

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121624\  
 Data File : VL041753.D  
 Acq On : 16 Dec 2024 14:03  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Dec 19 06:12:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121624AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Thu Dec 19 06:09:59 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024  
 Supervised By : Mahesh Dadoda 12/20/2024

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 67443    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 182992   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 163971   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 138312   | 10.122   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.200% |

| Target Compounds              | Qvalue |     |       |       |        |     |
|-------------------------------|--------|-----|-------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 24819 | 2.068 | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 22299 | 2.027 | ppbv   | 96  |
| 4) Chloromethane              | 1.531  | 50  | 9926  | 2.114 | ppbv   | 99  |
| 5) Vinyl Chloride             | 1.580  | 62  | 9300  | 1.966 | ppbv   | 99  |
| 6) Bromomethane               | 1.667  | 94  | 4625  | 2.072 | ppbv   | 99  |
| 7) Chloroethane               | 1.706  | 64  | 4003  | 2.178 | ppbv # | 85  |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85  | 21791 | 2.029 | ppbv   | 100 |
| 9) Propene                    | 1.483  | 41  | 10115 | 2.122 | ppbv   | 97  |
| 10) Heptane                   | 4.978  | 43  | 25297 | 2.066 | ppbv   | 100 |
| 11) Trichlorofluoromethane    | 1.878  | 101 | 26208 | 2.056 | ppbv   | 96  |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101 | 19770 | 2.039 | ppbv   | 99  |
| 13) Ethanol                   | 1.722  | 45  | 792   | 1.998 | ppbv # | 49  |
| 14) Bromoethene               | 1.784  | 108 | 6527  | 1.994 | ppbv # | 90  |
| 15) Acetone                   | 1.835  | 43  | 27613 | 2.104 | ppbv   | 99  |
| 16) 1,3-Butadiene             | 1.609  | 39  | 10478 | 2.028 | ppbv   | 96  |
| 17) tert-Butyl alcohol        | 2.043  | 59  | 26646 | 2.047 | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 2.033  | 96  | 8389  | 2.064 | ppbv   | 92  |
| 19) Isopropyl Alcohol         | 1.887  | 45  | 14937 | 1.897 | ppbv   | 93  |
| 20) Methylene Chloride        | 2.062  | 84  | 7586  | 2.027 | ppbv   | 94  |
| 21) Allyl Chloride            | 2.094  | 41  | 14731 | 2.070 | ppbv   | 99  |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96  | 9407  | 2.022 | ppbv   | 94  |
| 23) Vinyl Acetate             | 2.463  | 43  | 17652 | 3.096 | ppbv # | 95  |
| 24) 1,1-Dichloroethane        | 2.408  | 63  | 19070 | 2.025 | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.836  | 43  | 50510 | 2.059 | ppbv   | 99  |
| 26) Hexane                    | 2.826  | 57  | 19200 | 2.073 | ppbv   | 98  |
| 27) Carbon Disulfide          | 2.153  | 76  | 16214 | 1.942 | ppbv # | 34  |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73  | 15039 | 2.001 | ppbv   | 98  |
| 29) Chloroform                | 2.849  | 83  | 28843 | 2.043 | ppbv   | 98  |
| 30) Cyclohexane               | 3.858  | 84  | 16384 | 2.079 | ppbv   | 99  |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61  | 19688 | 2.057 | ppbv   | 96  |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97  | 28341 | 2.017 | ppbv   | 98  |
| 34) 2-Butanone                | 2.557  | 43  | 31483 | 2.138 | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.765  | 117 | 27727 | 2.134 | ppbv   | 98  |
| 36) Benzene                   | 3.658  | 78  | 38759 | 2.048 | ppbv   | 94  |
| 37) 1,2-Dichloroethane        | 3.221  | 62  | 23800 | 2.021 | ppbv   | 98  |
| 38) Trichloroethene           | 4.548  | 130 | 15660 | 1.965 | ppbv   | 94  |
| 39) 1,2-Dichloropropane       | 4.315  | 63  | 14197 | 2.074 | ppbv   | 94  |
| 40) 1,4-Dioxane               | 4.603  | 88  | 6826m | 2.041 | ppbv   |     |
| 41) Tetrahydrofuran           | 3.059  | 42  | 16665 | 2.021 | ppbv   | 96  |
| 42) Bromodichloromethane      | 4.489  | 83  | 26716 | 1.972 | ppbv   | 98  |
| 43) Methyl Methacrylate       | 4.884  | 69  | 14849 | 2.059 | ppbv   | 100 |
| 44) 2,2,4-Trimethylpentane    | 4.642  | 57  | 67432 | 2.086 | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 6.415  | 75  | 14885 | 1.995 | ppbv   | 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121624\  
 Data File : VL041753.D  
 Acq On : 16 Dec 2024 14:03  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:12:42 2024

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

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LFri Aug 2

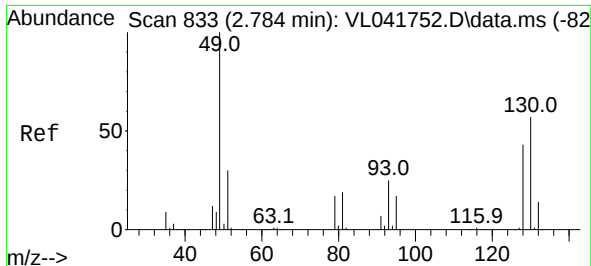
QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 19105m   | 2.017 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 14858    | 2.078 | ppbv   | 89       |
| 48) Dibromochloromethane      | 7.390  | 129  | 19764    | 2.024 | ppbv   | 98       |
| 49) Bromoform                 | 9.484  | 173  | 16200    | 2.027 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 42045    | 2.098 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.441  | 43   | 34878    | 2.147 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.225  | 164  | 13612    | 1.932 | ppbv   | 93       |
| 53) Toluene                   | 6.933  | 91   | 44470    | 2.072 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 19820    | 2.012 | ppbv   | 91       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 18613    | 2.141 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.920  | 112  | 35685    | 2.127 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.354  | 91   | 63316    | 2.145 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.535  | 91   | 99821m   | 4.204 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 51152    | 2.149 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 20842    | 2.025 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.539 | 105  | 75206    | 2.103 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 29751    | 1.997 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 19146    | 2.117 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 68879    | 2.135 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.617 | 91   | 5400     | 1.898 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 95968    | 2.149 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 79236    | 2.153 | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 75430    | 2.122 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 57724    | 2.114 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 58841    | 2.098 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 48645    | 2.087 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 53084    | 2.118 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 32609    | 2.040 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 32527    | 2.060 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 32223    | 2.095 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 25358    | 2.224 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 37855    | 2.167 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 4482     | 0.830 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 19425    | 2.035 | ppbv   | 99       |

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





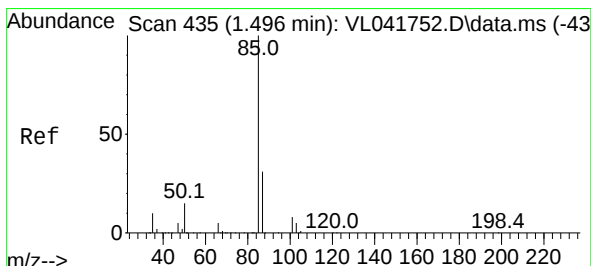
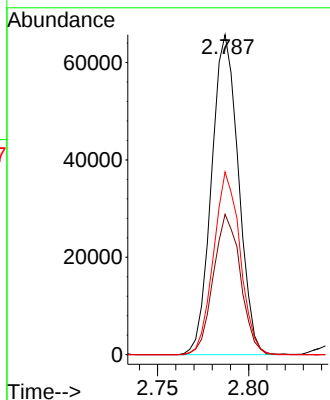
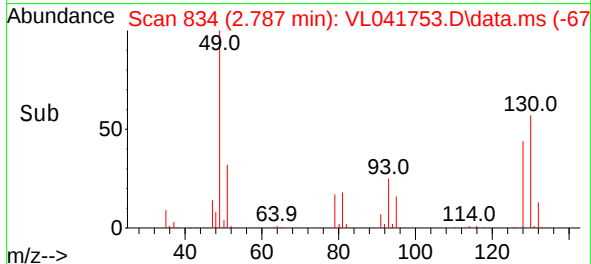
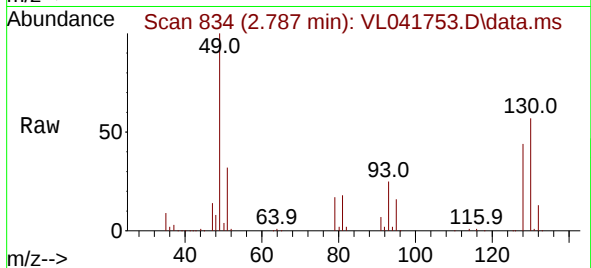
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 49 Resp: 6744  
Ion Ratio Lower Upper  
49 100  
128 44.1 21.6 64.6  
130 56.3 28.3 85.0

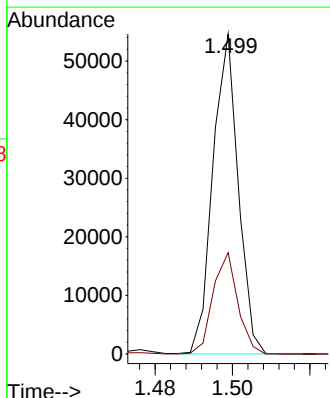
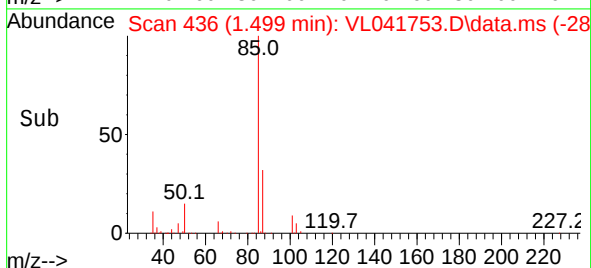
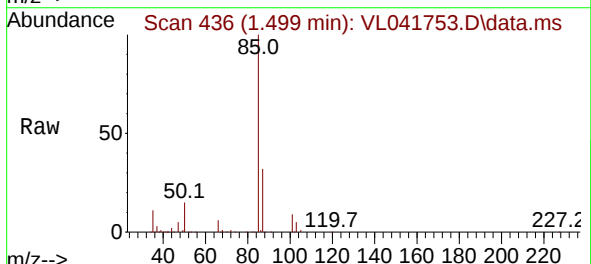
Manual Integrations  
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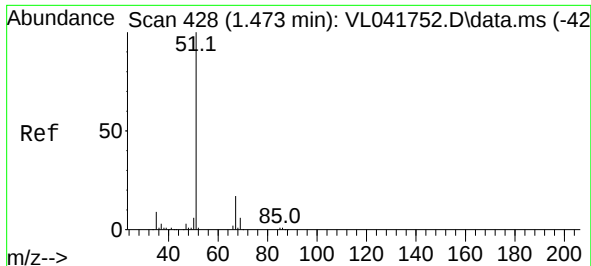
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#2  
Dichlorodifluoromethane  
Concen: 2.068 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

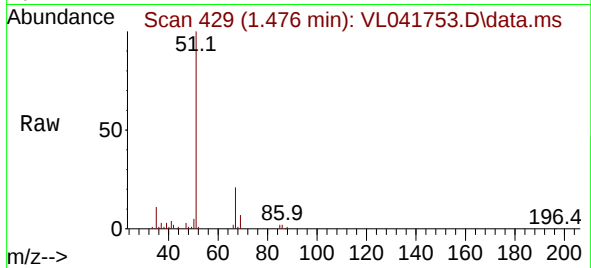
Tgt Ion: 85 Resp: 24819  
Ion Ratio Lower Upper  
85 100  
87 31.6 24.5 36.7





#3  
Chlorodifluoromethane  
Concen: 2.027 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

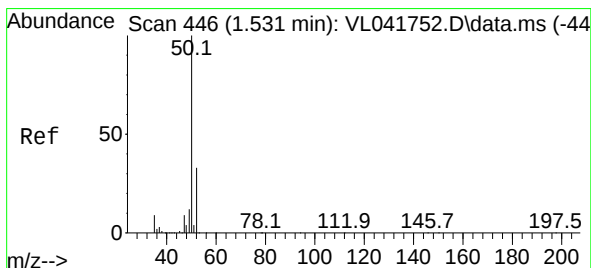
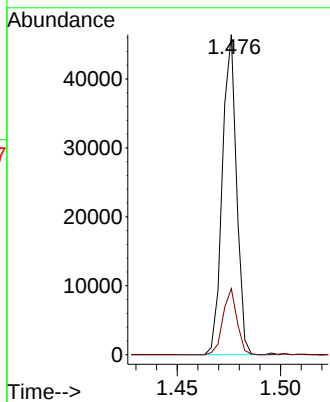
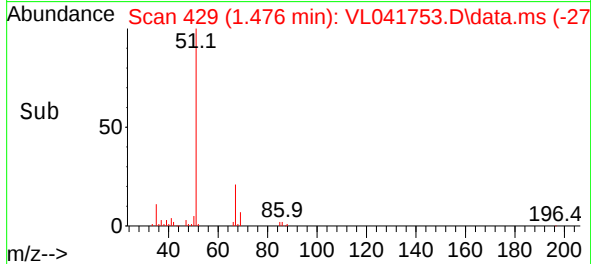
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 51 Resp: 22299  
Ion Ratio Lower Upper  
51 100  
67 20.5 15.0 22.4

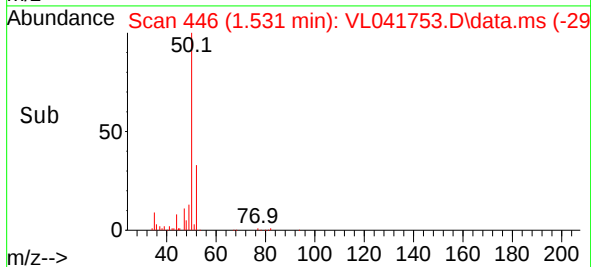
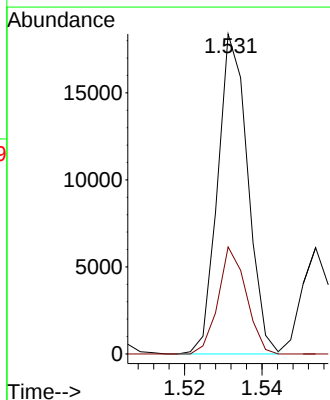
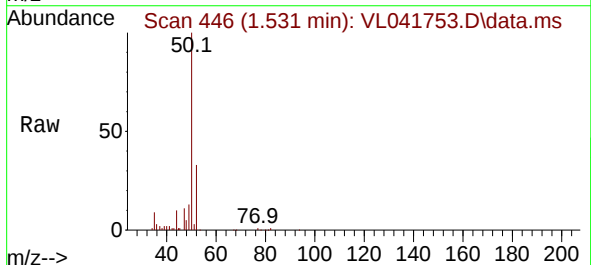
Manual Integrations  
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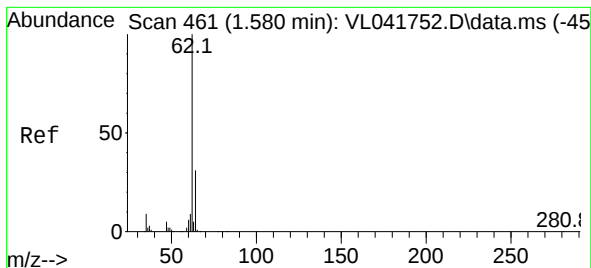
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#4  
Chloromethane  
Concen: 2.114 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion: 50 Resp: 9926  
Ion Ratio Lower Upper  
50 100  
52 33.5 26.2 39.2





#5

Vinyl Chloride

Concen: 1.966 ppbv

RT: 1.580 min Scan# 461

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 62 Resp: 9300

Ion Ratio Lower Upper

62 100

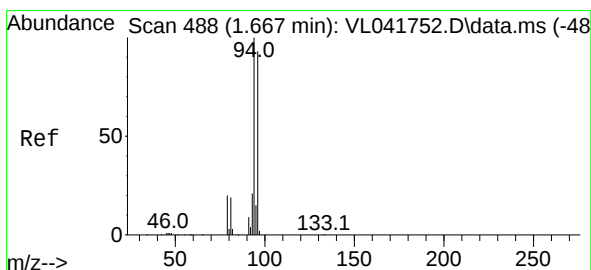
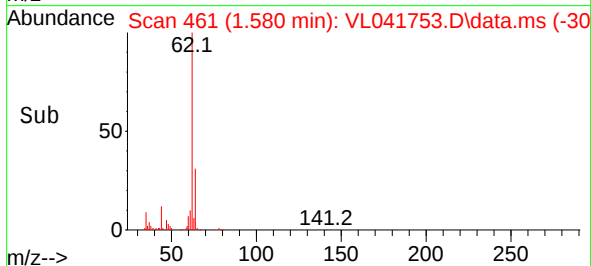
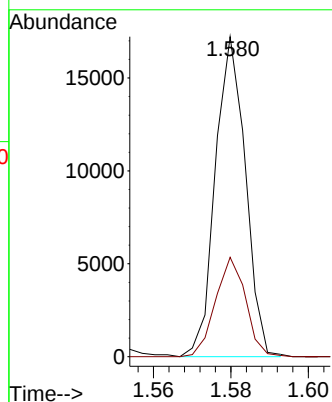
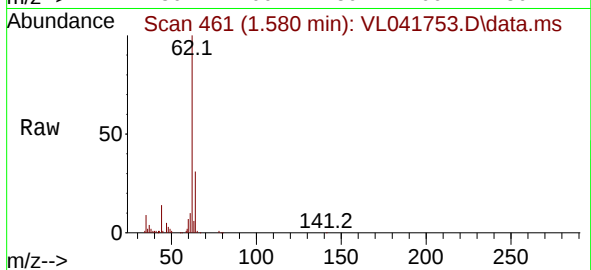
64 31.1 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#6

Bromomethane

Concen: 2.072 ppbv

RT: 1.667 min Scan# 488

Delta R.T. -0.000 min

Lab File: VL041753.D

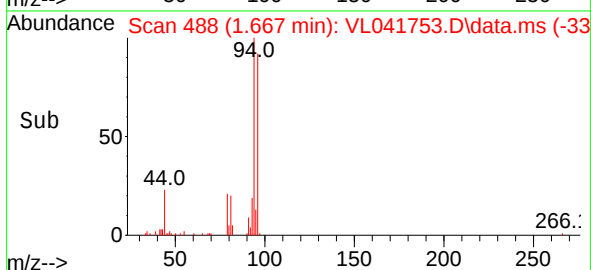
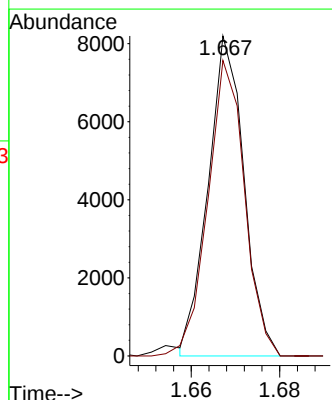
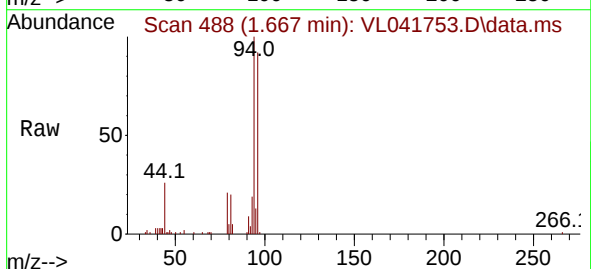
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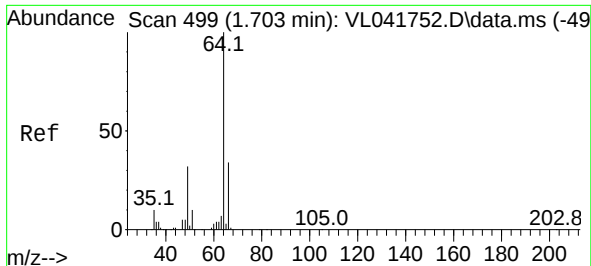
Tgt Ion: 94 Resp: 4625

Ion Ratio Lower Upper

94 100

96 92.4 74.7 112.1





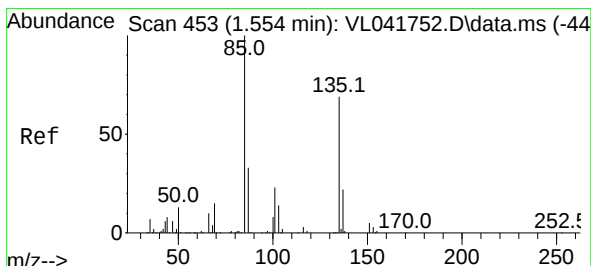
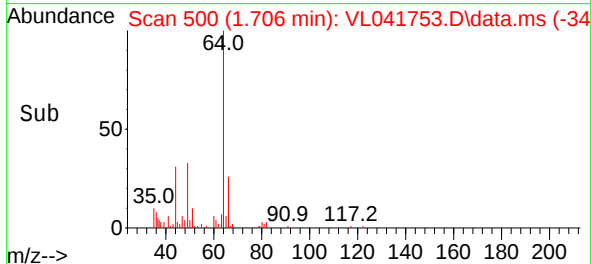
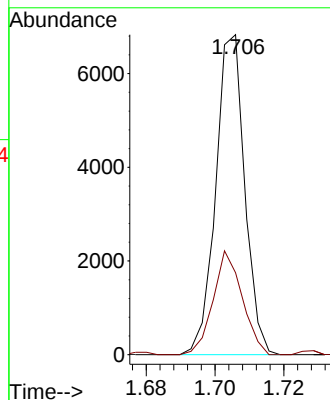
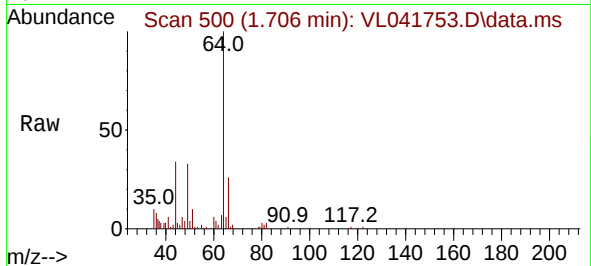
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Chloroethane  
Concen: 2.178 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 64 Resp: 4000  
Ion Ratio Lower Upper  
64 100  
66 25.6 27.5 41.3

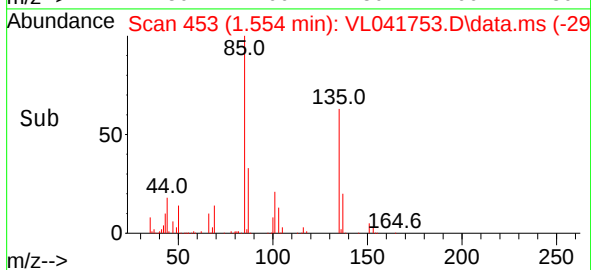
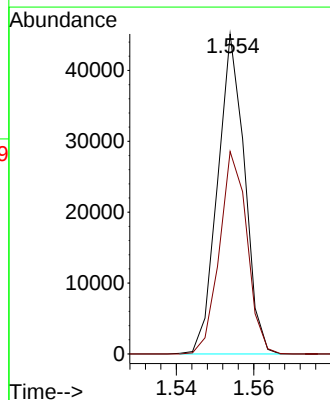
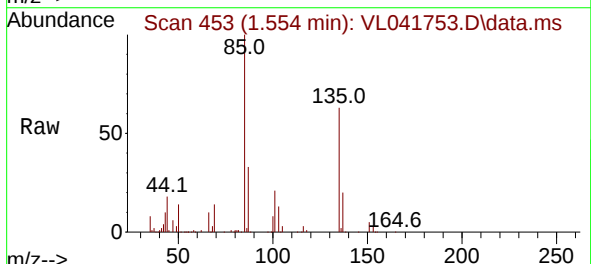
Manual Integrations  
APPROVED

