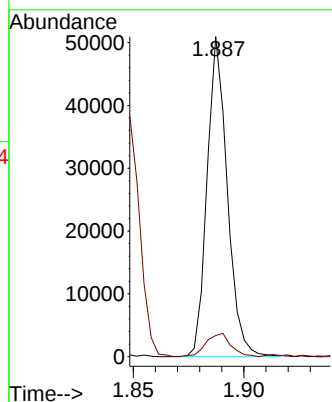
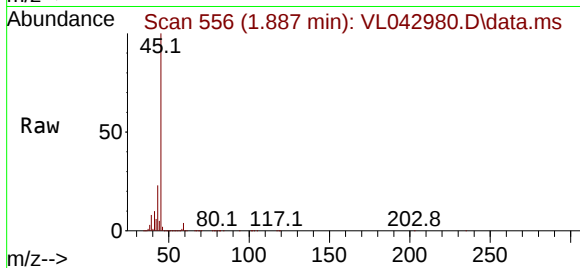
151-1A-2

Tgt Ion: 59 Resp: 32235

Ion Ratio Lower Upper

59 100

57 9.6 8.6 12.8



#19

Isopropyl Alcohol

Concen: 74.844 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042980.D

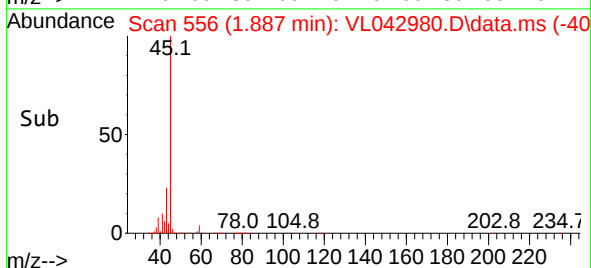
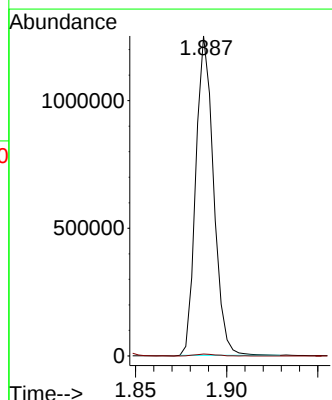
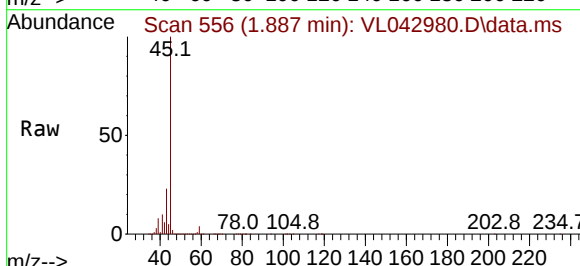
Acq: 23 Sep 2025 04:44

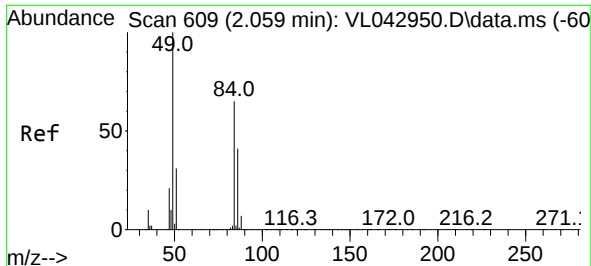
Tgt Ion: 45 Resp: 847050

Ion Ratio Lower Upper

45 100

58 0.8 31.0 46.6#





#20

Methylene Chloride

Concen: 0.656 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA\_L

ClientSampleId :

151-1A-2

Tgt Ion: 84 Resp: 7194

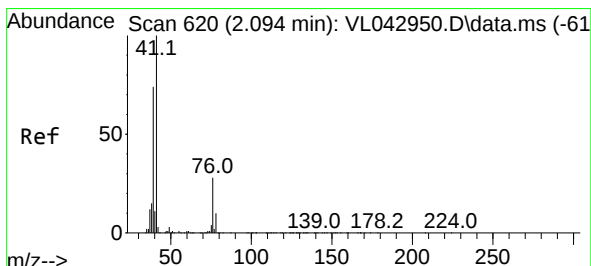
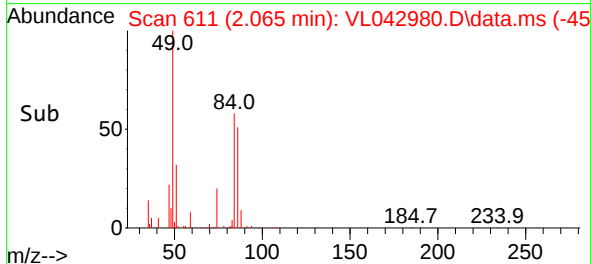
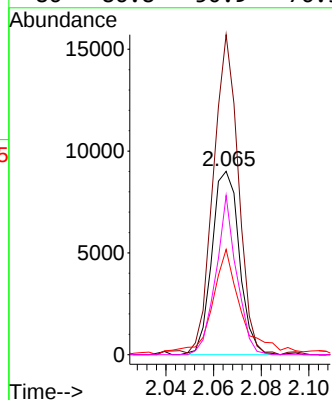
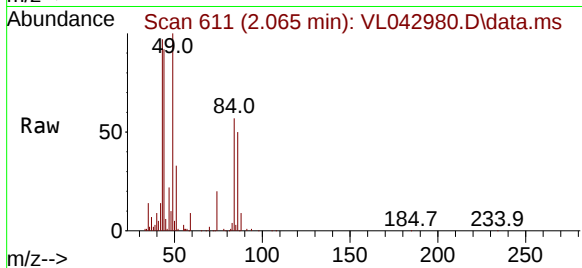
Ion Ratio Lower Upper

84 100

49 174.5 124.1 186.1

51 55.0 39.8 59.8

86 86.8 50.9 76.3#



#21

Allyl Chloride

Concen: 0.153 ppbv

RT: 2.081 min Scan# 616

Delta R.T. -0.013 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

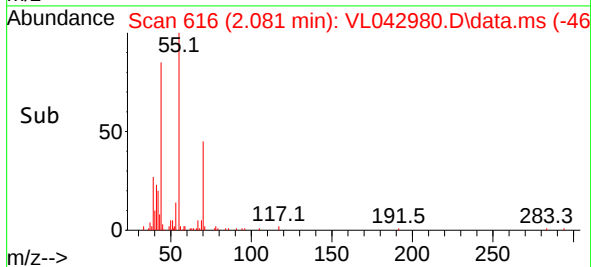
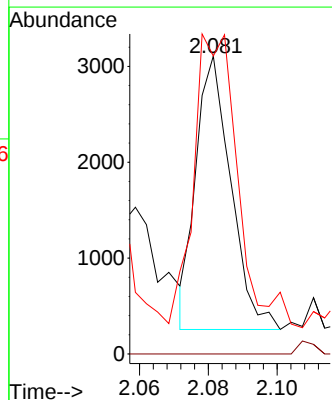
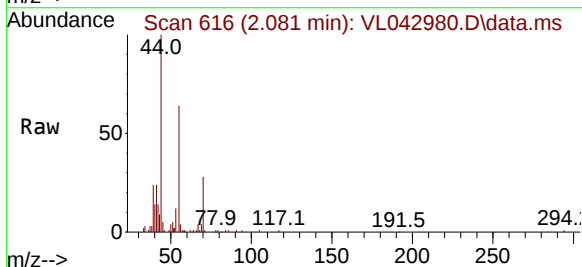
Tgt Ion: 41 Resp: 2009

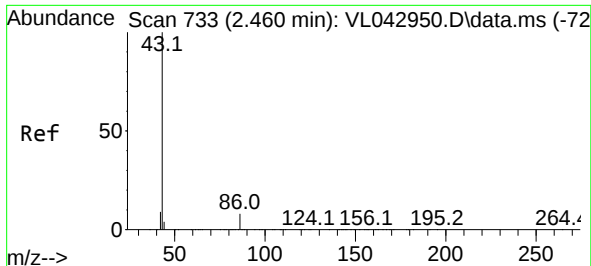
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 208.7 61.3 91.9#

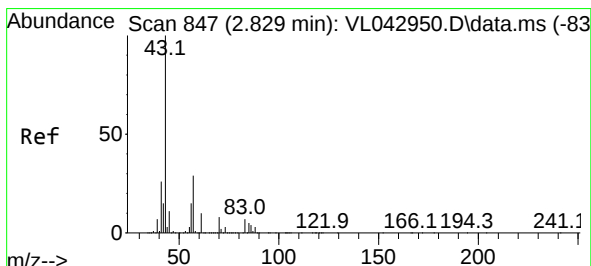
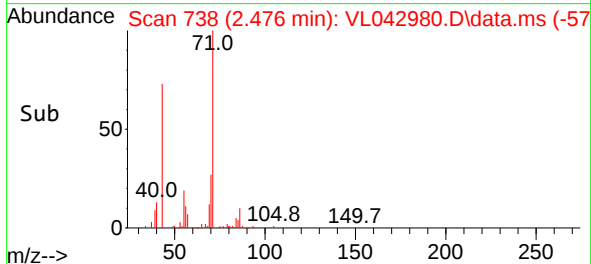
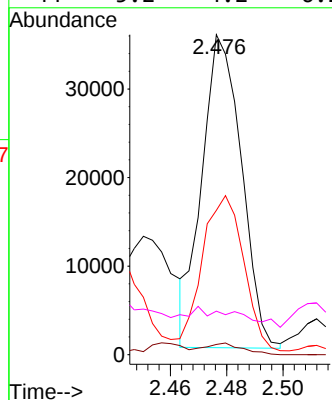
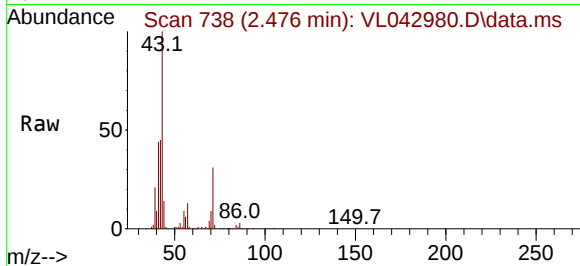




