

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121824\  
 Data File : VL041797.D  
 Acq On : 18 Dec 2024 17:10  
 Operator : SY/MD  
 Sample : P5293-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0AB9

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024  
 Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:56:21 2024

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   | 2.797 | 49   | 71328    | 10.000 | ppbv  | 0.01     |
| 33) 1,4-Difluorobenzene | 3.975 | 114  | 174211   | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 8.898 | 117  | 152989   | 10.000 | ppbv  | 0.02     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 130229 10.215 ppbv 0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

|                            |       |     |        |         |        | Qvalue |
|----------------------------|-------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 1.502 | 85  | 5246   | 0.413   | ppbv   | 94     |
| 3) Chlorodifluoromethane   | 1.479 | 51  | 3227m  | 0.277   | ppbv   |        |
| 4) Chloromethane           | 1.534 | 50  | 1923   | 0.387   | ppbv   | 98     |
| 9) Propene                 | 1.492 | 41  | 8186m  | 1.624   | ppbv   |        |
| 11) Trichlorofluoromethane | 1.884 | 101 | 2866   | 0.213   | ppbv   | 90     |
| 13) Ethanol                | 1.725 | 45  | 205824 | 493.023 | ppbv   | 94     |
| 15) Acetone                | 1.842 | 43  | 44740  | 3.224   | ppbv # | 85     |
| 19) Isopropyl Alcohol      | 1.894 | 45  | 5535   | 0.665   | ppbv # | 1      |
| 20) Methylene Chloride     | 2.068 | 84  | 50434  | 12.744  | ppbv   | 99     |
| 26) Hexane                 | 2.839 | 57  | 20909  | 2.134   | ppbv # | 31     |
| 29) Chloroform             | 2.858 | 83  | 44135  | 2.956   | ppbv   | 99     |
| 34) 2-Butanone             | 2.570 | 43  | 2830   | 0.202   | ppbv   | 99     |
| 35) Carbon Tetrachloride   | 3.781 | 117 | 751m   | 0.061   | ppbv   |        |
| 36) Benzene                | 3.670 | 78  | 3686   | 0.205   | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane | 4.661 | 57  | 3240m  | 0.105   | ppbv   |        |
| 53) Toluene                | 6.952 | 91  | 6176m  | 0.302   | ppbv   |        |
| 59) m/p-Xylene             | 9.538 | 91  | 2804m  | 0.127   | ppbv   |        |

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

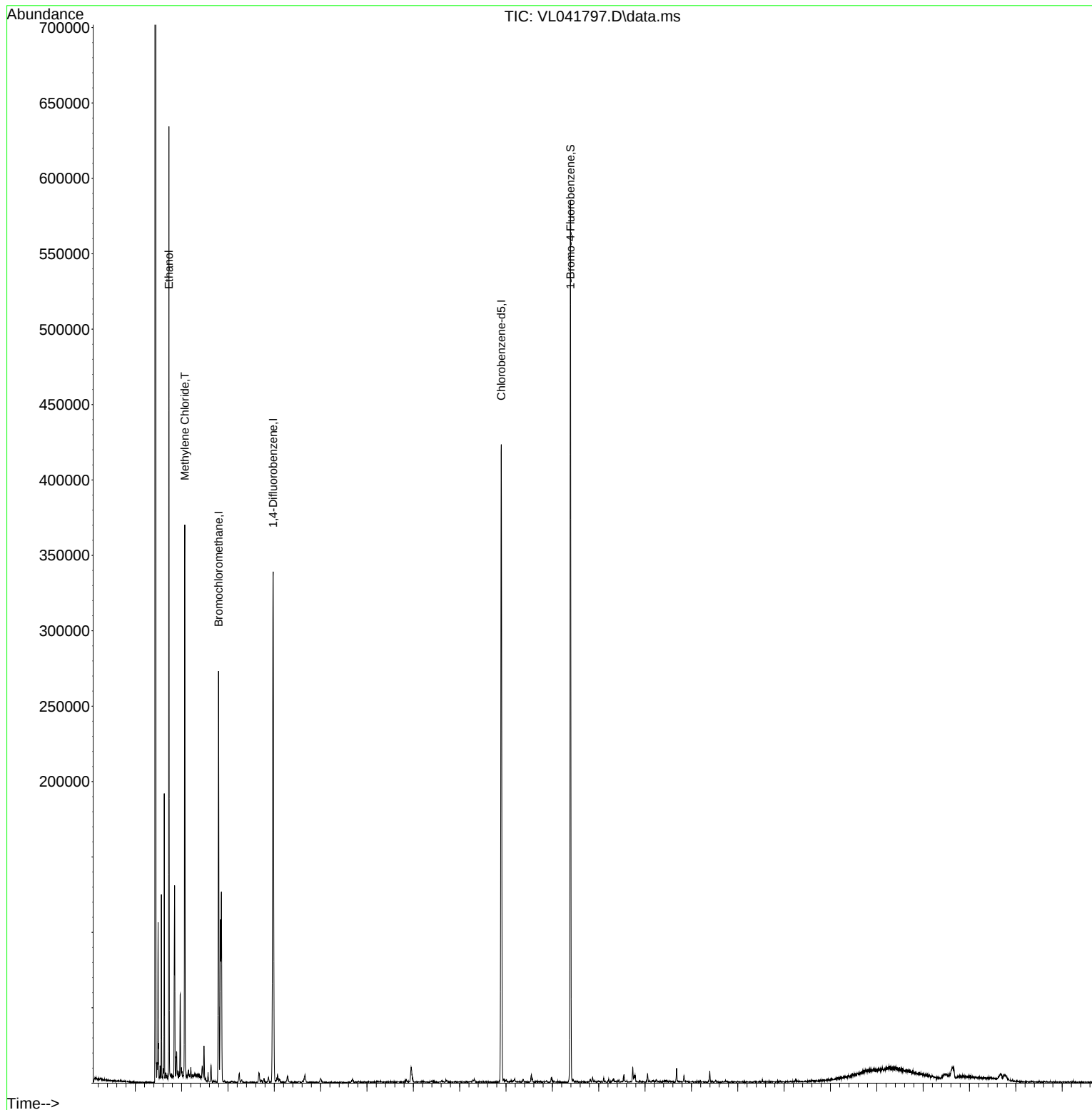
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121824\  
Data File : VL041797.D  
Acq On : 18 Dec 2024 17:10  
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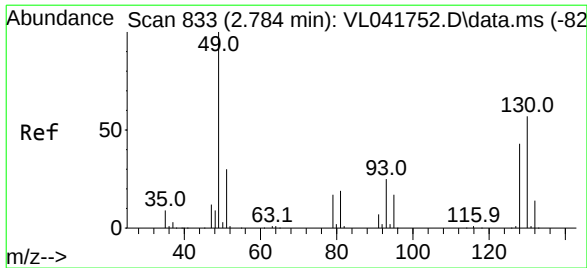
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:56:21 2024  
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





