

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL010325\  
 Data File : VL041830.D  
 Acq On : 03 Jan 2025 16:19  
 Operator : SY/MD  
 Sample : P5395-01 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025  
 Supervised By :Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 16:42:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

| Compound                    |  | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--|--------|-------|----------|----------|------------|----------|
| -----                       |  |        |       |          |          |            |          |
| Internal Standards          |  |        |       |          |          |            |          |
| 1) Bromochloromethane       |  | 2.807  | 49    | 84953    | 10.000   | ppbv       | 0.02     |
| 33) 1,4-Difluorobenzene     |  | 3.988  | 114   | 209918   | 10.000   | ppbv       | 0.03     |
| 55) Chlorobenzene-d5        |  | 8.904  | 117   | 185698   | 10.000   | ppbv       | 0.03     |
|                             |  |        |       |          |          |            |          |
| System Monitoring Compounds |  |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene |  | 10.396 | 95    | 163901   | 10.592   | ppbv       | 0.02     |
| Spiked Amount               |  | 10.000 | Range | 65 - 135 | Recovery | = 105.900% |          |
|                             |  |        |       |          |          |            |          |
| Target Compounds            |  |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  |  | 1.502  | 85    | 2080     | 0.138    | ppbv       | 96       |
| 9) Propene                  |  | 1.489  | 41    | 4670     | 0.778    | ppbv       | 98       |
| 15) Acetone                 |  | 1.855  | 43    | 64425    | 3.898    | ppbv       | 99       |
| 20) Methylene Chloride      |  | 2.075  | 84    | 1754     | 0.372    | ppbv       | 96       |
| 26) Hexane                  |  | 2.845  | 57    | 5254     | 0.450    | ppbv #     | 31       |
| 29) Chloroform              |  | 2.868  | 83    | 6099     | 0.343    | ppbv       | 93       |
| 34) 2-Butanone              |  | 2.583  | 43    | 5555     | 0.329    | ppbv       | 98       |
| 36) Benzene                 |  | 3.677  | 78    | 2169     | 0.100    | ppbv #     | 71       |
| 52) Tetrachloroethene       |  | 8.254  | 164   | 8645     | 1.070    | ppbv       | 96       |
| 53) Toluene                 |  | 6.969  | 91    | 12602m   | 0.512    | ppbv       |          |
| 58) Ethyl Benzene           |  | 9.383  | 91    | 3350m    | 0.100    | ppbv       |          |
| 59) m/p-Xylene              |  | 9.552  | 91    | 9334     | 0.347    | ppbv #     | 100      |
| 60) o-Xylene                |  | 9.982  | 91    | 5731m    | 0.213    | ppbv       |          |
| 73) 1,3,5-Trimethylbenzene  |  | 11.222 | 105   | 3851     | 0.146    | ppbv #     | 79       |
| 74) 1,2,4-Trimethylbenzene  |  | 11.552 | 105   | 11033    | 0.389    | ppbv #     | 56       |
| -----                       |  |        |       |          |          |            |          |

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

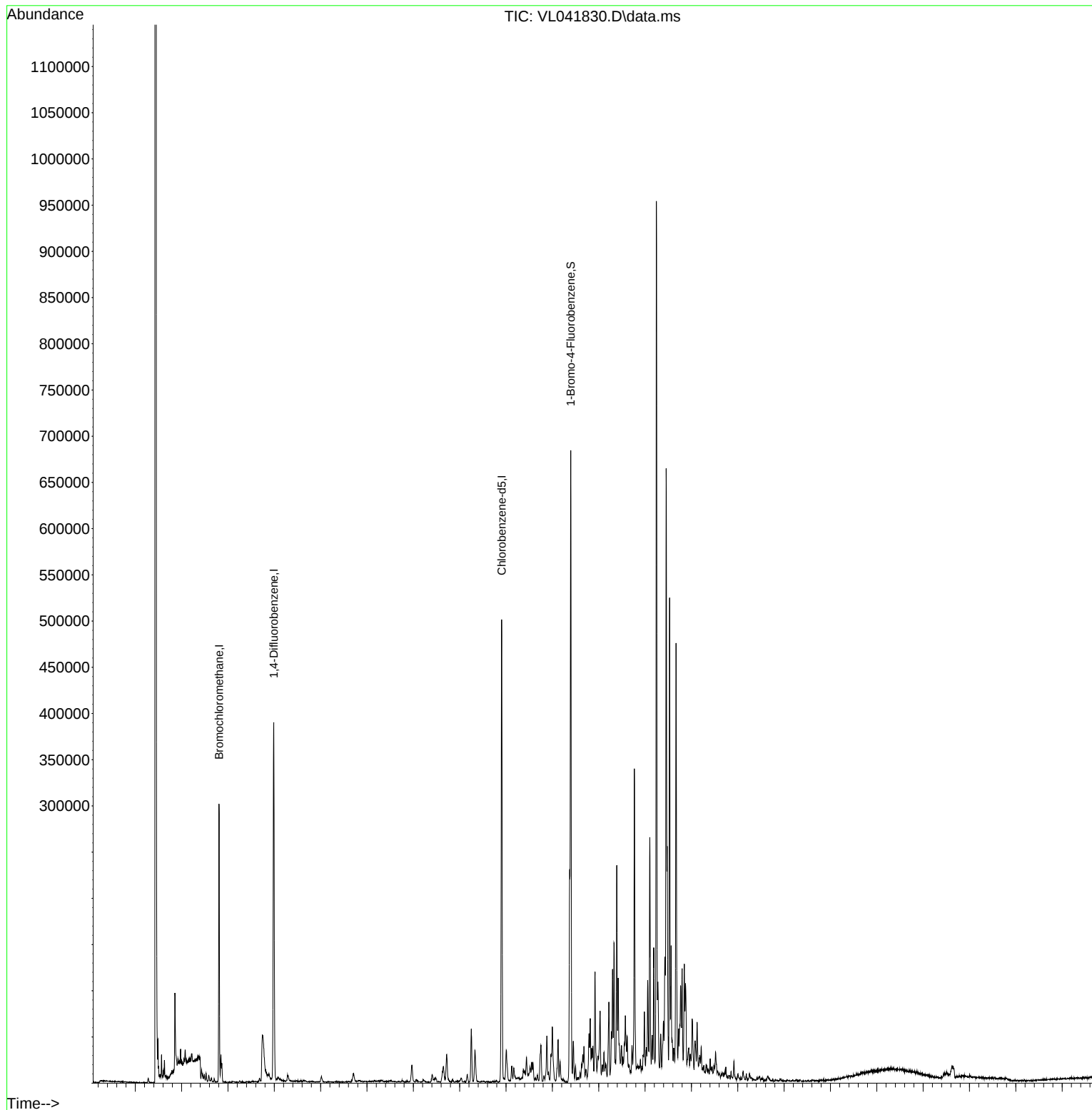
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL010325\  
Data File : VL041830.D  
Acq On : 03 Jan 2025 16:19  
Operator : SY/MD  
Sample : P5395-01 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