#23  
 Vinyl Acetate  
 Concen: 1.279 ppbv  
 RT: 2.476 min Scan# 71  
 Delta R.T. 0.016 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

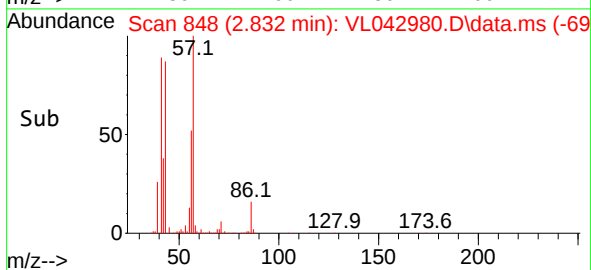
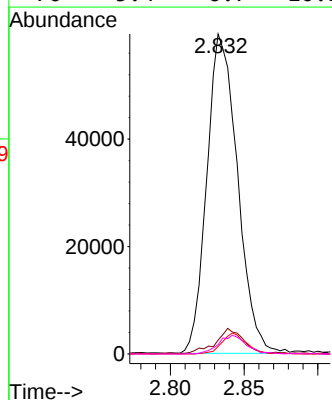
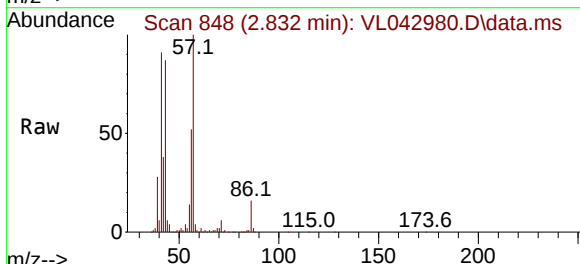
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 151-1A-2

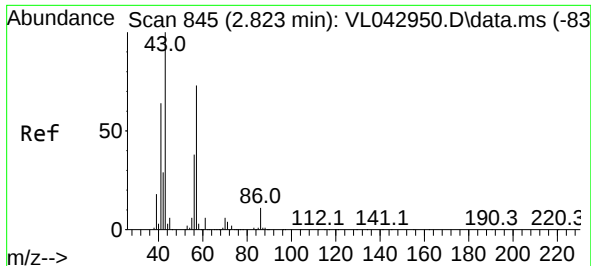
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 34411 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 3.3   | 6.2   | 9.2#  |
| 42       | 45.4  | 7.4   | 11.0# |
| 44       | 5.2   | 4.2   | 6.2   |



#25  
 Ethyl Acetate  
 Concen: 1.803 ppbv  
 RT: 2.832 min Scan# 848  
 Delta R.T. 0.003 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 85787 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 7.9   | 7.7   | 11.5  |
| 61       | 5.3   | 7.1   | 10.7# |
| 70       | 5.4   | 6.7   | 10.1# |

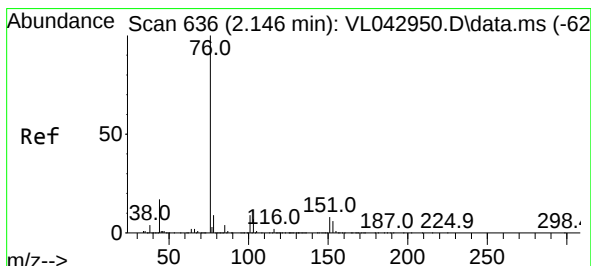
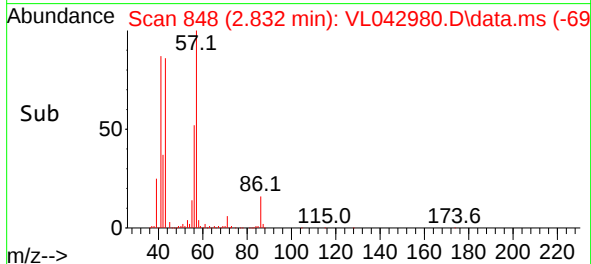
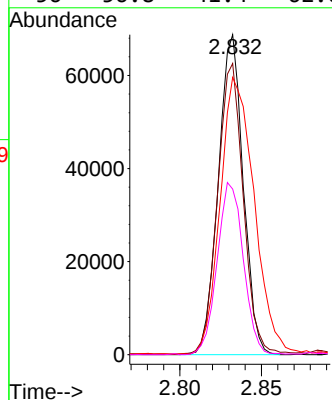
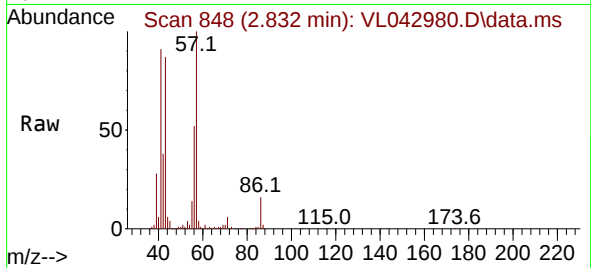




#26  
Hexane  
Concen: 3.367 ppbv  
RT: 2.832 min Scan# 845  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

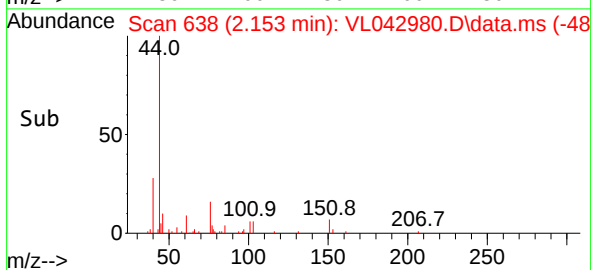
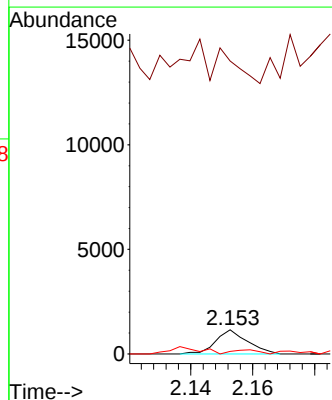
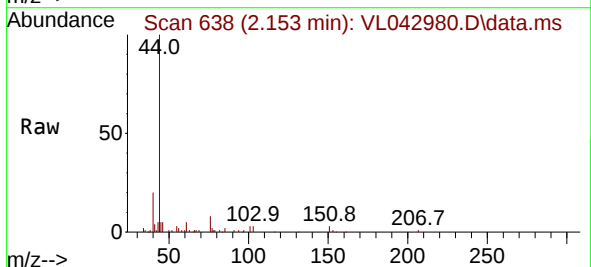
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

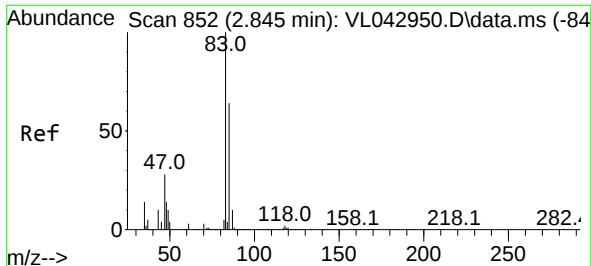
Tgt Ion: 57 Resp: 73023  
Ion Ratio Lower Upper  
57 100  
41 93.6 71.7 107.5  
43 118.1 180.8 271.2#  
56 56.8 41.4 62.0



#27  
Carbon Disulfide  
Concen: 0.042 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 76 Resp: 820  
Ion Ratio Lower Upper  
76 100  
44 0.0 15.6 23.4#  
78 42.6 8.9 13.3#





#29

Chloroform

Concen: 0.929 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA\_1

ClientSampleId :