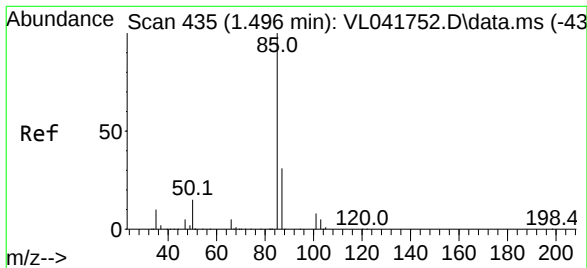
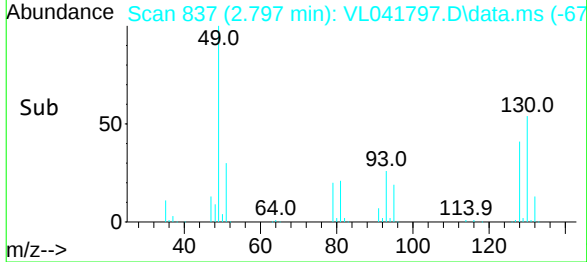
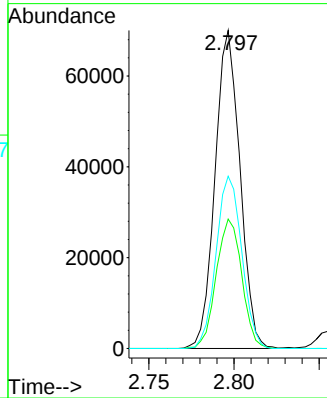
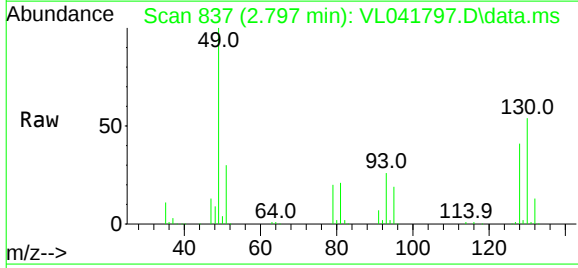
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.797 min Scan# 833  
Delta R.T. 0.013 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9

Tgt Ion: 49 Resp: 71328  
Ion Ratio Lower Upper  
49 100  
128 41.6 21.6 64.6  
130 55.8 28.3 85.0

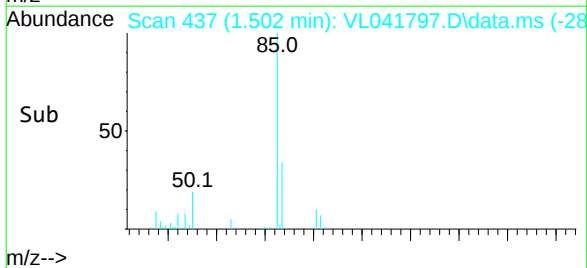
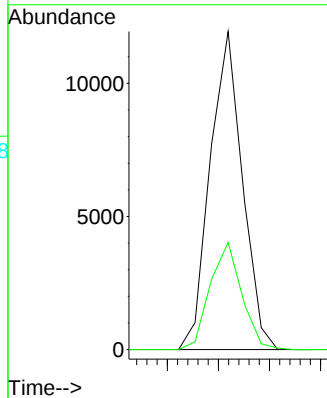
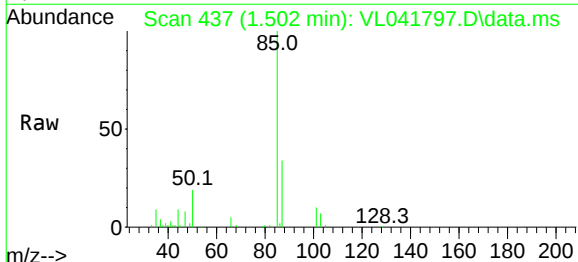
Manual Integrations  
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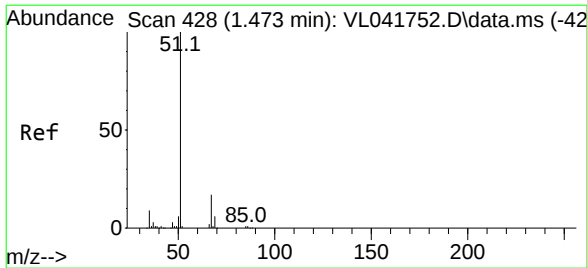
Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#2  
Dichlorodifluoromethane  
Concen: 0.413 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.006 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Tgt Ion: 85 Resp: 5246  
Ion Ratio Lower Upper  
85 100  
87 33.7 24.5 36.7





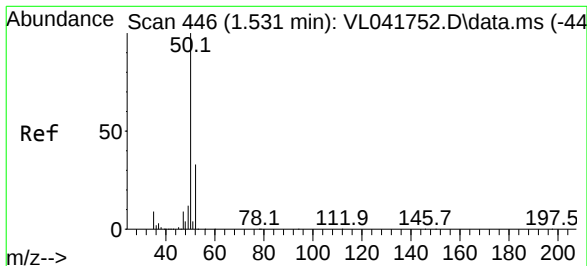
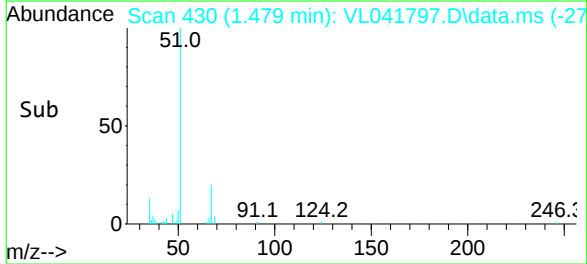
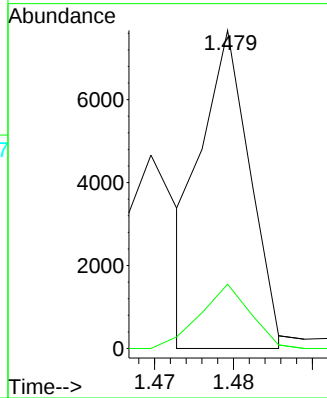
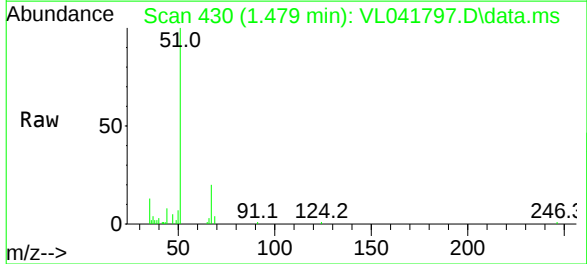
#3  
Chlorodifluoromethane  
Concen: 0.277 ppbv m  
RT: 1.479 min Scan# 43  
Delta R.T. 0.006 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9