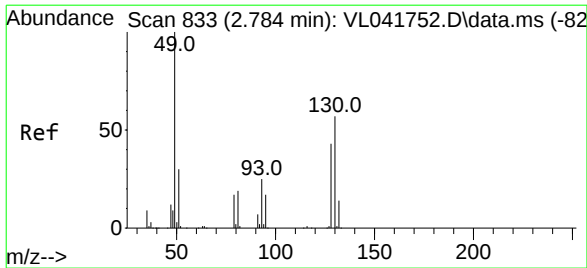
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Quant Time: Jan 03 16:42:13 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121624AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Dec 19 07:32:09 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025  
Supervised By : Mahesh Dadoda 01/06/2025





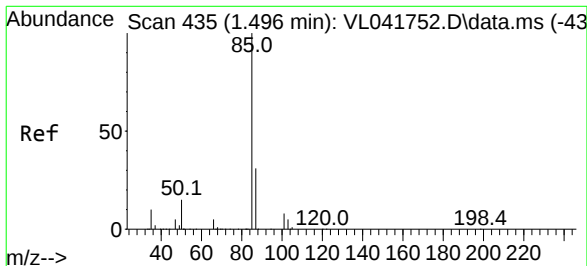
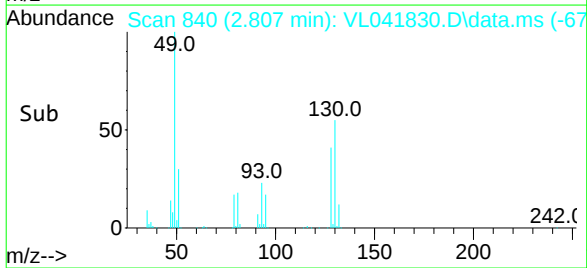
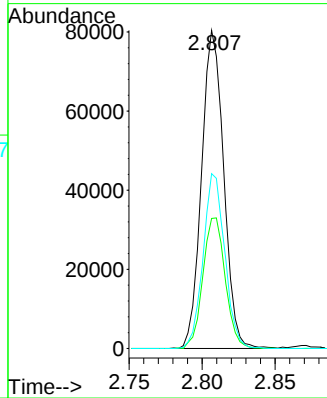
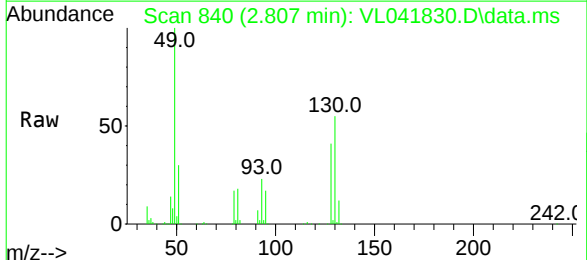
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.807 min Scan# 84  
Delta R.T. 0.023 min  
Lab File: VL041830.D  
Acq: 03 Jan 2025 16:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 41.5  | 21.6  | 64.6  |
| 130     | 53.7  | 28.3  | 85.0  |

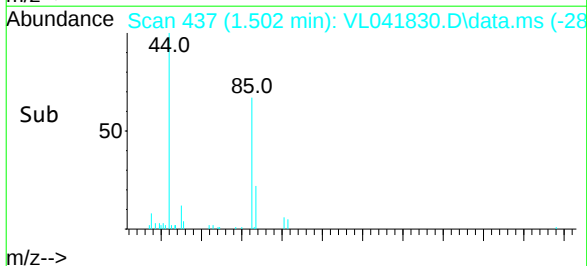
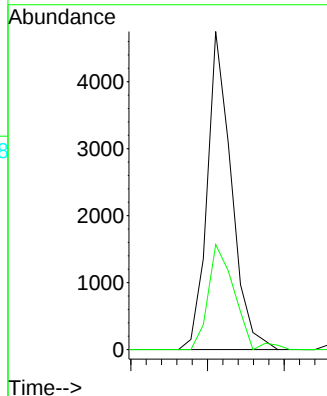
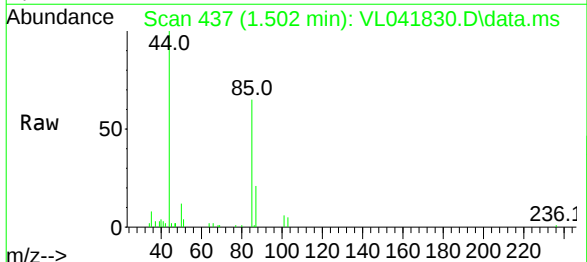
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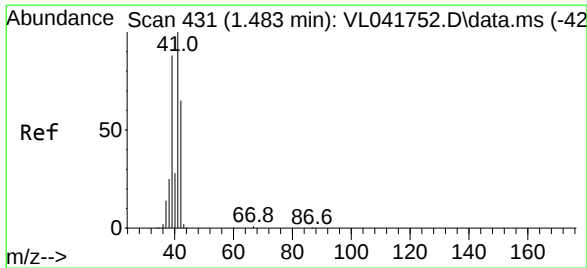
Reviewed By :Semsettin Yesilyurt 01/06/2025  
Supervised By :Mahesh Dadoda 01/06/2025



#2  
Dichlorodifluoromethane  
Concen: 0.138 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.006 min  
Lab File: VL041830.D  
Acq: 03 Jan 2025 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 33.0  | 24.5  | 36.7  |