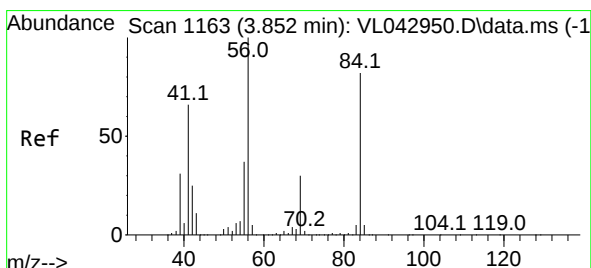
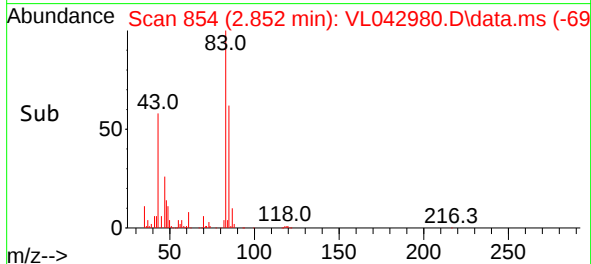
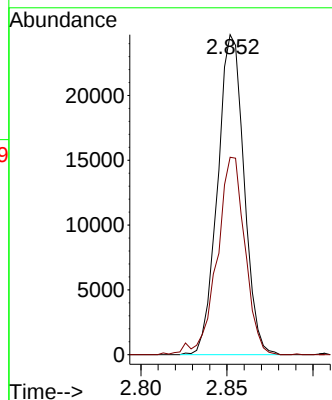
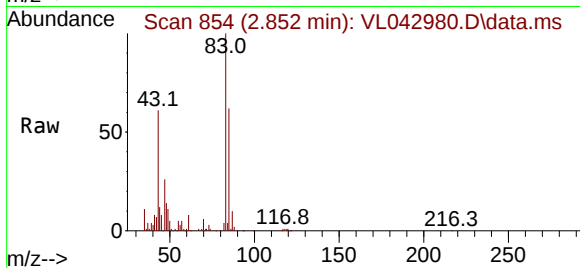
151-1A-2

Tgt Ion: 83 Resp: 26341

Ion Ratio Lower Upper

83 100

85 61.7 51.2 76.8



#30

Cyclohexane

Concen: 0.159 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

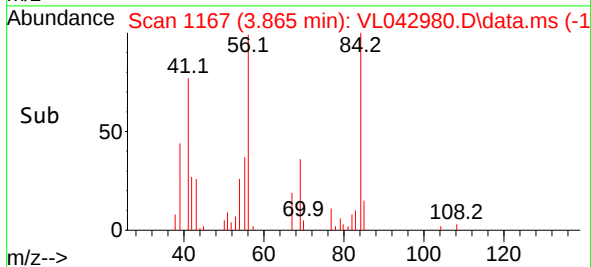
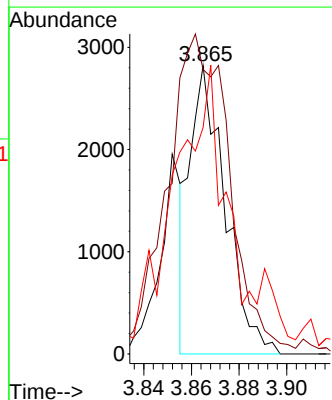
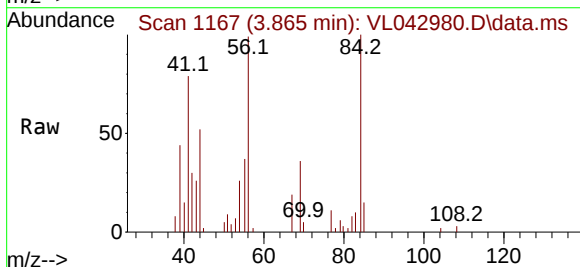
Tgt Ion: 84 Resp: 2892

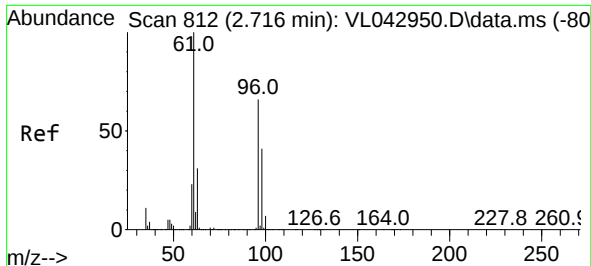
Ion Ratio Lower Upper

84 100

56 188.7 102.2 153.4#

41 167.9 65.6 98.4#

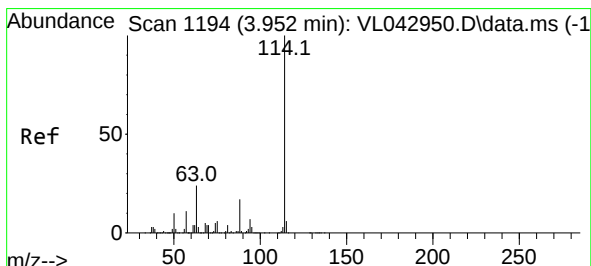
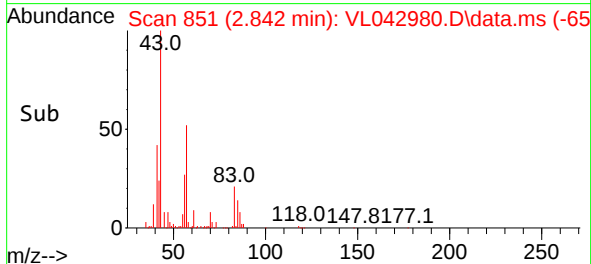
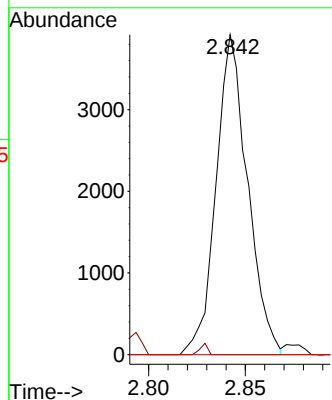
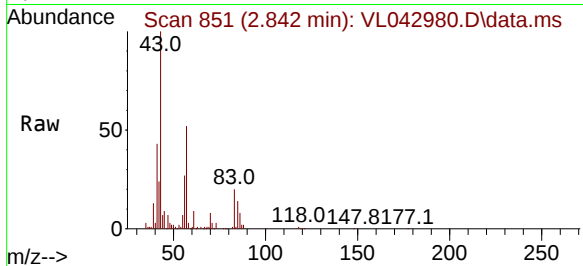




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.218 ppbv  
 RT: 2.842 min Scan# 81  
 Delta R.T. 0.126 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

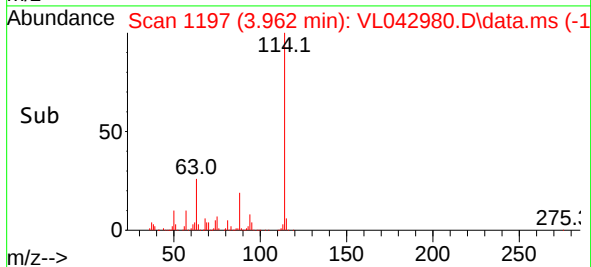
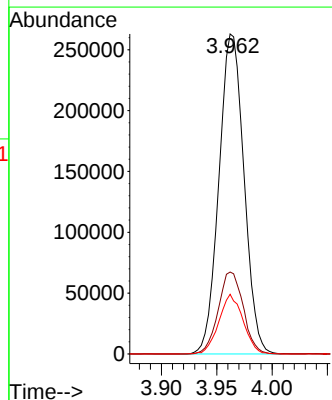
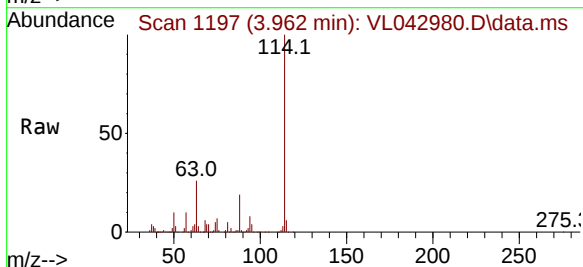
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 151-1A-2

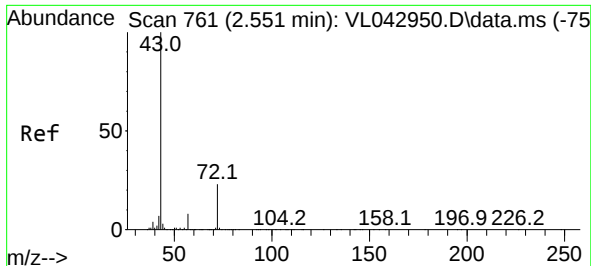
Tgt Ion: 61 Resp: 4437  
 Ion Ratio Lower Upper  
 61 100  
 96 0.0 53.0 79.6#  
 98 0.0 32.9 49.3#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.962 min Scan# 1197  
 Delta R.T. 0.010 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

Tgt Ion: 114 Resp: 414049  
 Ion Ratio Lower Upper  
 114 100  
 63 25.6 19.4 29.2  
 88 18.0 14.2 21.2

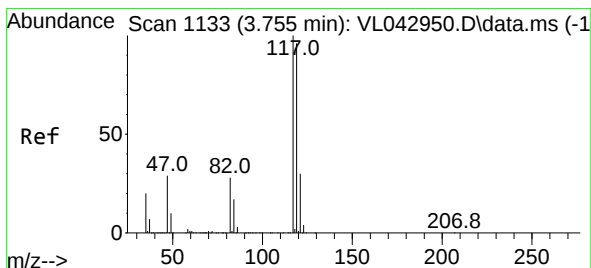
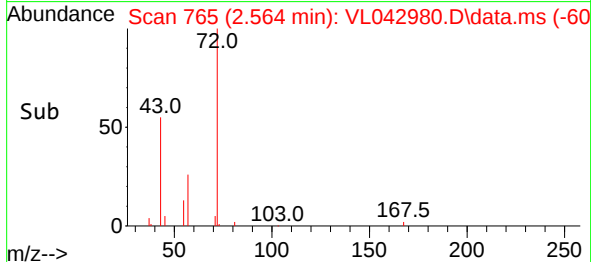
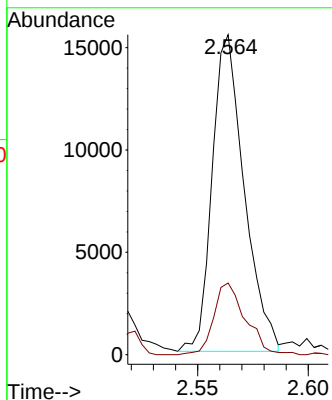
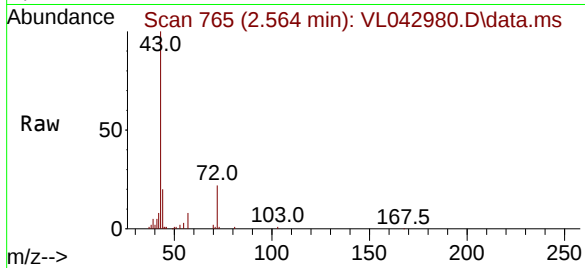