Tgt Ion: 51 Resp: 3227  
Ion Ratio Lower Upper  
51 100  
67 2.0 15.0 22.4#

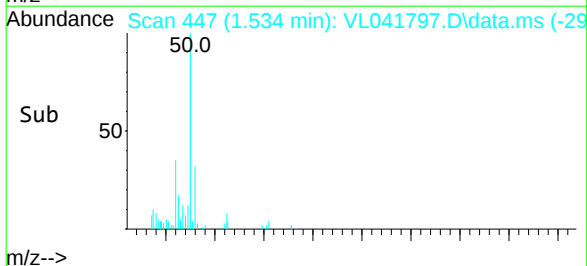
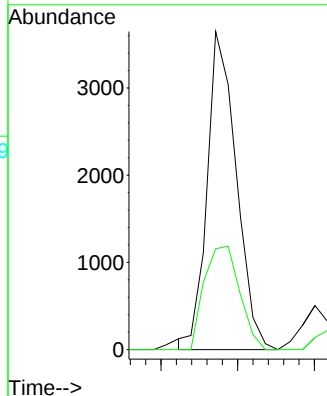
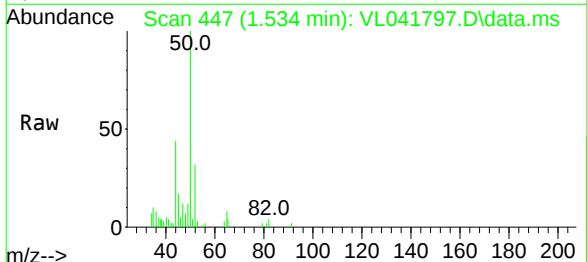
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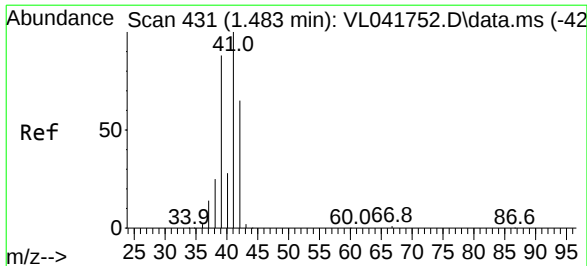
Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#4  
Chloromethane  
Concen: 0.387 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

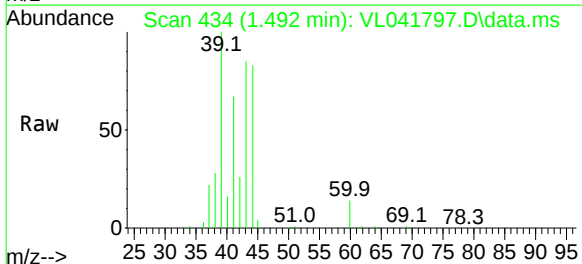
Tgt Ion: 50 Resp: 1923  
Ion Ratio Lower Upper  
50 100  
52 31.7 26.2 39.2





#9  
 Propene  
 Concen: 1.624 ppbv m  
 RT: 1.492 min Scan# 431  
 Delta R.T. 0.009 min  
 Lab File: VL041797.D  
 Acq: 18 Dec 2024 17:10

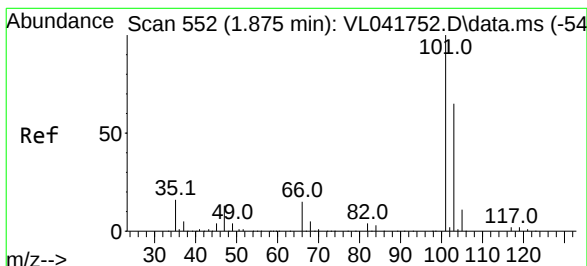
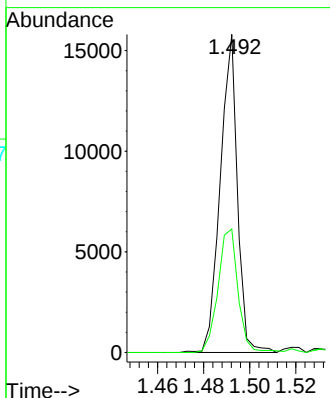
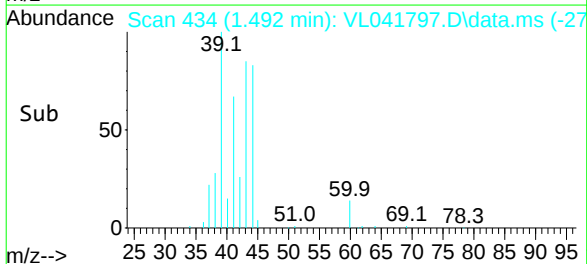
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0AB9



Tgt Ion: 41 Resp: 8186  
 Ion Ratio Lower Upper  
 41 100  
 42 70.9 52.4 78.6

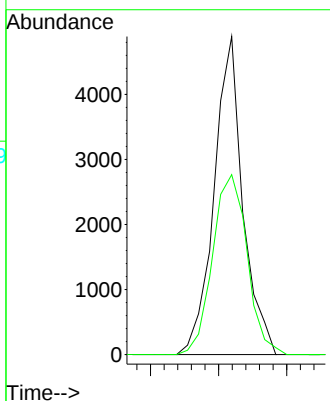
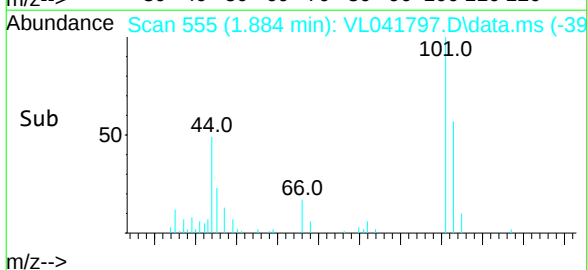
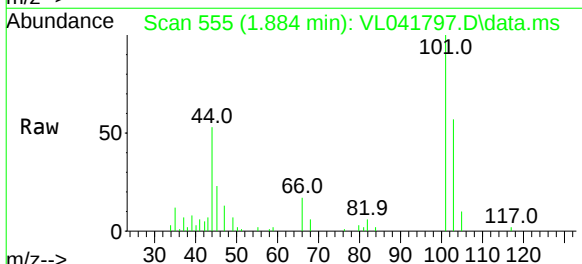
Manual Integrations  
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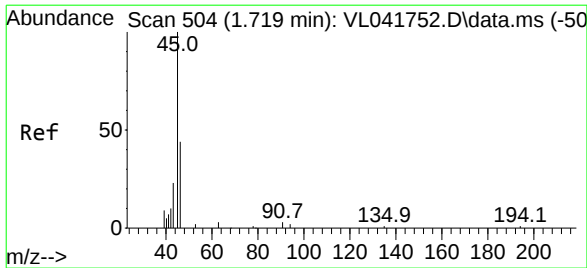
Reviewed By :Semsettin Yesilyurt 12/19/2024  
 Supervised By :Mahesh Dadoda 12/19/2024