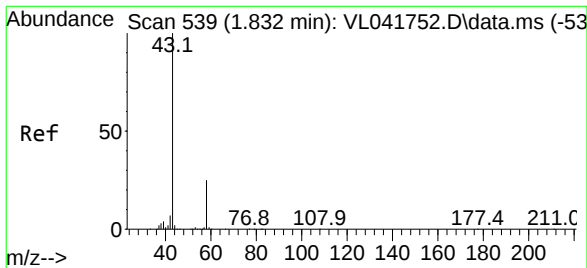
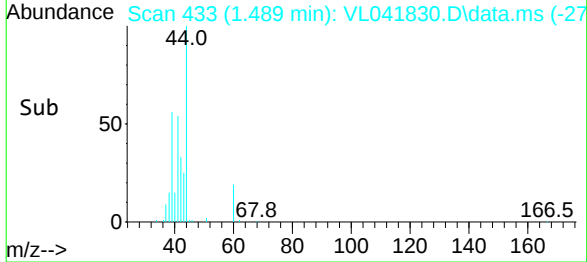
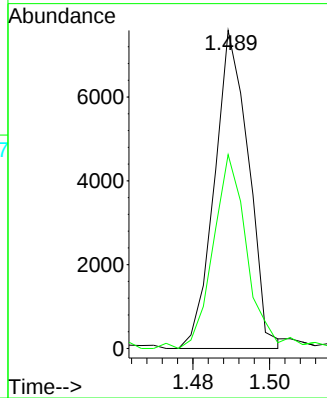
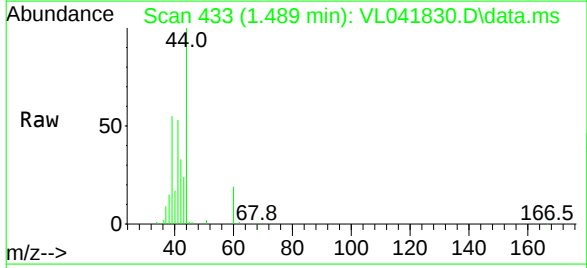
#9  
Propene  
Concen: 0.778 ppbv  
RT: 1.489 min Scan# 431  
Delta R.T. 0.006 min  
Lab File: VL041830.D  
Acq: 03 Jan 2025 16:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Tgt Ion: 41 Resp: 4670  
Ion Ratio Lower Upper  
41 100  
42 64.1 52.4 78.6

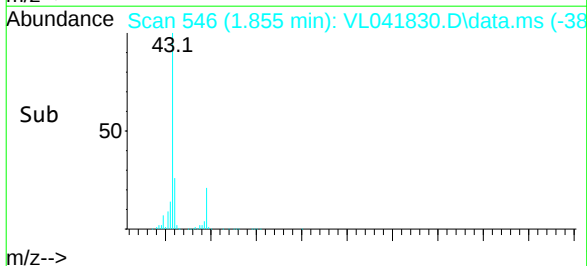
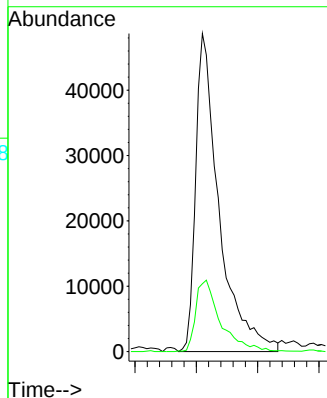
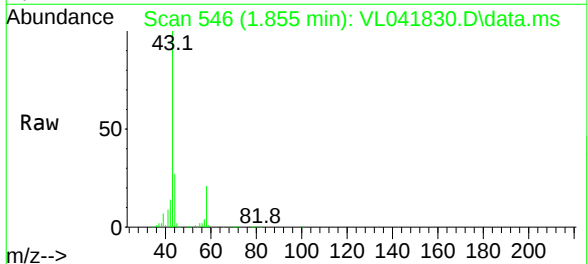
Manual Integrations  
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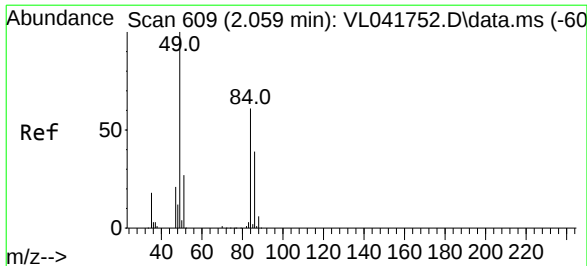
Reviewed By :Semsettin Yesilyurt 01/06/2025  
Supervised By :Mahesh Dadoda 01/06/2025



#15  
Acetone  
Concen: 3.898 ppbv  
RT: 1.855 min Scan# 546  
Delta R.T. 0.022 min  
Lab File: VL041830.D  
Acq: 03 Jan 2025 16:19

Tgt Ion: 43 Resp: 64425  
Ion Ratio Lower Upper  
43 100  
58 23.9 19.7 29.5





#20

Methylene Chloride

Concen: 0.372 ppbv

RT: 2.075 min Scan# 61

Delta R.T. 0.016 min

Lab File: VL041830.D

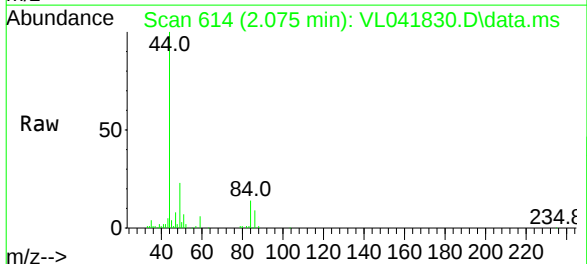
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Instrument :

MSVOA\_L

ClientSampleId :

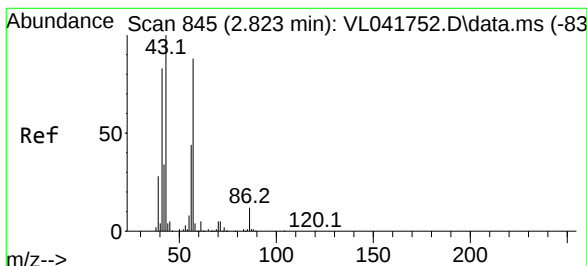
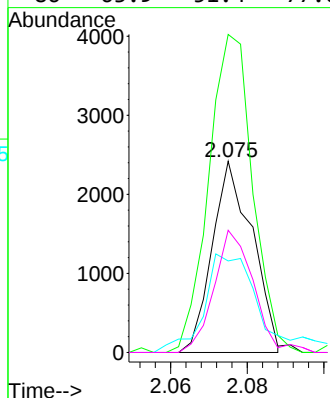
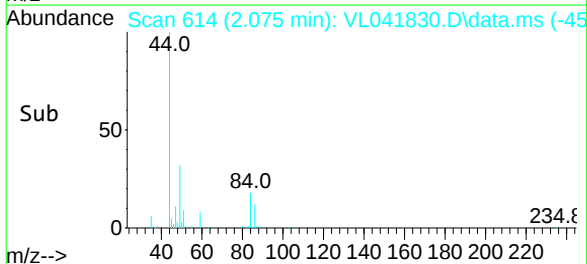
SV1



| Tgt Ion: | 84    | Resp: | 1754  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 159.8 | 132.6 | 198.8 |
| 51       | 40.9  | 37.6  | 56.4  |
| 86       | 63.9  | 51.4  | 77.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025  
Supervised By :Mahesh Dadoda 01/06/2025



