

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090523\  
 Data File : VL040655.D  
 Acq On : 5 Sep 2023 20:20  
 Operator : SY/MD  
 Sample : 04261-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/06/2023  
 Supervised By :Mahesh Dadoda 09/06/2023

Quant Time: Sep 06 02:07:40 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023

QLast Update : Wed Aug 16 05:43:50 2023

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 805030   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 2036999  | 10.000 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 11.468 | 117  | 1883316  | 10.000 | ppbv  | -0.01    |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 1511568 10.092 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

|                            |        |     |         |        |        | Qvalue |
|----------------------------|--------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 2.716  | 85  | 79710   | 0.460  | ppbv   | 90     |
| 3) Chlorodifluoromethane   | 2.661  | 51  | 47960m  | 0.363  | ppbv   |        |
| 4) Chloromethane           | 2.800  | 50  | 64776   | 1.256  | ppbv   | 96     |
| 7) Chloroethane            | 3.185  | 64  | 3282    | 0.164  | ppbv # | 73     |
| 9) Propene                 | 2.684  | 41  | 34281   | 0.837  | ppbv   | 93     |
| 11) Trichlorofluoromethane | 3.552  | 101 | 34961   | 0.250  | ppbv   | 85     |
| 13) Ethanol                | 3.230  | 45  | 581401  | 50.865 | ppbv   | 97     |
| 15) Acetone                | 3.452  | 43  | 1899901 | 19.295 | ppbv   | 100    |
| 20) Methylene Chloride     | 3.922  | 84  | 3628474 | 75.407 | ppbv   | 94     |
| 26) Hexane                 | 5.208  | 57  | 2365766 | 26.441 | ppbv # | 41     |
| 29) Chloroform             | 5.269  | 83  | 104567  | 0.738  | ppbv   | 97     |
| 34) 2-Butanone             | 4.780  | 43  | 177537  | 1.728  | ppbv   | 97     |
| 35) Carbon Tetrachloride   | 6.488  | 117 | 14568m  | 0.114  | ppbv   |        |
| 36) Benzene                | 6.362  | 78  | 56861   | 0.351  | ppbv # | 88     |
| 44) 2,2,4-Trimethylpentane | 7.324  | 57  | 42084   | 0.161  | ppbv # | 61     |
| 52) Tetrachloroethene      | 10.600 | 164 | 3022m   | 0.060  | ppbv   |        |
| 53) Toluene                | 9.221  | 91  | 119220  | 0.692  | ppbv   | 99     |
| 59) m/p-Xylene             | 12.343 | 91  | 55234m  | 0.267  | ppbv   |        |
| 60) o-Xylene               | 13.060 | 91  | 21722m  | 0.111  | ppbv   |        |
| 74) 1,2,4-Trimethylbenzene | 16.117 | 105 | 25044m  | 0.108  | ppbv   |        |

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

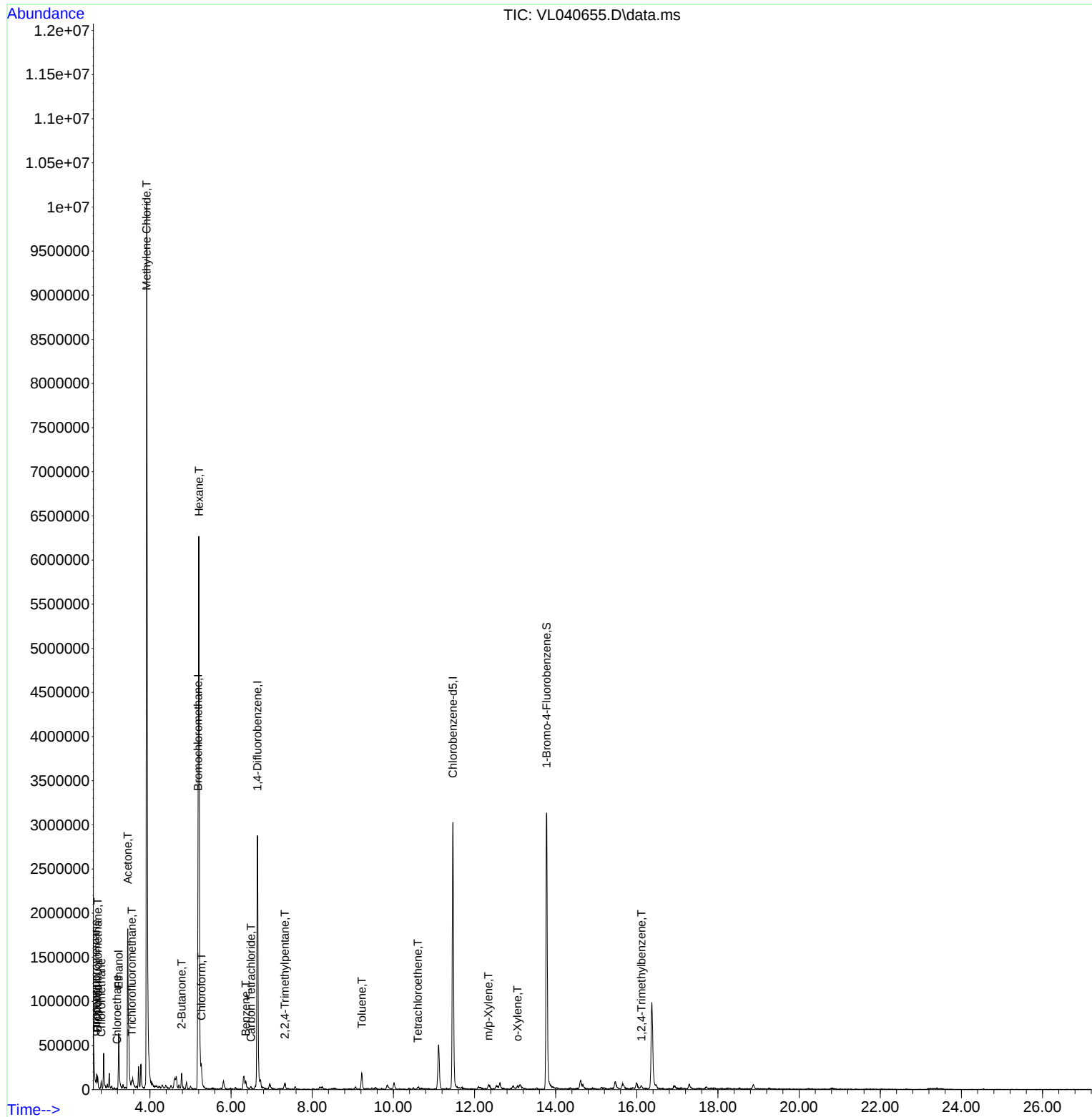
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090523\  
Data File : VL040655.D  
Acq On : 5 Sep 2023 20:20  
Operator : SY/MD  
Sample : 04261-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