#34  
2-Butanone  
Concen: 0.536 ppbv  
RT: 2.564 min Scan# 761  
Delta R.T. 0.013 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

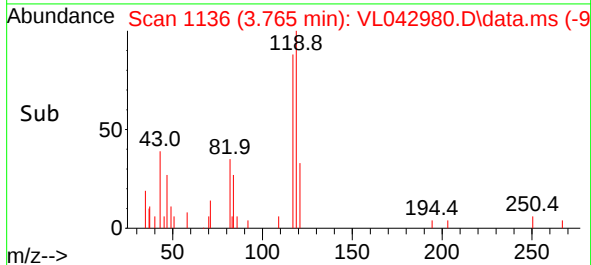
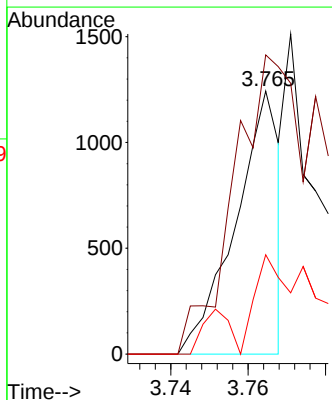
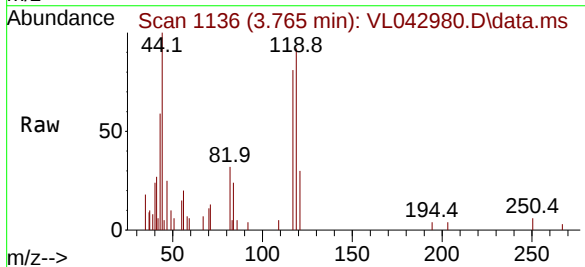
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

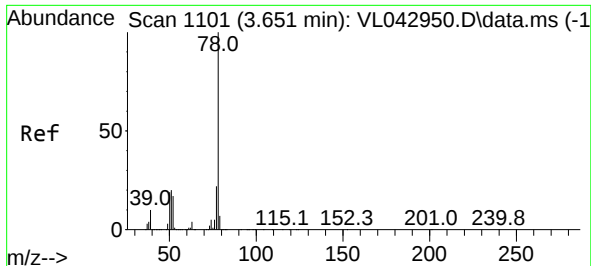
Tgt Ion: 43 Resp: 15549  
Ion Ratio Lower Upper  
43 100  
72 22.7 17.7 26.5



#35  
Carbon Tetrachloride  
Concen: 0.036 ppbv  
RT: 3.765 min Scan# 1136  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 117 Resp: 980  
Ion Ratio Lower Upper  
117 100  
119 113.8 76.9 115.3  
121 37.7 23.7 35.5#

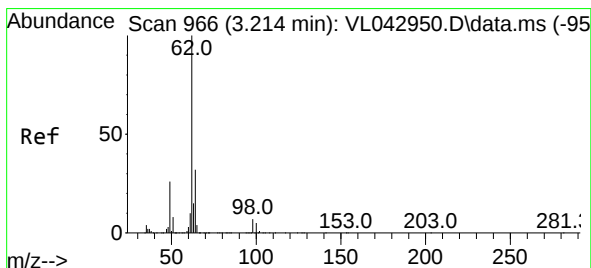
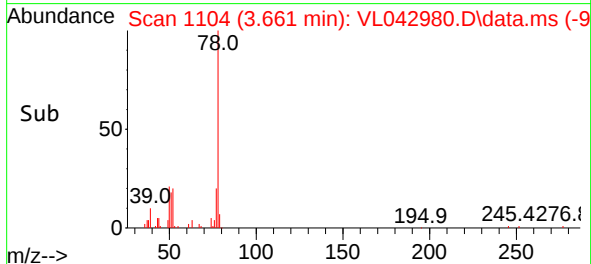
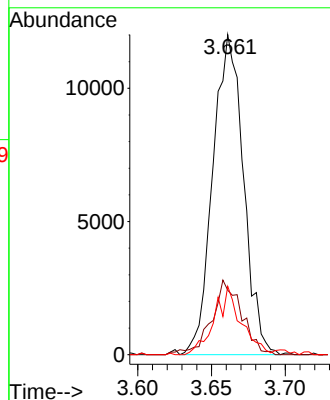
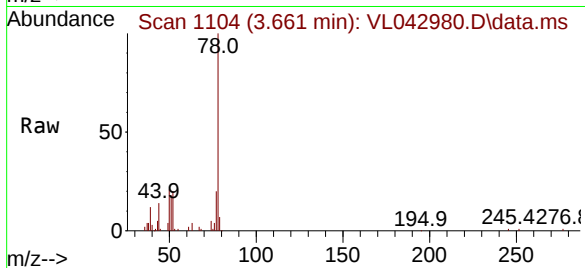




#36  
Benzene  
Concen: 0.446 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

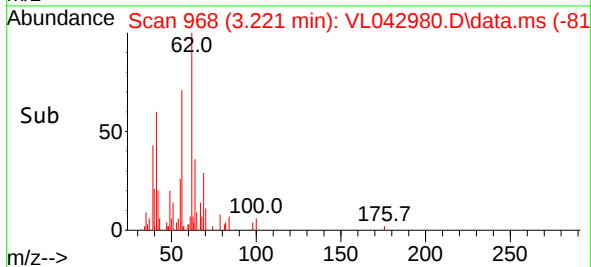
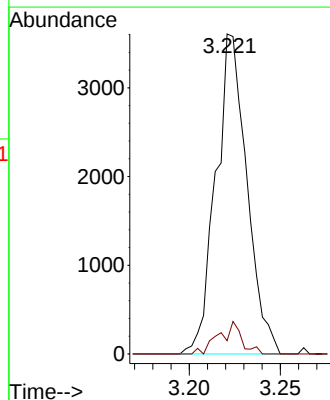
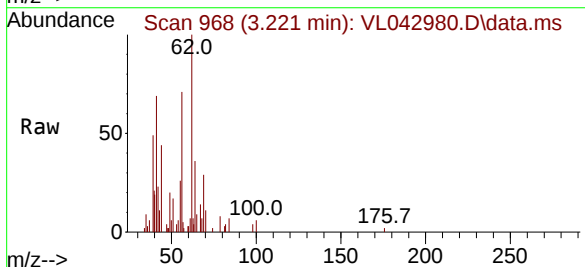
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

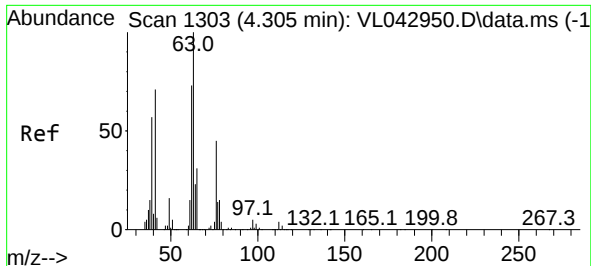
Tgt Ion: 78 Resp: 17329  
Ion Ratio Lower Upper  
78 100  
77 20.2 17.8 26.6  
50 21.4 15.0 22.4



#37  
1,2-Dichloroethane  
Concen: 0.209 ppbv  
RT: 3.221 min Scan# 968  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 62 Resp: 4279  
Ion Ratio Lower Upper  
62 100  
98 7.4 5.9 8.9





#39

1,2-Dichloropropane

Concen: 7.456 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.343 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA\_L

ClientSampleId :

151-1A-2

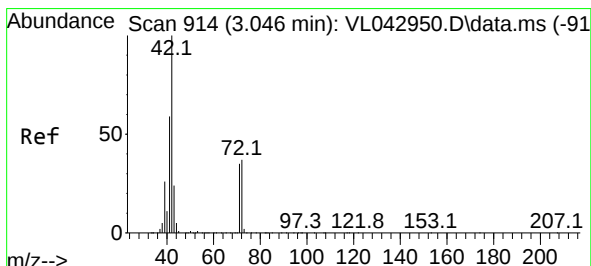
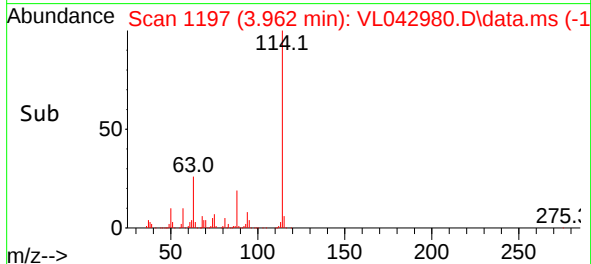
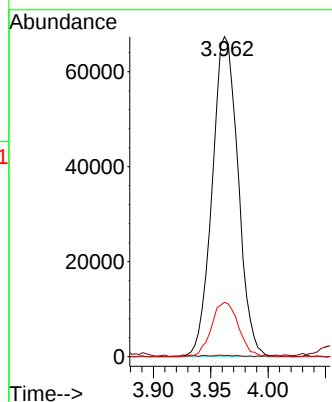
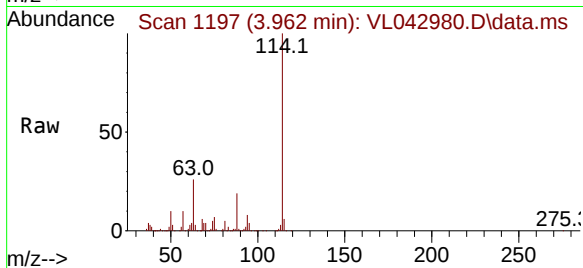
Tgt Ion: 63 Resp: 105834