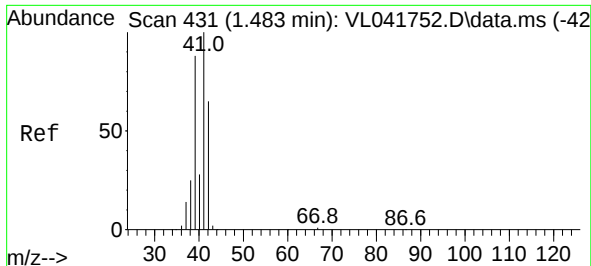
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#8  
Dichlorotetrafluoroethane  
Concen: 2.029 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion: 85 Resp: 21791  
Ion Ratio Lower Upper  
85 100  
135 64.8 51.9 77.9





#9

Propene

Concen: 2.122 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1011

Ion Ratio Lower Upper

41 100

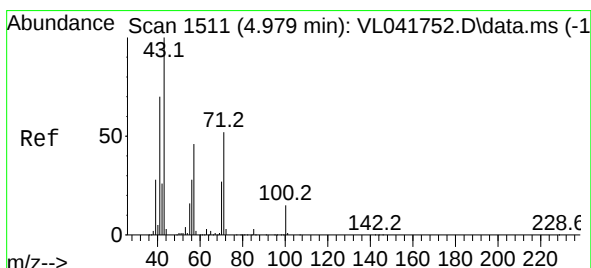
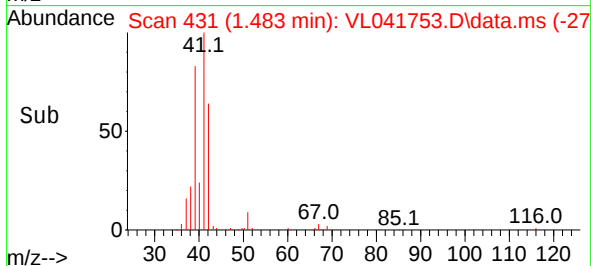
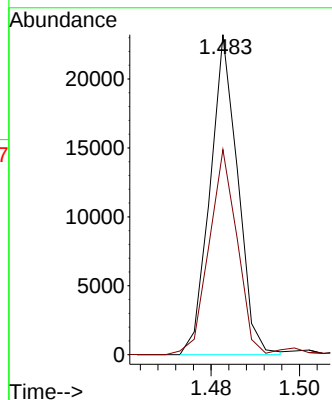
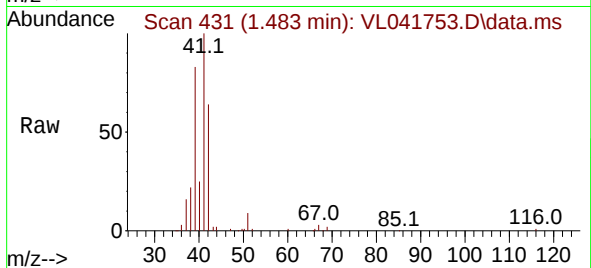
42 67.9 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#10

Heptane

Concen: 2.066 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL041753.D

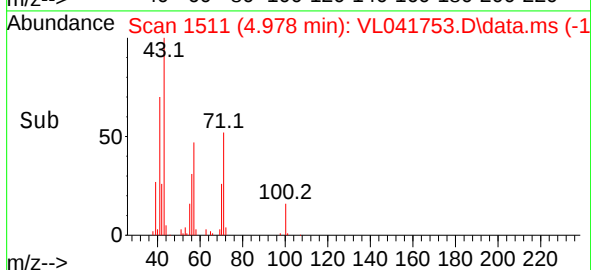
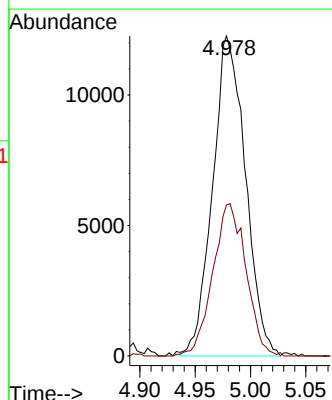
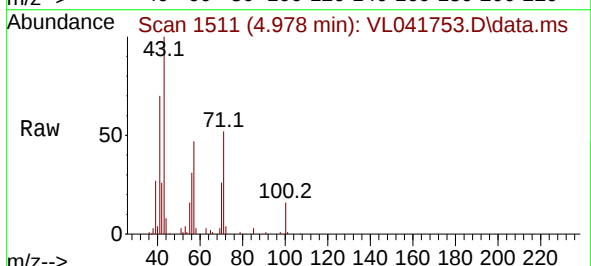
Acq: 16 Dec 2024 14:03

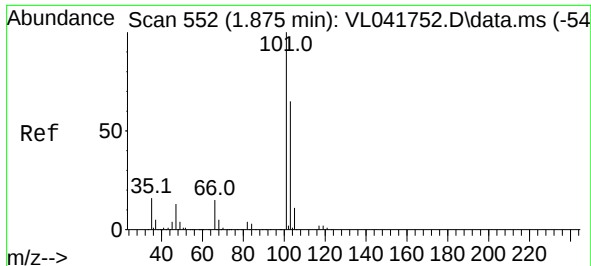
Tgt Ion: 43 Resp: 25297

Ion Ratio Lower Upper

43 100

57 48.1 38.5 57.7





#11

Trichlorofluoromethane

Concen: 2.056 ppbv

RT: 1.878 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:101 Resp: 26208

Ion Ratio Lower Upper

101 100

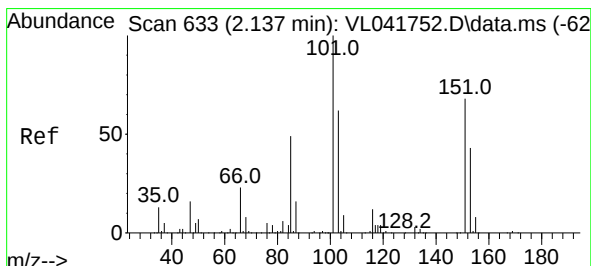
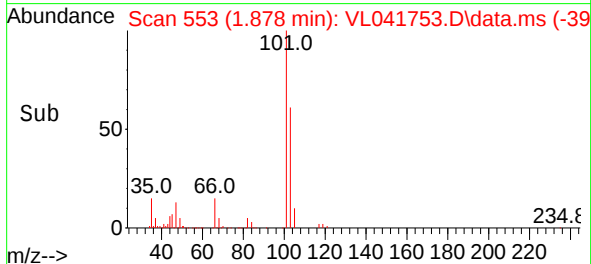
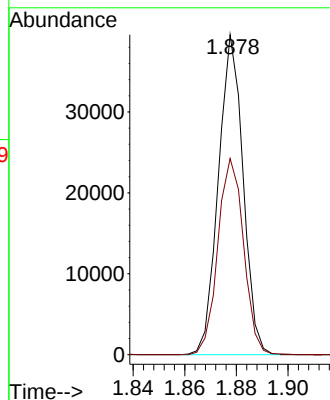
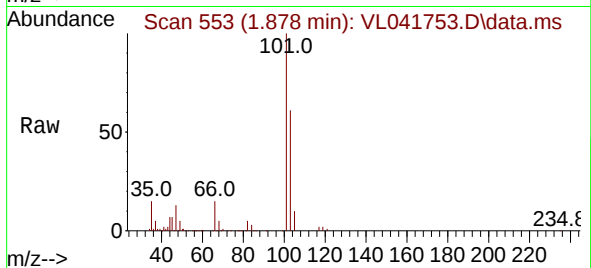
103 61.3 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.039 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL041753.D

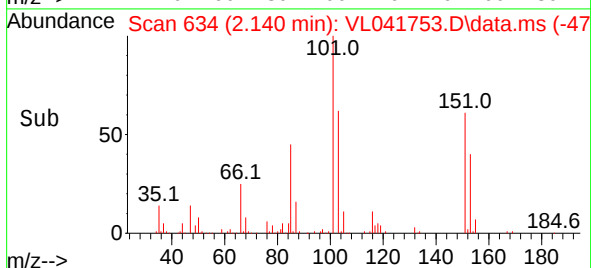
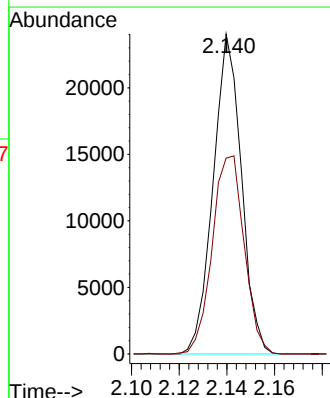
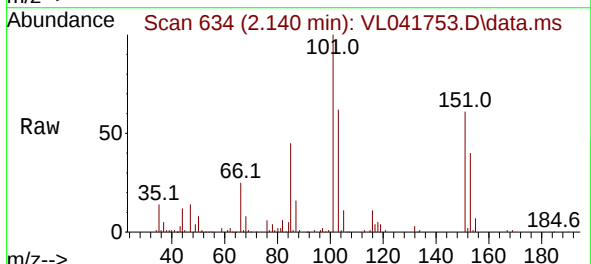
Acq: 16 Dec 2024 14:03

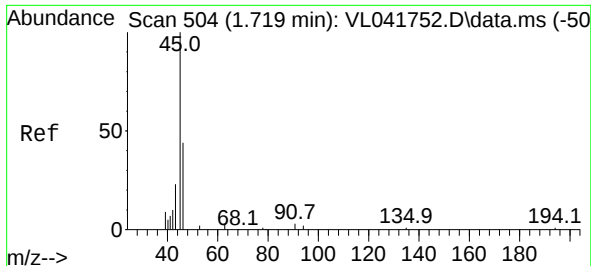
Tgt Ion:101 Resp: 19770

Ion Ratio Lower Upper

101 100

151 70.2 56.8 85.2





#13

Ethanol

Concen: 1.998 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

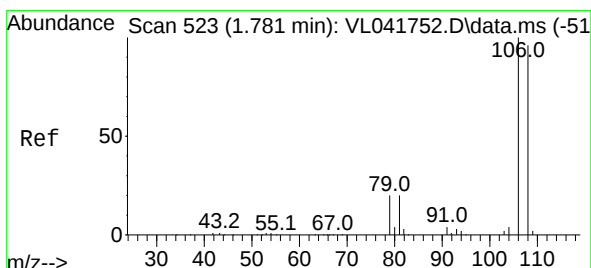
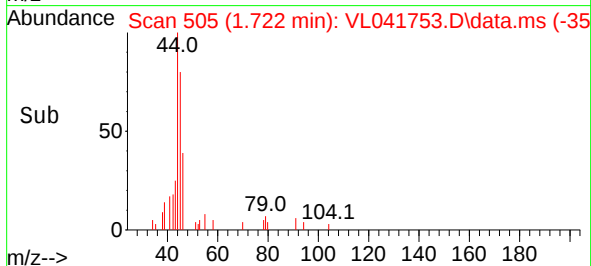
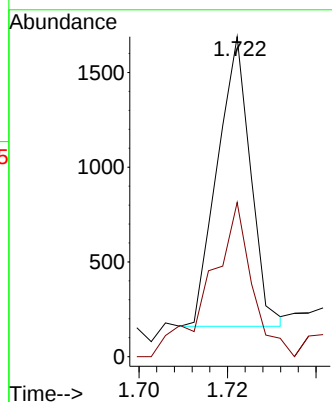
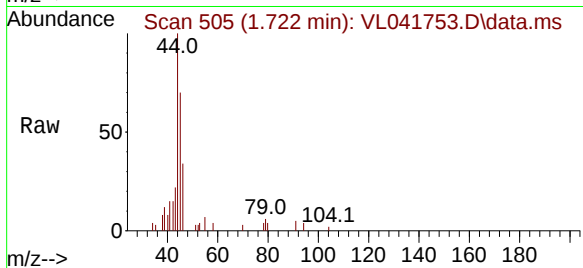
VSTDICC002

Tgt Ion: 45 Resp: 792  
 Ion Ratio Lower Upper  
 45 100  
 46 72.9 16.4 65.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
 Supervised By :Mahesh Dadoda 12/20/2024



#14

Bromoethene

Concen: 1.994 ppbv

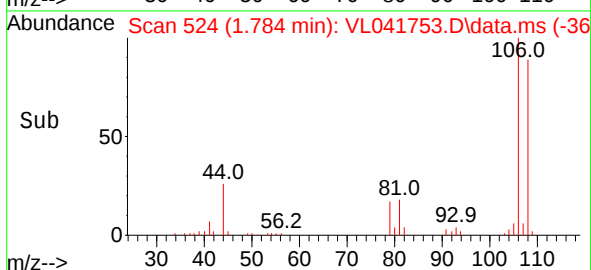
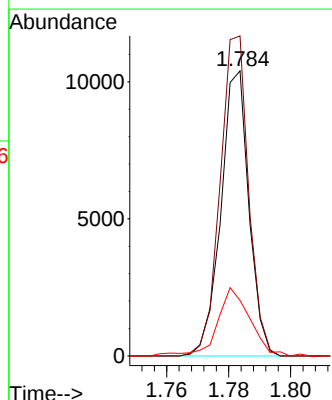
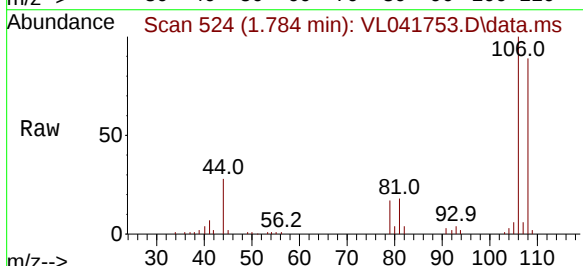
RT: 1.784 min Scan# 524

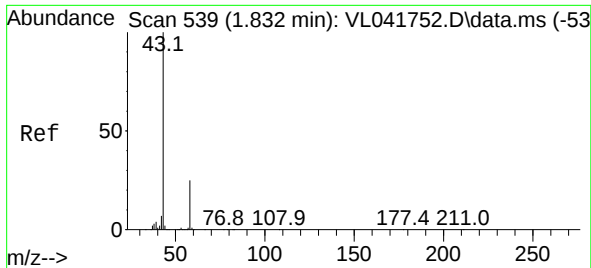
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:108 Resp: 6527  
 Ion Ratio Lower Upper  
 108 100  
 106 114.2 84.1 126.1  
 79 28.0 17.4 26.0





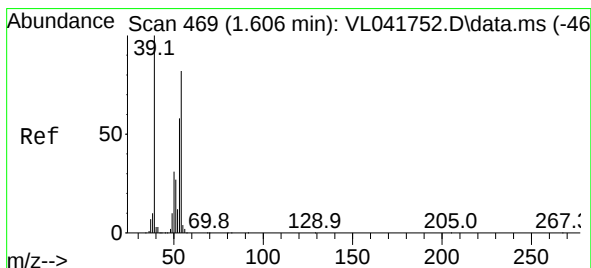
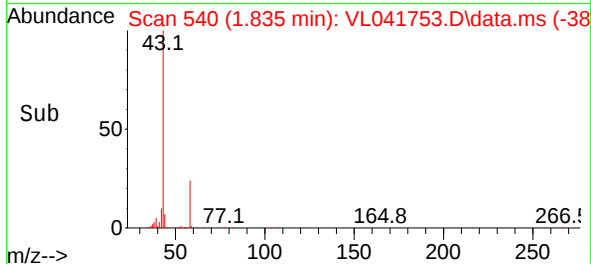
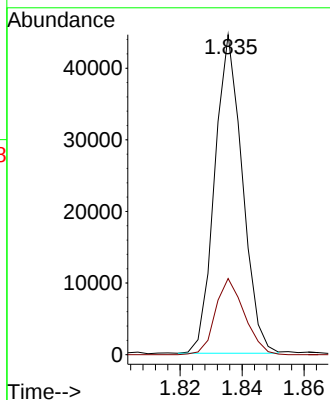
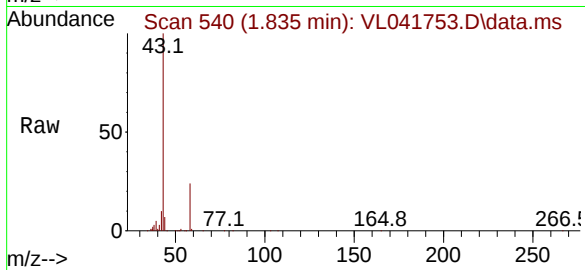
#15  
Acetone  
Concen: 2.104 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 2761  
Ion Ratio Lower Upper  
43 100  
58 25.0 19.7 29.5

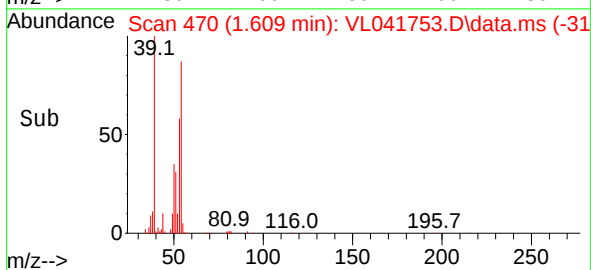
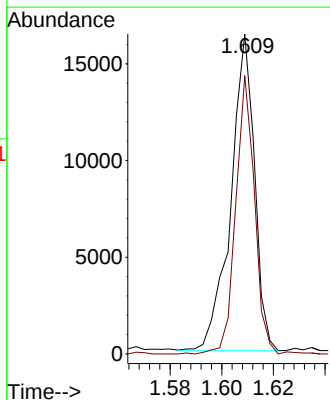
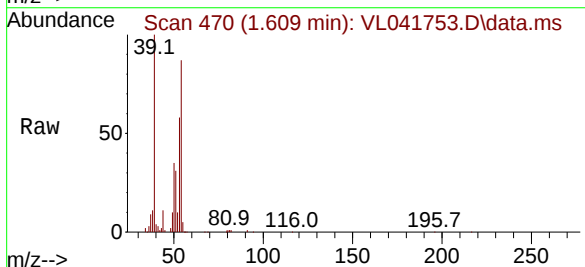
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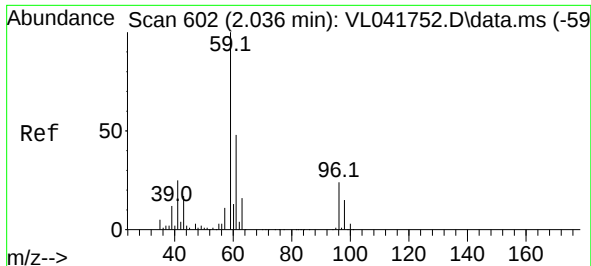
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#16  
1,3-Butadiene  
Concen: 2.028 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion: 39 Resp: 10478  
Ion Ratio Lower Upper  
39 100  
54 70.0 58.4 87.6





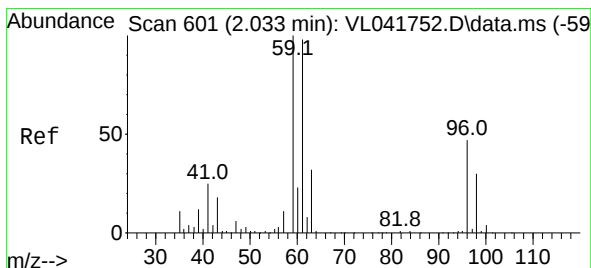
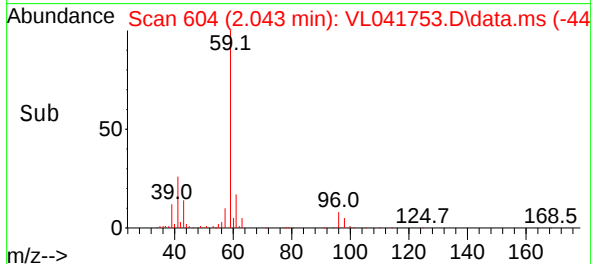
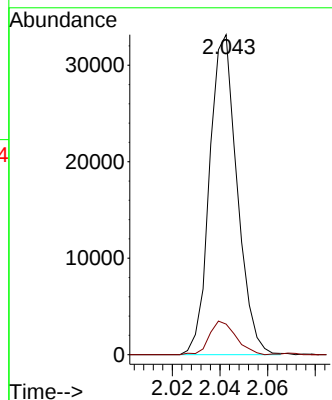
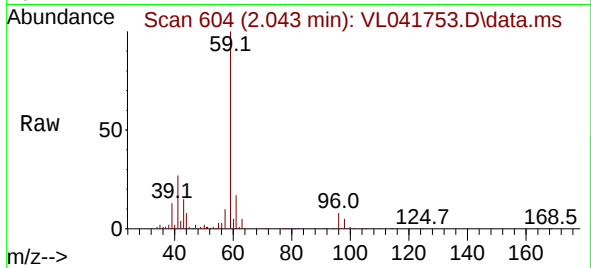
#17  
tert-Butyl alcohol  
Concen: 2.047 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 59 Resp: 26640  
Ion Ratio Lower Upper  
59 100  
57 10.4 8.6 13.0

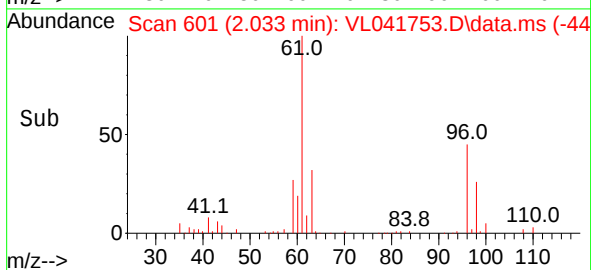
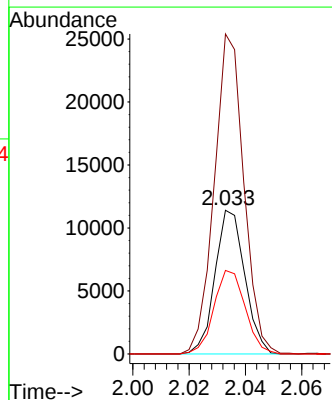
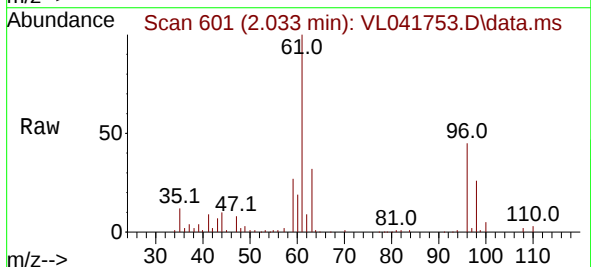
Manual Integrations  
APPROVED

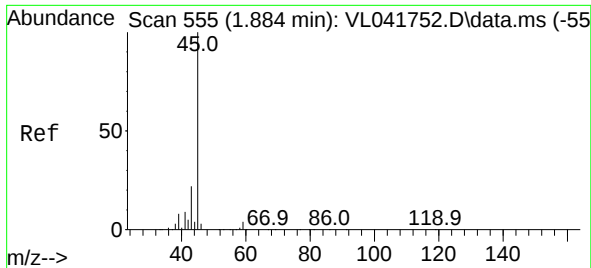
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#18  
1,1-Dichloroethene  
Concen: 2.064 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion: 96 Resp: 8389  
Ion Ratio Lower Upper  
96 100  
61 222.7 167.7 251.5  
98 58.2 51.1 76.7