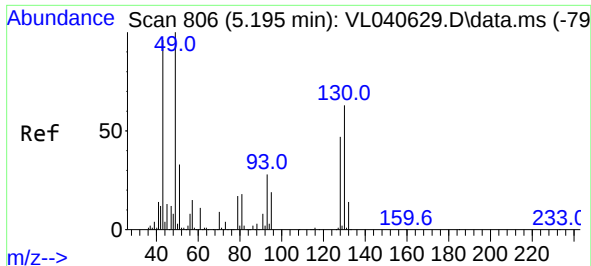
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Quant Time: Sep 06 02:07:40 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081523AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Aug 16 05:43:50 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

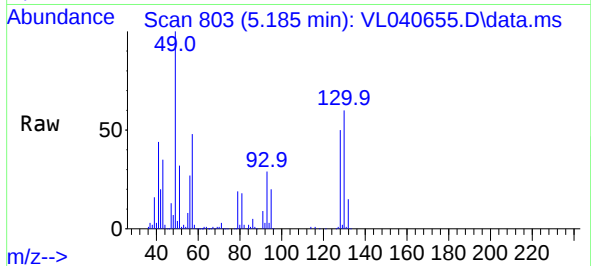
Reviewed By : Semsettin Yesilyurt 09/06/2023  
Supervised By : Mahesh Dadoda 09/06/2023





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 80  
Delta R.T. -0.010 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

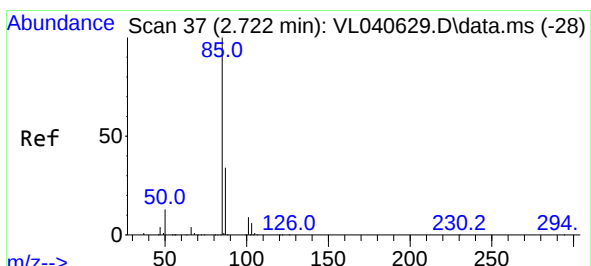
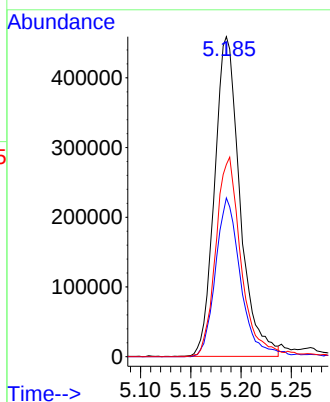
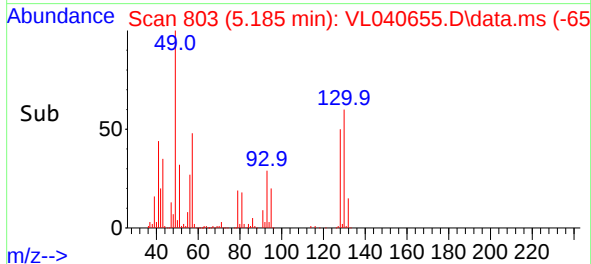
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



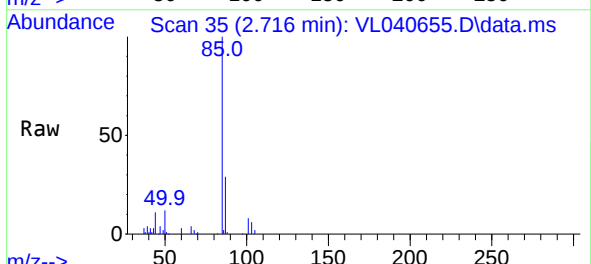
Tgt Ion: 49 Resp: 805030  
Ion Ratio Lower Upper  
49 100  
128 50.3 24.9 74.7  
130 64.2 32.2 96.6

Manual Integrations  
APPROVED

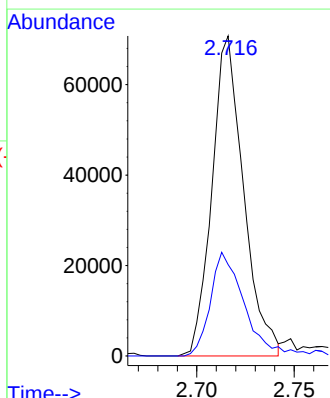
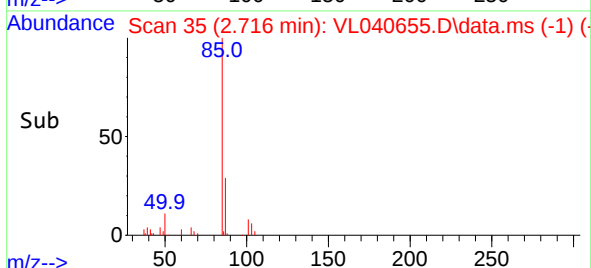
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

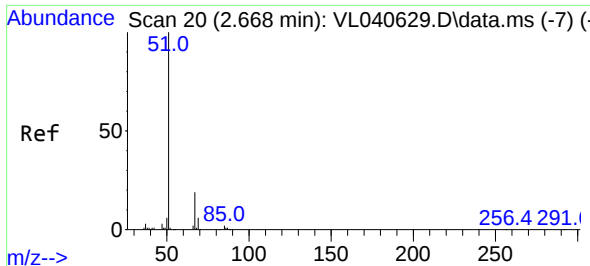


#2  
Dichlorodifluoromethane  
Concen: 0.460 ppbv  
RT: 2.716 min Scan# 35  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



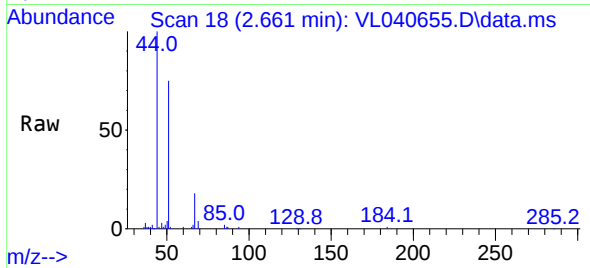
Tgt Ion: 85 Resp: 79710  
Ion Ratio Lower Upper  
85 100  
87 28.6 27.5 41.3





#3  
Chlorodifluoromethane  
Concen: 0.363 ppbv m  
RT: 2.661 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