Ion Ratio Lower Upper

63 100

41 0.1 57.5 86.3#

62 17.0 58.5 87.7#



#41

Tetrahydrofuran

Concen: 0.136 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.023 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

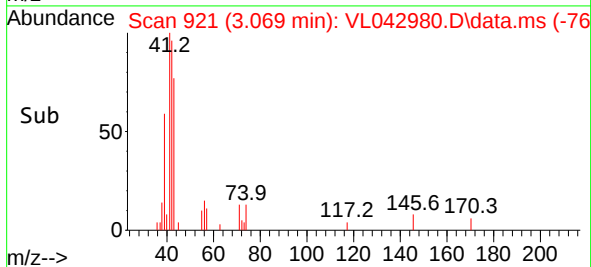
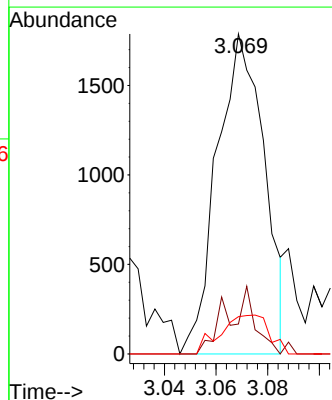
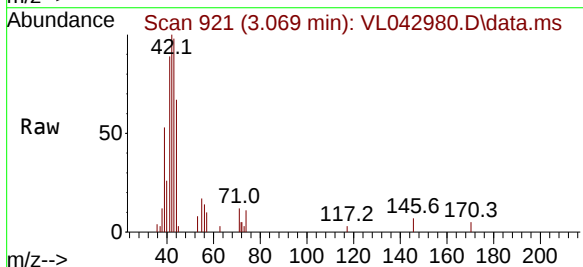
Tgt Ion: 42 Resp: 2271

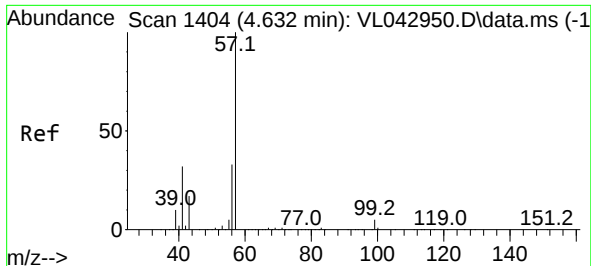
Ion Ratio Lower Upper

42 100

72 13.1 30.0 45.0#

71 12.4 28.8 43.2#

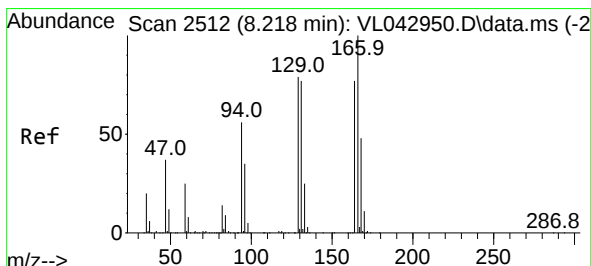
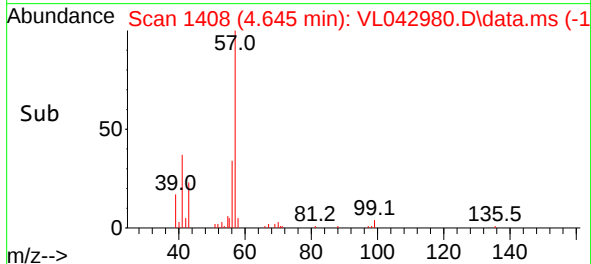
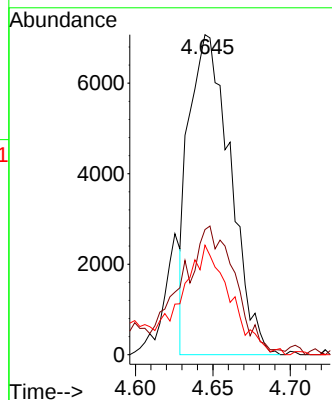
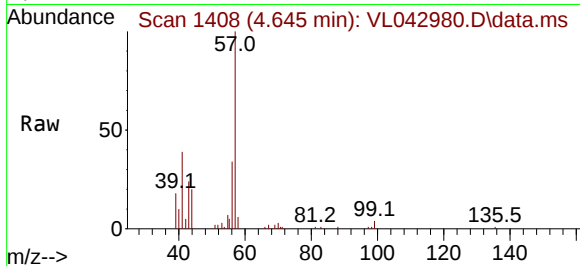




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.196 ppbv  
 RT: 4.645 min Scan# 1404  
 Delta R.T. 0.013 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

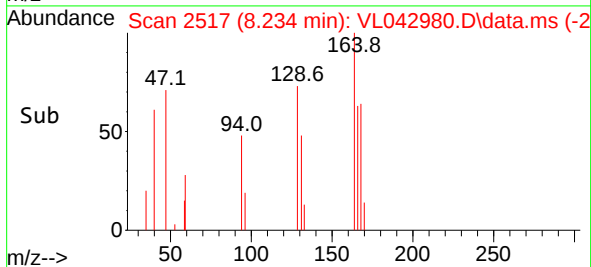
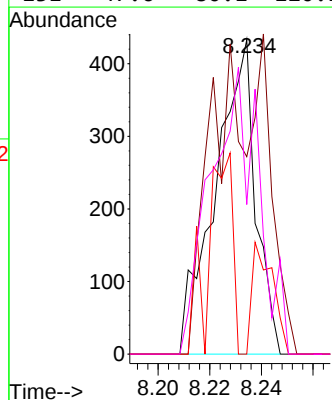
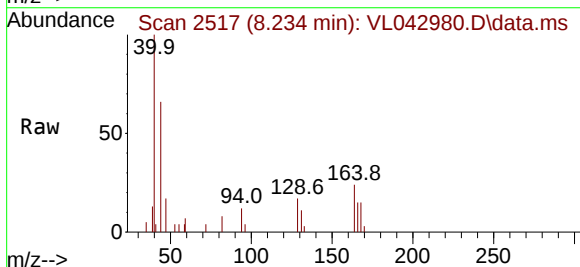
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 151-1A-2

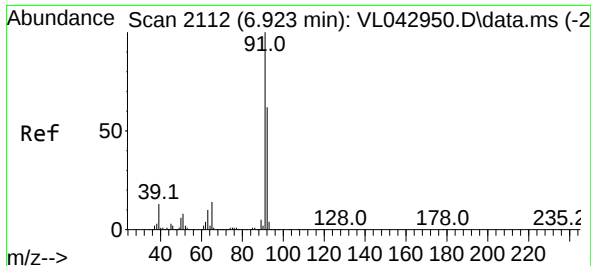
Tgt Ion: 57 Resp: 13143  
 Ion Ratio Lower Upper  
 57 100  
 41 59.4 25.5 38.3#  
 56 50.4 25.8 38.8#



#52  
 Tetrachloroethene  
 Concen: 0.031 ppbv  
 RT: 8.234 min Scan# 2517  
 Delta R.T. 0.016 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

Tgt Ion: 164 Resp: 469  
 Ion Ratio Lower Upper  
 164 100  
 166 62.8 103.5 155.3#  
 129 0.0 82.2 123.4#  
 131 47.6 80.1 120.1#

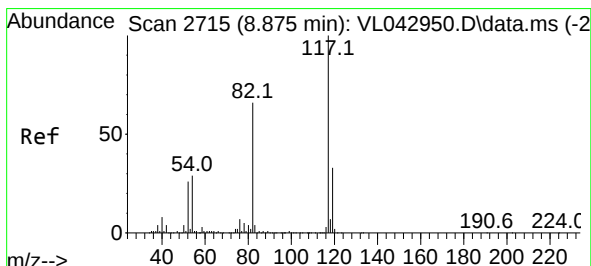
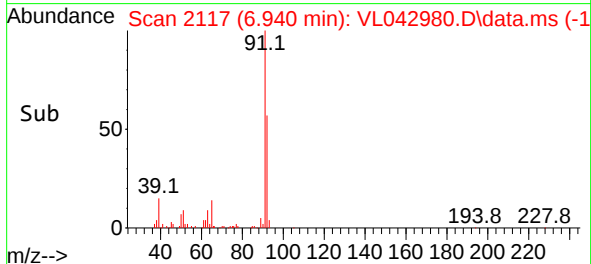
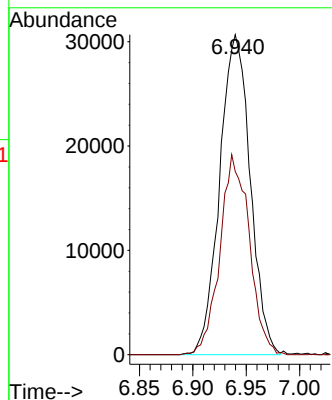
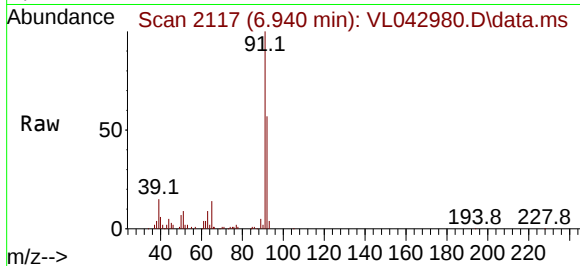