#11  
 Trichlorofluoromethane  
 Concen: 0.213 ppbv  
 RT: 1.884 min Scan# 555  
 Delta R.T. 0.009 min  
 Lab File: VL041797.D  
 Acq: 18 Dec 2024 17:10

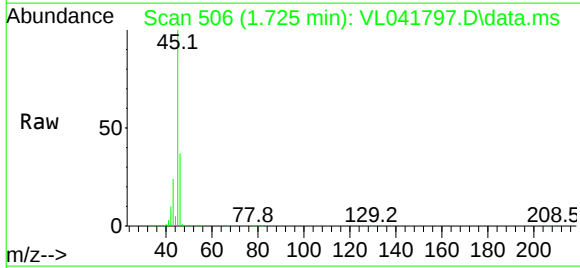
Tgt Ion:101 Resp: 2866  
 Ion Ratio Lower Upper  
 101 100  
 103 56.6 51.8 77.8





#13  
Ethanol  
Concen: 493.023 ppbv  
RT: 1.725 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

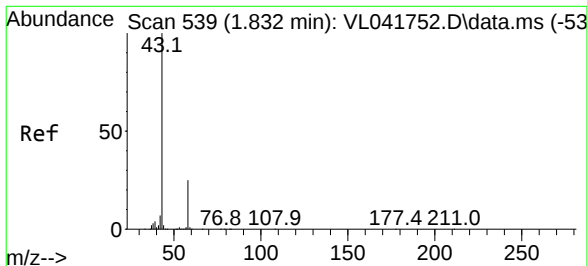
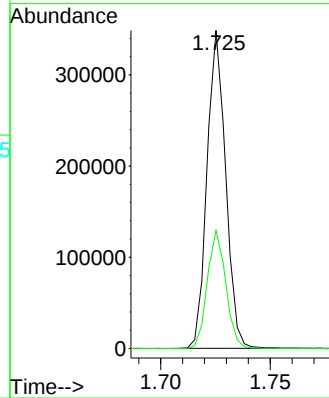
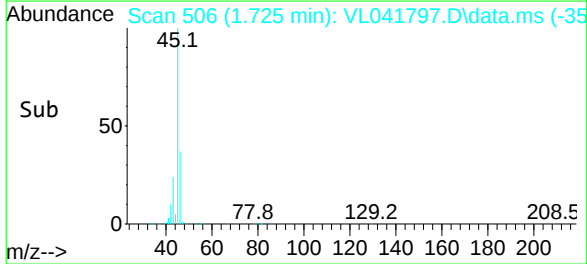
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9



Tgt Ion: 45 Resp: 205824  
Ion Ratio Lower Upper  
45 100  
46 37.1 16.4 65.8

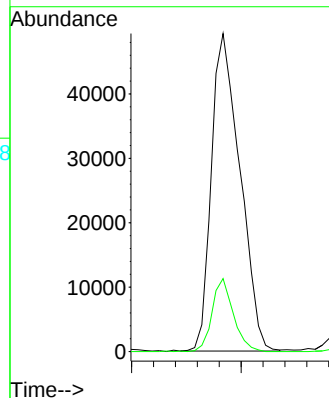
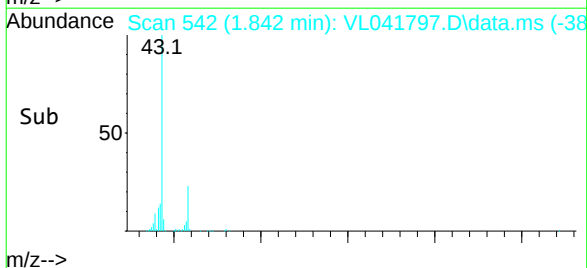
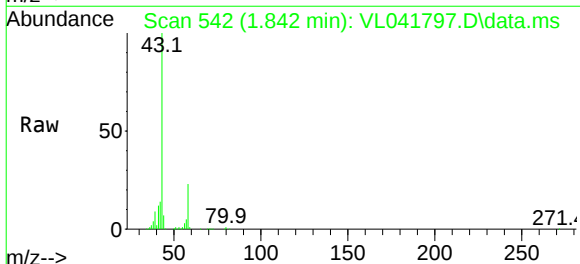
Manual Integrations  
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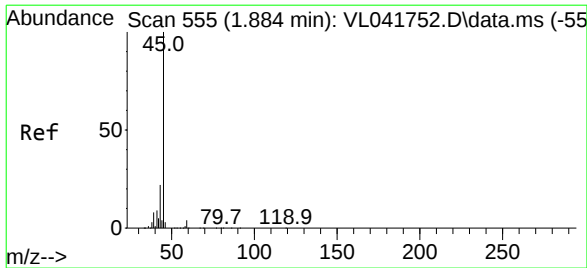
Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#15  
Acetone  
Concen: 3.224 ppbv  
RT: 1.842 min Scan# 542  
Delta R.T. 0.009 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Tgt Ion: 43 Resp: 44740  
Ion Ratio Lower Upper  
43 100  
58 17.2 19.7 29.5#





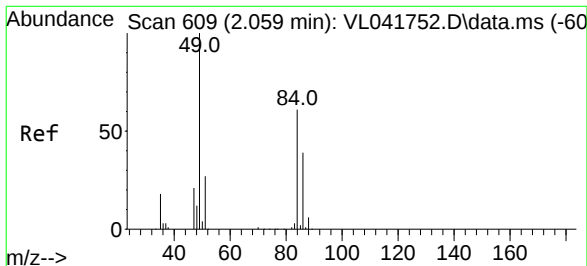
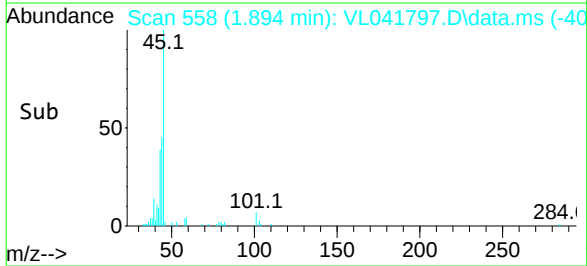
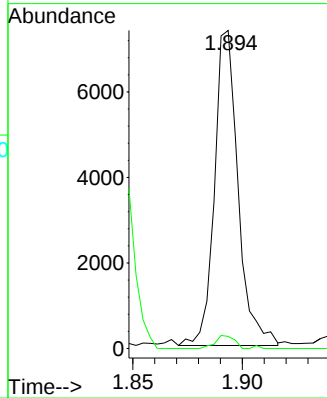
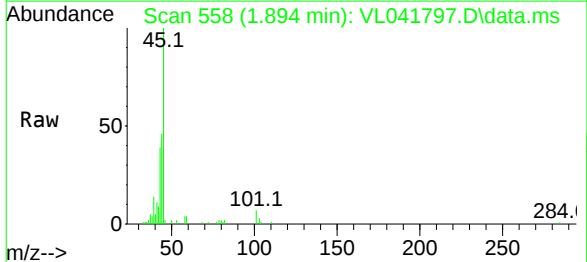
#19  
Isopropyl Alcohol  
Concen: 0.665 ppbv  
RT: 1.894 min Scan# 555  
Delta R.T. 0.009 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9