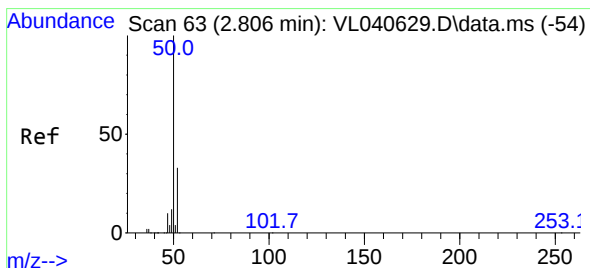
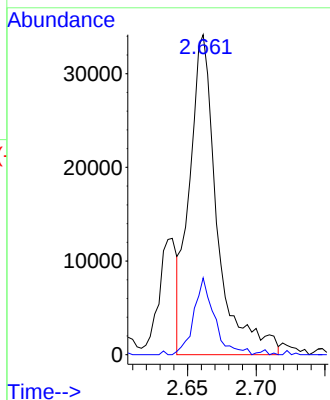
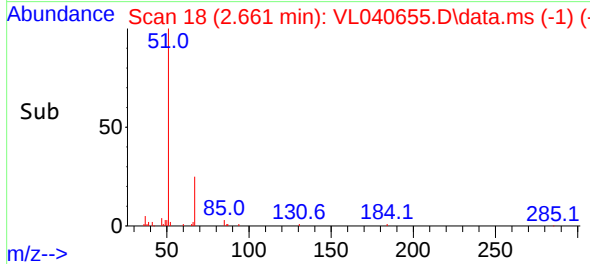
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



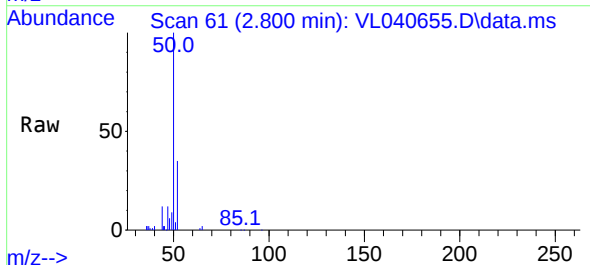
Tgt Ion: 51 Resp: 47960  
Ion Ratio Lower Upper  
51 100  
67 18.6 15.0 22.6

Manual Integrations  
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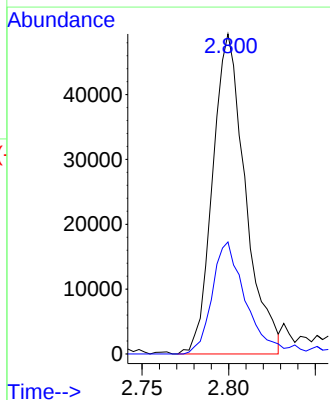
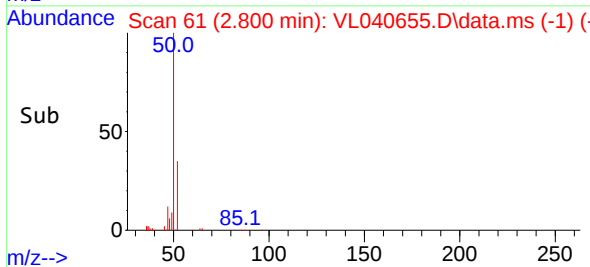
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

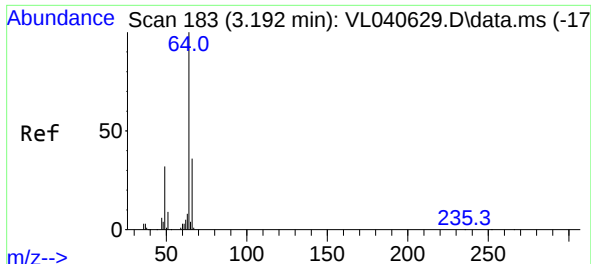


#4  
Chloromethane  
Concen: 1.256 ppbv  
RT: 2.800 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



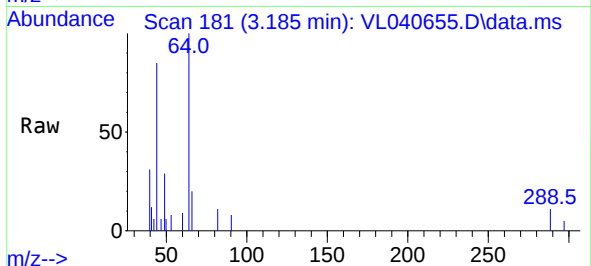
Tgt Ion: 50 Resp: 64776  
Ion Ratio Lower Upper  
50 100  
52 35.0 26.2 39.2





#7  
Chloroethane  
Concen: 0.164 ppbv  
RT: 3.185 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

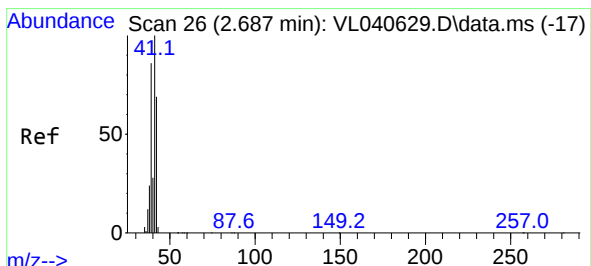
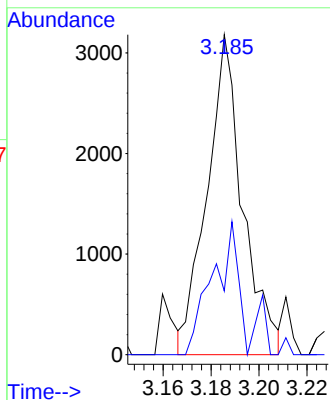
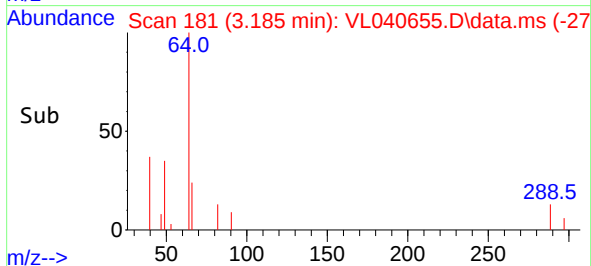
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



Tgt Ion: 64 Resp: 328  
Ion Ratio Lower Upper  
64 100  
66 19.9 28.7 43.1

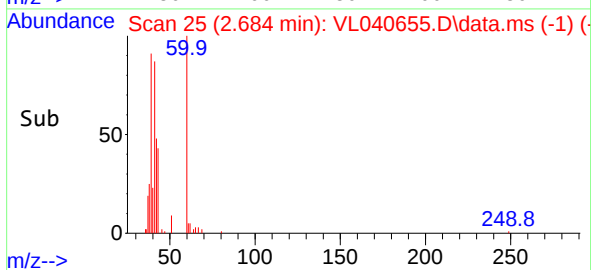
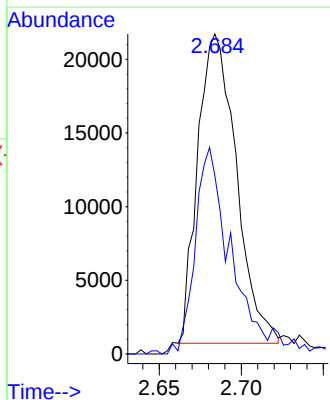
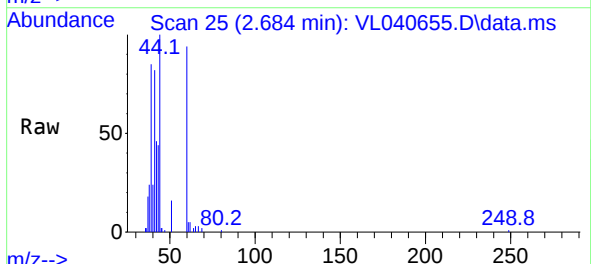
Manual Integrations  
APPROVED