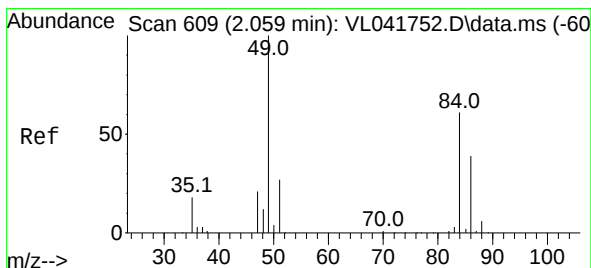
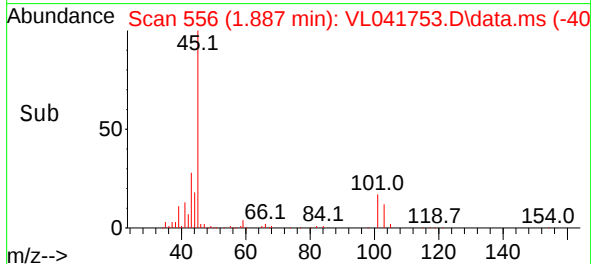
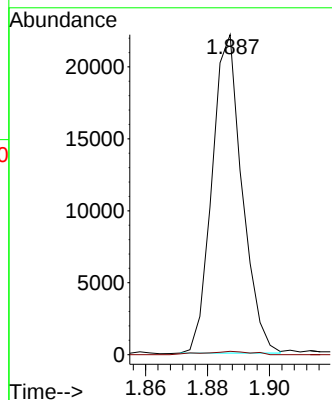
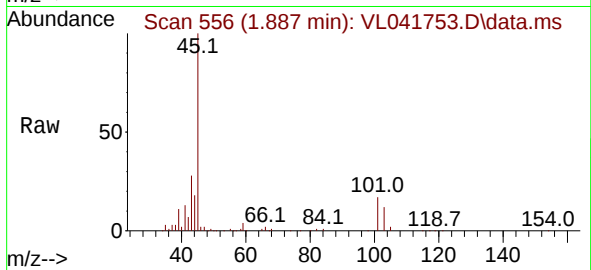
#19  
Isopropyl Alcohol  
Concen: 1.897 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 45 Resp: 1493  
Ion Ratio Lower Upper  
45 100  
58 46.2 33.3 49.9

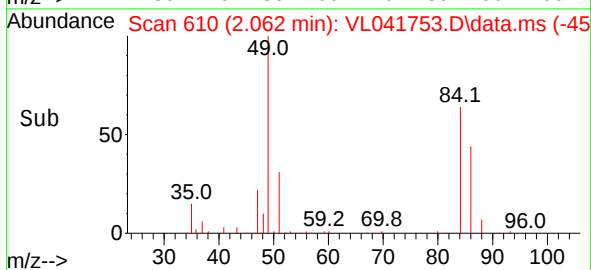
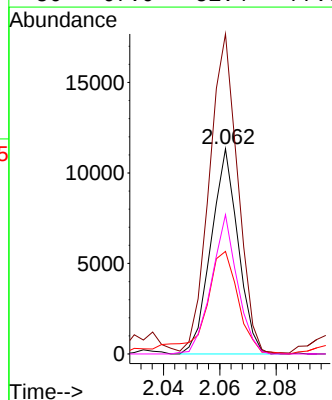
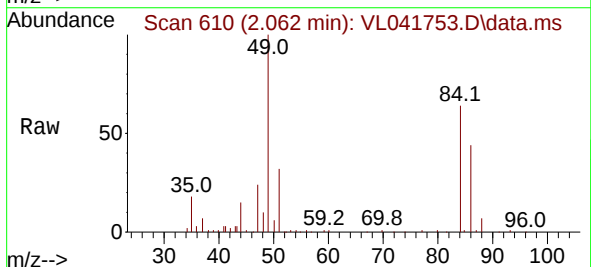
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#20  
Methylene Chloride  
Concen: 2.027 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

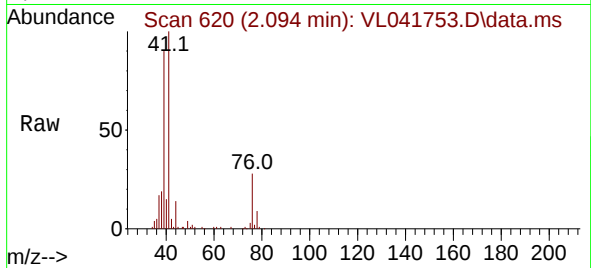
Tgt Ion: 84 Resp: 7586  
Ion Ratio Lower Upper  
84 100  
49 155.5 132.6 198.8  
51 49.5 37.6 56.4  
86 67.9 51.4 77.0





#21  
Allyl Chloride  
Concen: 2.070 ppbv  
RT: 2.094 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

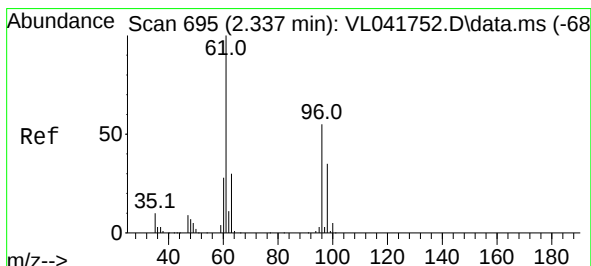
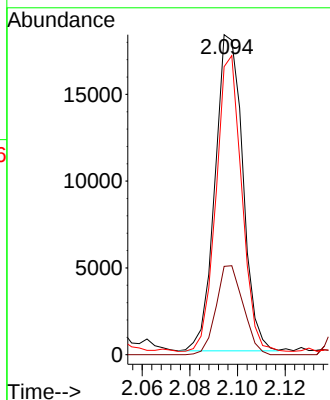
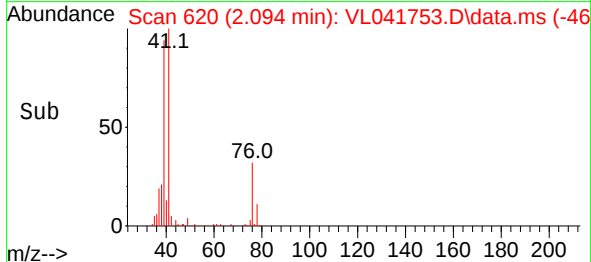
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 41 Resp: 1473  
Ion Ratio Lower Upper  
41 100  
76 27.4 22.3 33.5  
39 85.3 69.2 103.8

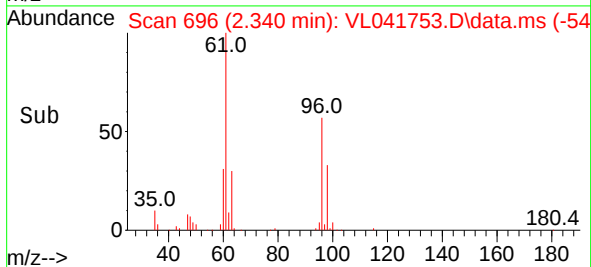
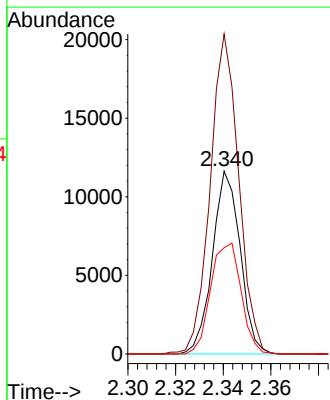
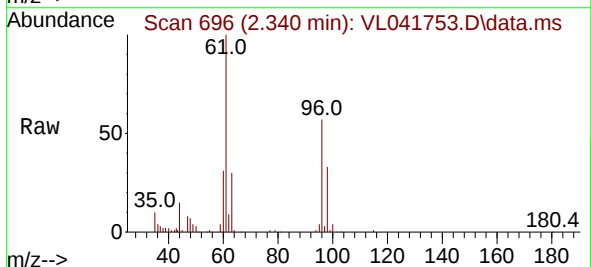
Manual Integrations  
APPROVED

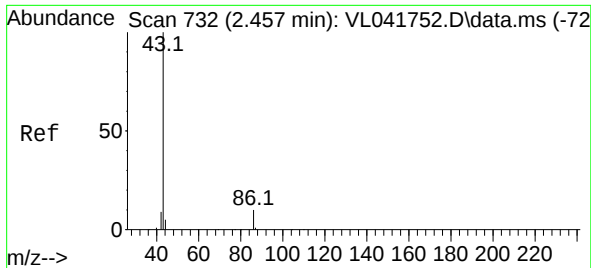
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#22  
trans-1,2-Dichloroethene  
Concen: 2.022 ppbv  
RT: 2.340 min Scan# 696  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

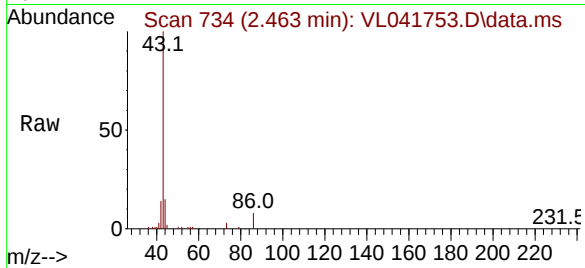
Tgt Ion: 96 Resp: 9407  
Ion Ratio Lower Upper  
96 100  
61 175.1 146.3 219.5  
98 58.2 50.8 76.2





#23  
 Vinyl Acetate  
 Concen: 3.096 ppbv  
 RT: 2.463 min Scan# 716  
 Delta R.T. 0.006 min  
 Lab File: VL041753.D  
 Acq: 16 Dec 2024 14:03

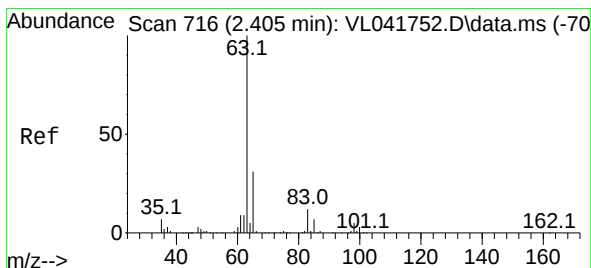
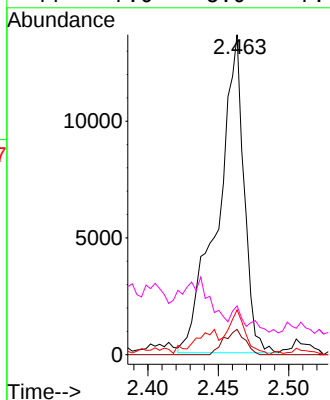
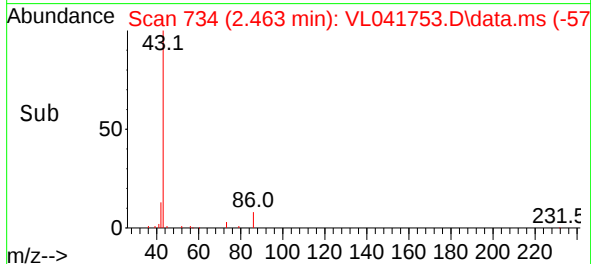
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002



Tgt Ion: 43 Resp: 17652  
 Ion Ratio Lower Upper  
 43 100  
 86 8.0 6.6 10.0  
 42 13.0 8.2 12.2  
 44 7.6 5.0 7.4

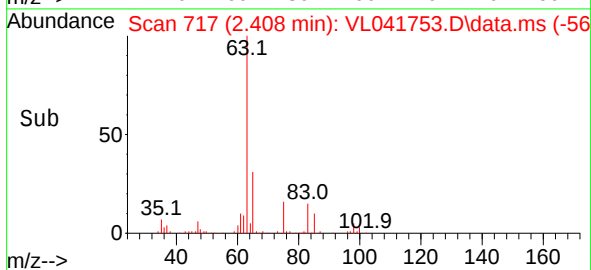
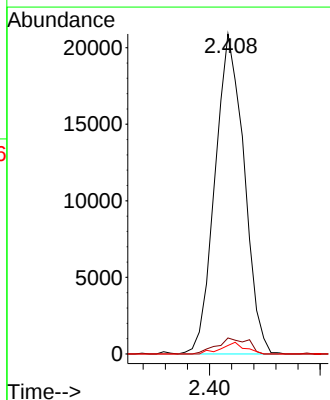
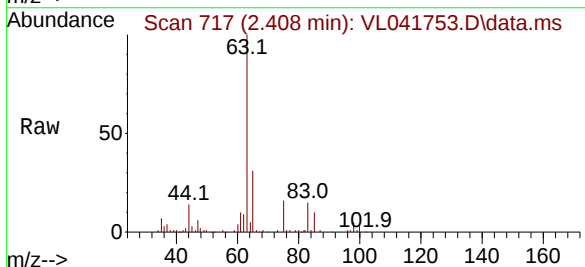
Manual Integrations  
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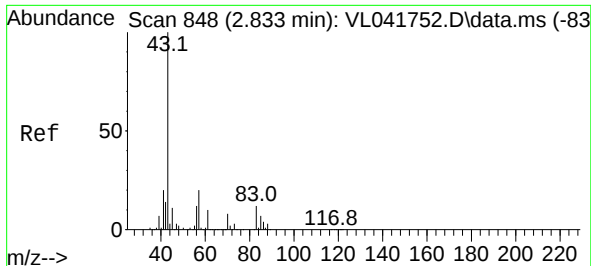
Reviewed By :Semsettin Yesilyurt 12/20/2024  
 Supervised By :Mahesh Dadoda 12/20/2024



#24  
 1,1-Dichloroethane  
 Concen: 2.025 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. 0.003 min  
 Lab File: VL041753.D  
 Acq: 16 Dec 2024 14:03

Tgt Ion: 63 Resp: 19070  
 Ion Ratio Lower Upper  
 63 100  
 98 5.0 2.3 6.8  
 100 2.7 1.4 4.2





#25

Ethyl Acetate

Concen: 2.059 ppbv

RT: 2.836 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 43 Resp: 50510

Ion Ratio Lower Upper

43 100

45 10.9 8.1 12.1

61 9.0 7.0 10.6

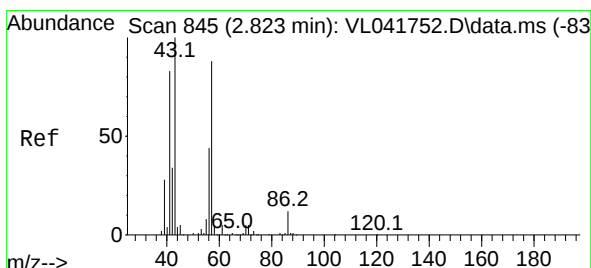
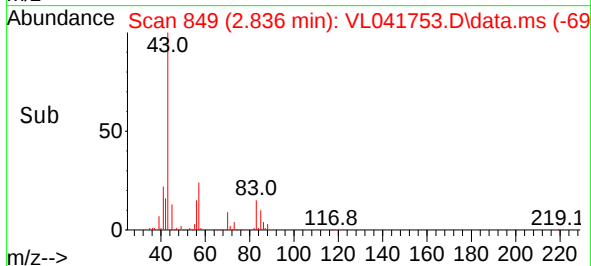
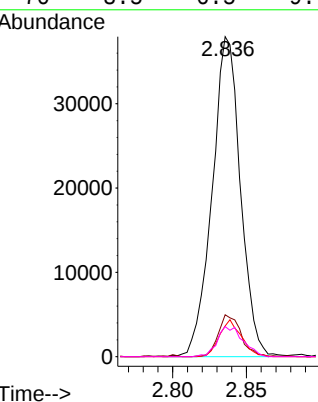
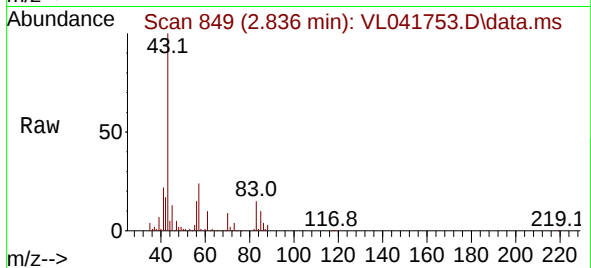
70 8.5 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#26

Hexane

Concen: 2.073 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 57 Resp: 19200

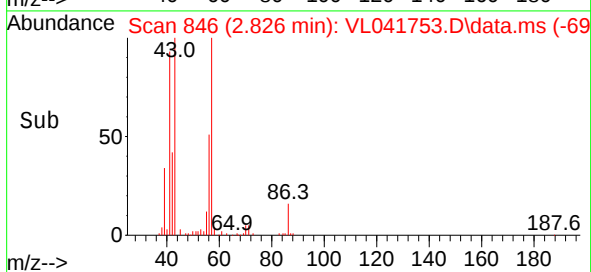
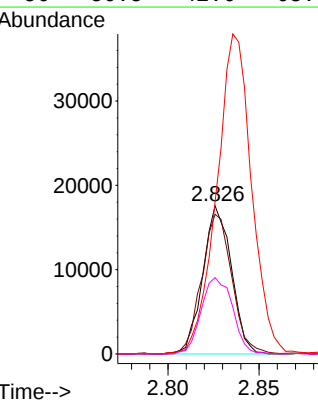
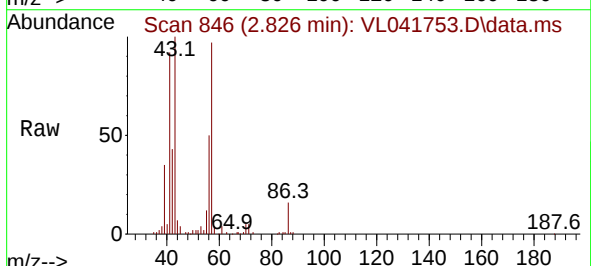
Ion Ratio Lower Upper

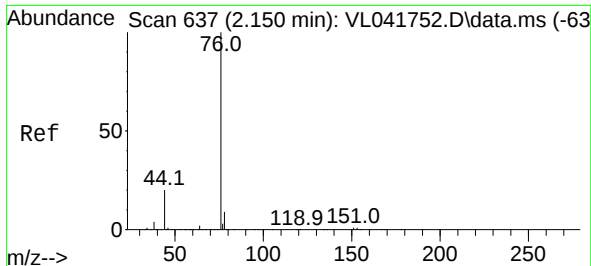
57 100

41 100.7 79.6 119.4

43 266.5 211.0 316.6

56 56.5 42.6 63.8





#27

Carbon Disulfide

Concen: 1.942 ppbv

RT: 2.153 min Scan# 637

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

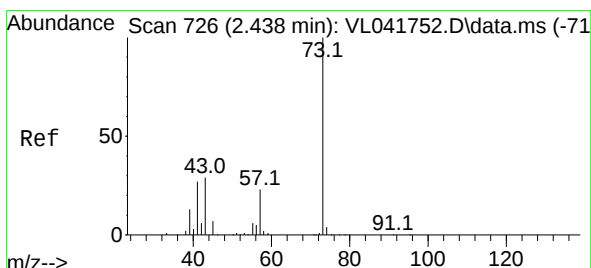
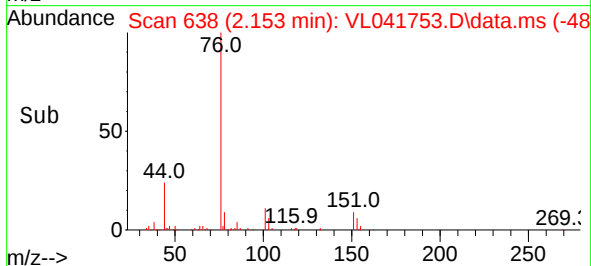
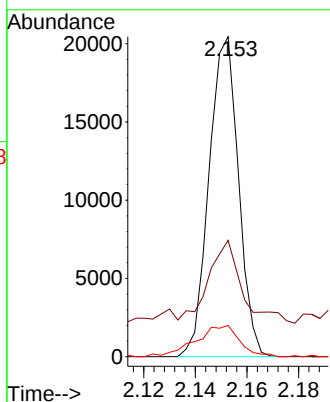
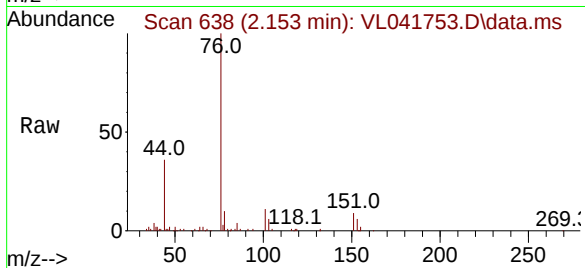
VSTDICC002

|             |                |
|-------------|----------------|
| Tgt Ion: 76 | Resp: 16214    |
| Ion Ratio   | Lower Upper    |
| 76          | 100            |
| 44          | 70.4 17.6 26.4 |
| 78          | 14.6 10.2 15.4 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#28

Methyl tert-Butyl Ether

Concen: 2.001 ppbv

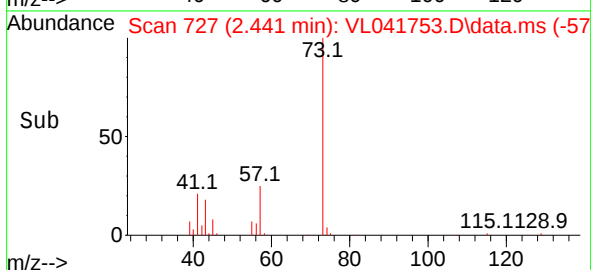
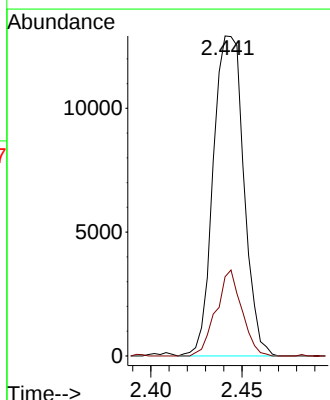
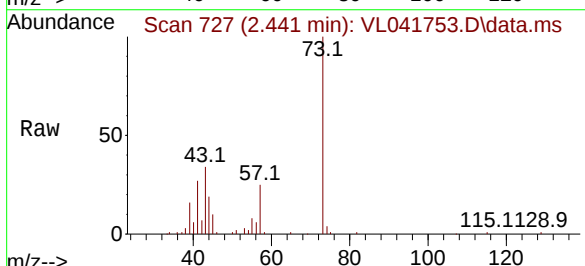
RT: 2.441 min Scan# 727

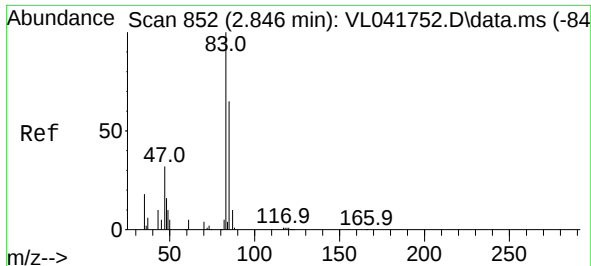
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

|             |                |
|-------------|----------------|
| Tgt Ion: 73 | Resp: 15039    |
| Ion Ratio   | Lower Upper    |
| 73          | 100            |
| 57          | 22.8 17.6 26.4 |





#29

Chloroform

Concen: 2.043 ppbv

RT: 2.849 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 2884

Ion Ratio Lower Upper

83 100

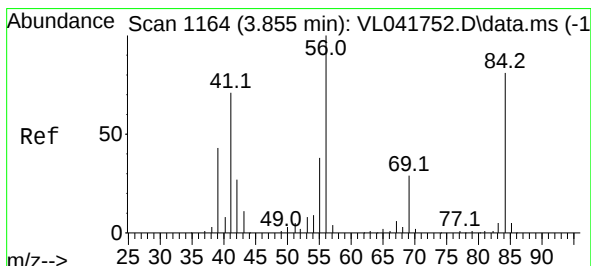
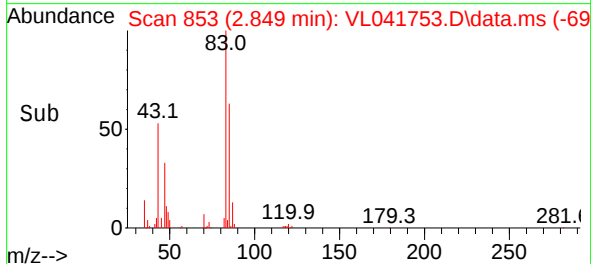
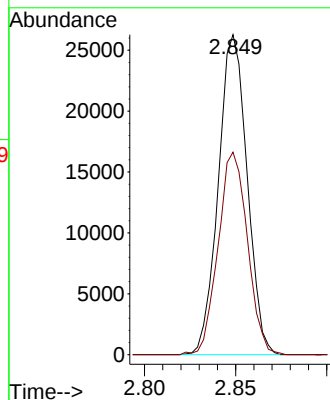
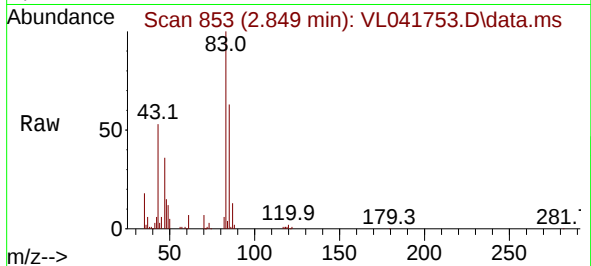
85 63.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 2.079 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