Tgt Ion: 45 Resp: 5535  
Ion Ratio Lower Upper  
45 100  
58 138.8 33.3 49.9#

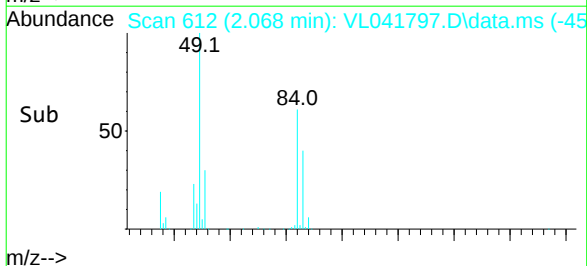
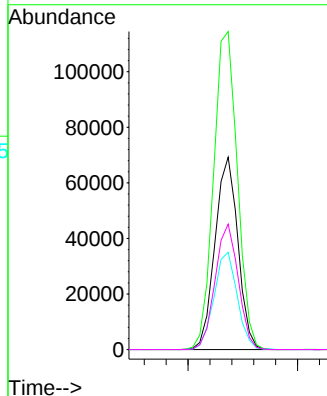
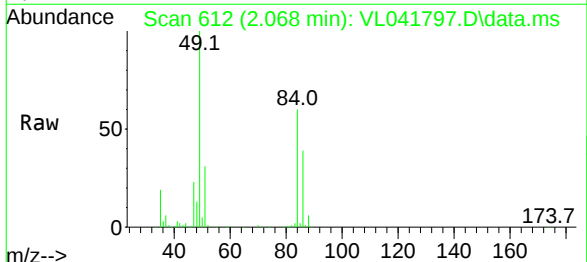
Manual Integrations  
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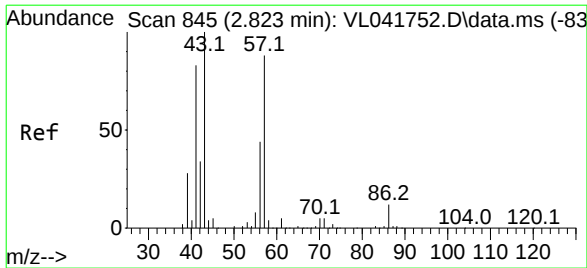
Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#20  
Methylene Chloride  
Concen: 12.744 ppbv  
RT: 2.068 min Scan# 612  
Delta R.T. 0.009 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Tgt Ion: 84 Resp: 50434  
Ion Ratio Lower Upper  
84 100  
49 165.3 132.6 198.8  
51 50.5 37.6 56.4  
86 65.2 51.4 77.0





#26

Hexane

Concen: 2.134 ppbv

RT: 2.839 min Scan# 85

Delta R.T. 0.016 min

Lab File: VL041797.D

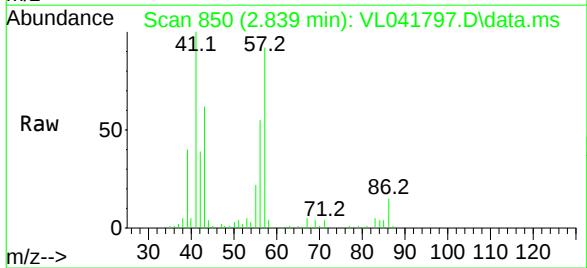
Acq: 18 Dec 2024 17:10

Instrument :

MSVOA\_L

ClientSampleId :

C0AB9



Tgt Ion: 57 Resp: 20909

Ion Ratio Lower Upper

57 100

41 113.7 79.6 119.4

43 80.4 211.0 316.6

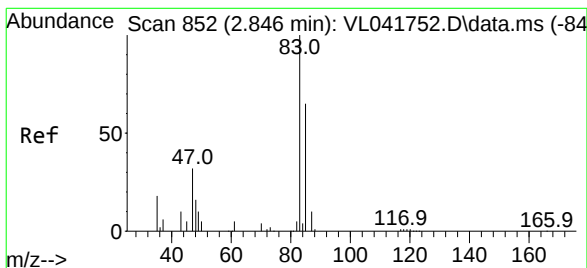
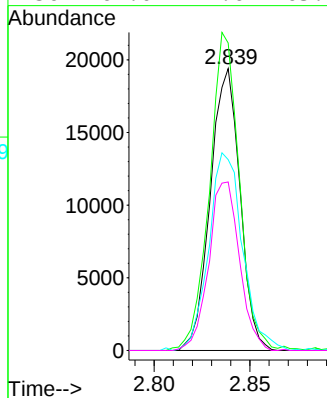
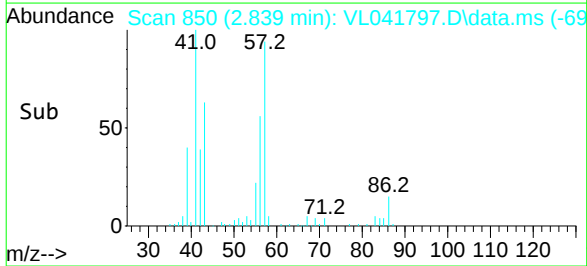
56 62.0 42.6 63.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#29

Chloroform

Concen: 2.956 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.013 min

Lab File: VL041797.D

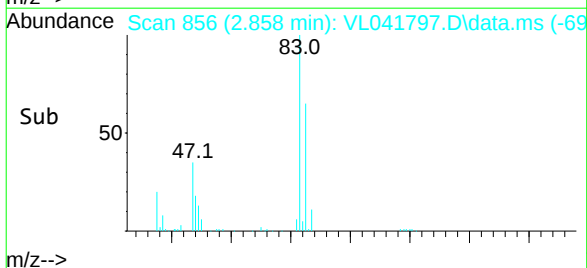
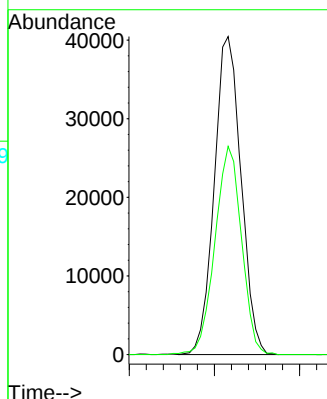
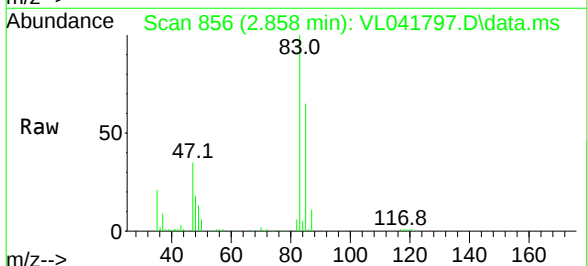
Acq: 18 Dec 2024 17:10