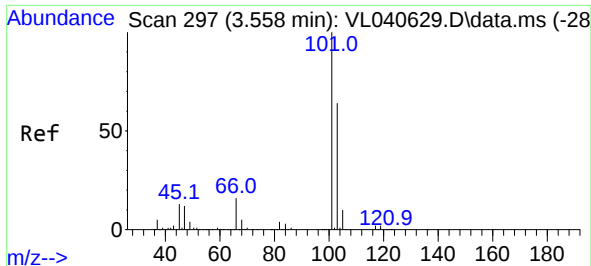
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023



#9  
Propene  
Concen: 0.837 ppbv  
RT: 2.684 min Scan# 25  
Delta R.T. -0.003 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

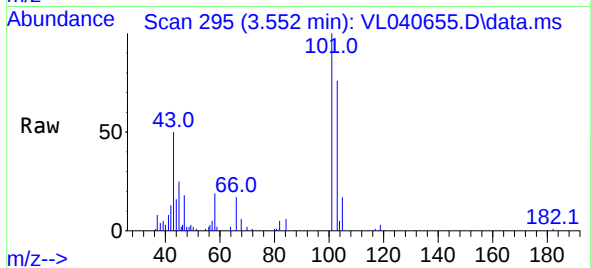
Tgt Ion: 41 Resp: 34281  
Ion Ratio Lower Upper  
41 100  
42 64.8 56.5 84.7





#11  
Trichlorofluoromethane  
Concen: 0.250 ppbv  
RT: 3.552 min Scan# 297  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

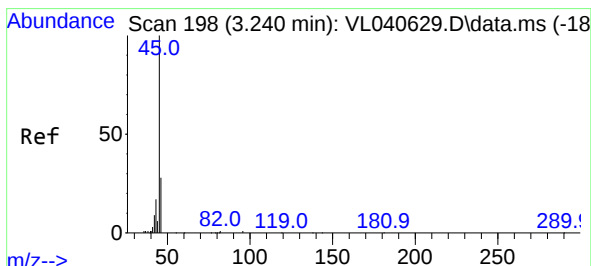
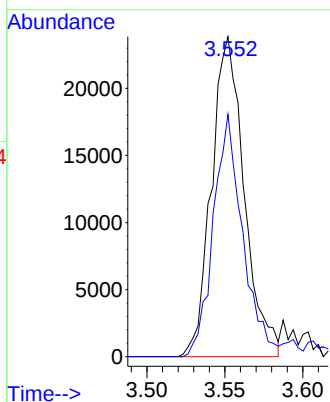
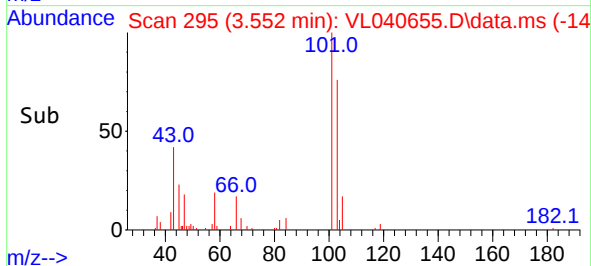
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



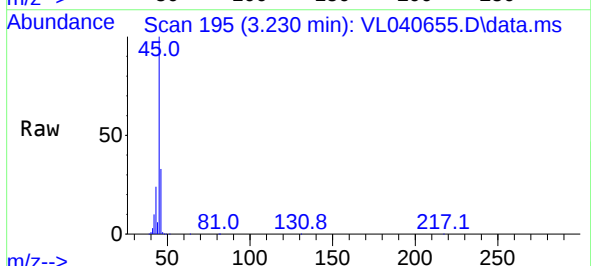
Tgt Ion:101 Resp: 3496  
Ion Ratio Lower Upper  
101 100  
103 75.7 51.1 76.7

Manual Integrations  
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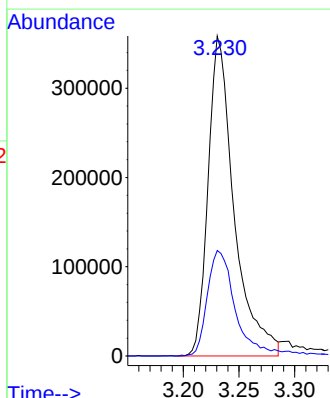
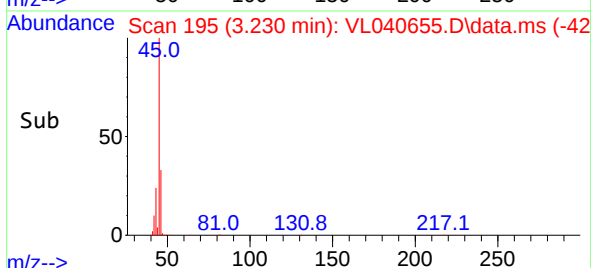
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

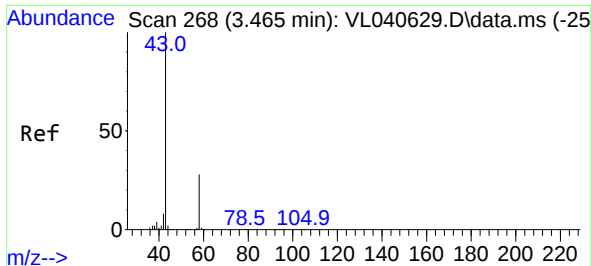


#13  
Ethanol  
Concen: 50.865 ppbv  
RT: 3.230 min Scan# 195  
Delta R.T. -0.010 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



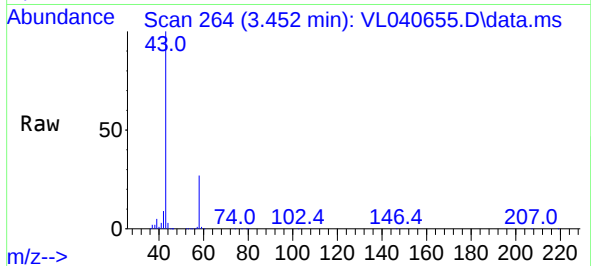
Tgt Ion: 45 Resp: 581401  
Ion Ratio Lower Upper  
45 100  
46 37.3 14.2 56.6