#53  
Toluene  
Concen: 1.325 ppbv  
RT: 6.940 min Scan# 2112  
Delta R.T. 0.016 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

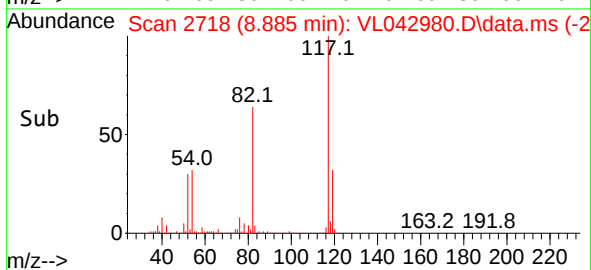
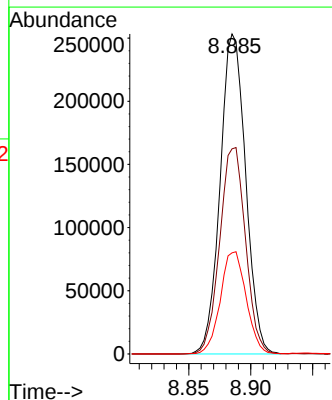
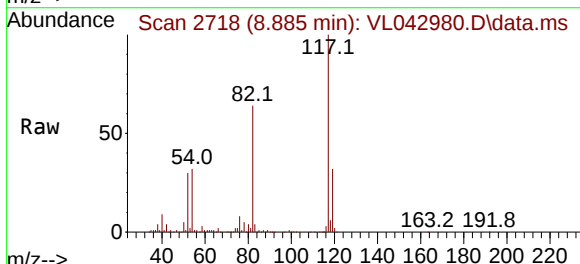
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

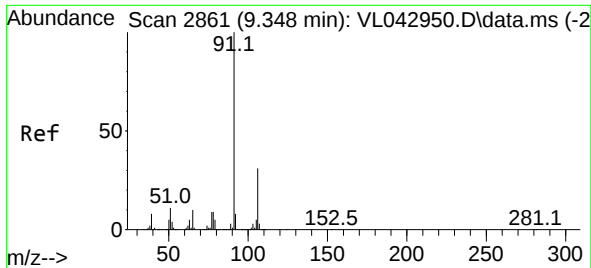
Tgt Ion: 91 Resp: 60968  
Ion Ratio Lower Upper  
91 100  
92 60.2 48.2 72.2



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 117 Resp: 363422  
Ion Ratio Lower Upper  
117 100  
82 65.3 52.8 79.2  
119 32.3 26.5 39.7

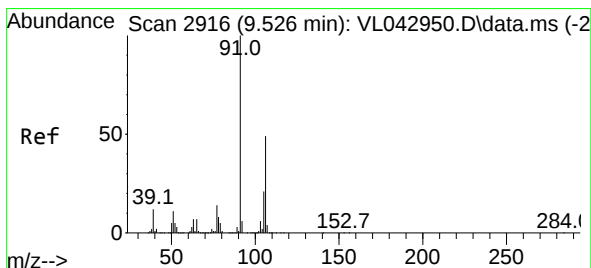
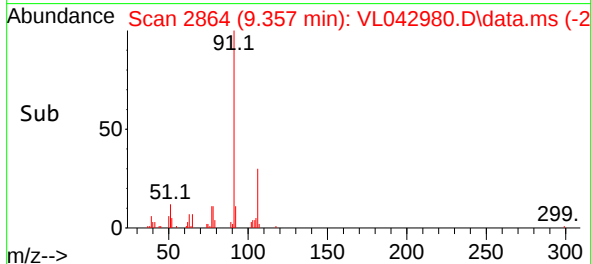
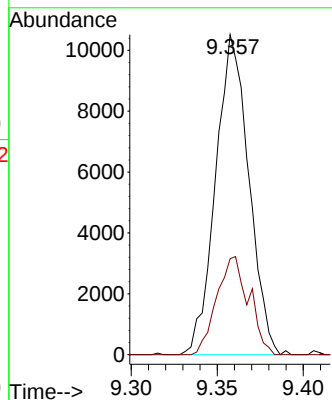
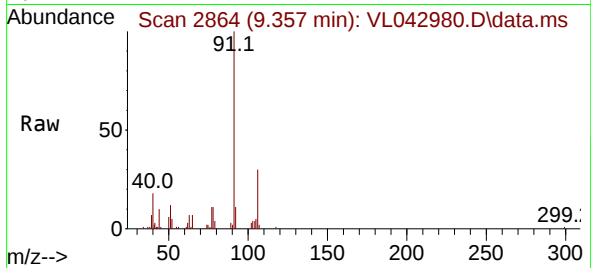




#58  
Ethyl Benzene  
Concen: 0.236 ppbv  
RT: 9.357 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

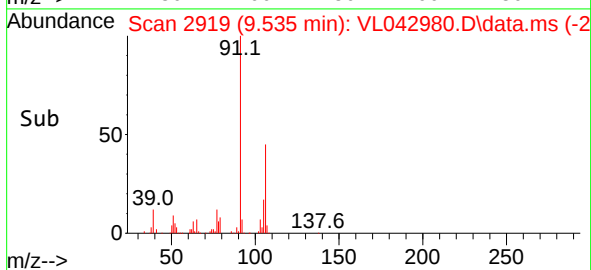
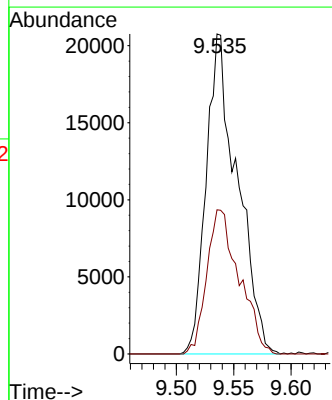
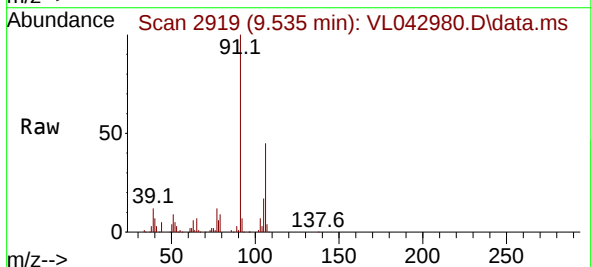
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-1A-2

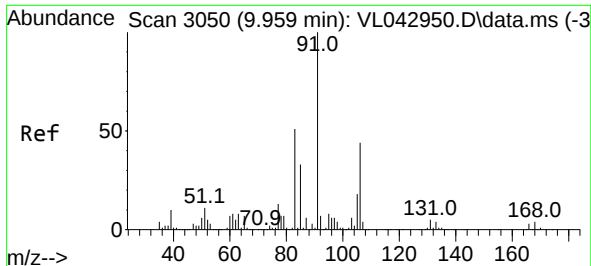
Tgt Ion: 91 Resp: 14102  
Ion Ratio Lower Upper  
91 100  
106 30.0 24.6 37.0



#59  
m/p-Xylene  
Concen: 0.830 ppbv  
RT: 9.535 min Scan# 2919  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 91 Resp: 39034  
Ion Ratio Lower Upper  
91 100  
106 47.1 0.0 0.0#

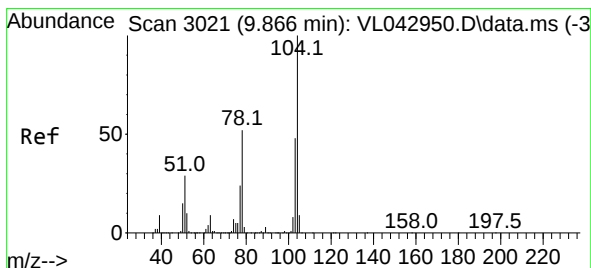
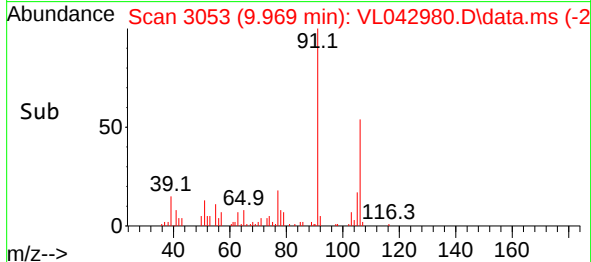
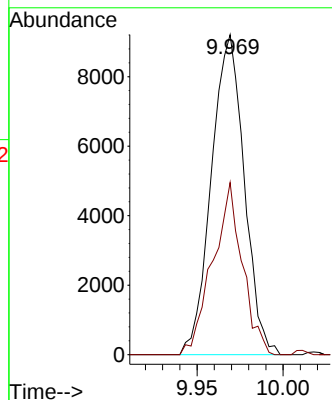
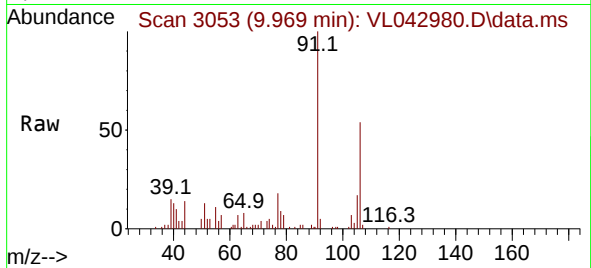