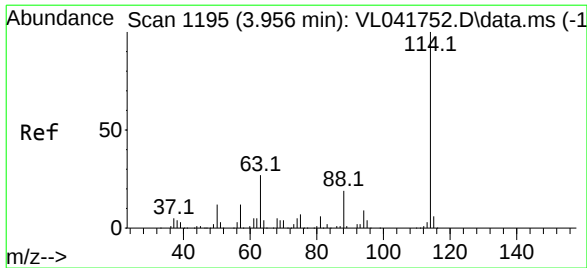
Tgt Ion: 83 Resp: 44135

Ion Ratio Lower Upper

83 100

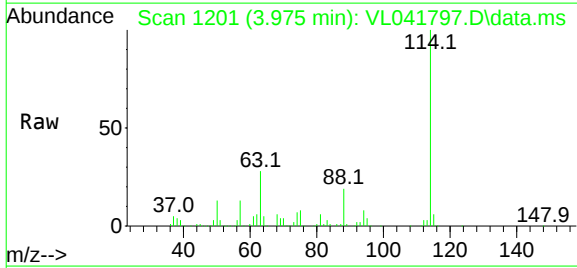
85 65.5 51.8 77.6





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.975 min Scan# 12  
Delta R.T. 0.019 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

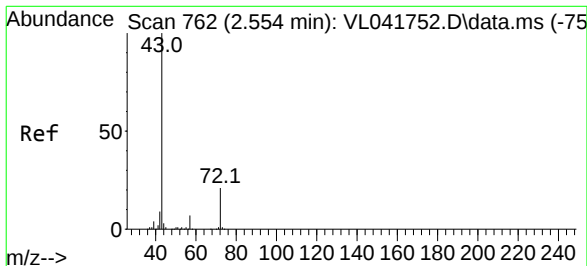
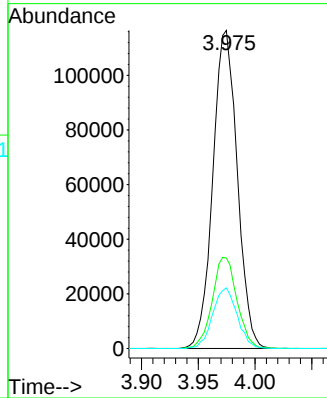
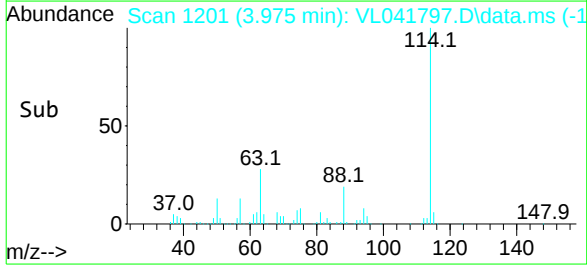
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9



Tgt Ion: 114 Resp: 174211  
Ion Ratio Lower Upper  
114 100  
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88 19.1 14.8 22.2

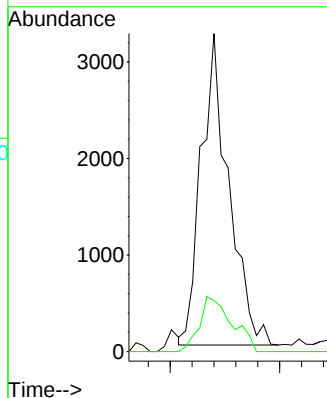
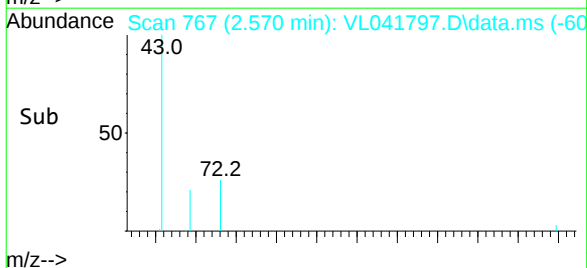
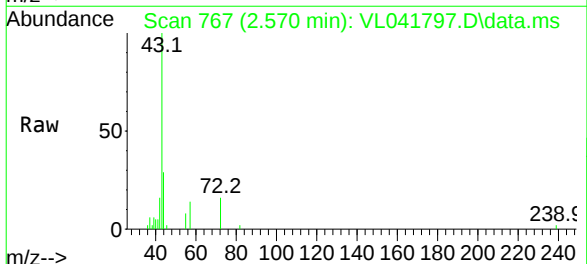
Manual Integrations  
APPROVED

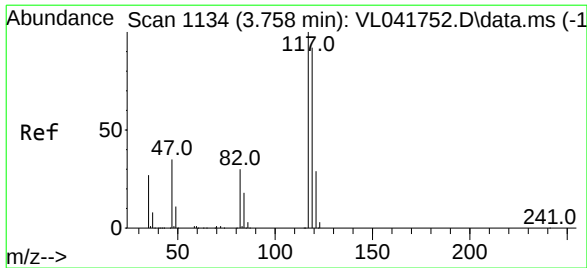
Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#34  
2-Butanone  
Concen: 0.202 ppbv  
RT: 2.570 min Scan# 767  
Delta R.T. 0.016 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Tgt Ion: 43 Resp: 2830  
Ion Ratio Lower Upper  
43 100  
72 20.6 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.061 ppbv m

RT: 3.781 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL041797.D

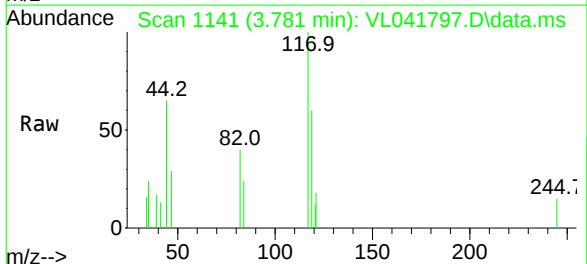
Acq: 18 Dec 2024 17:10

Instrument :

MSVOA\_L

ClientSampleId :

C0AB9

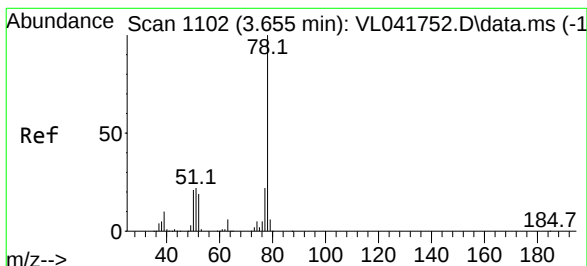
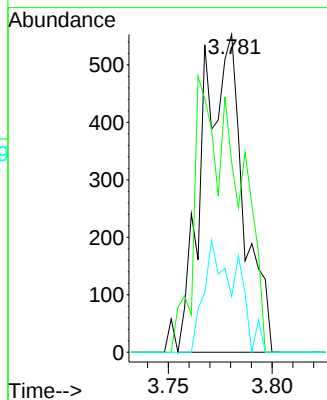
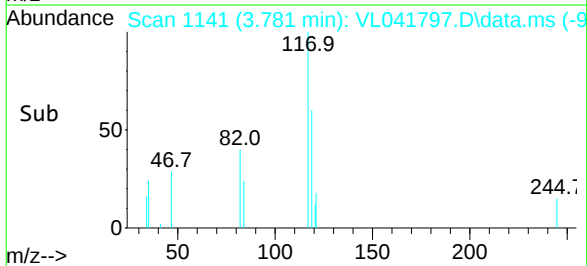