#15  
Acetone  
Concen: 19.295 ppbv  
RT: 3.452 min Scan# 20  
Delta R.T. -0.013 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

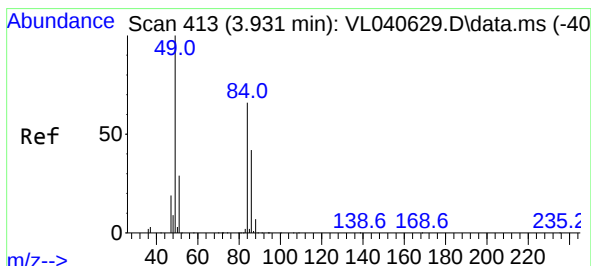
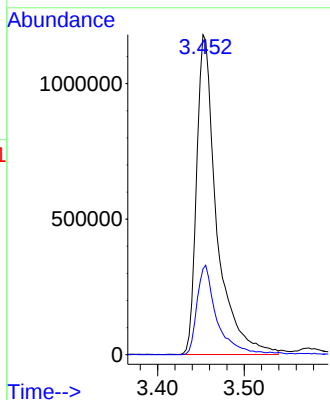
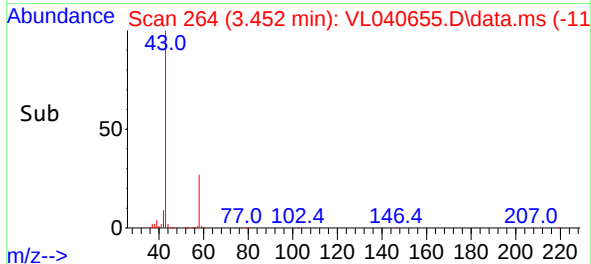
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



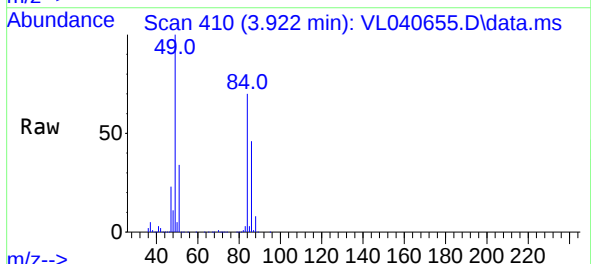
Tgt Ion: 43 Resp: 189990  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6

Manual Integrations  
APPROVED

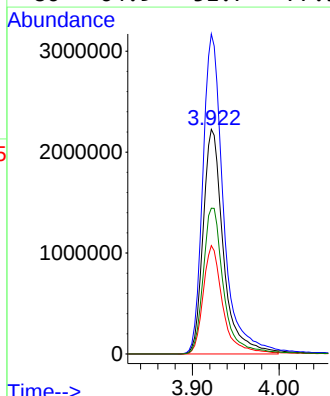
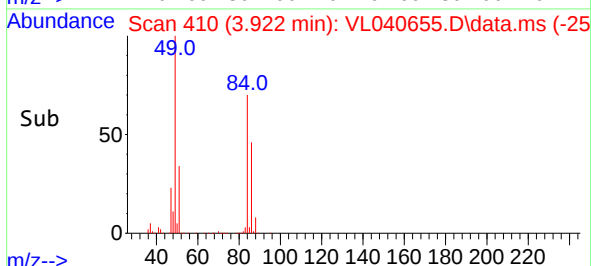
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

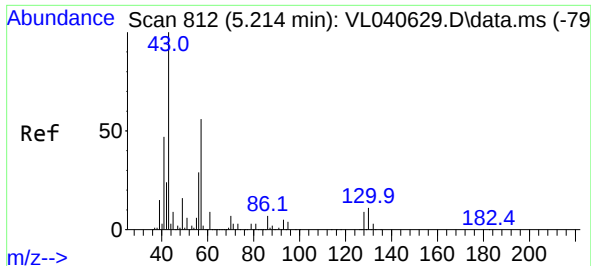


#20  
Methylene Chloride  
Concen: 75.407 ppbv  
RT: 3.922 min Scan# 410  
Delta R.T. -0.010 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



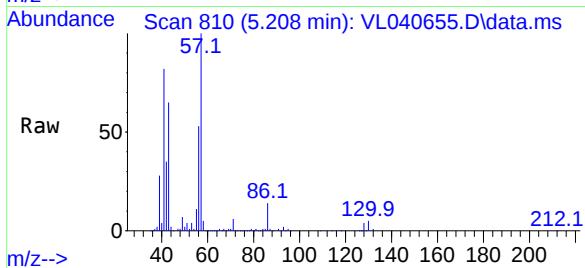
Tgt Ion: 84 Resp: 3628474  
Ion Ratio Lower Upper  
84 100  
49 142.5 122.1 183.1  
51 48.2 35.4 53.2  
86 64.9 51.7 77.5





#26  
Hexane  
Concen: 26.441 ppbv  
RT: 5.208 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

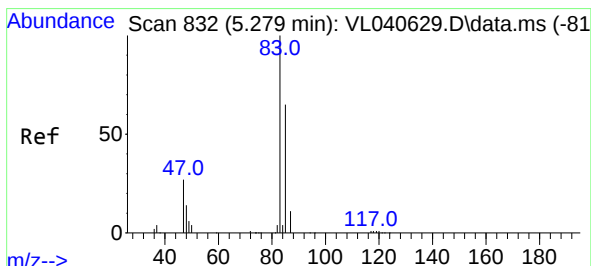
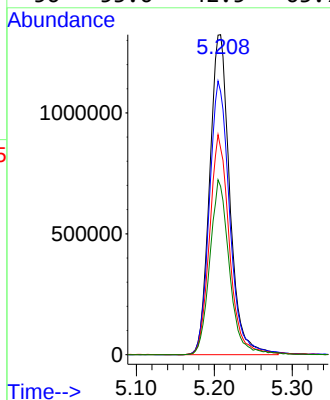
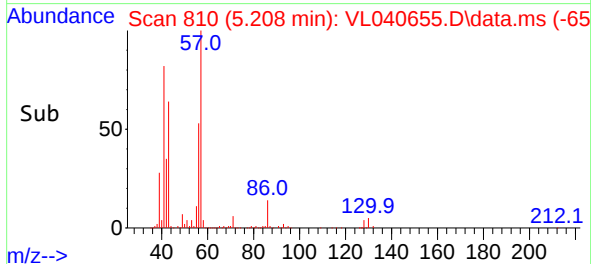
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



Tgt Ion: 57 Resp: 236576  
Ion Ratio Lower Upper  
57 100  
41 87.4 69.3 103.9  
43 67.8 177.9 266.9  
56 53.6 42.5 63.7