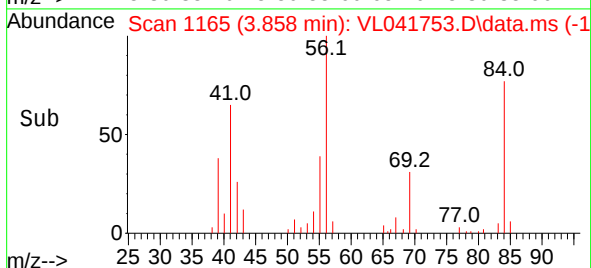
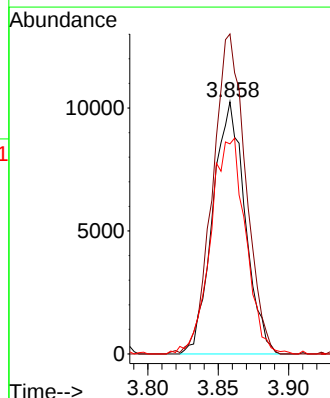
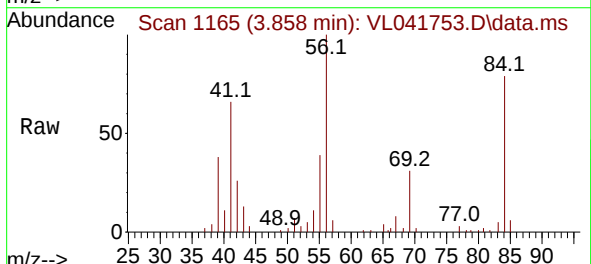
Tgt Ion: 84 Resp: 16384

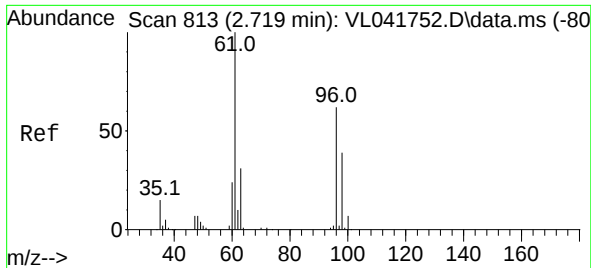
Ion Ratio Lower Upper

84 100

56 129.2 102.3 153.5

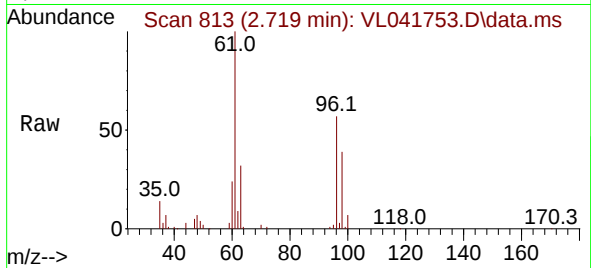
41 92.9 74.0 111.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 2.057 ppbv  
 RT: 2.719 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VL041753.D  
 Acq: 16 Dec 2024 14:03

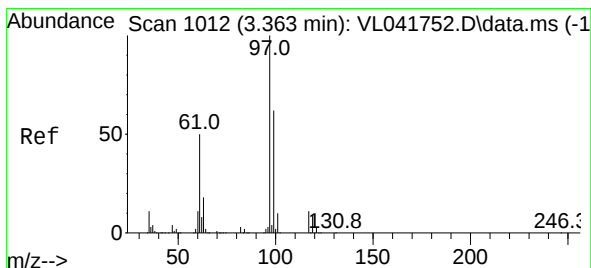
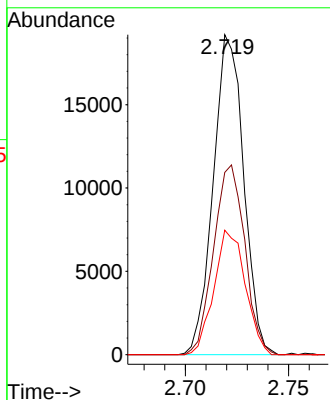
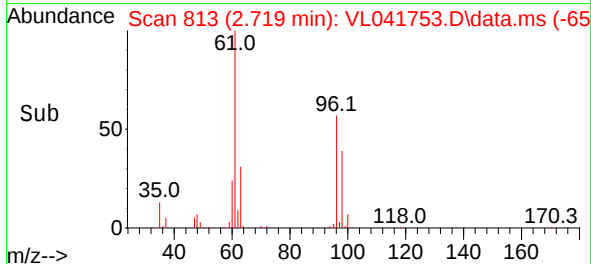
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



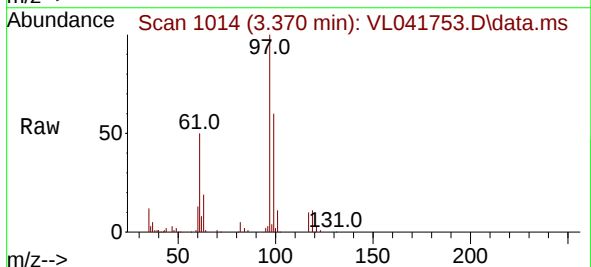
Tgt Ion: 61 Resp: 1968  
 Ion Ratio Lower Upper  
 61 100  
 96 56.9 49.7 74.5  
 98 38.9 30.8 46.2

Manual Integrations  
 APPROVED

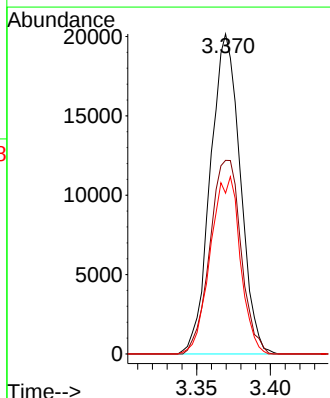
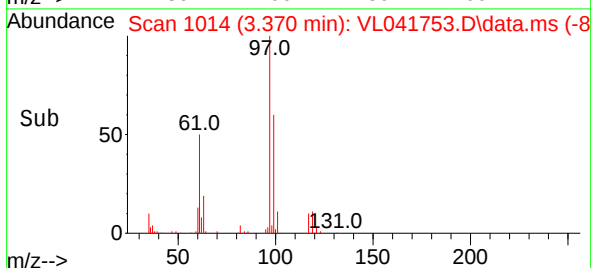
Reviewed By :Semsettin Yesilyurt 12/20/2024  
 Supervised By :Mahesh Dadoda 12/20/2024

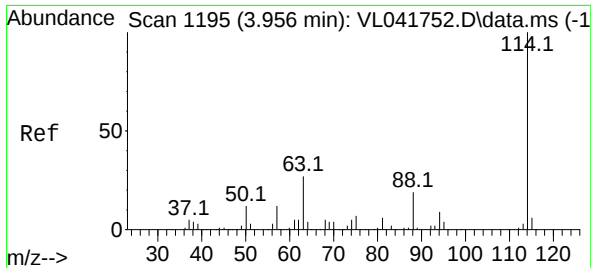


#32  
 1,1,1-Trichloroethane  
 Concen: 2.017 ppbv  
 RT: 3.370 min Scan# 1014  
 Delta R.T. 0.006 min  
 Lab File: VL041753.D  
 Acq: 16 Dec 2024 14:03



Tgt Ion: 97 Resp: 28341  
 Ion Ratio Lower Upper  
 97 100  
 99 63.3 51.0 76.4  
 61 55.5 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

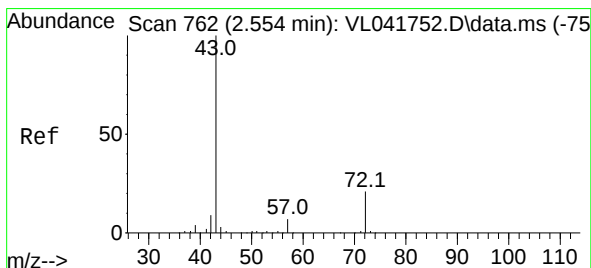
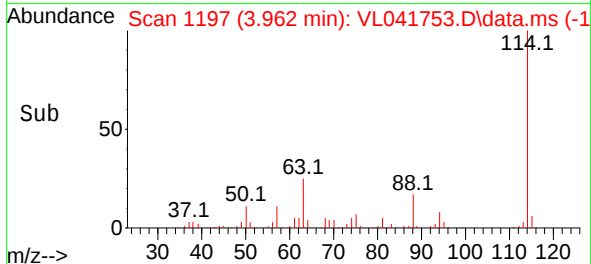
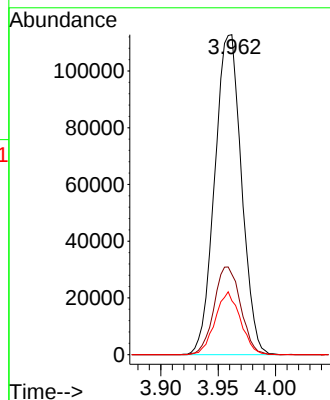
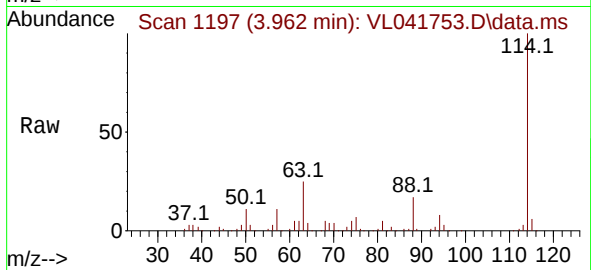
Tgt Ion:114 Resp: 182992

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 27.3  | 21.8  | 32.8  |
| 88  | 18.5  | 14.8  | 22.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#34

2-Butanone

Concen: 2.138 ppbv

RT: 2.557 min Scan# 763

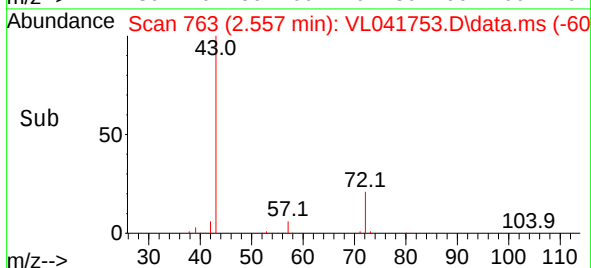
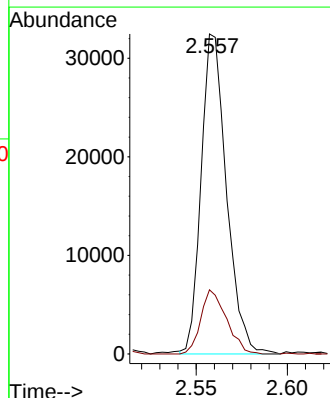
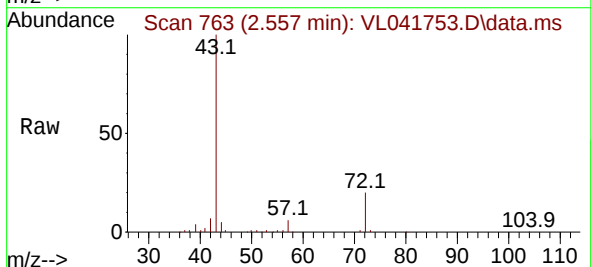
Delta R.T. 0.003 min

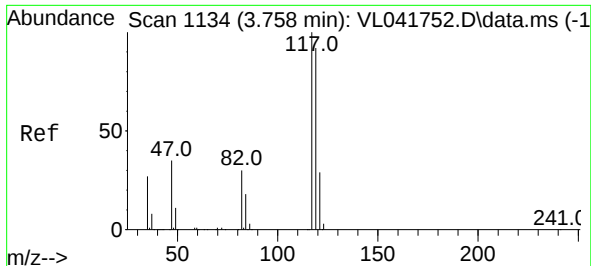
Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 43 Resp: 31483

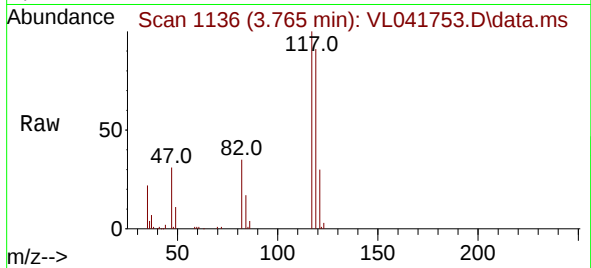
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 20.4  | 16.8  | 25.2  |





#35  
Carbon Tetrachloride  
Concen: 2.134 ppbv  
RT: 3.765 min Scan# 1134  
Delta R.T. 0.006 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

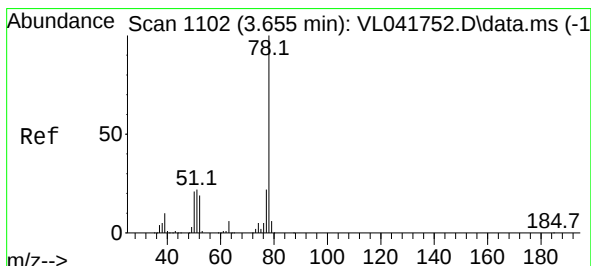
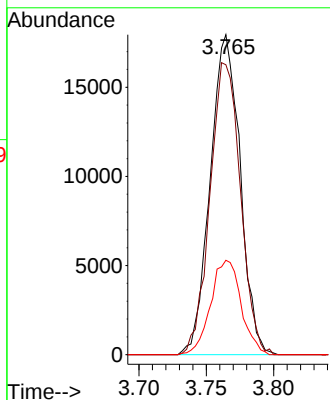
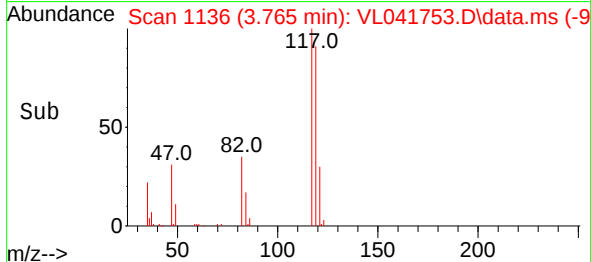
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion:117 Resp: 2772  
Ion Ratio Lower Upper  
117 100  
119 90.6 73.7 110.5  
121 29.5 23.0 34.4

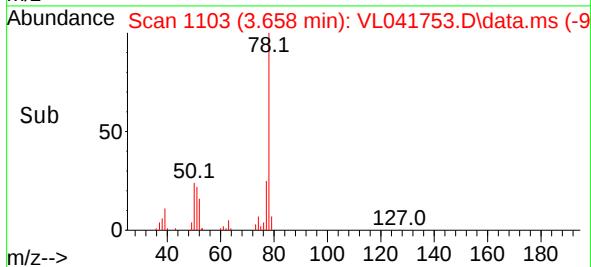
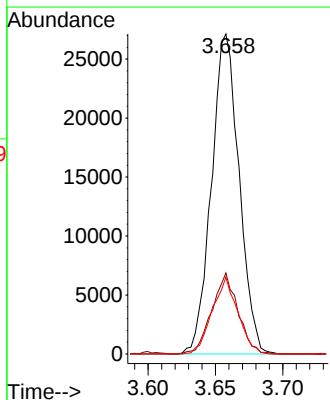
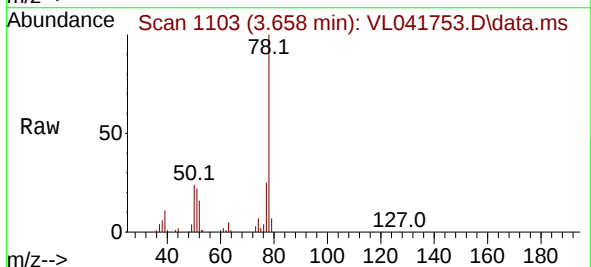
Manual Integrations  
APPROVED

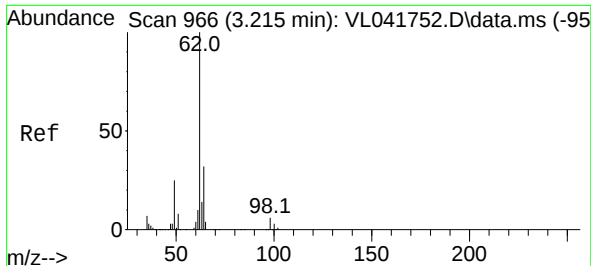
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#36  
Benzene  
Concen: 2.048 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion: 78 Resp: 38759  
Ion Ratio Lower Upper  
78 100  
77 25.3 17.8 26.6  
50 24.0 17.2 25.8





#37

1,2-Dichloroethane

Concen: 2.021 ppbv

RT: 3.221 min Scan# 90

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 62 Resp: 23800

Ion Ratio Lower Upper

62 100

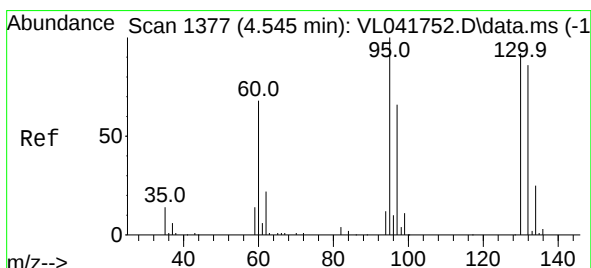
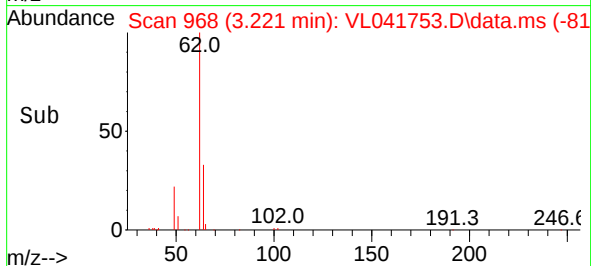
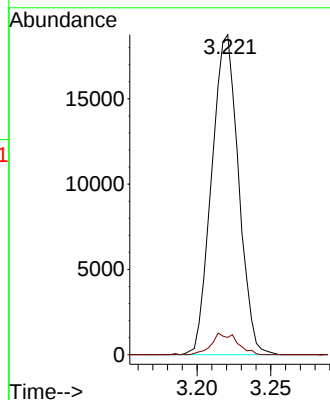
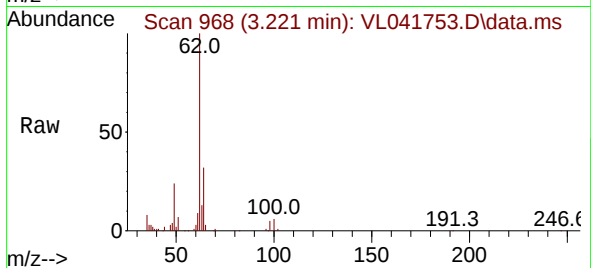
98 6.4 4.7 7.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#38

Trichloroethene

Concen: 1.965 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:130 Resp: 15660

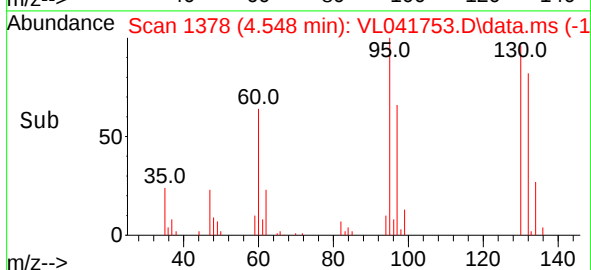
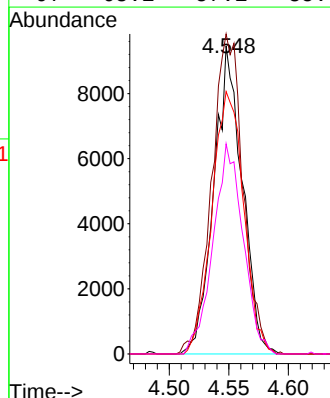
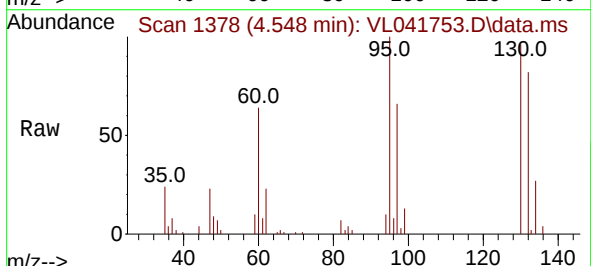
Ion Ratio Lower Upper

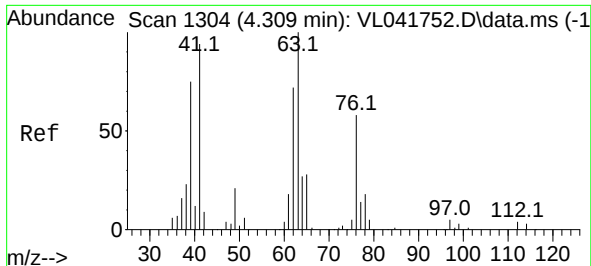
130 100

95 103.3 87.0 130.6

132 85.2 75.0 112.6

97 68.2 57.2 85.8





#39

1,2-Dichloropropane

Concen: 2.074 ppbv

RT: 4.315 min Scan# 1419

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

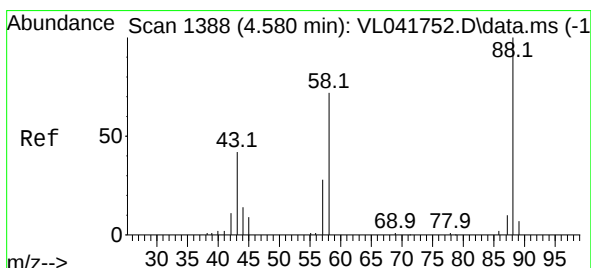
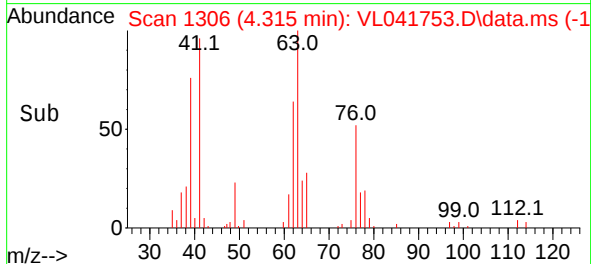
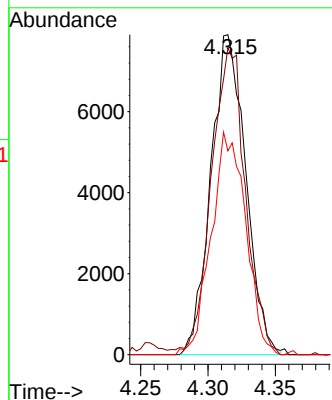
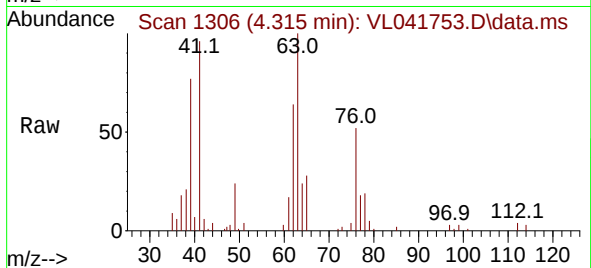
VSTDICC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 63    | Resp: | 1419  |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 41        | 95.9  | 75.3  | 112.9 |
| 62        | 62.4  | 57.3  | 85.9  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#40