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 751    |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 59.7  | 73.7  | 110.5# |
| 121      | 17.5  | 23.0  | 34.4#  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#36

Benzene

Concen: 0.205 ppbv

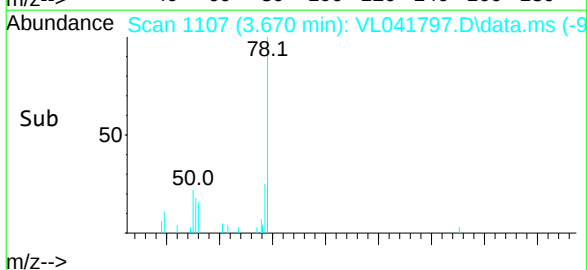
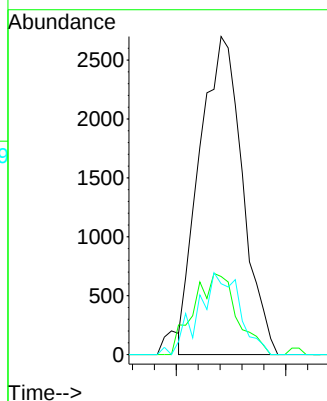
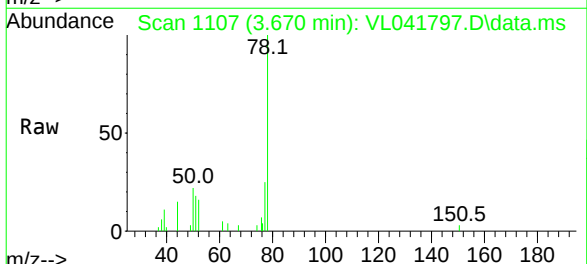
RT: 3.670 min Scan# 1107

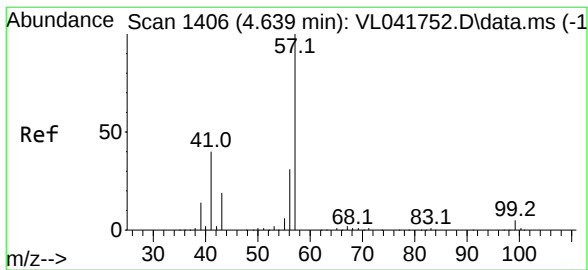
Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 3686  |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 24.6  | 17.8  | 26.6  |
| 50       | 22.3  | 17.2  | 25.8  |





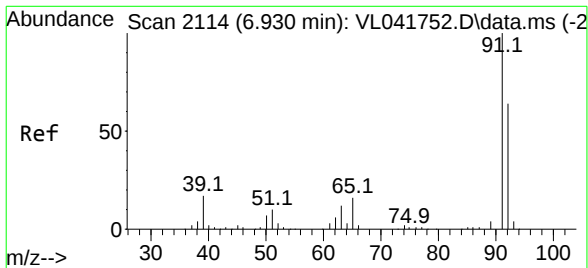
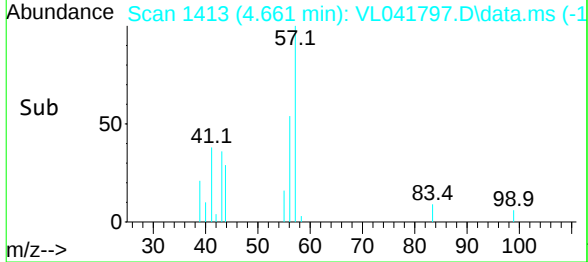
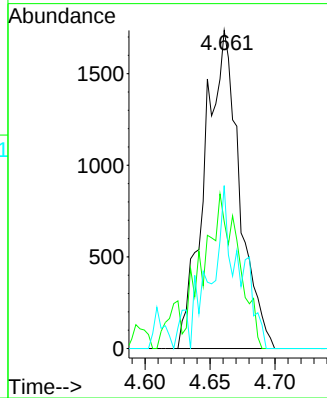
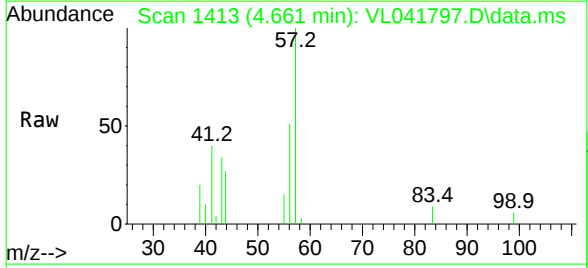
#44  
2,2,4-Trimethylpentane  
Concen: 0.105 ppbv m  
RT: 4.661 min Scan# 1406  
Delta R.T. 0.022 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Instrument : MSVOA\_L  
ClientSampleId : C0AB9

Tgt Ion: 57 Resp: 3240  
Ion Ratio Lower Upper  
57 100  
41 58.0 30.7 46.1#  
56 47.8 25.4 38.0#

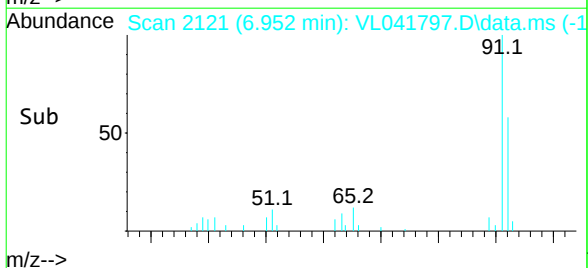
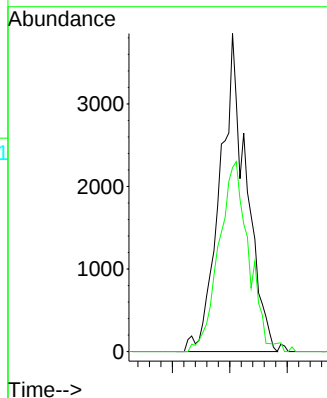
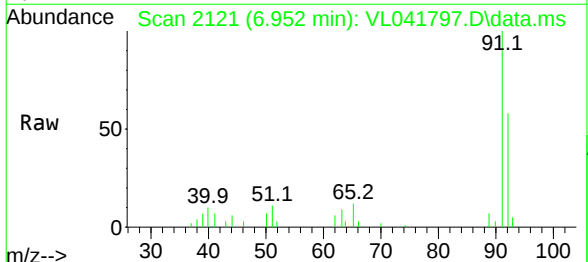
Manual Integrations  
APPROVED