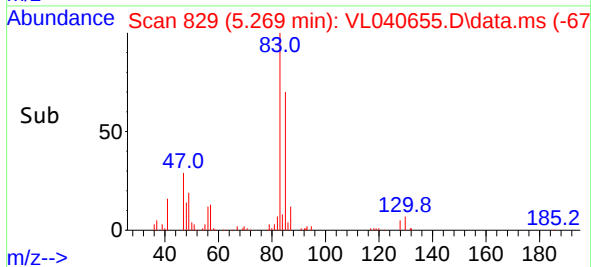
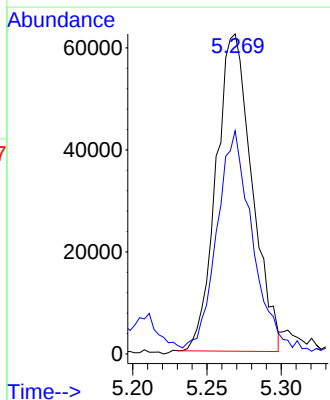
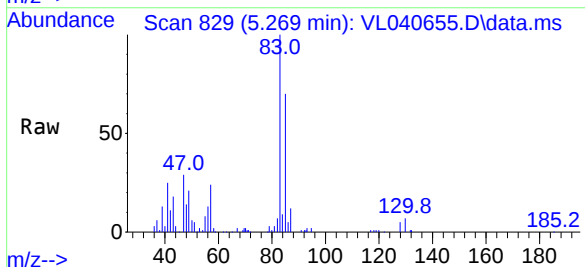
Manual Integrations  
APPROVED

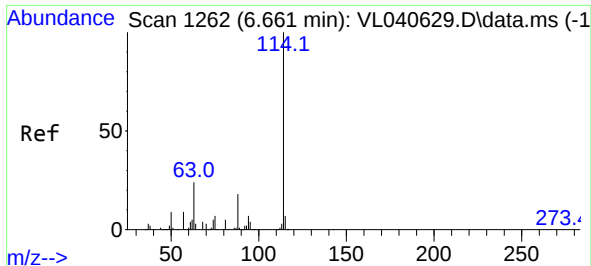
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023



#29  
Chloroform  
Concen: 0.738 ppbv  
RT: 5.269 min Scan# 829  
Delta R.T. -0.010 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

Tgt Ion: 83 Resp: 104567  
Ion Ratio Lower Upper  
83 100  
85 67.9 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 114

Delta R.T. -0.013 min

Lab File: VL040655.D

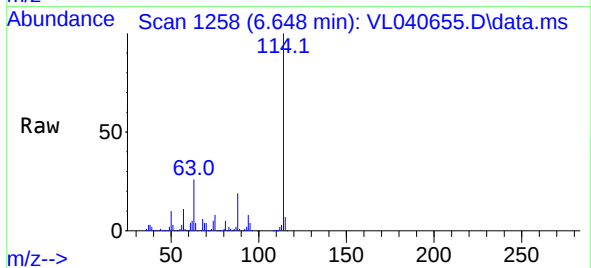
Acq: 5 Sep 2023 20:20

Instrument :

MSVOA\_L

ClientSampleId :

OA1



Tgt Ion:114 Resp: 203699

Ion Ratio Lower Upper

114 100

63 26.6 20.2 30.2

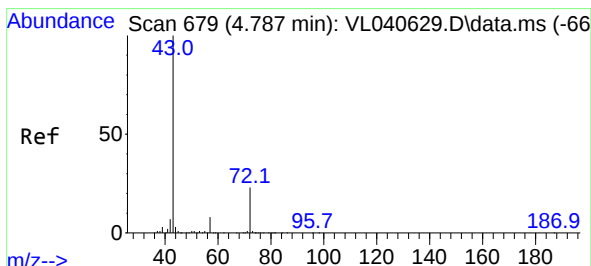
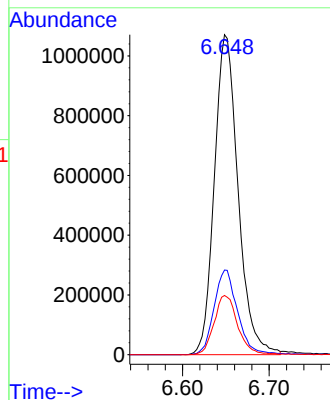
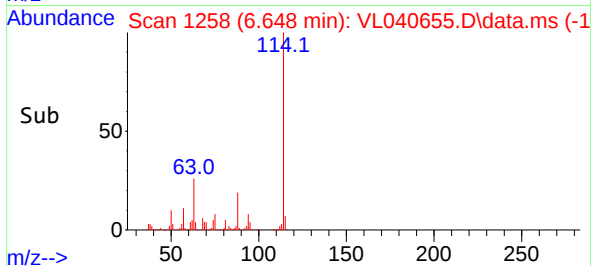
88 18.6 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/06/2023

Supervised By :Mahesh Dadoda 09/06/2023



#34

2-Butanone

Concen: 1.728 ppbv

RT: 4.780 min Scan# 677

Delta R.T. -0.006 min

Lab File: VL040655.D

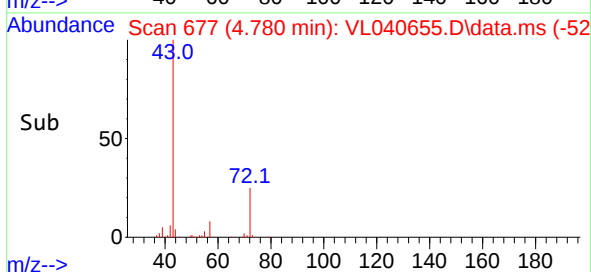
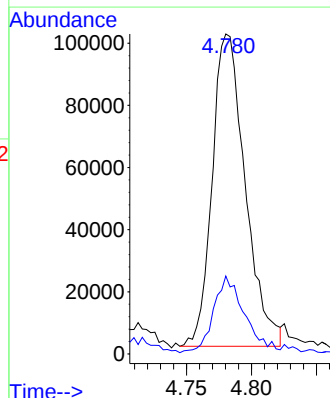
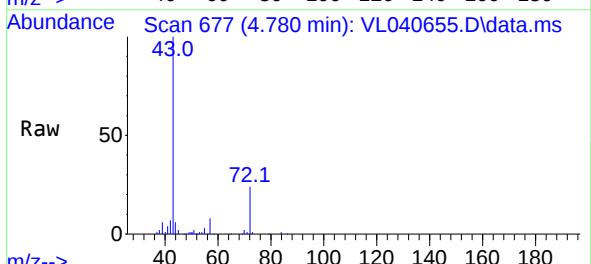
Acq: 5 Sep 2023 20:20