1,4-Dioxane

Concen: 2.041 ppbv m

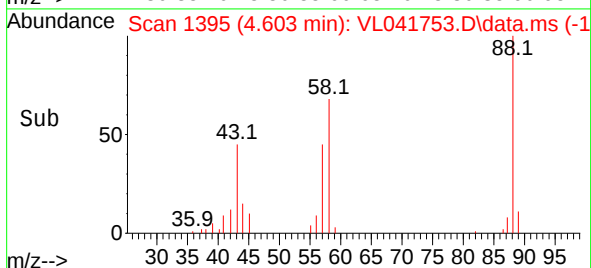
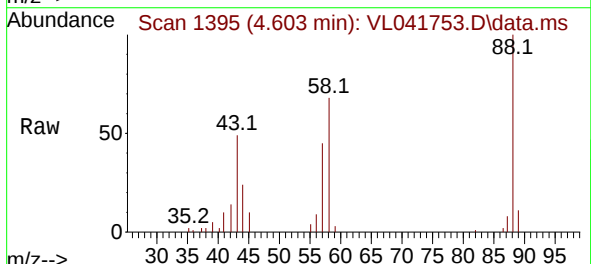
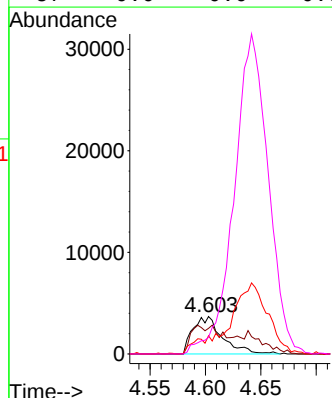
RT: 4.603 min Scan# 1395

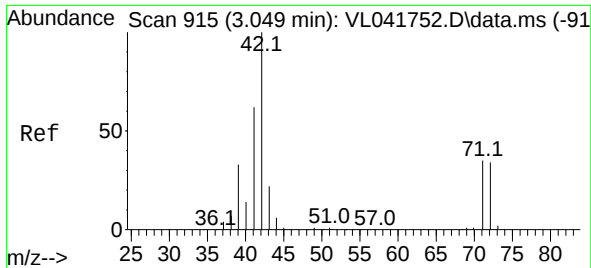
Delta R.T. 0.022 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

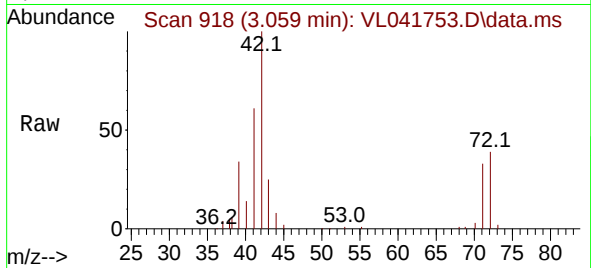
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 6826  |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 0.0   | 61.0  | 91.6# |
| 43        | 0.0   | 29.4  | 44.0# |
| 57        | 0.0   | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 2.021 ppbv  
RT: 3.059 min Scan# 915  
Delta R.T. 0.009 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

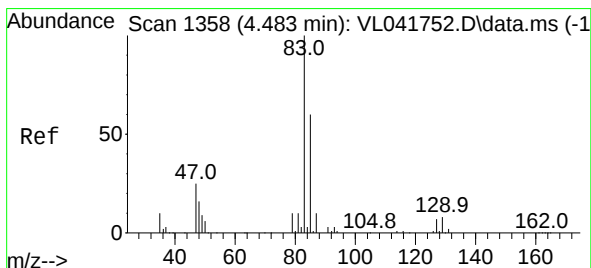
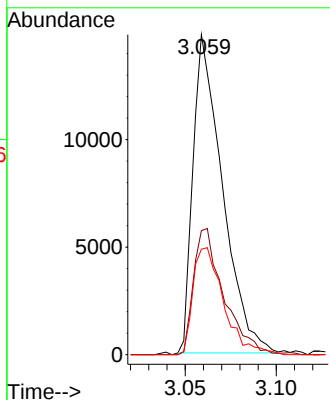
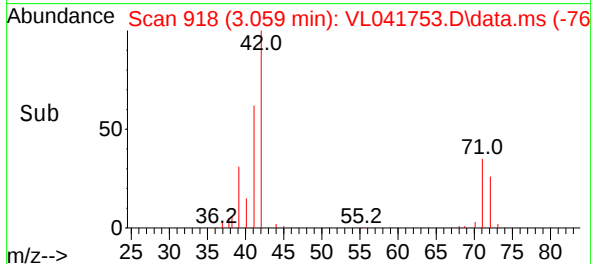
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



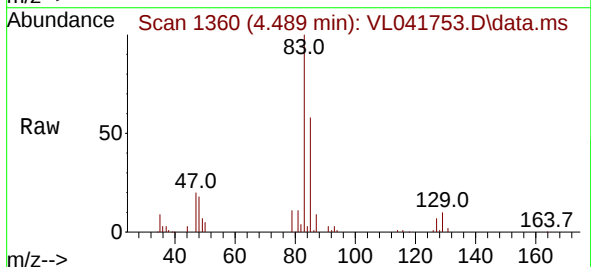
Tgt Ion: 42 Resp: 1666  
Ion Ratio Lower Upper  
42 100  
72 40.7 29.1 43.7  
71 34.9 28.4 42.6

Manual Integrations  
APPROVED

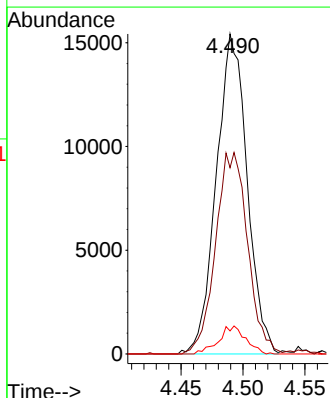
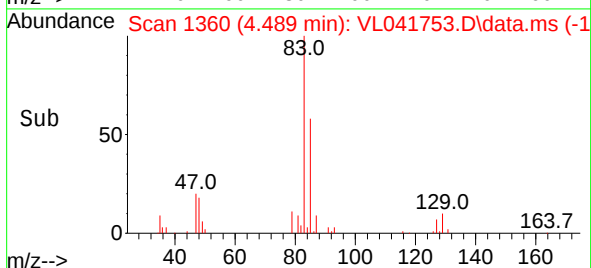
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024

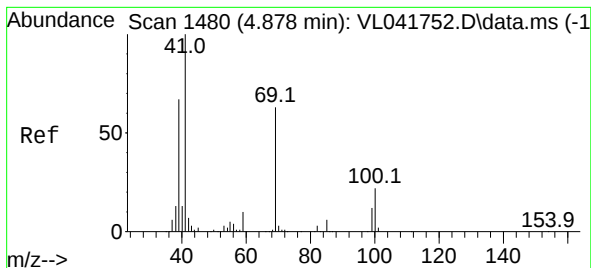


#42  
Bromodichloromethane  
Concen: 1.972 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. 0.006 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03



Tgt Ion: 83 Resp: 26716  
Ion Ratio Lower Upper  
83 100  
85 58.2 48.0 72.0  
127 7.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 2.059 ppbv

RT: 4.884 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

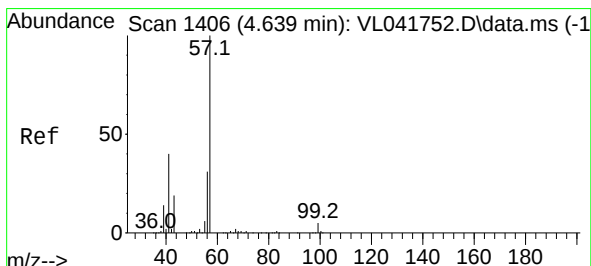
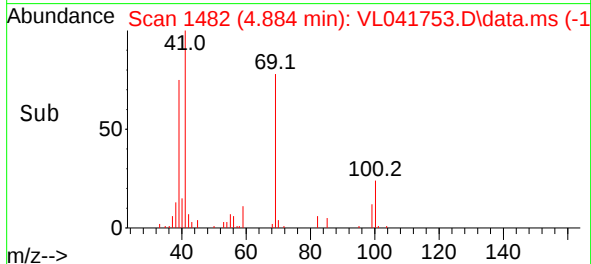
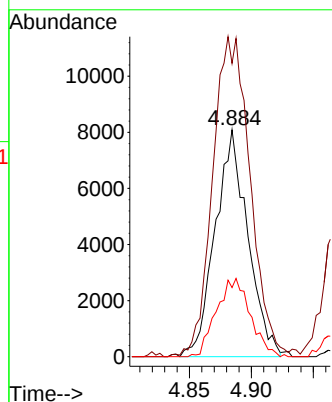
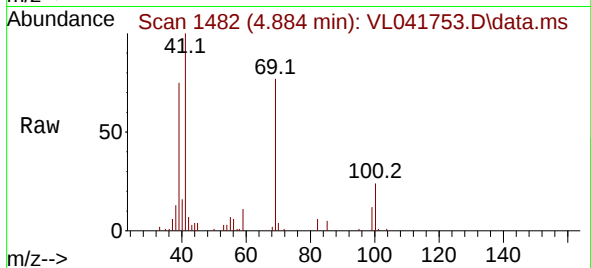
Tgt Ion: 69 Resp: 1484

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 162.7 | 130.3 | 195.5 |
| 100 | 35.7  | 28.3  | 42.5  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#44

2,2,4-Trimethylpentane

Concen: 2.086 ppbv

RT: 4.642 min Scan# 1407

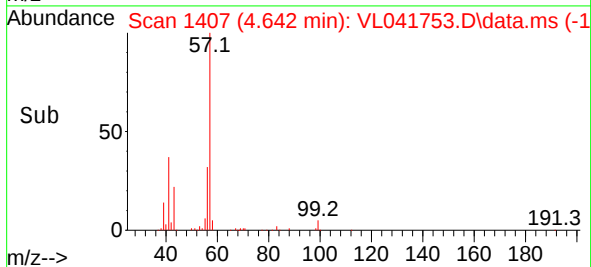
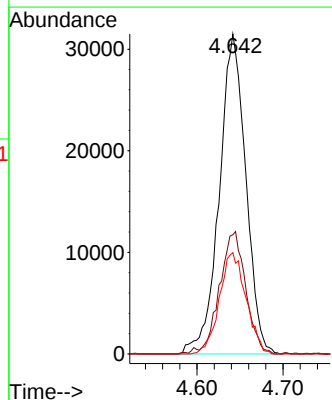
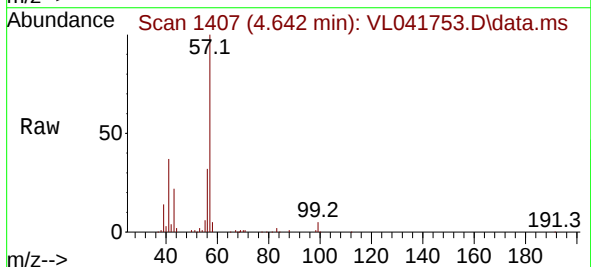
Delta R.T. 0.003 min

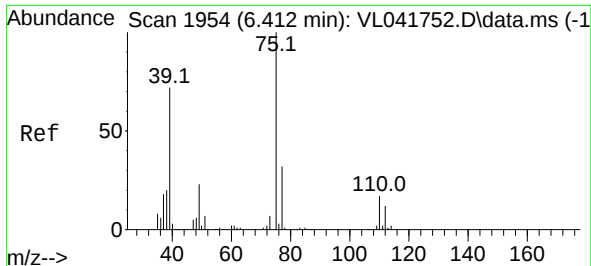
Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 57 Resp: 67432

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 37.9  | 30.7  | 46.1  |
| 56  | 31.7  | 25.4  | 38.0  |





#45

t-1,3-Dichloropropene

Concen: 1.995 ppbv

RT: 6.415 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 75 Resp: 1488

Ion Ratio Lower Upper

75 100

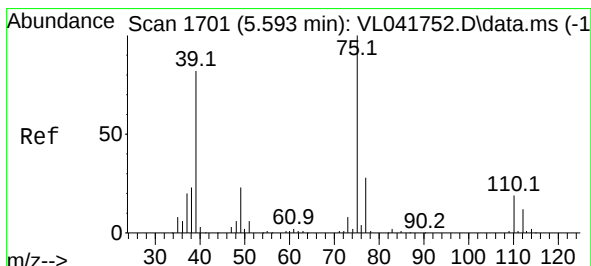
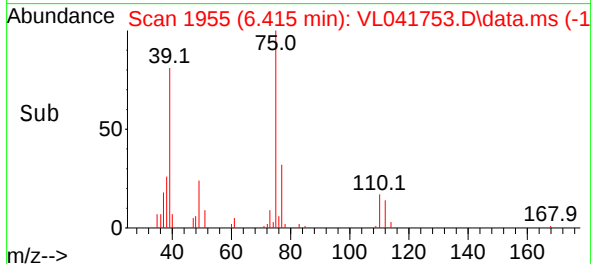
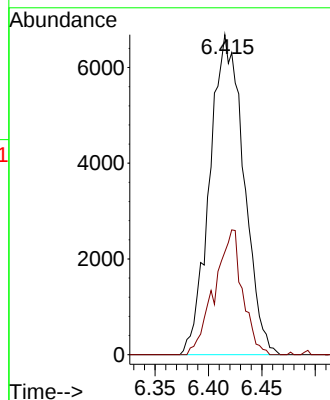
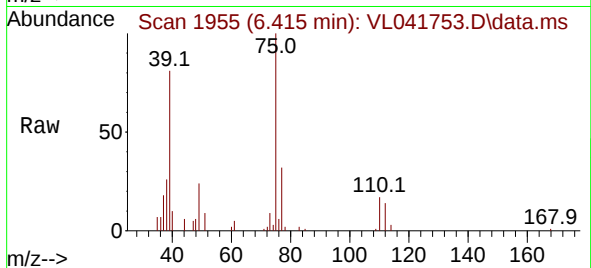
77 32.1 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#46

cis-1,3-Dichloropropene

Concen: 2.017 ppbv m

RT: 5.606 min Scan# 1705

Delta R.T. 0.013 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

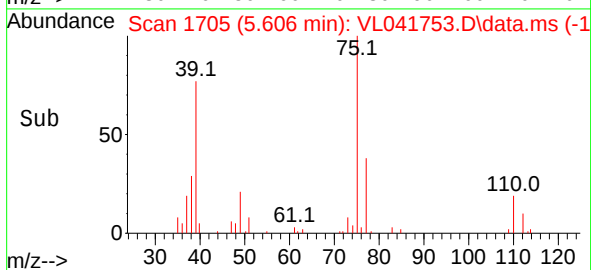
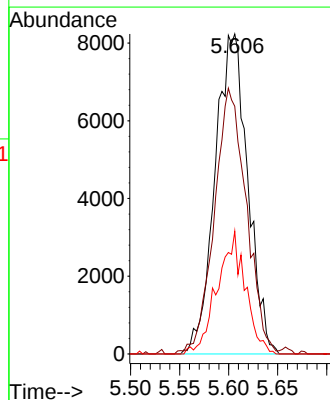
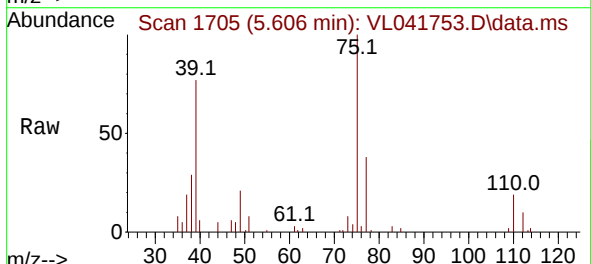
Tgt Ion: 75 Resp: 19105

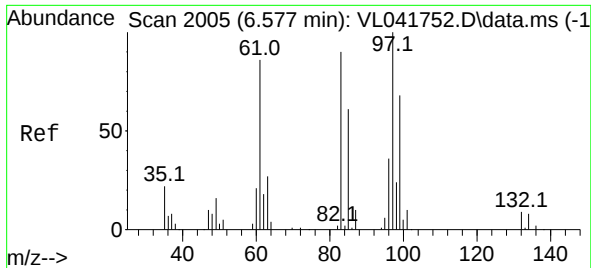
Ion Ratio Lower Upper

75 100

39 77.4 65.2 97.8

77 38.3 22.0 33.0#





#47

1,1,2-Trichloroethane

Concen: 2.078 ppbv

RT: 6.584 min Scan# 2005

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 1485

Ion Ratio Lower Upper

97 100

83 78.0 72.3 108.5

85 56.8 48.5 72.7

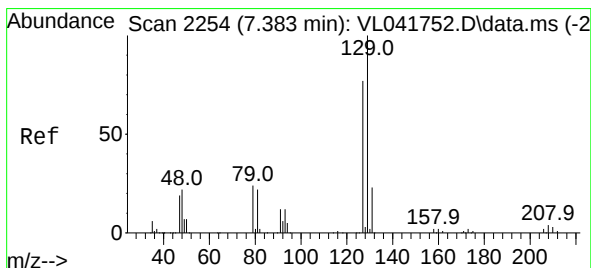
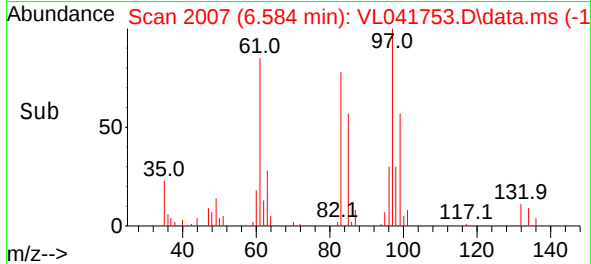
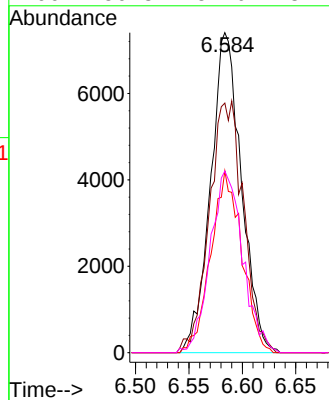
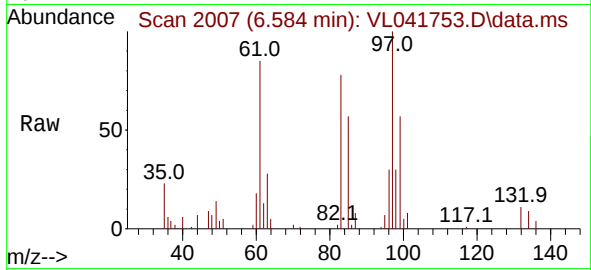
99 56.8 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#48

Dibromochloromethane

Concen: 2.024 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.006 min

Lab File: VL041753.D

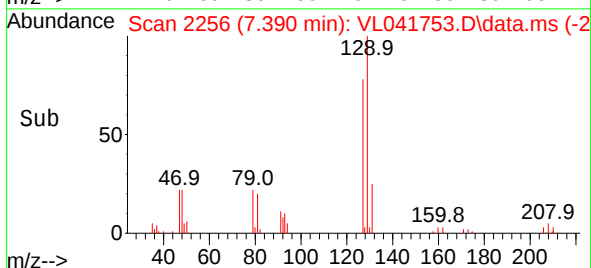
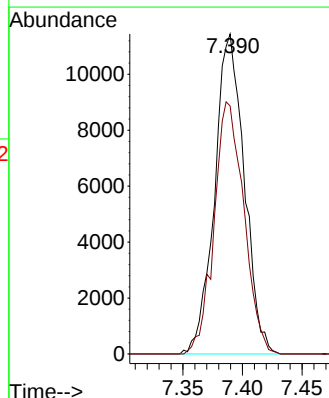
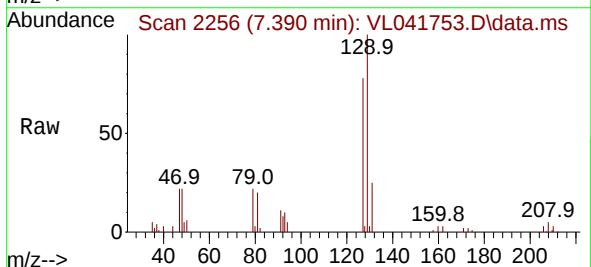
Acq: 16 Dec 2024 14:03

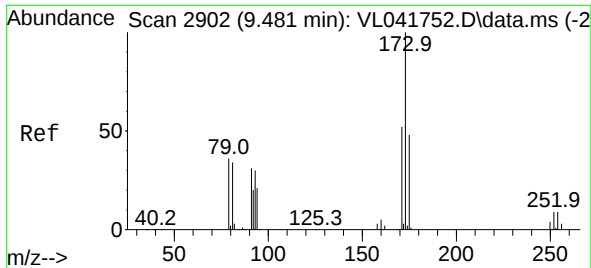
Tgt Ion:129 Resp: 19764

Ion Ratio Lower Upper

129 100

127 79.1 38.8 116.3





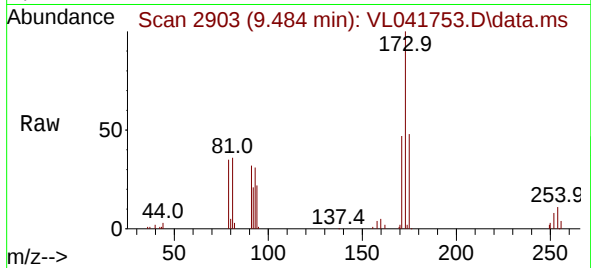
#49  
Bromoform  
Concen: 2.027 ppbv  
RT: 9.484 min Scan# 2902  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

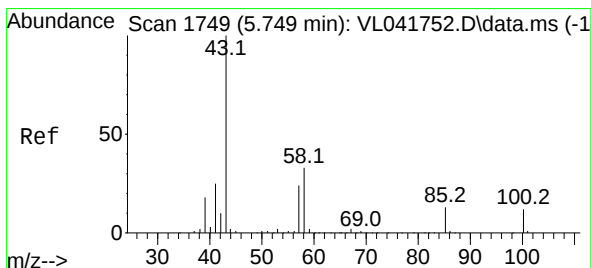
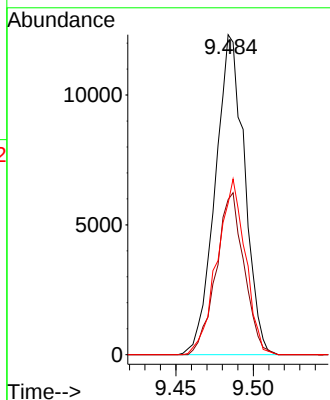
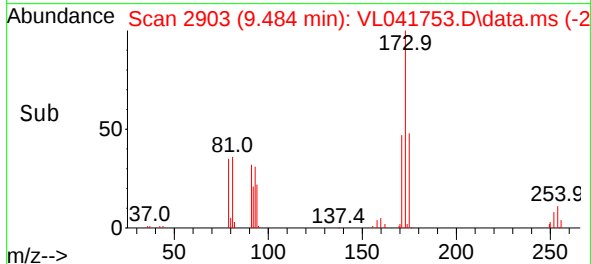


Tgt Ion:173 Resp: 16200  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.2 57.2  
171 52.9 41.1 61.7