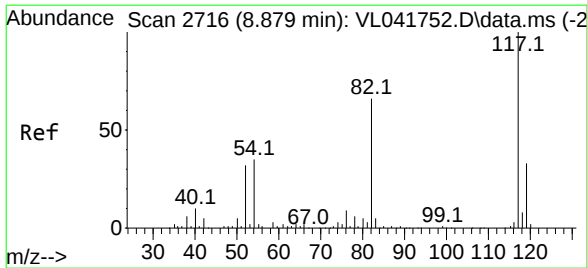
Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024



#53  
Toluene  
Concen: 0.302 ppbv m  
RT: 6.952 min Scan# 2121  
Delta R.T. 0.022 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

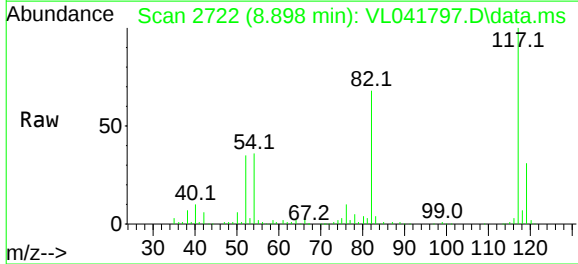
Tgt Ion: 91 Resp: 6176  
Ion Ratio Lower Upper  
91 100  
92 0.0 47.9 71.9#





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.898 min Scan# 2716  
Delta R.T. 0.019 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

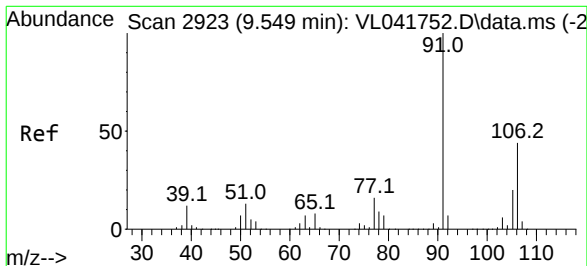
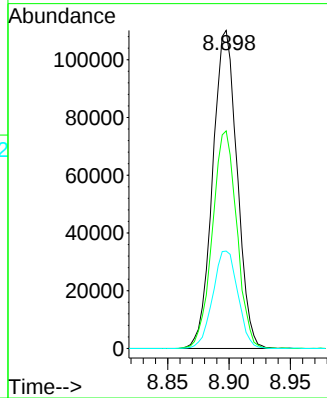
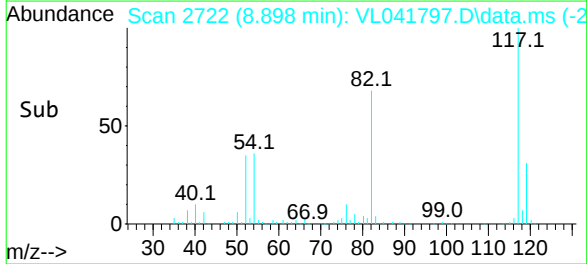
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0AB9



Tgt Ion: 117 Resp: 152989  
Ion Ratio Lower Upper  
117 100  
82 68.3 53.8 80.8  
119 31.4 26.7 40.1

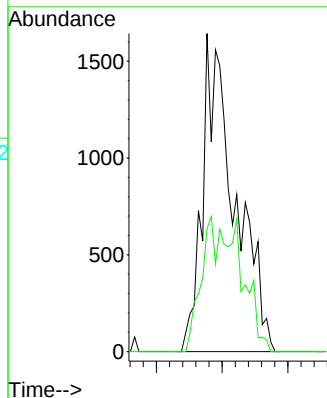
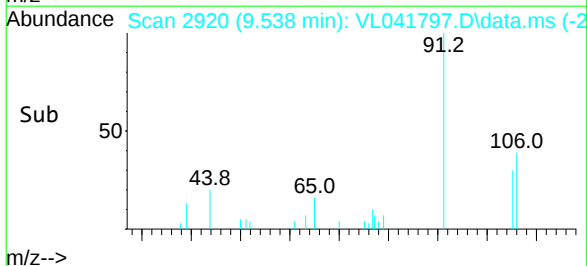
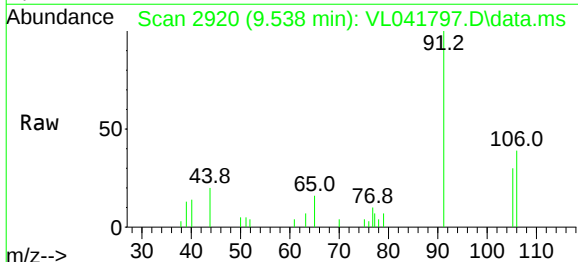
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 12/19/2024  
Supervised By :Mahesh Dadoda 12/19/2024

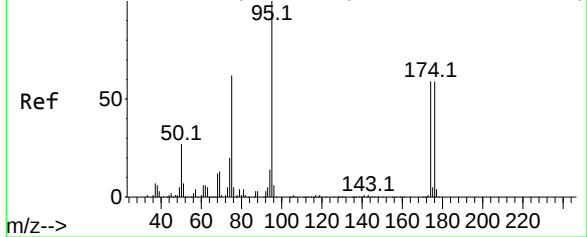


#59  
m/p-Xylene  
Concen: 0.127 ppbv m  
RT: 9.538 min Scan# 2920  
Delta R.T. -0.010 min  
Lab File: VL041797.D  
Acq: 18 Dec 2024 17:10

Tgt Ion: 91 Resp: 2804  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0



Abundance Scan 3178 (10.374 min): VL041752.D\data.ms (-



#68

1-Bromo-4-Fluorobenzene

Concen: 10.215 ppbv

RT: 10.390 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA\_L

ClientSampleId :

C0AB9

Tgt Ion: 95 Resp: 130229

Ion Ratio Lower Upper

95 100

174 57.1 47.6 71.4

175 4.7 3.7 5.5

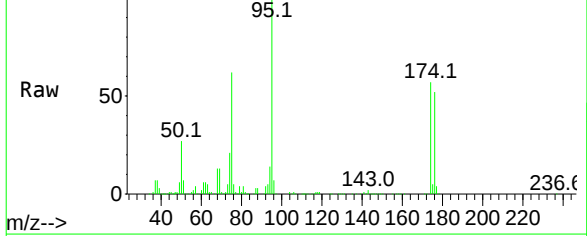
Manual Integrations

APPROVED

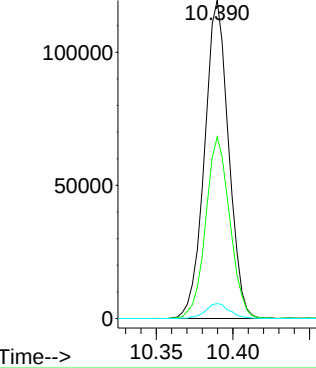
Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024

Abundance Scan 3183 (10.390 min): VL041797.D\data.ms (-



Abundance



Abundance Scan 3183 (10.390 min): VL041797.D\data.ms (-