#26

Hexane

Concen: 0.450 ppbv

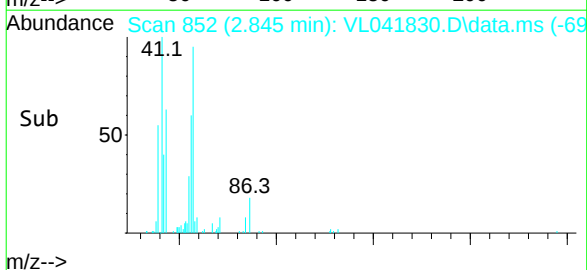
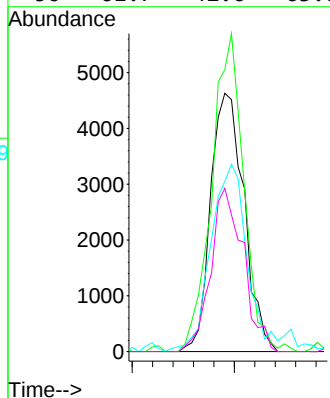
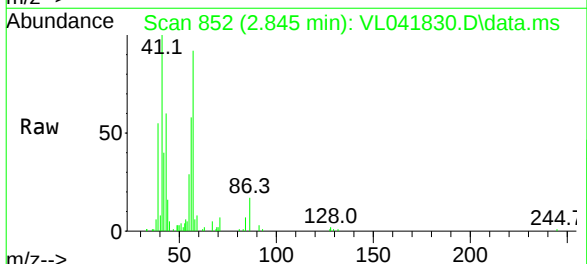
RT: 2.845 min Scan# 852

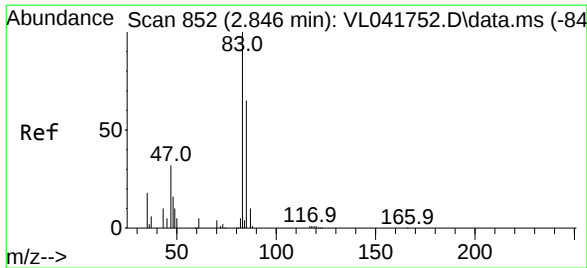
Delta R.T. 0.022 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

| Tgt Ion: | 57    | Resp: | 5254   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 117.8 | 79.6  | 119.4  |
| 43       | 84.8  | 211.0 | 316.6# |
| 56       | 61.7  | 42.6  | 63.8   |





#29

Chloroform

Concen: 0.343 ppbv

RT: 2.868 min Scan# 85

Delta R.T. 0.022 min

Lab File: VL041830.D

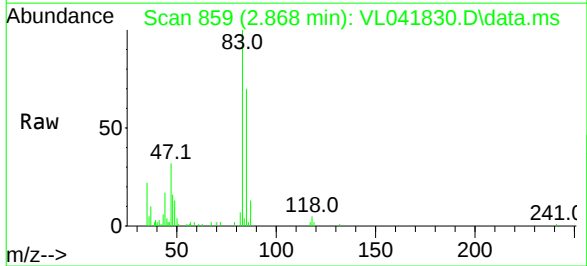
Acq: 03 Jan 2025 16:19

Instrument :

MSVOA\_L

ClientSampleId :

SV1



Tgt Ion: 83 Resp: 6099

Ion Ratio Lower Upper

83 100

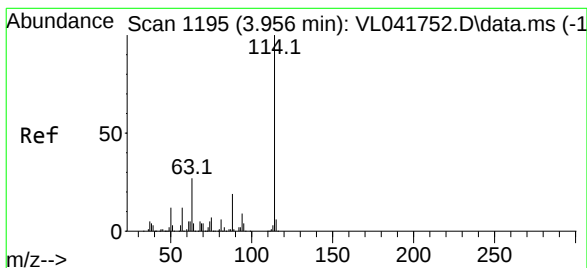
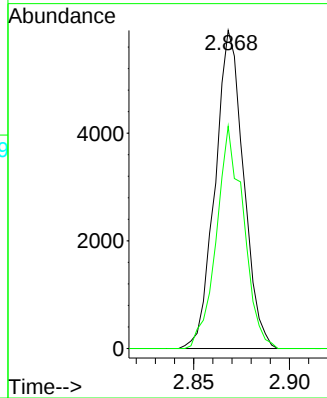
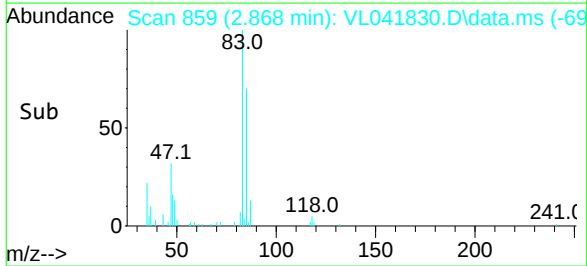
85 69.9 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1205

Delta R.T. 0.032 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

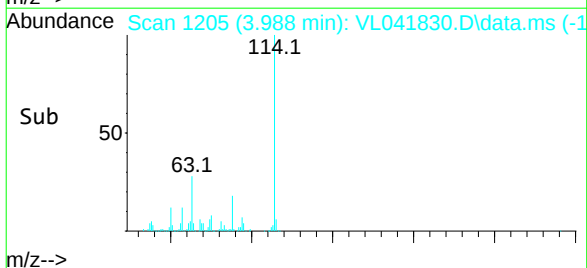
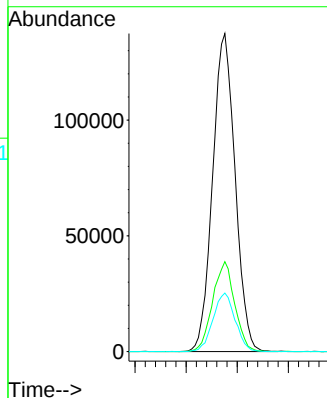
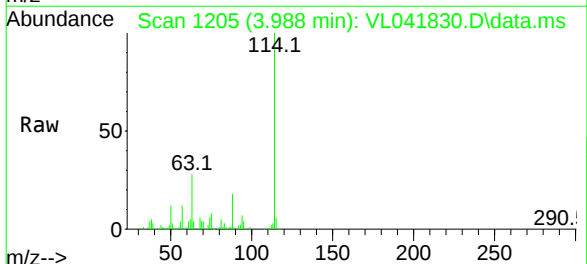
Tgt Ion:114 Resp: 209918