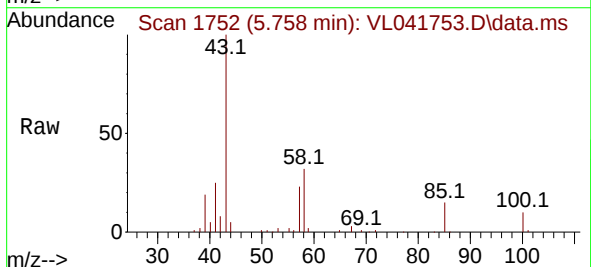
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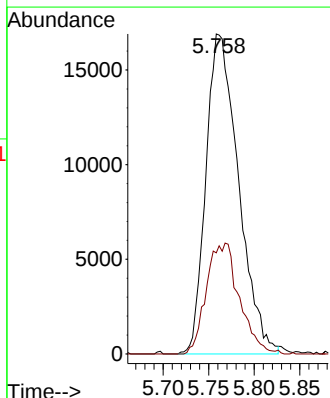
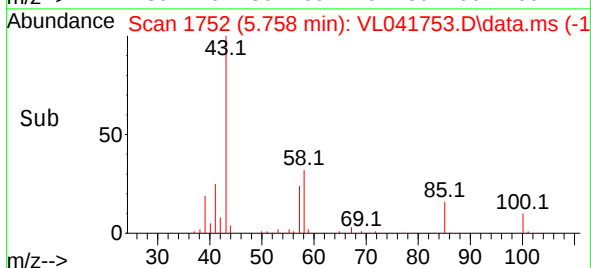
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024

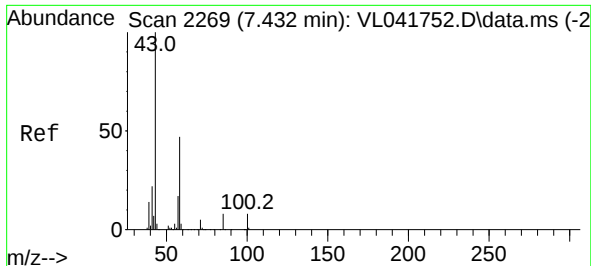


#50  
4-Methyl-2-Pentanone  
Concen: 2.098 ppbv  
RT: 5.758 min Scan# 1752  
Delta R.T. 0.009 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03



Tgt Ion: 43 Resp: 42045  
Ion Ratio Lower Upper  
43 100  
58 35.1 26.8 40.2





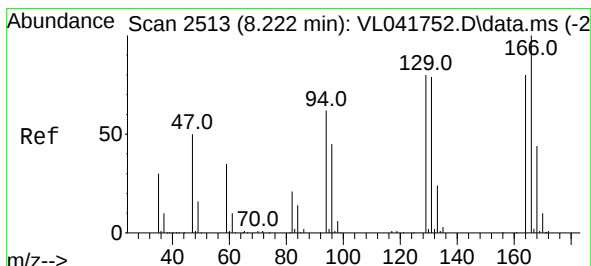
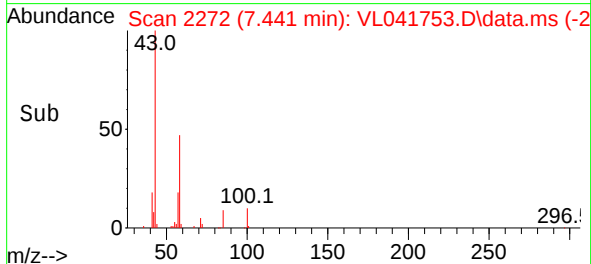
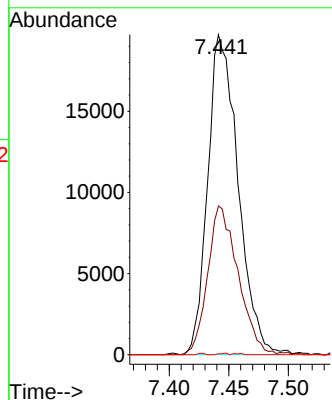
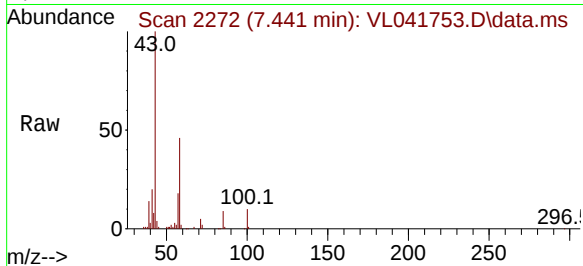
#51  
2-Hexanone  
Concen: 2.147 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 34878  
Ion Ratio Lower Upper  
43 100  
58 46.8 36.6 55.0  
98 0.3 0.1 0.1

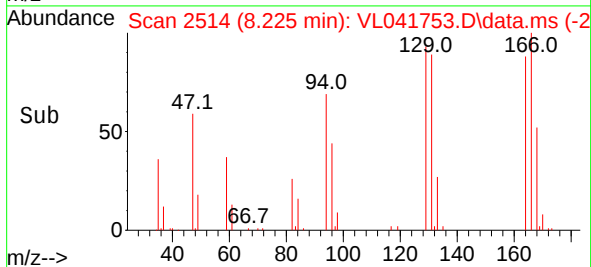
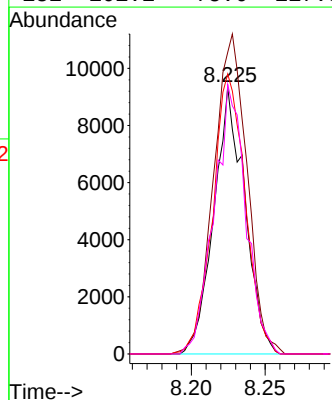
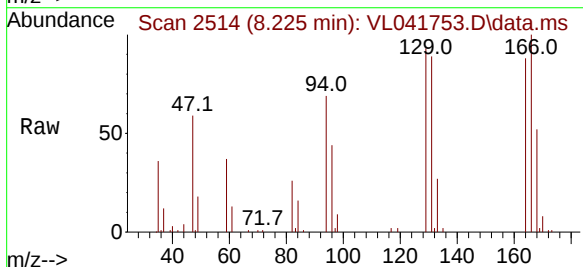
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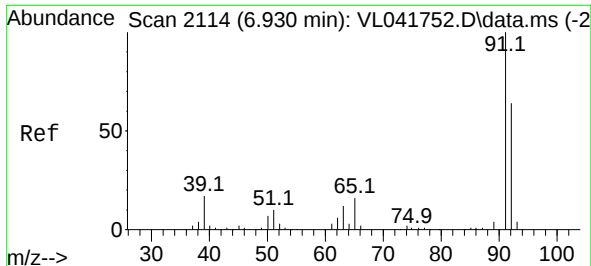
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#52  
Tetrachloroethene  
Concen: 1.932 ppbv  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion:164 Resp: 13612  
Ion Ratio Lower Upper  
164 100  
166 111.9 99.8 149.6  
129 104.9 79.6 119.4  
131 101.1 78.6 117.8





#53

Toluene

Concen: 2.072 ppbv

RT: 6.933 min Scan# 2114

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 44470

Ion Ratio Lower Upper

91 100

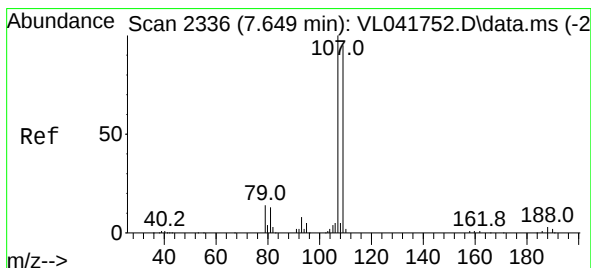
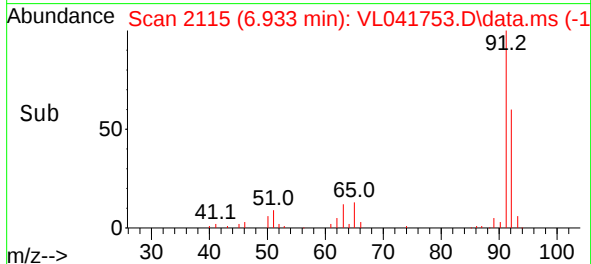
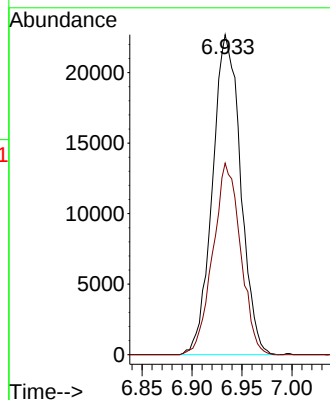
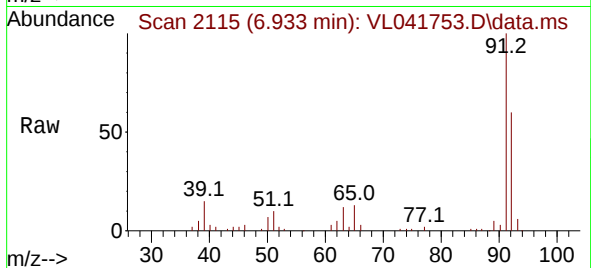
92 58.8 47.9 71.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 2.012 ppbv

RT: 7.655 min Scan# 2338

Delta R.T. 0.006 min

Lab File: VL041753.D

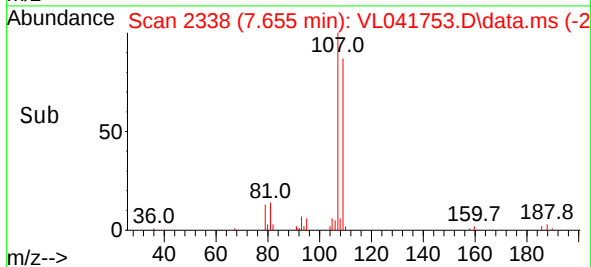
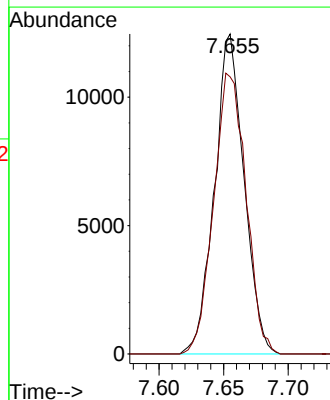
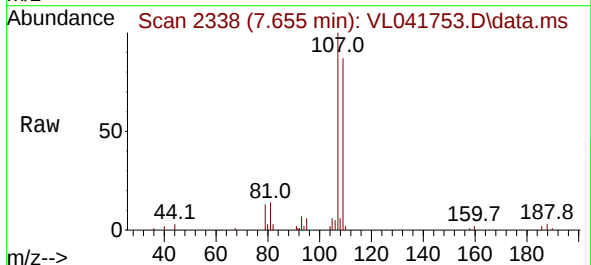
Acq: 16 Dec 2024 14:03

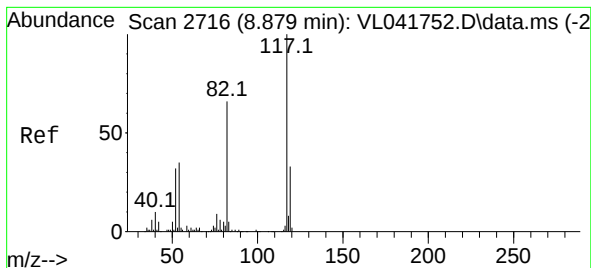
Tgt Ion:107 Resp: 19820

Ion Ratio Lower Upper

107 100

109 86.6 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

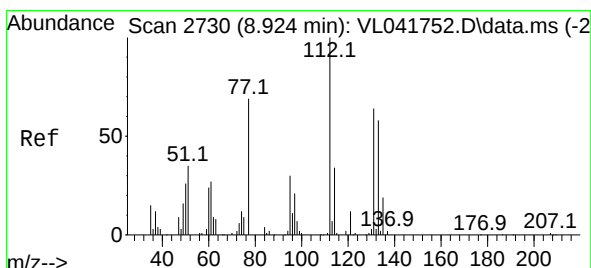
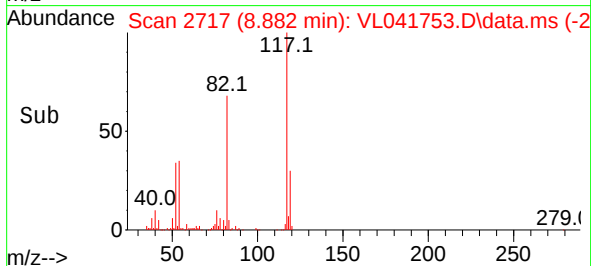
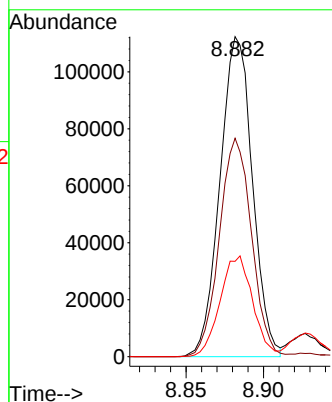
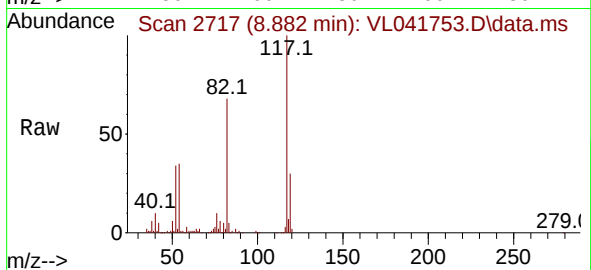
VSTDICC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 16397 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 68.5  | 53.8  | 80.8  |
| 119       | 31.5  | 26.7  | 40.1  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 2.141 ppbv

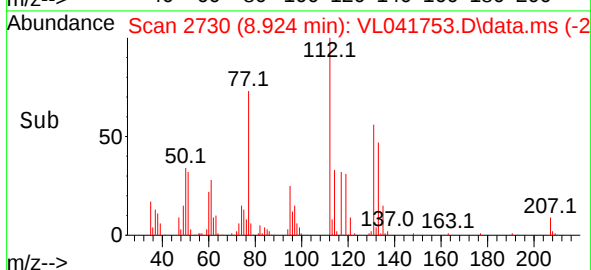
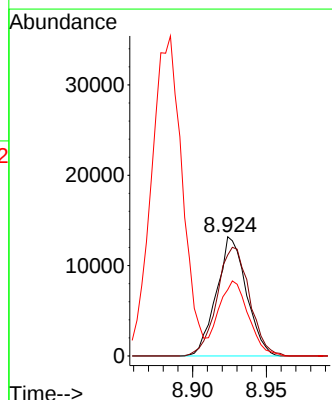
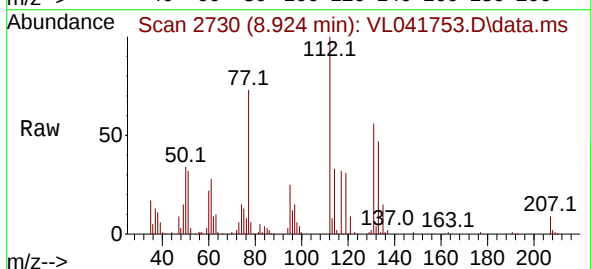
RT: 8.924 min Scan# 2730

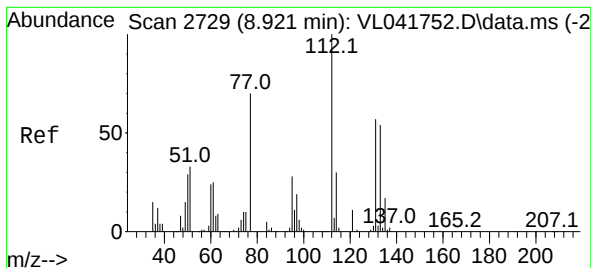
Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 131   | Resp: | 18613 |
| Ion Ratio | Lower | Upper |       |
| 131       | 100   |       |       |
| 133       | 99.0  | 76.8  | 115.2 |
| 119       | 61.3  | 49.0  | 73.6  |





#57

Chlorobenzene

Concen: 2.127 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

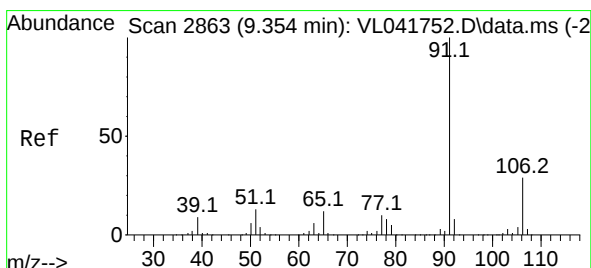
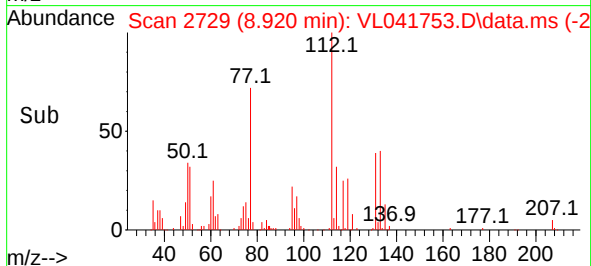
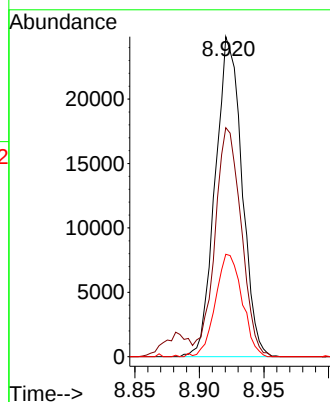
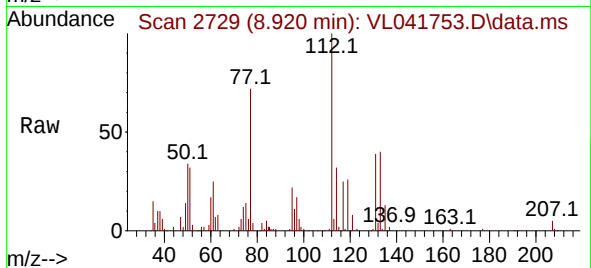
VSTDIC002

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 3568 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 77        | 71.6  | 57.4  | 86.0 |
| 114       | 32.0  | 27.4  | 33.4 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#58

Ethyl Benzene

Concen: 2.145 ppbv

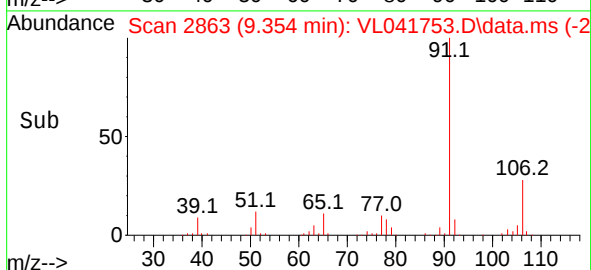
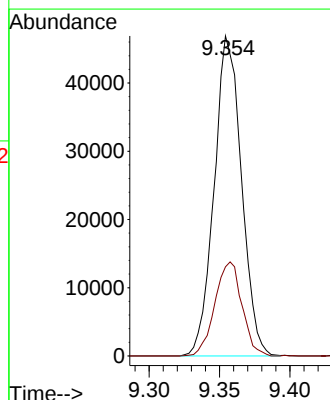
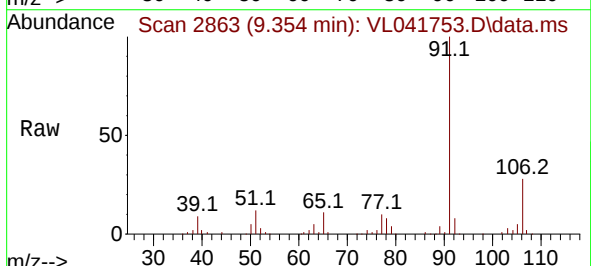
RT: 9.354 min Scan# 2863

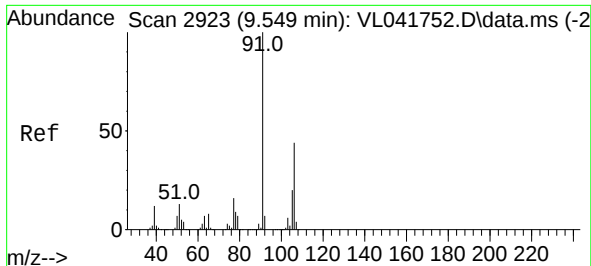
Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 63316 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 27.8  | 23.5  | 35.3  |





#59

m/p-Xylene

Concen: 4.204 ppbv

RT: 9.535 min Scan# 2923

Delta R.T. -0.013 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 9982

Ion Ratio Lower Upper

91 100

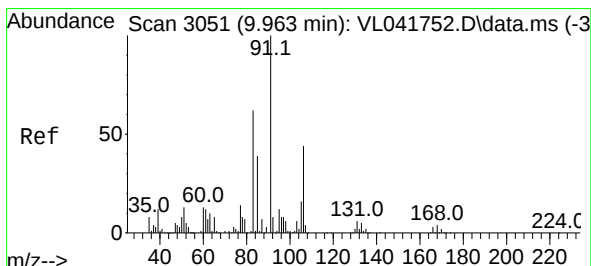
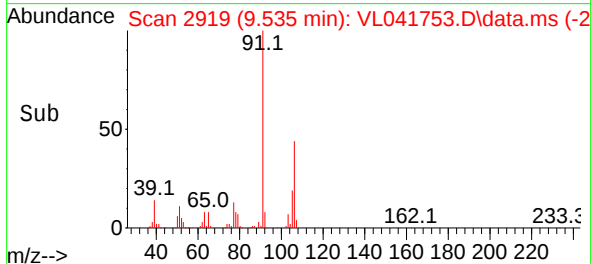
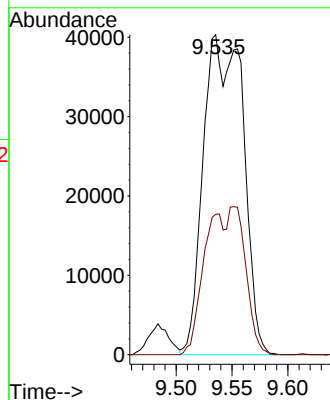
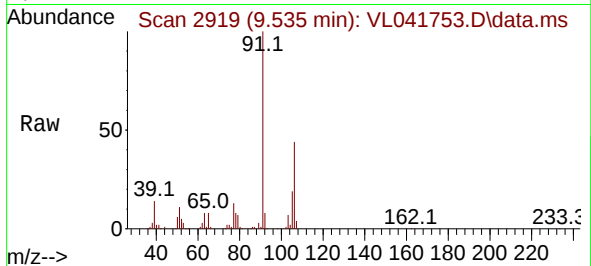
106 46.4 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#60

o-Xylene

Concen: 2.149 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL041753.D

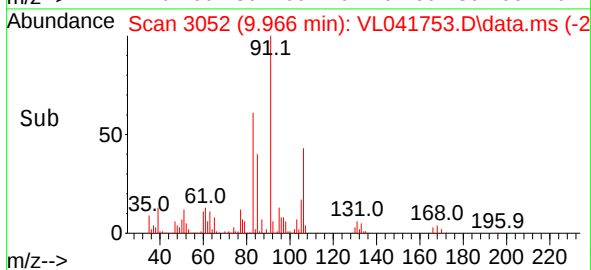
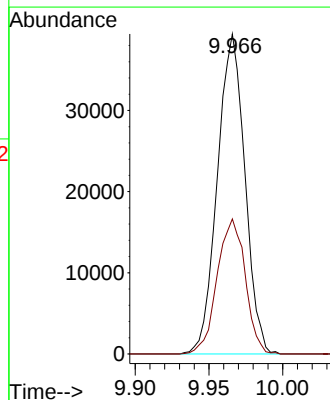
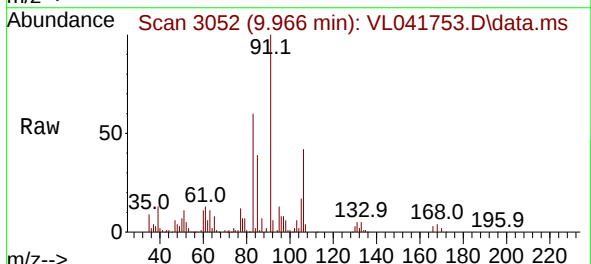
Acq: 16 Dec 2024 14:03