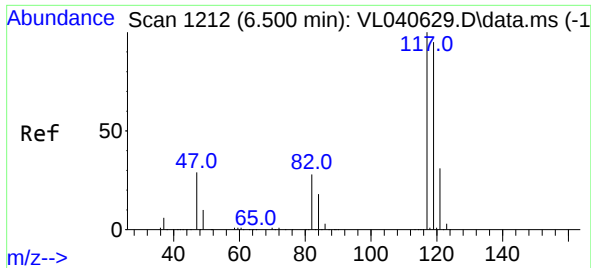
Tgt Ion: 43 Resp: 177537

Ion Ratio Lower Upper

43 100

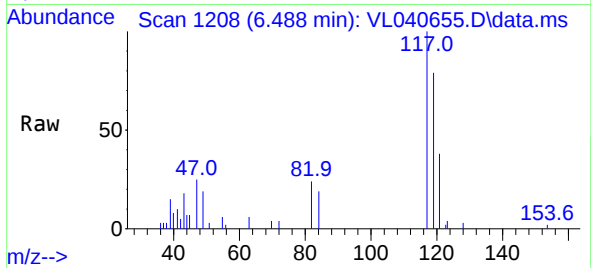
72 25.4 19.2 28.8





#35  
Carbon Tetrachloride  
Concen: 0.114 ppbv m  
RT: 6.488 min Scan# 1169  
Delta R.T. -0.013 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

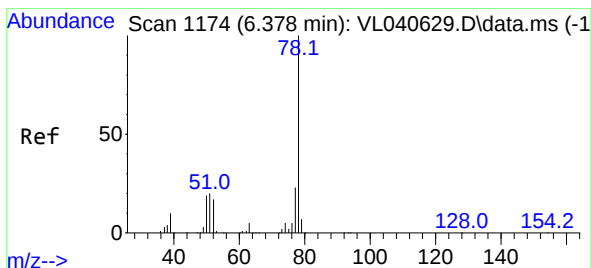
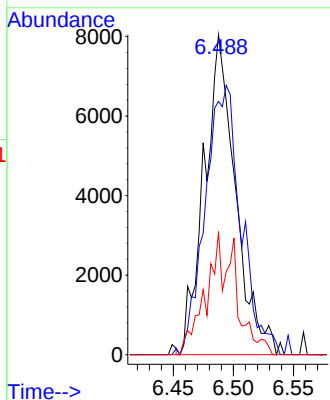
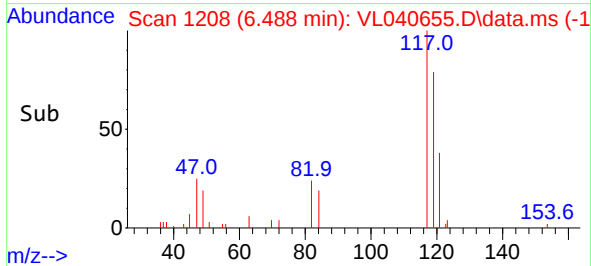
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



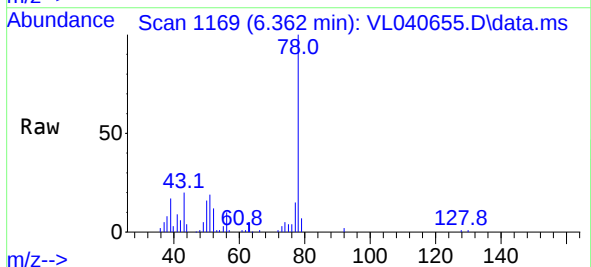
Tgt Ion: 117 Resp: 1456  
Ion Ratio Lower Upper  
117 100  
119 79.2 75.6 113.4  
121 38.4 24.9 37.3

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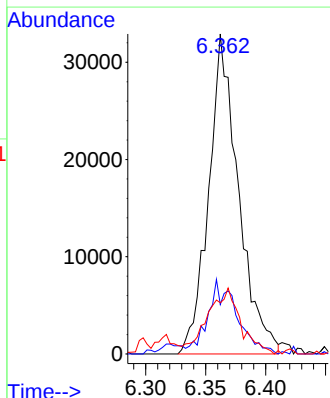
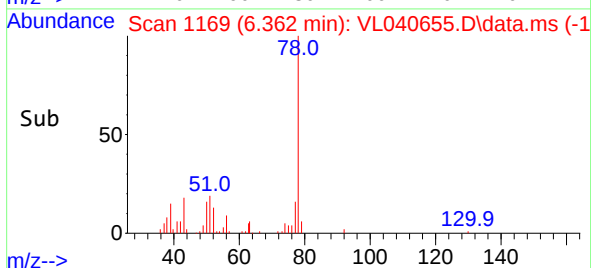
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

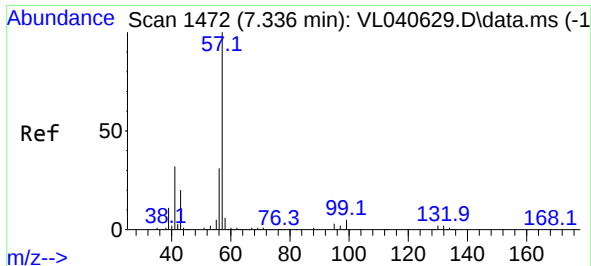


#36  
Benzene  
Concen: 0.351 ppbv  
RT: 6.362 min Scan# 1169  
Delta R.T. -0.016 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



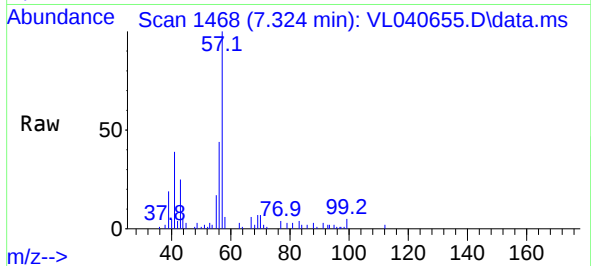
Tgt Ion: 78 Resp: 56861  
Ion Ratio Lower Upper  
78 100  
77 15.5 18.2 27.2#  
50 14.9 15.0 22.6#





#44  
2,2,4-Trimethylpentane  
Concen: 0.161 ppbv  
RT: 7.324 min Scan# 1472  
Delta R.T. -0.013 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

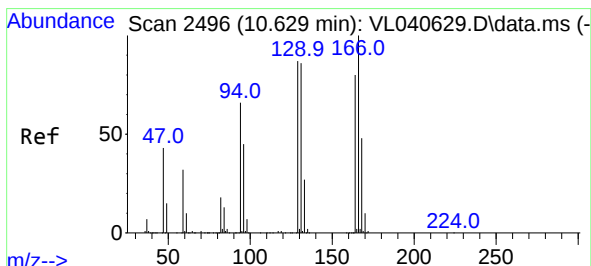
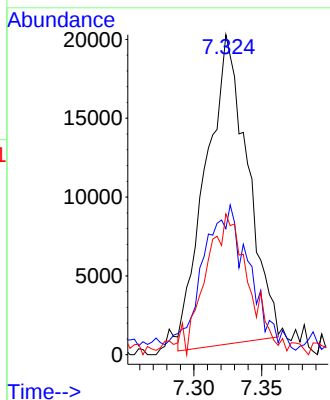
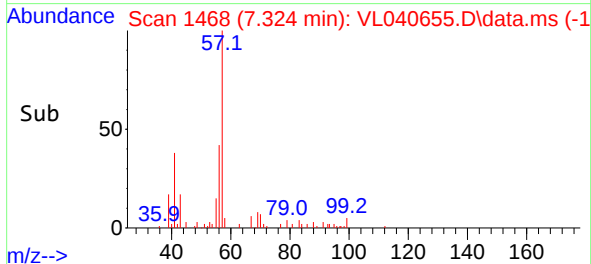
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