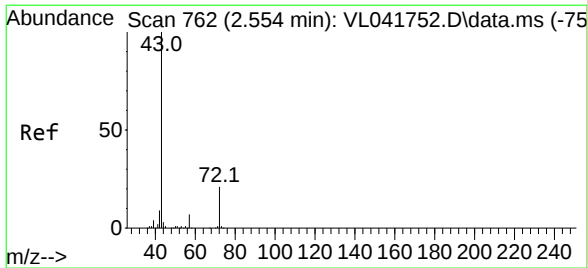
Ion Ratio Lower Upper

114 100

63 27.8 21.8 32.8

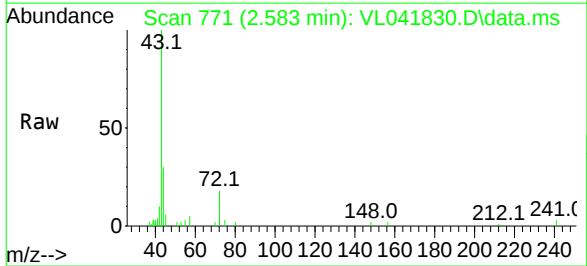
88 18.1 14.8 22.2





#34  
2-Butanone  
Concen: 0.329 ppbv  
RT: 2.583 min Scan# 771  
Delta R.T. 0.029 min  
Lab File: VL041830.D  
Acq: 03 Jan 2025 16:19

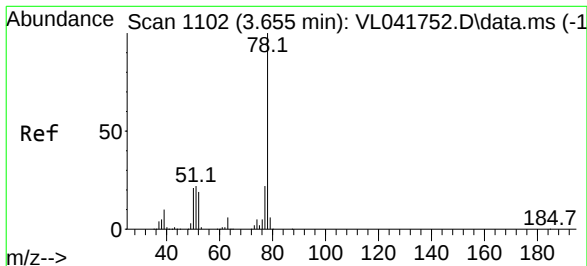
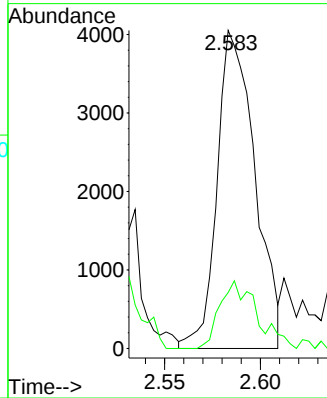
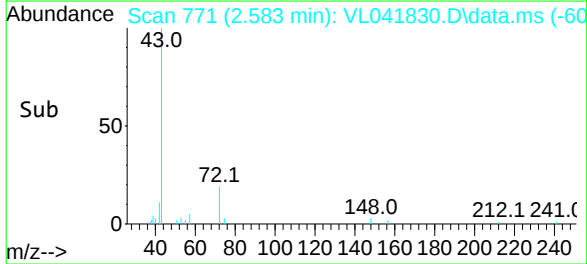
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 43 Resp: 5555  
Ion Ratio Lower Upper  
43 100  
72 22.0 16.8 25.2

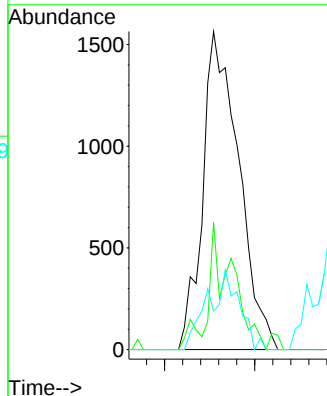
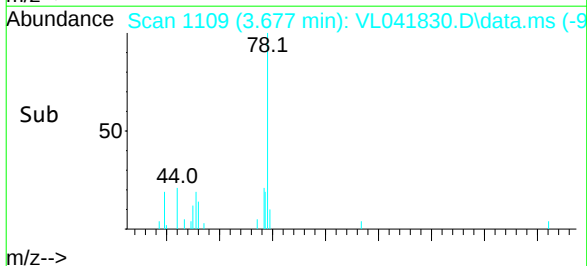
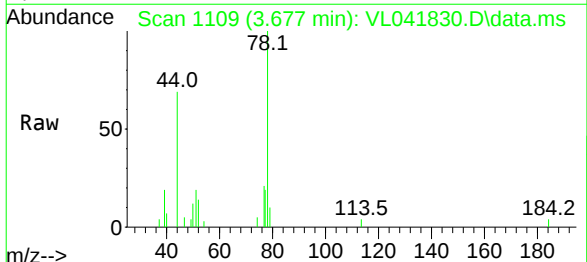
Manual Integrations  
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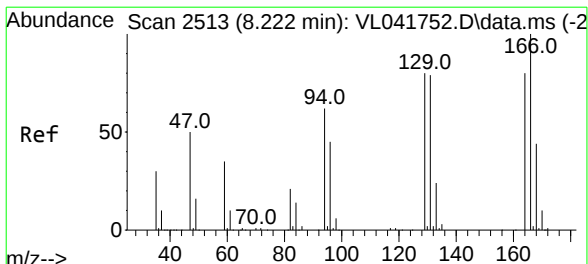
Reviewed By :Semsettin Yesilyurt 01/06/2025  
Supervised By :Mahesh Dadoda 01/06/2025



#36  
Benzene  
Concen: 0.100 ppbv  
RT: 3.677 min Scan# 1109  
Delta R.T. 0.022 min  
Lab File: VL041830.D  
Acq: 03 Jan 2025 16:19

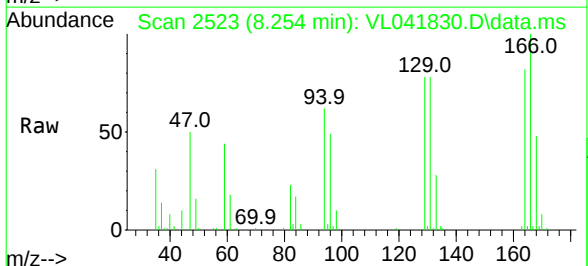
Tgt Ion: 78 Resp: 2169  
Ion Ratio Lower Upper  
78 100  
77 40.0 17.8 26.6#  
50 12.1 17.2 25.8#