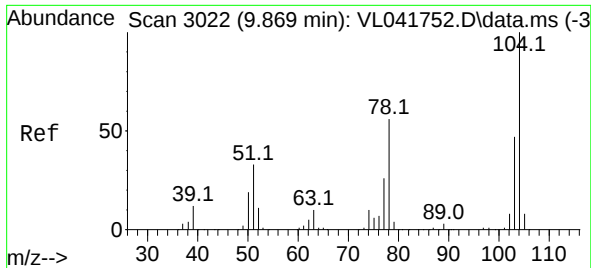
Tgt Ion: 91 Resp: 51152

Ion Ratio Lower Upper

91 100

106 43.1 21.1 63.4





#61  
Styrene  
Concen: 2.025 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

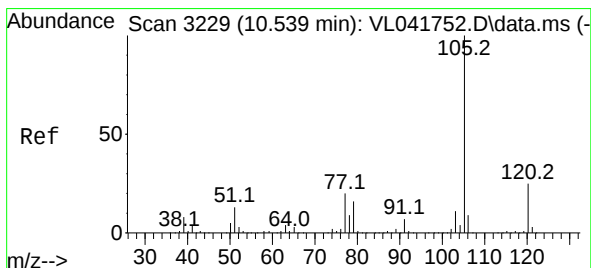
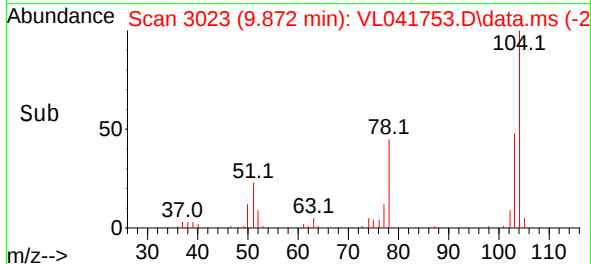
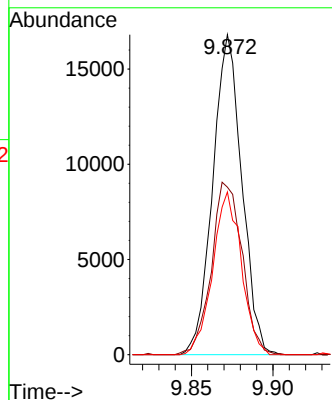
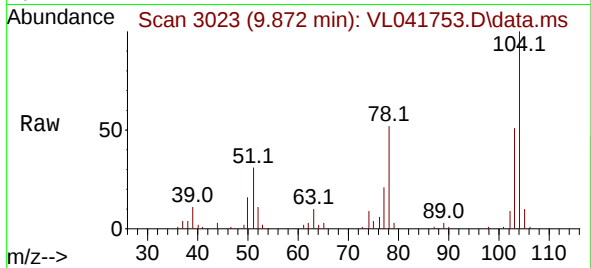
VSTDICC002

Tgt Ion:104 Resp: 2084  
Ion Ratio Lower Upper  
104 100  
78 56.9 43.8 65.6  
103 50.2 37.8 56.6

Manual Integrations

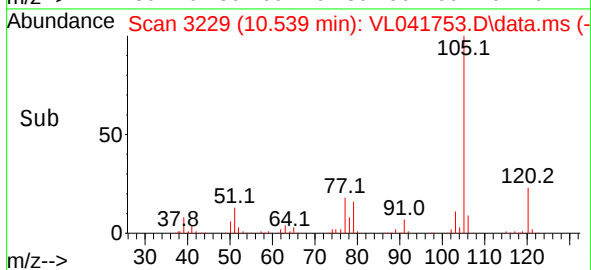
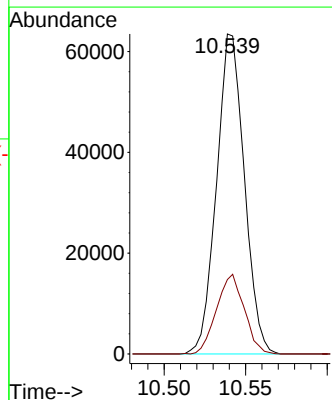
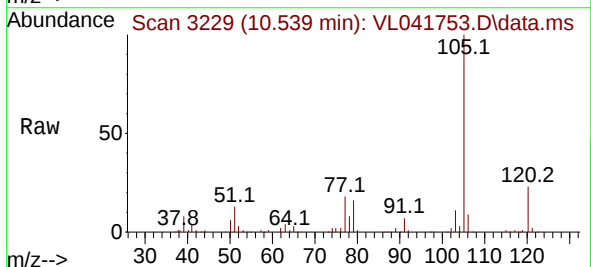
APPROVED

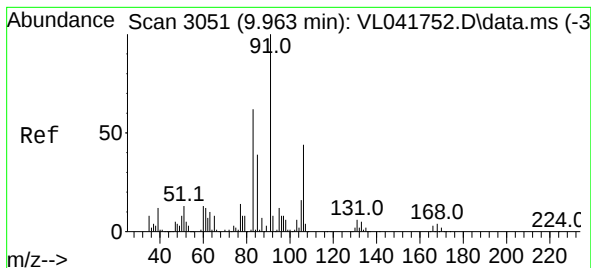
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#62  
Isopropylbenzene  
Concen: 2.103 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 75206  
Ion Ratio Lower Upper  
105 100  
120 24.8 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.997 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

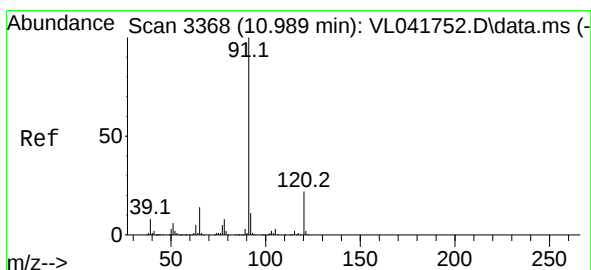
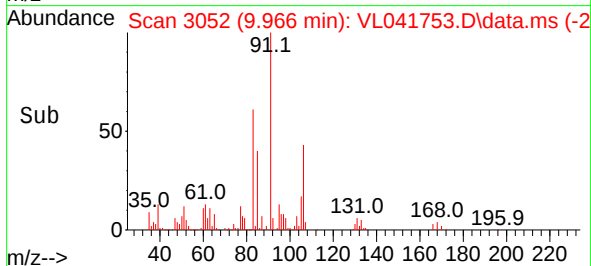
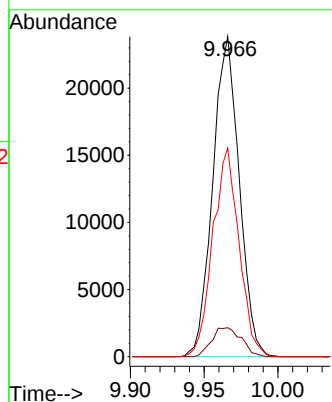
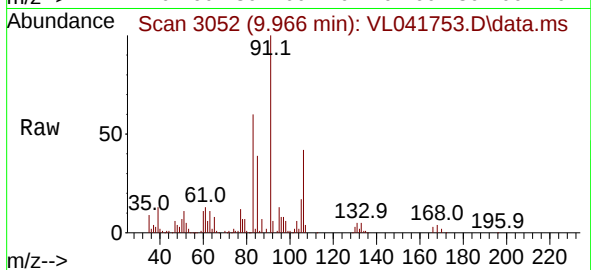
VSTDICC002

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 2975 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 131       | 10.2  | 4.9   | 14.7 |
| 85        | 64.4  | 32.0  | 96.2 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#64

n-propylbenzene

Concen: 2.117 ppbv

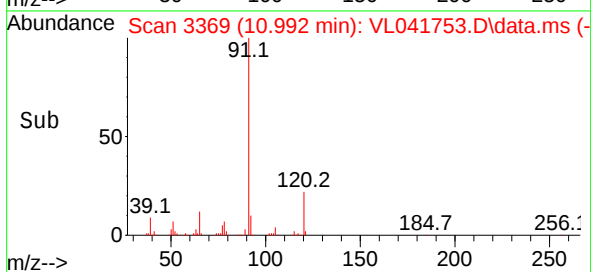
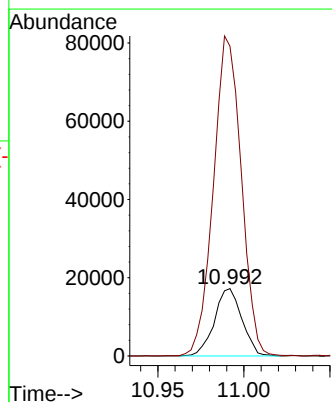
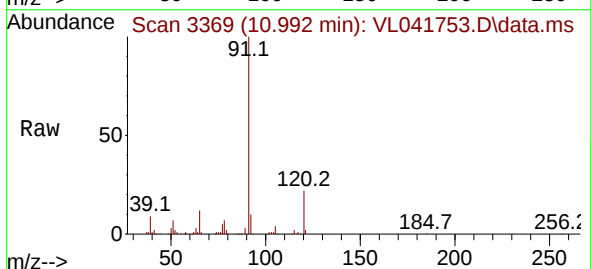
RT: 10.992 min Scan# 3369

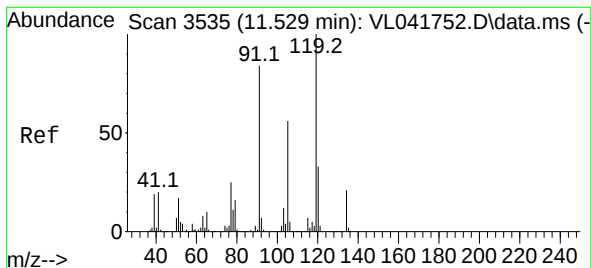
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

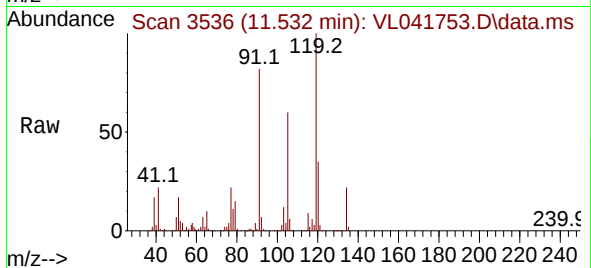
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 120   | Resp: | 19146 |
| Ion Ratio | Lower | Upper |       |
| 120       | 100   |       |       |
| 91        | 482.0 | 387.3 | 580.9 |





#65  
tert-Butylbenzene  
Concen: 2.135 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

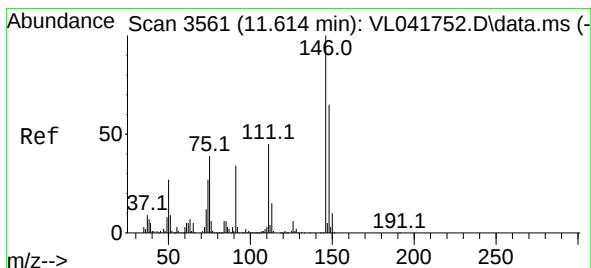
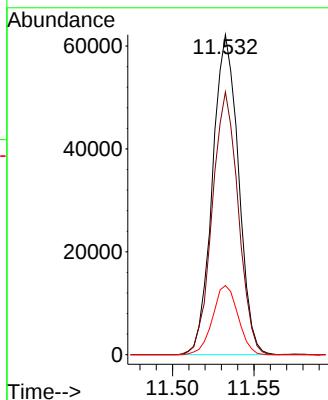
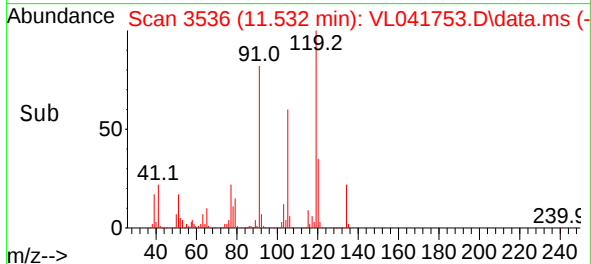
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion:119 Resp: 68879  
Ion Ratio Lower Upper  
119 100  
91 82.1 67.0 100.4  
134 21.1 16.5 24.7

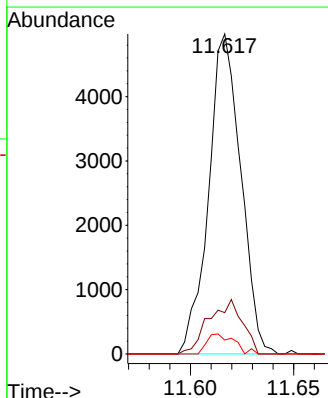
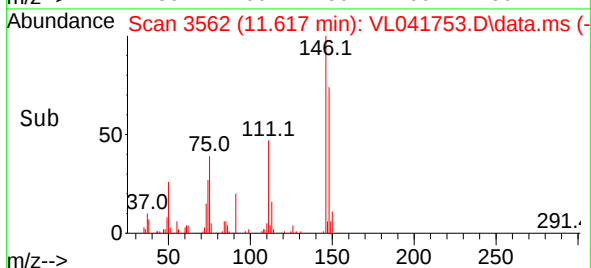
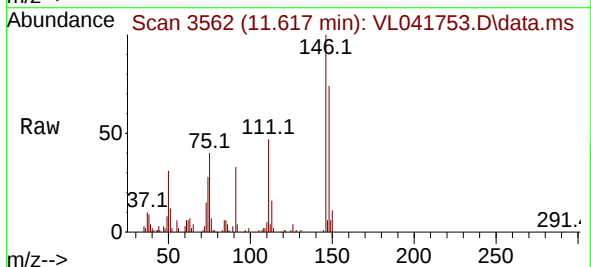
Manual Integrations  
APPROVED

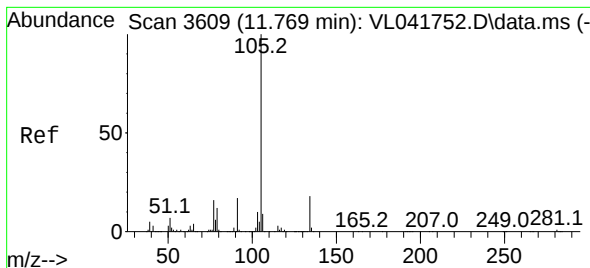
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#66  
Benzyl Chloride  
Concen: 1.898 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

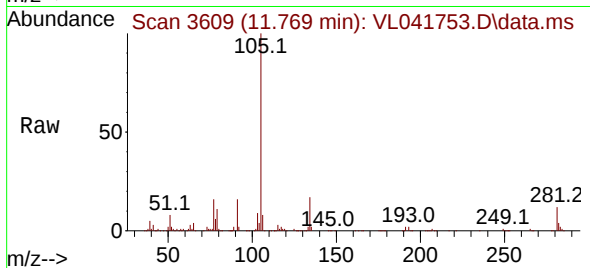
Tgt Ion: 91 Resp: 5400  
Ion Ratio Lower Upper  
91 100  
126 17.7 13.9 20.9  
128 5.3 4.4 6.6





#67  
sec-Butylbenzene  
Concen: 2.149 ppbv  
RT: 11.769 min Scan# 3609  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

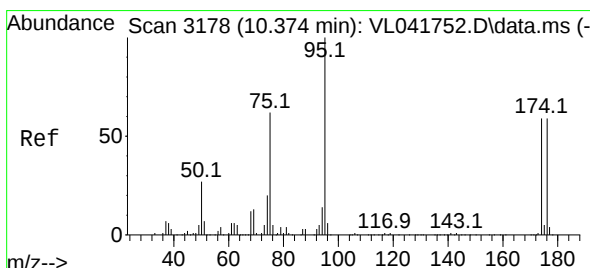
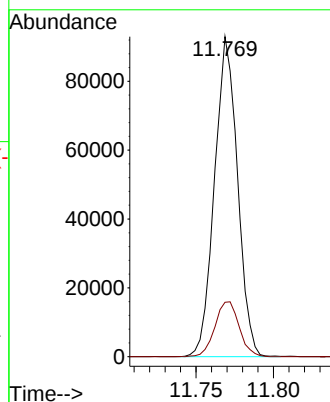
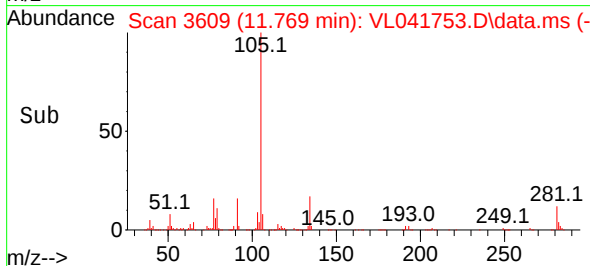
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



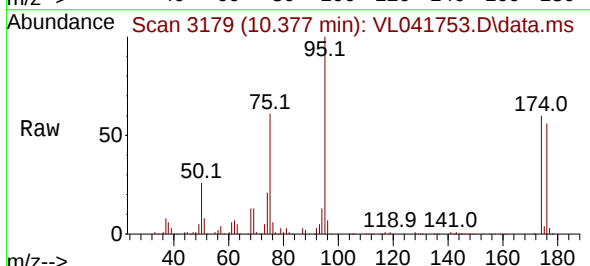
Tgt Ion:105 Resp: 95968  
Ion Ratio Lower Upper  
105 100  
134 18.1 14.5 21.7

Manual Integrations  
APPROVED

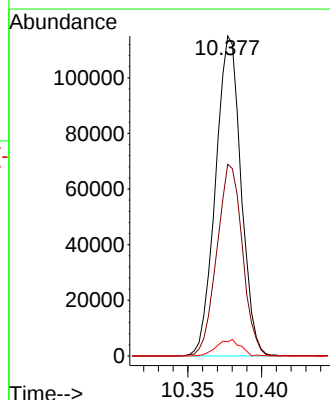
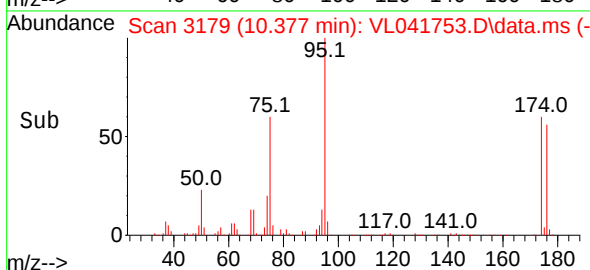
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024

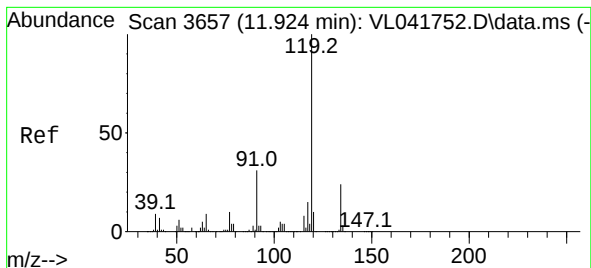


#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.122 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03



Tgt Ion: 95 Resp: 138312  
Ion Ratio Lower Upper  
95 100  
174 60.2 47.6 71.4  
175 4.9 3.7 5.5





#69

p-Isopropyltoluene

Concen: 2.153 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

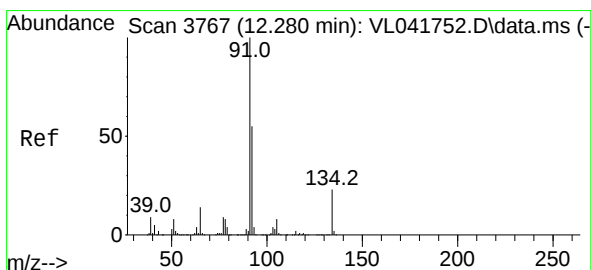
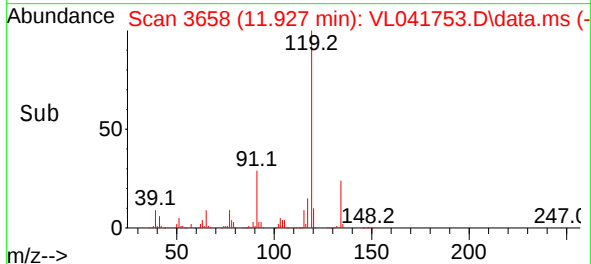
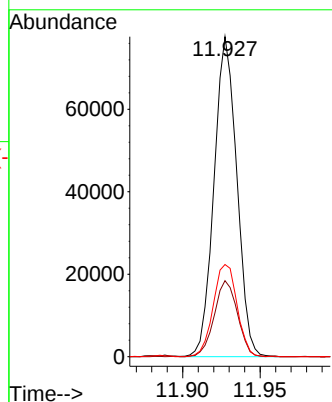
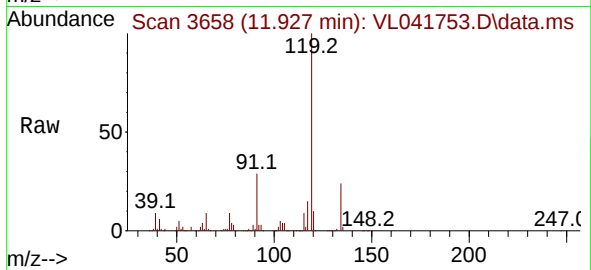
VSTDIC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 79230 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 134       | 24.3  | 19.6  | 29.4  |
| 91        | 30.5  | 24.4  | 36.6  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#70

n-Butylbenzene

Concen: 2.122 ppbv

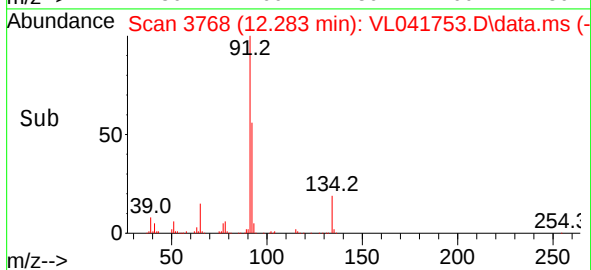
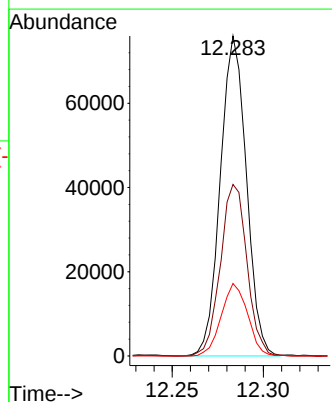
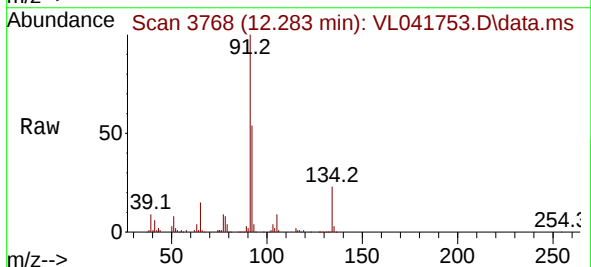
RT: 12.283 min Scan# 3768

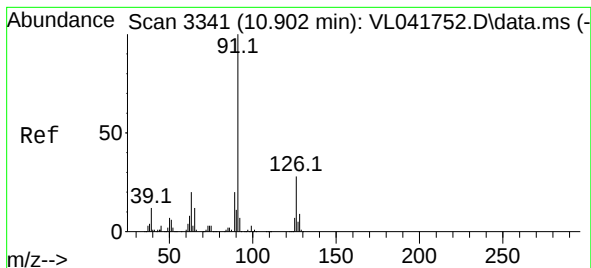
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 75430 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 54.7  | 43.2  | 64.8  |
| 134       | 23.0  | 18.2  | 27.4  |