#60  
o-Xylene  
Concen: 0.260 ppbv  
RT: 9.969 min Scan# 3050  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

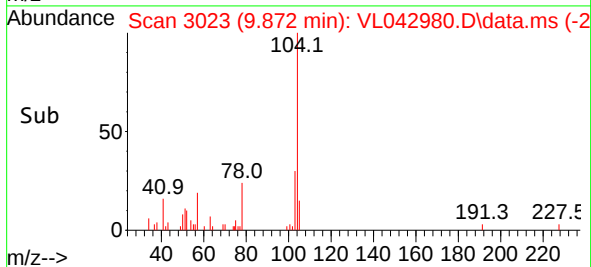
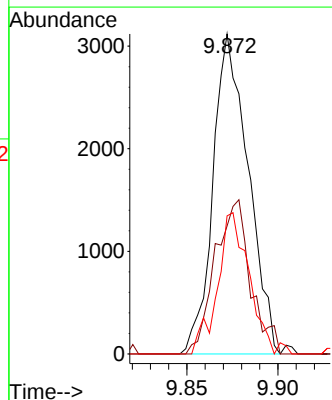
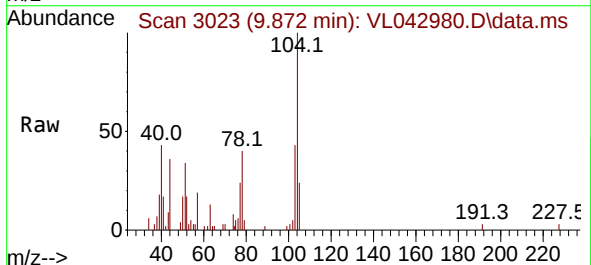
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-1A-2

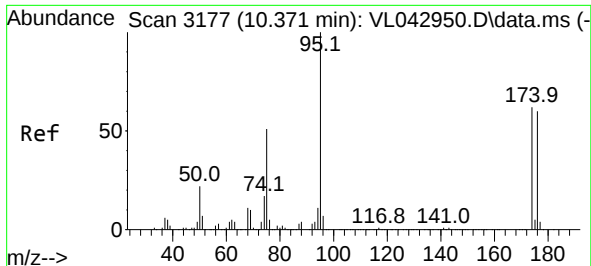
Tgt Ion: 91 Resp: 12216  
Ion Ratio Lower Upper  
91 100  
106 48.7 22.4 67.0



#61  
Styrene  
Concen: 0.189 ppbv  
RT: 9.872 min Scan# 3023  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 104 Resp: 4201  
Ion Ratio Lower Upper  
104 100  
78 48.3 39.9 59.9  
103 39.9 36.9 55.3

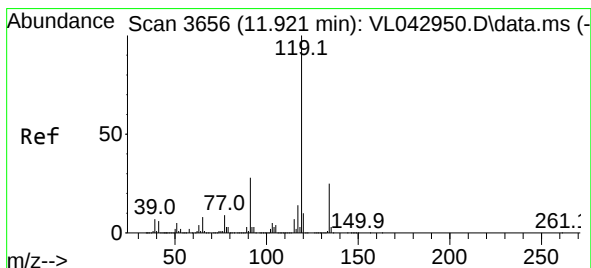
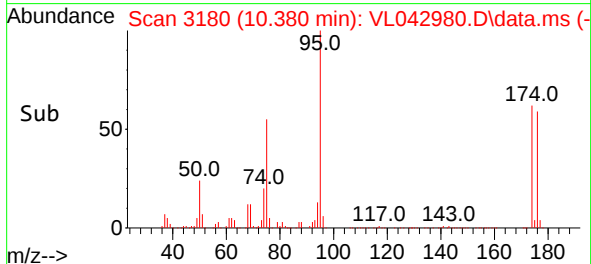
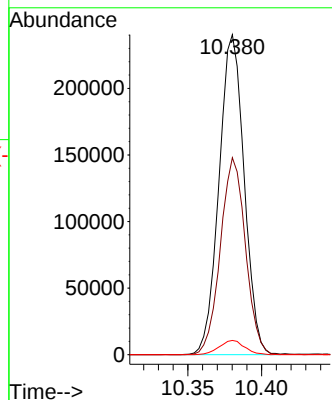
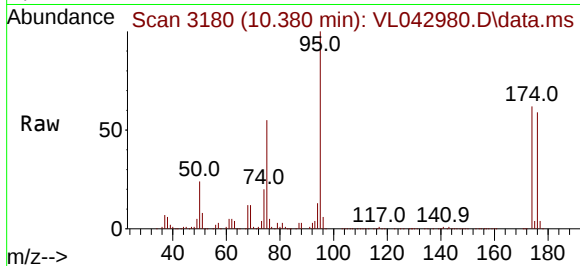




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.489 ppbv  
RT: 10.380 min Scan# 3177  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

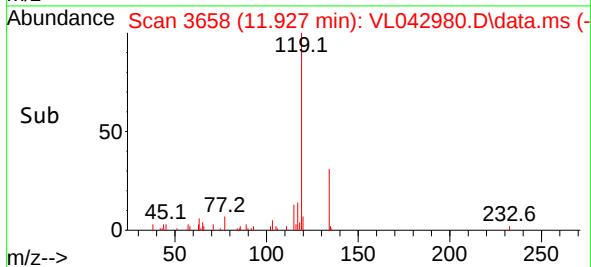
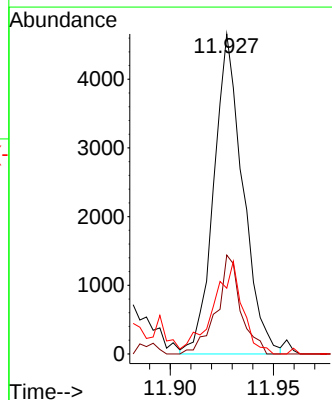
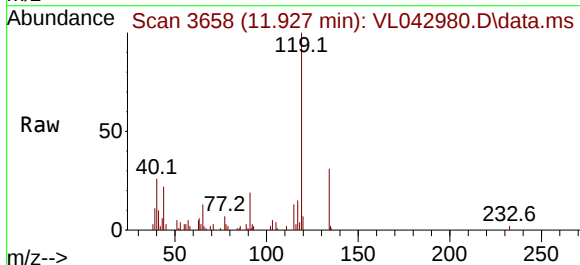
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-1A-2

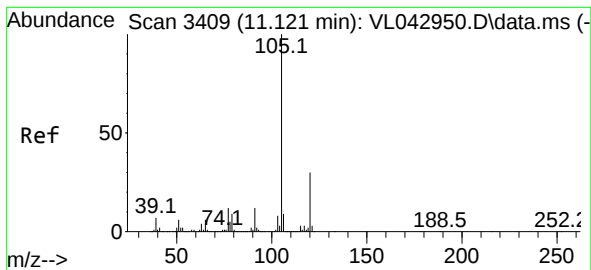
Tgt Ion: 95 Resp: 284547  
Ion Ratio Lower Upper  
95 100  
174 61.6 51.4 77.2  
175 4.5 4.0 6.0



#69  
p-Isopropyltoluene  
Concen: 0.062 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion: 119 Resp: 4561  
Ion Ratio Lower Upper  
119 100  
134 27.8 21.0 31.4  
91 28.6 22.3 33.5

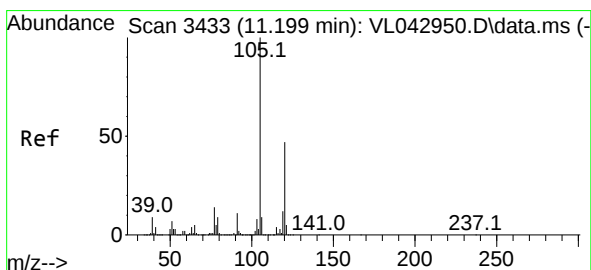
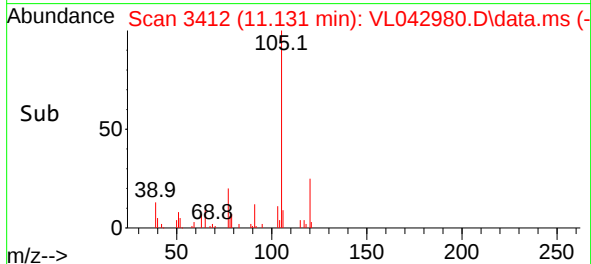
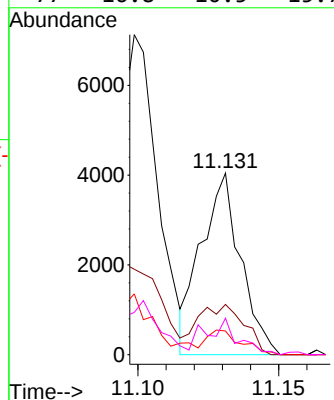
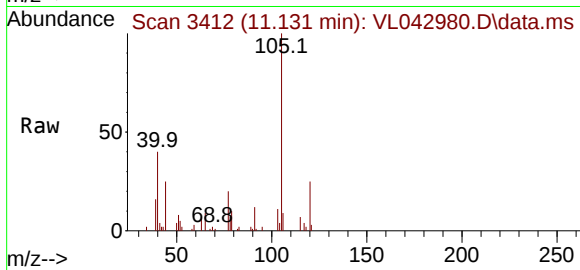