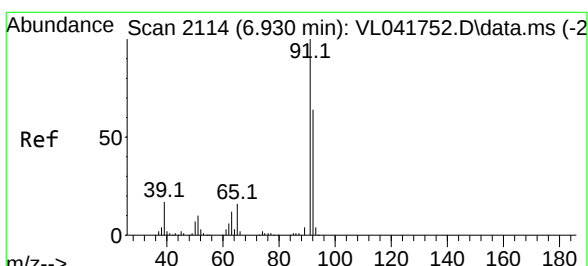
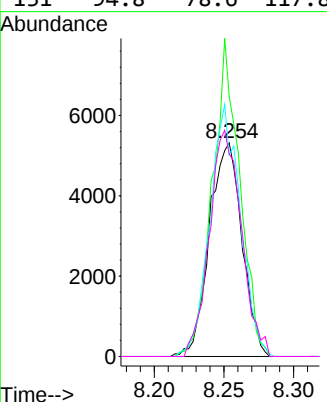
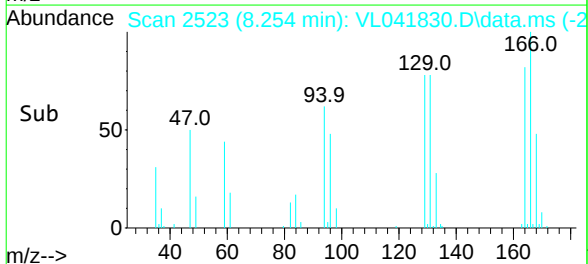
#52  
**Tetrachloroethene**  
 Concen: 1.070 ppbv  
 RT: 8.254 min Scan# 2513  
 Delta R.T. 0.032 min  
 Lab File: VL041830.D  
 Acq: 03 Jan 2025 16:19

**Instrument :** MSVOA\_L  
**ClientSampleId :** SV1

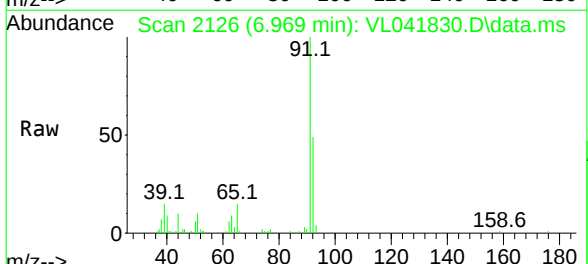


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 8645  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 121.8 | 99.8  | 149.6 |
| 129      | 94.4  | 79.6  | 119.4 |
| 131      | 94.8  | 78.6  | 117.8 |

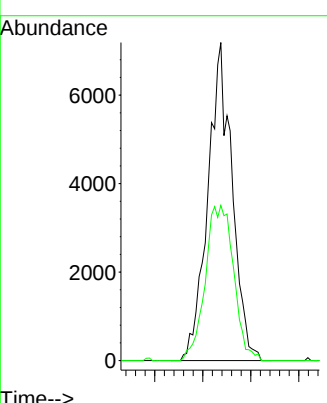
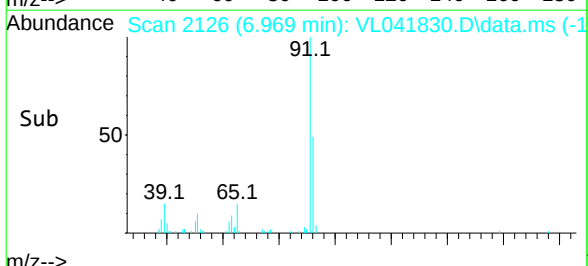
**Manual Integrations**  
**APPROVED**  
 Reviewed By :Semsettin Yesilyurt 01/06/2025  
 Supervised By :Mahesh Dadoda 01/06/2025

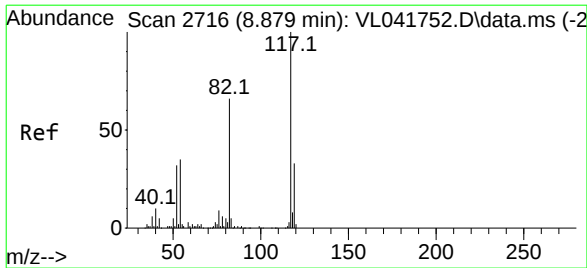


#53  
**Toluene**  
 Concen: 0.512 ppbv m  
 RT: 6.969 min Scan# 2126  
 Delta R.T. 0.039 min  
 Lab File: VL041830.D  
 Acq: 03 Jan 2025 16:19



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 12602 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 0.0   | 47.9  | 71.9  |





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 2716

Delta R.T. 0.026 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Instrument :

MSVOA\_L

ClientSampleId :

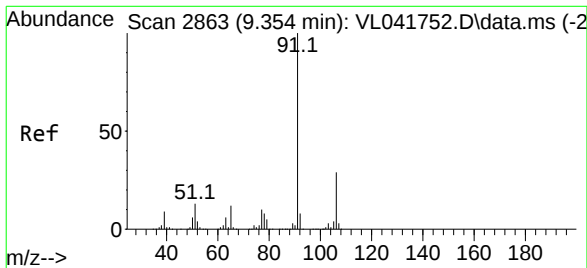
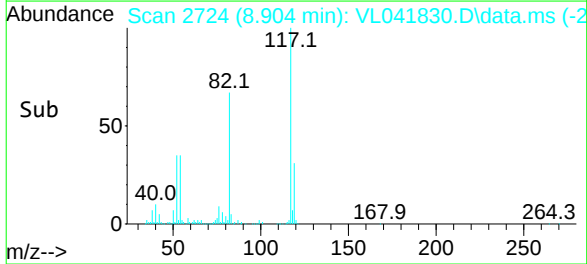
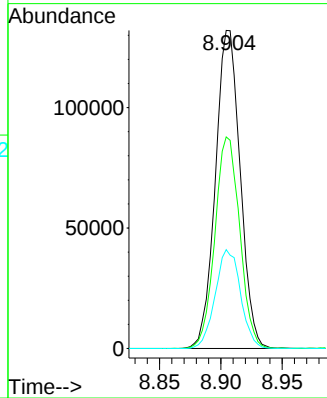
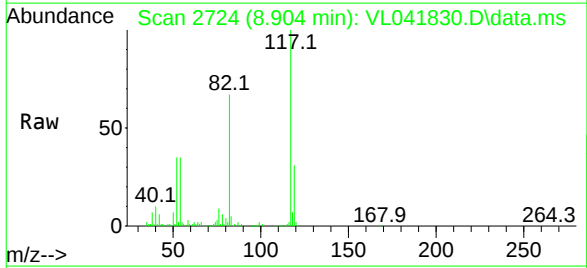
SV1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 185698 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 66.6  | 53.8  | 80.8   |
| 119      | 31.8  | 26.7  | 40.1   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025  
Supervised By :Mahesh Dadoda 01/06/2025