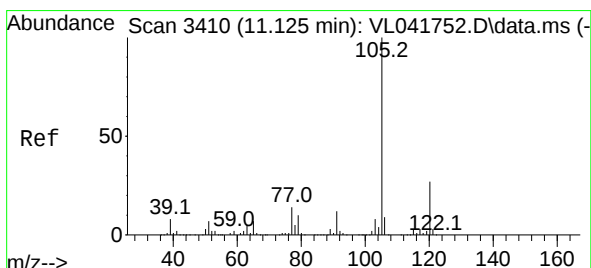
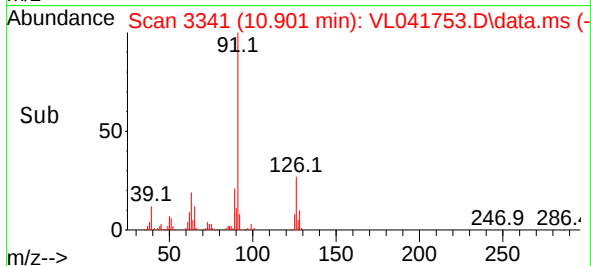
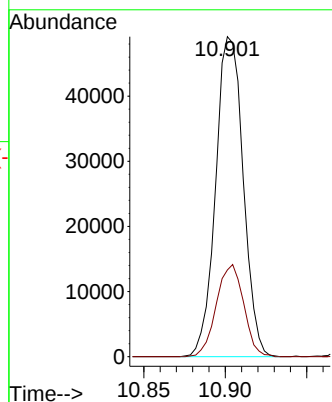
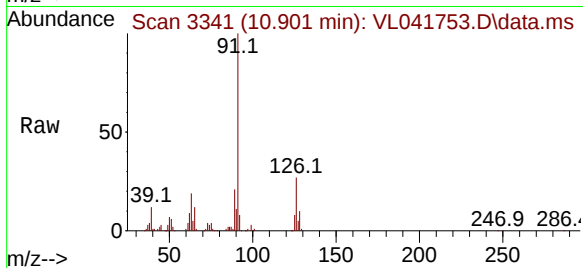
#71  
2-Chlorotoluene  
Concen: 2.114 ppbv  
RT: 10.901 min Scan# 3341  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 91 Resp: 57724  
Ion Ratio Lower Upper  
91 100  
126 28.5 11.6 46.4

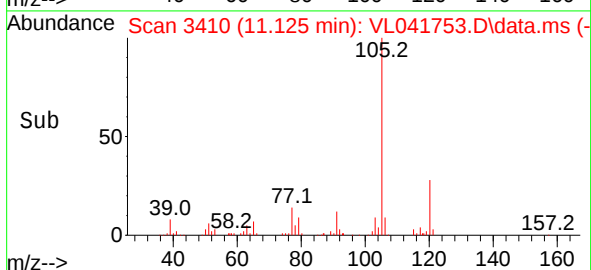
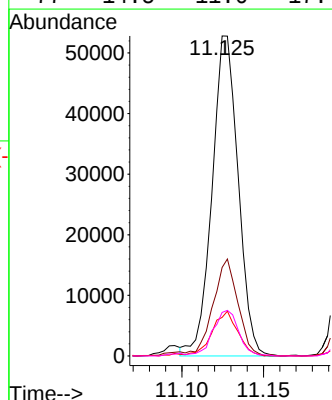
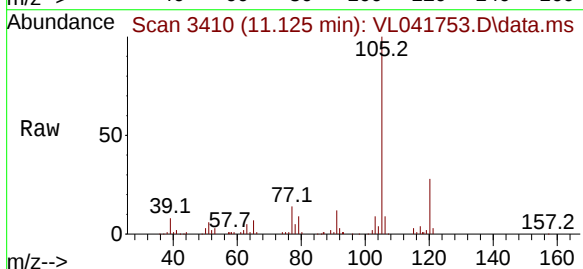
Manual Integrations  
APPROVED

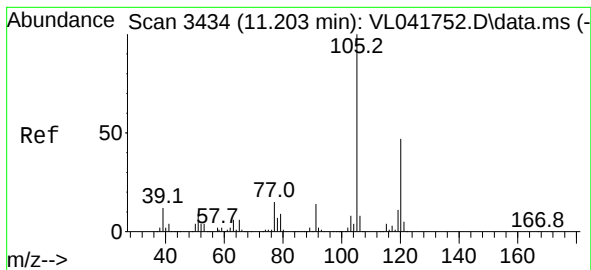
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#72  
4-Ethyltoluene  
Concen: 2.098 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 58841  
Ion Ratio Lower Upper  
105 100  
120 29.7 23.3 34.9  
91 14.3 10.9 16.3  
77 14.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 2.087 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 4864

Ion Ratio Lower Upper

105 100

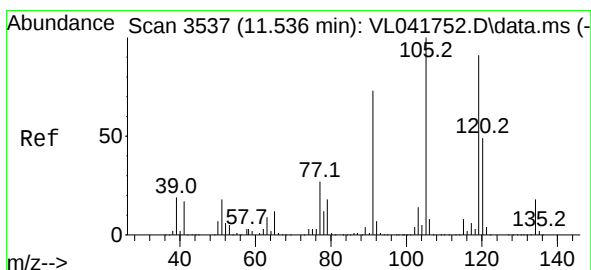
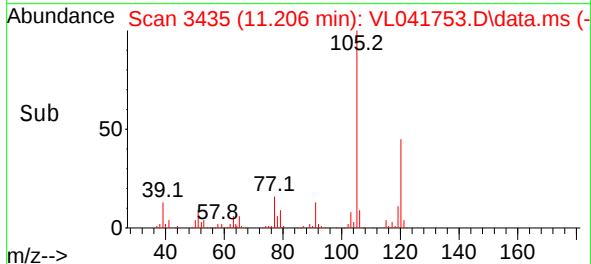
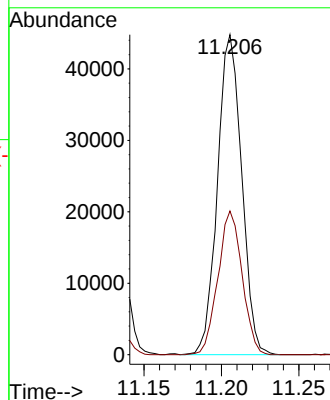
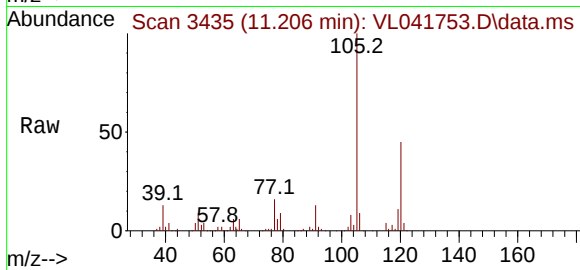
120 44.9 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 2.118 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 53084

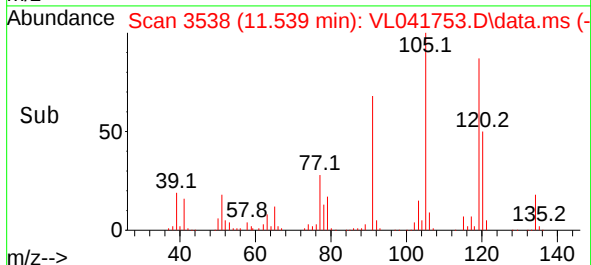
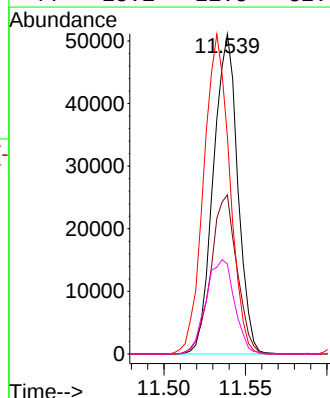
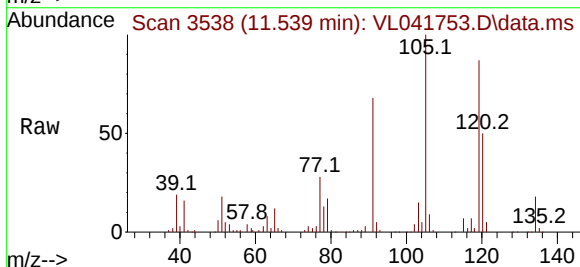
Ion Ratio Lower Upper

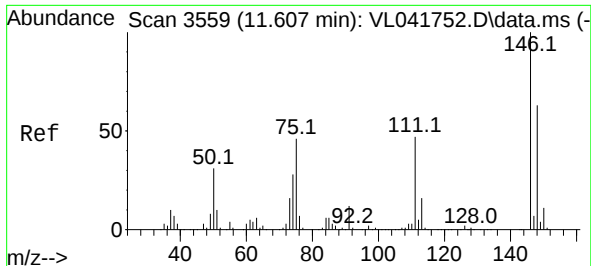
105 100

120 49.7 39.0 58.4

91 67.9 58.1 87.1

77 28.1 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 2.040 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

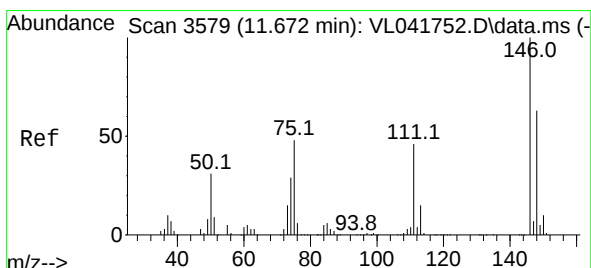
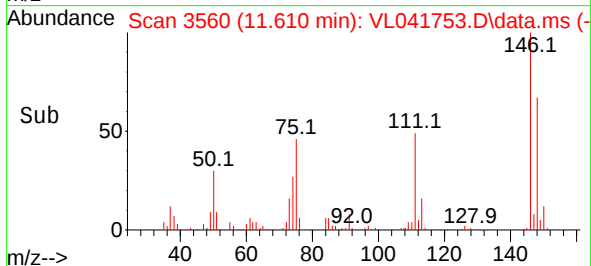
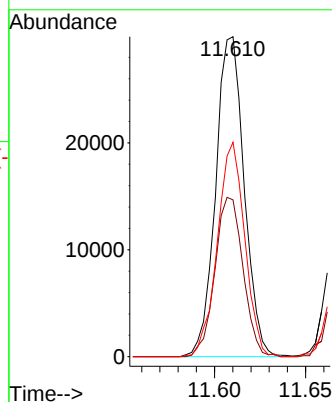
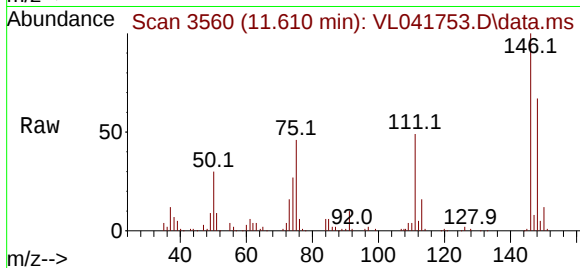
VSTDIC002

Tgt Ion:146 Resp: 32609  
 Ion Ratio Lower Upper  
 146 100  
 111 49.1 23.4 70.3  
 148 64.3 31.6 95.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024  
 Supervised By :Mahesh Dadoda 12/20/2024



#76

1,4-Dichlorobenzene

Concen: 2.060 ppbv

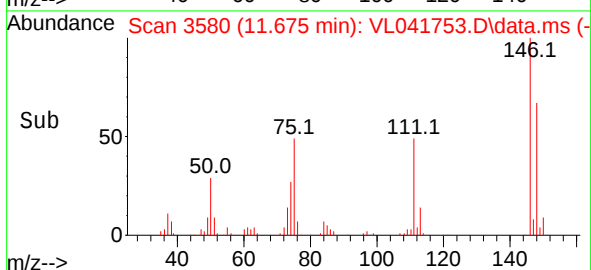
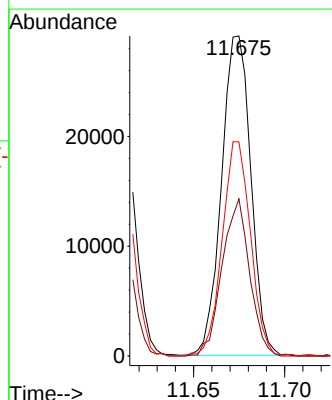
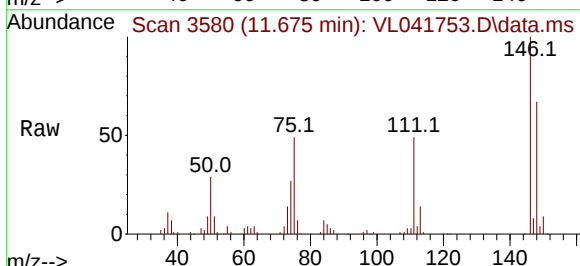
RT: 11.675 min Scan# 3580

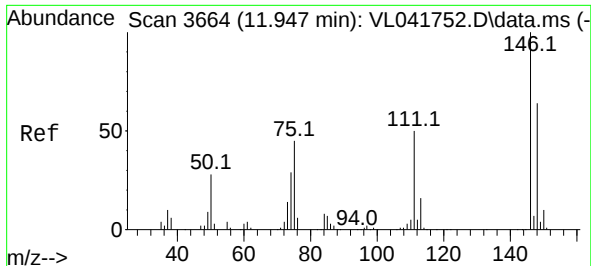
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

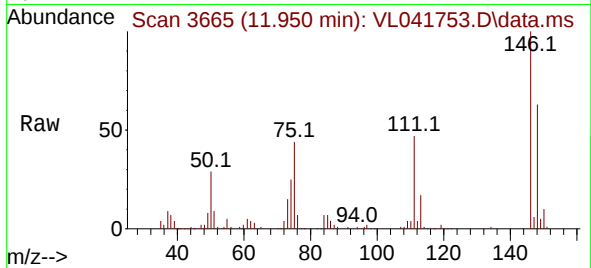
Tgt Ion:146 Resp: 32527  
 Ion Ratio Lower Upper  
 146 100  
 111 46.1 22.7 68.1  
 148 65.1 31.4 94.0





#77  
1,2-Dichlorobenzene  
Concen: 2.095 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. 0.003 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03

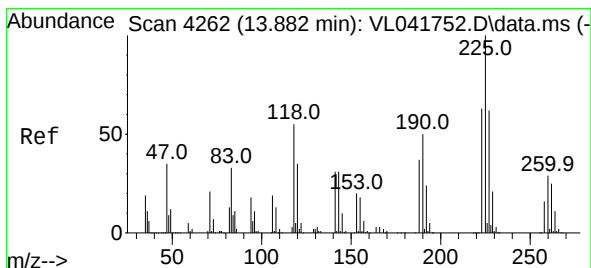
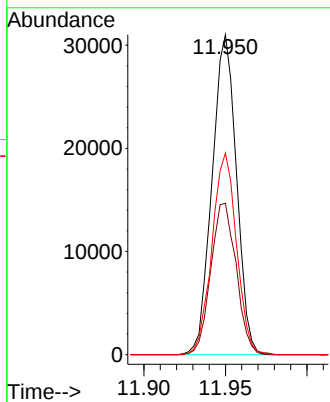
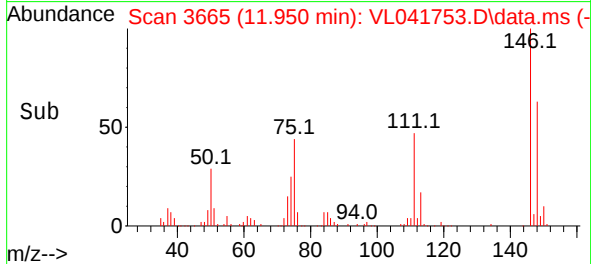
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



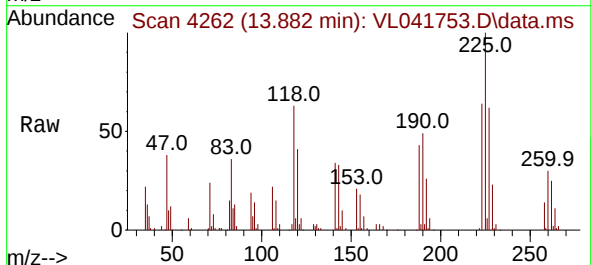
Tgt Ion:146 Resp: 32223  
Ion Ratio Lower Upper  
146 100  
111 49.2 24.8 74.3  
148 63.3 31.8 95.4

Manual Integrations  
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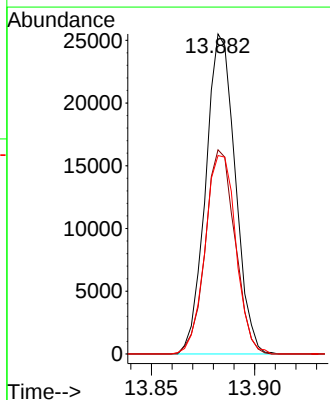
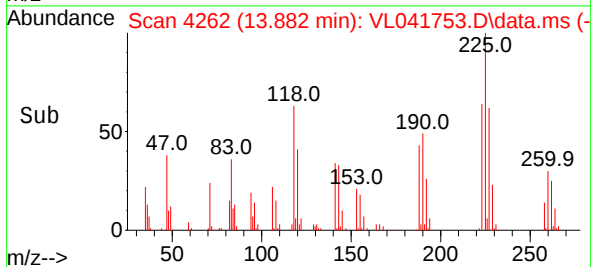
Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024

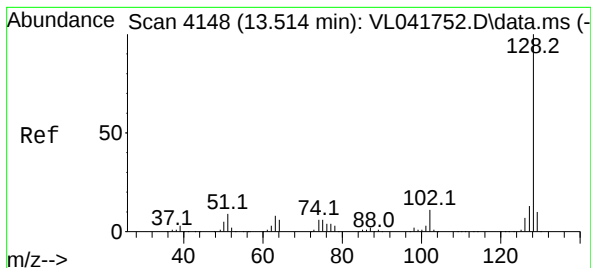


#78  
Hexachloro-1,3-Butadiene  
Concen: 2.224 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. -0.000 min  
Lab File: VL041753.D  
Acq: 16 Dec 2024 14:03



Tgt Ion:225 Resp: 25358  
Ion Ratio Lower Upper  
225 100  
223 64.2 50.5 75.7  
227 64.8 50.3 75.5





#79

Naphthalene

Concen: 2.167 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA\_L

ClientSampleId :

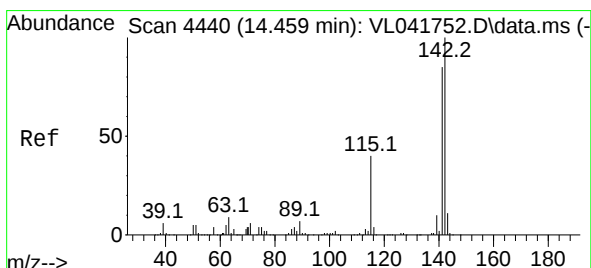
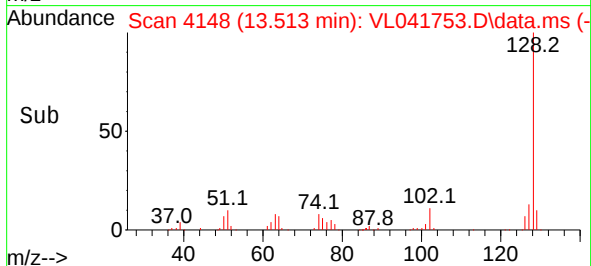
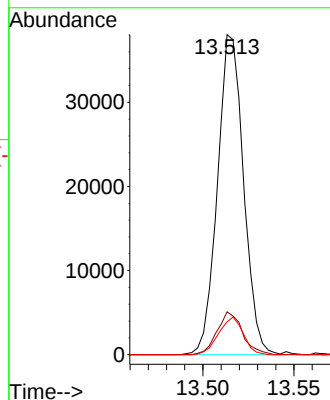
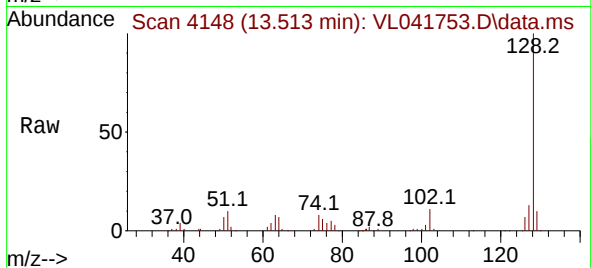
VSTDICC002

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 3785      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 13.4  | 10.7 16.1 |
| 129         | 10.3  | 8.2 12.4  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024  
Supervised By :Mahesh Dadoda 12/20/2024



#80

Naphthalene,2-methyl-

Concen: 0.830 ppbv

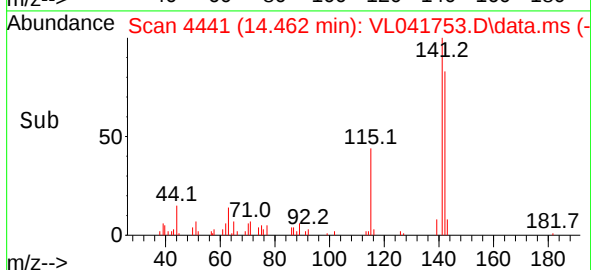
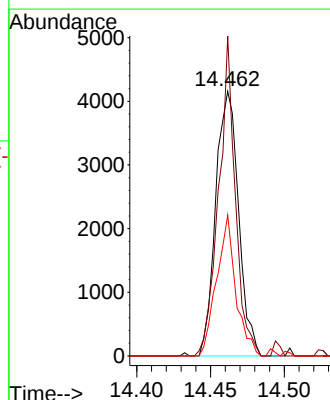
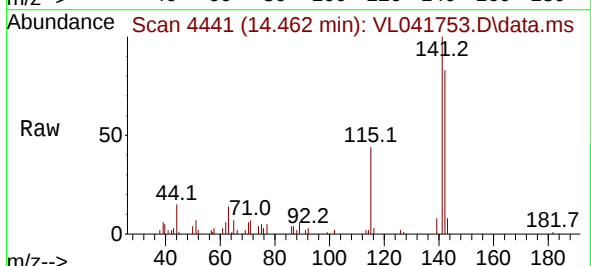
RT: 14.462 min Scan# 4441

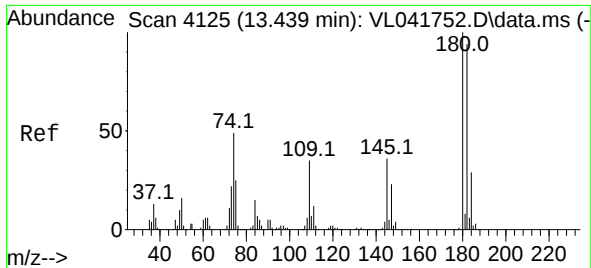
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

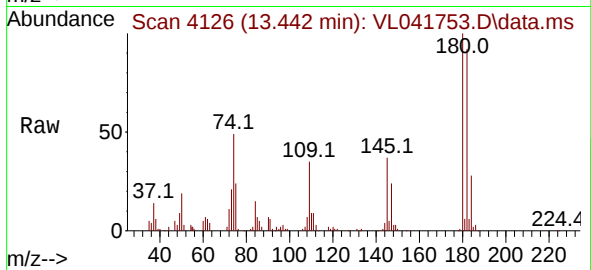
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 4482       |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 90.1  | 68.4 102.6 |
| 115         | 45.4  | 32.5 48.7  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.035 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL041753.D  
 Acq: 16 Dec 2024 14:03

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



Tgt Ion:180 Resp: 19429  
 Ion Ratio Lower Upper  
 180 100  
 182 96.8 77.0 115.6  
 184 31.5 23.8 35.8

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024  
 Supervised By :Mahesh Dadoda 12/20/2024