#72  
4-Ethyltoluene  
Concen: 0.067 ppbv  
RT: 11.131 min Scan# 3409  
Delta R.T. 0.010 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

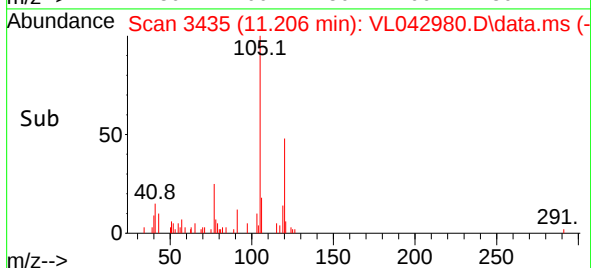
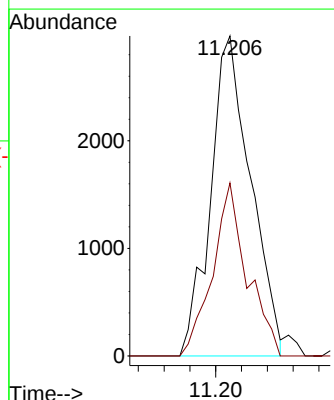
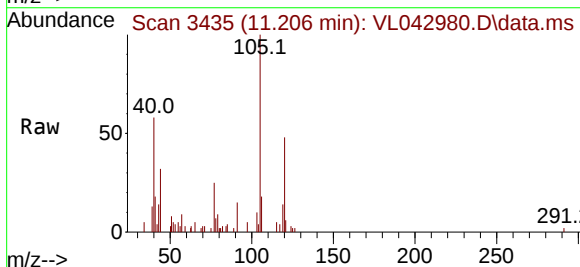
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-1A-2

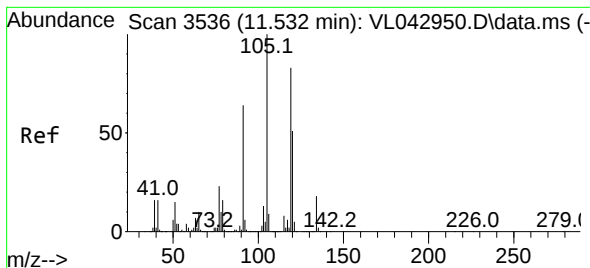
Tgt Ion:105 Resp: 3946  
Ion Ratio Lower Upper  
105 100  
120 0.0 24.2 36.2#  
91 0.0 10.0 15.0#  
77 16.8 10.5 15.7#



#73  
1,3,5-Trimethylbenzene  
Concen: 0.067 ppbv  
RT: 11.206 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042980.D  
Acq: 23 Sep 2025 04:44

Tgt Ion:105 Resp: 3224  
Ion Ratio Lower Upper  
105 100  
120 54.1 38.0 57.0





#74

1,2,4-Trimethylbenzene

Concen: 0.238 ppbv

RT: 11.539 min Scan# 3536

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA\_1

ClientSampleId :

151-1A-2

Tgt Ion:105 Resp: 12546

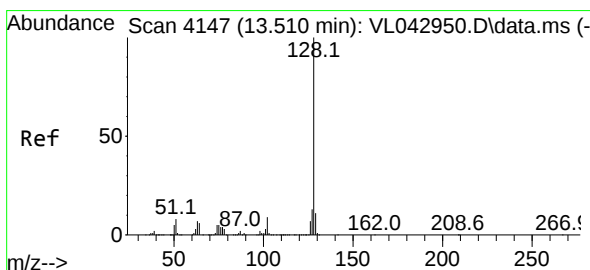
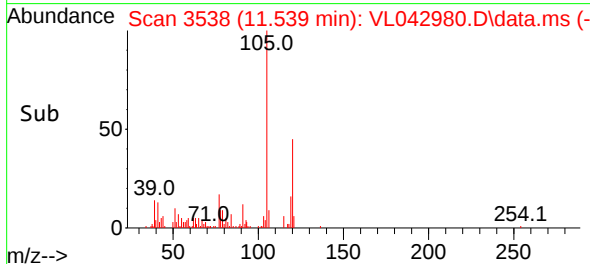
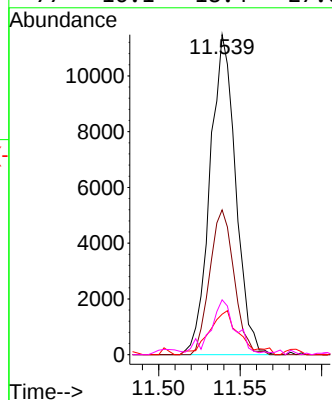
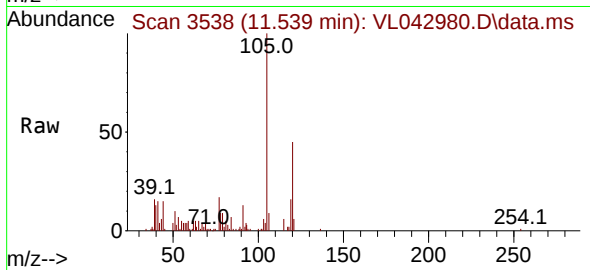
Ion Ratio Lower Upper

105 100

120 50.9 40.9 61.3

91 12.7 51.2 76.8#

77 16.1 18.4 27.6#



#79

Naphthalene

Concen: 0.059 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

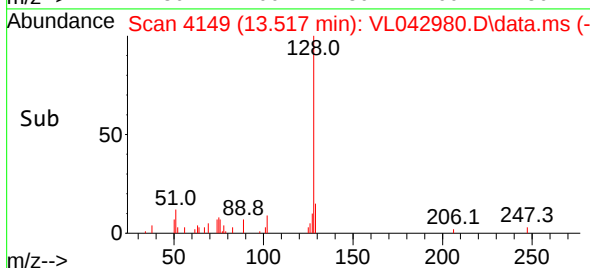
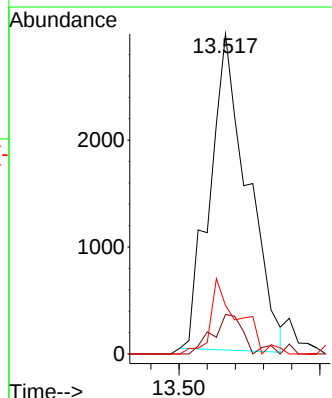
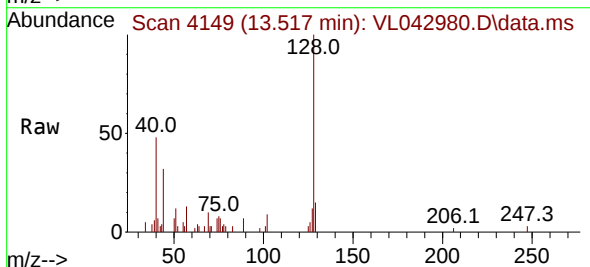
Tgt Ion:128 Resp: 2765

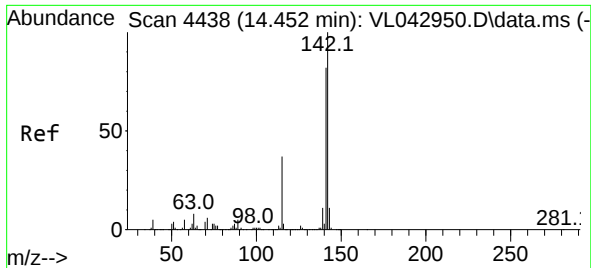
Ion Ratio Lower Upper

128 100

127 12.6 10.6 15.8

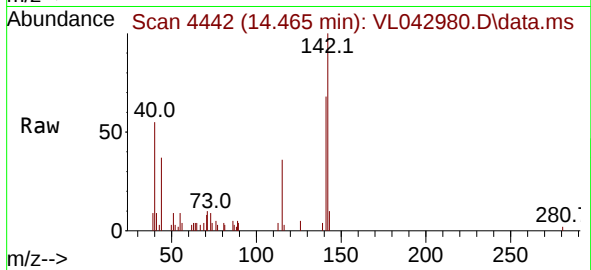
129 15.5 9.0 13.6#





#80  
 Naphthalene, 2-methyl-  
 Concen: 0.198 ppbv  
 RT: 14.465 min Scan# 44  
 Delta R.T. 0.013 min  
 Lab File: VL042980.D  
 Acq: 23 Sep 2025 04:44

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 151-1A-2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2846  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 90.3  | 65.1  | 97.7  |
| 115      | 41.7  | 28.9  | 43.3  |