#58

Ethyl Benzene

Concen: 0.100 ppbv m

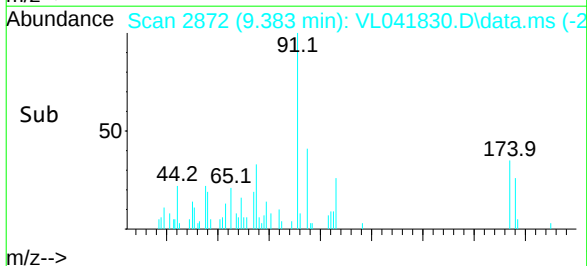
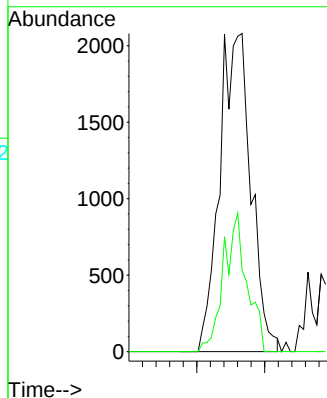
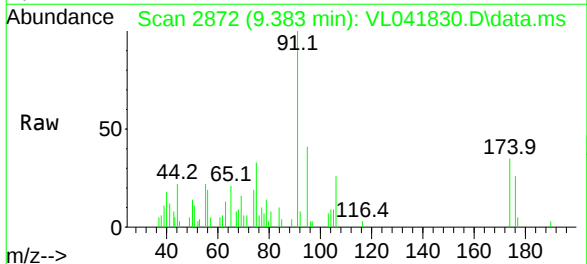
RT: 9.383 min Scan# 2872

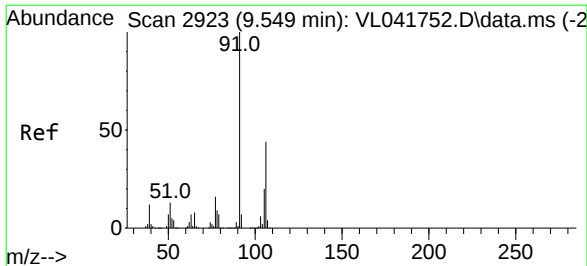
Delta R.T. 0.029 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 3350  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 25.7  | 23.5  | 35.3  |





#59

m/p-Xylene

Concen: 0.347 ppbv

RT: 9.552 min Scan# 29

Delta R.T. 0.003 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Instrument :

MSVOA\_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 9334

Ion Ratio Lower Upper

91 100

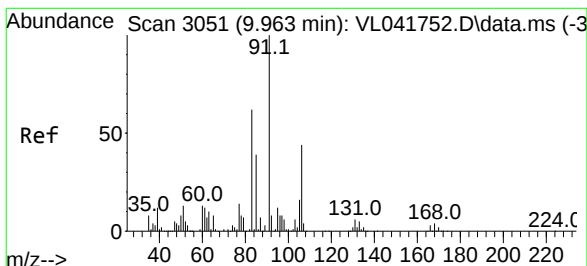
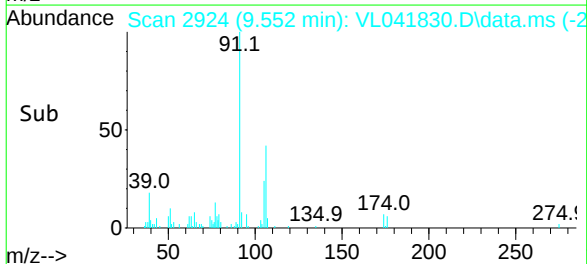
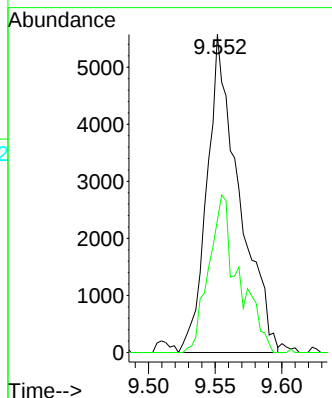
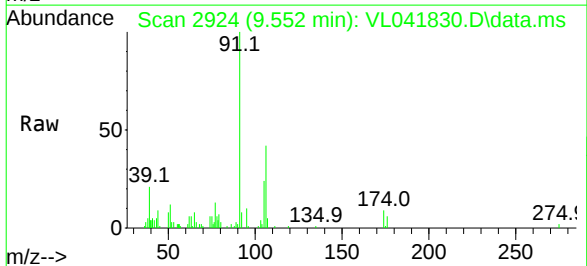
106 46.6 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#60

o-Xylene

Concen: 0.213 ppbv m

RT: 9.982 min Scan# 3057

Delta R.T. 0.019 min

Lab File: VL041830.D

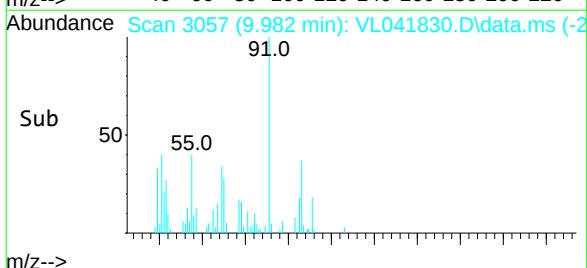
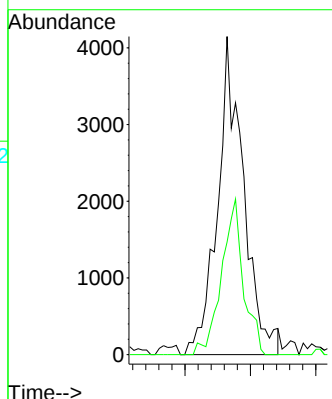
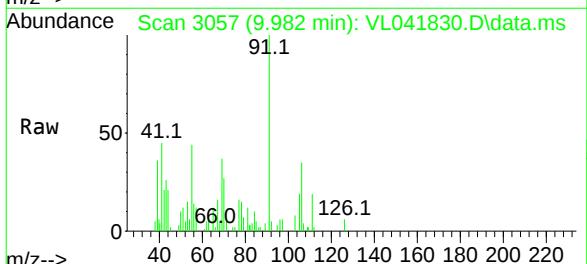
Acq: 03 Jan 2025 16:19

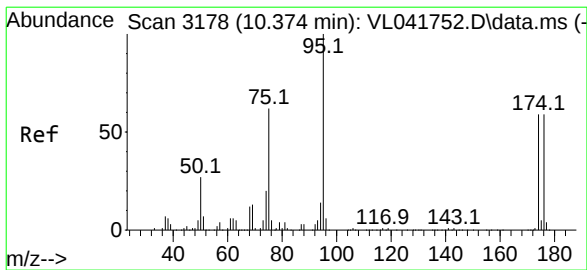
Tgt Ion: 91 Resp: 5731

Ion Ratio Lower Upper

91 100

106 75.9 21.1 63.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.592 ppbv

RT: 10.396 min Scan# 3178

Delta R.T. 0.022 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Instrument :

MSVOA\_L

ClientSampleId :

SV1

Tgt Ion: 95 Resp: 163901

Ion Ratio Lower Upper

95 100

174 58.2 47.6 71.4

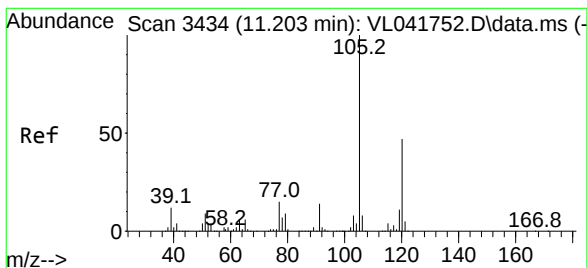
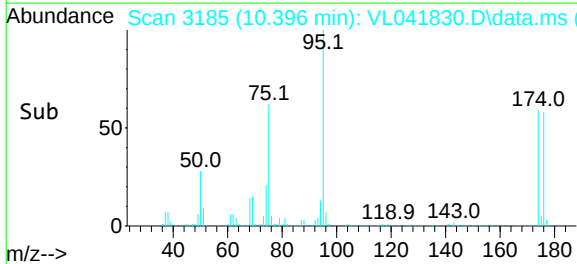
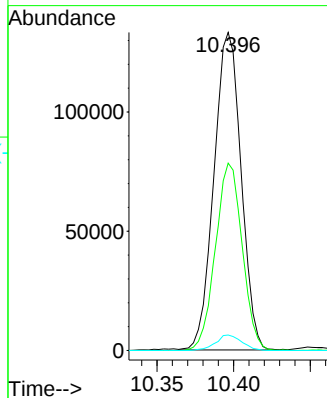
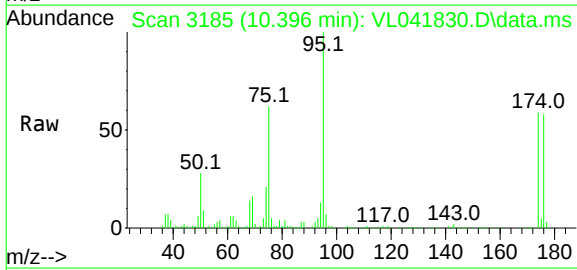
175 4.7 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#73

1,3,5-Trimethylbenzene

Concen: 0.146 ppbv

RT: 11.222 min Scan# 3440

Delta R.T. 0.019 min

Lab File: VL041830.D

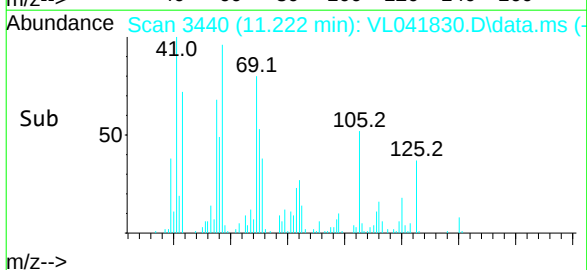
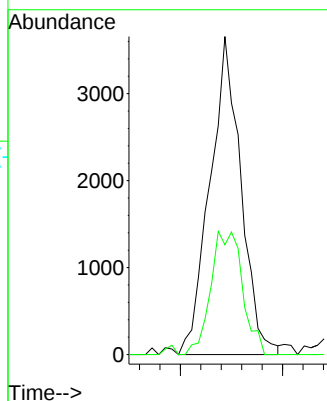
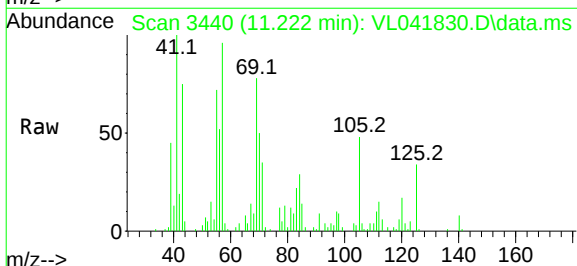
Acq: 03 Jan 2025 16:19

Tgt Ion:105 Resp: 3851

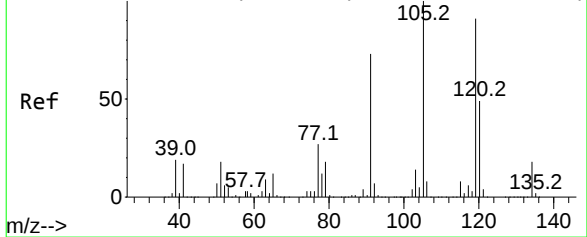
Ion Ratio Lower Upper

105 100

120 32.8 37.4 56.2#



Abundance Scan 3537 (11.536 min): VL041752.D\data.ms (-



#74

1,2,4-Trimethylbenzene

Concen: 0.389 ppbv

RT: 11.552 min Scan# 35

Delta R.T. 0.016 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

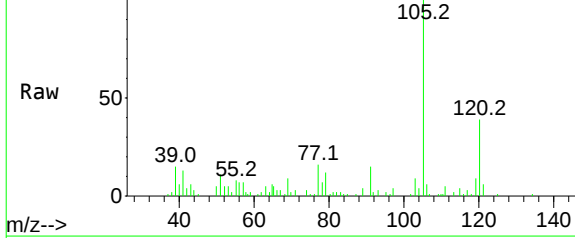
Instrument :

MSVOA\_L

ClientSampleId :

SV1

Abundance Scan 3542 (11.552 min): VL041830.D\data.ms (-



Tgt Ion:105 Resp: 11033

Ion Ratio Lower Upper

105 100

120 38.8 39.0 58.4#

91 14.0 58.1 87.1#

77 12.6 21.8 32.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025

Abundance Scan 3542 (11.552 min): VL041830.D\data.ms (-