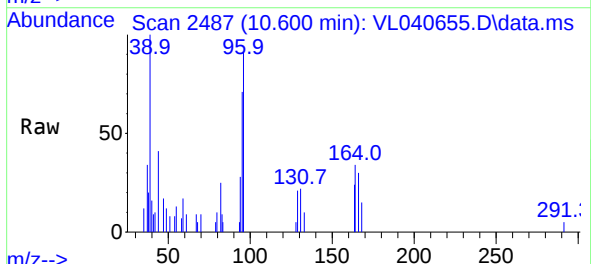
Tgt Ion: 57 Resp: 42084  
Ion Ratio Lower Upper  
57 100  
41 56.3 26.2 39.4#  
56 50.8 24.7 37.1#

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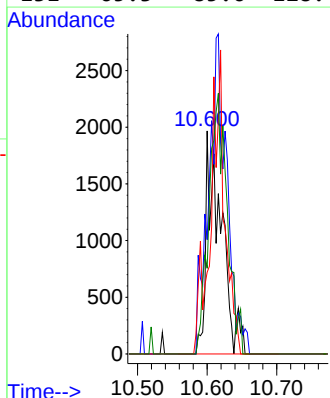
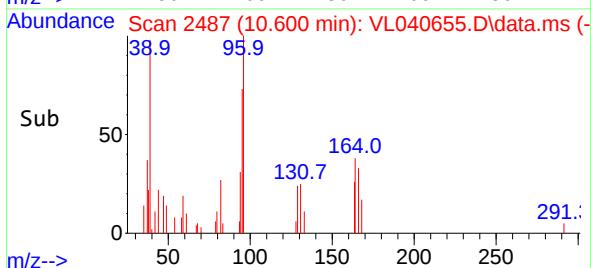
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

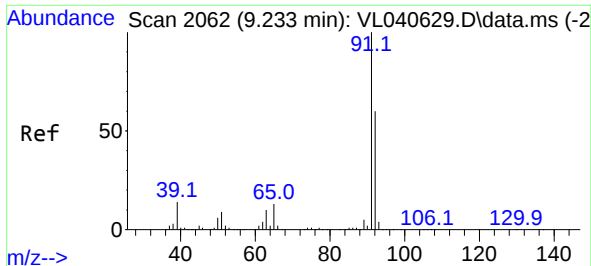


#52  
Tetrachloroethene  
Concen: 0.060 ppbv m  
RT: 10.600 min Scan# 2487  
Delta R.T. -0.029 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



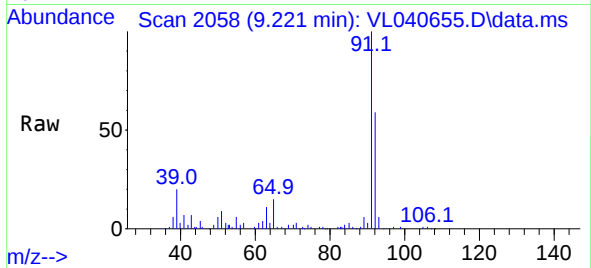
Tgt Ion:164 Resp: 3022  
Ion Ratio Lower Upper  
164 100  
166 87.2 99.5 149.3#  
129 62.4 86.9 130.3#  
131 65.3 85.6 128.4#





#53  
Toluene  
Concen: 0.692 ppbv  
RT: 9.221 min Scan# 2062  
Delta R.T. -0.013 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

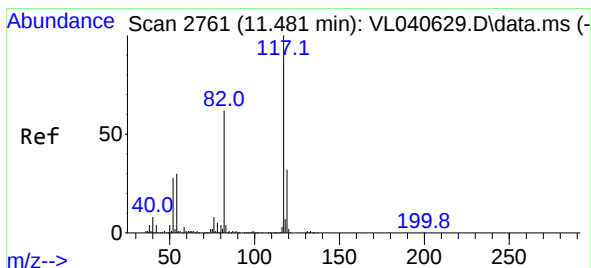
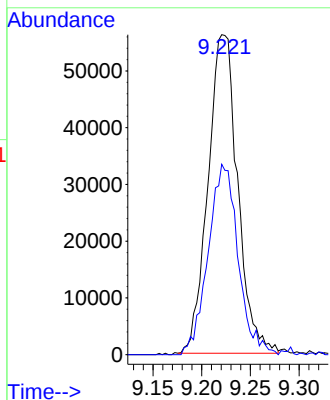
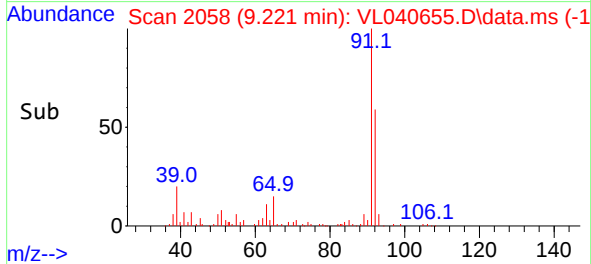
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



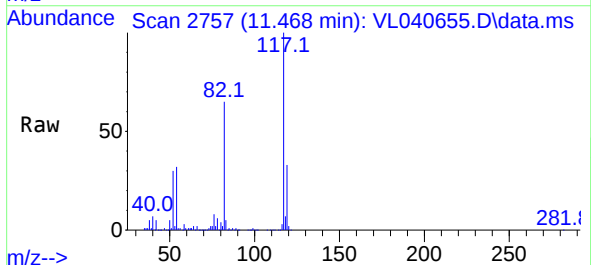
Tgt Ion: 91 Resp: 119220  
Ion Ratio Lower Upper  
91 100  
92 60.8 48.0 72.0

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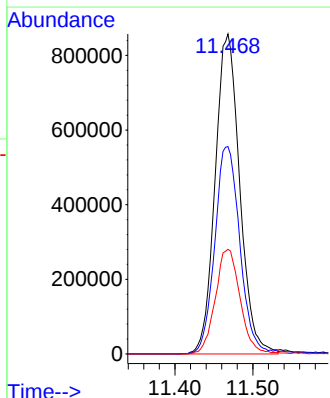
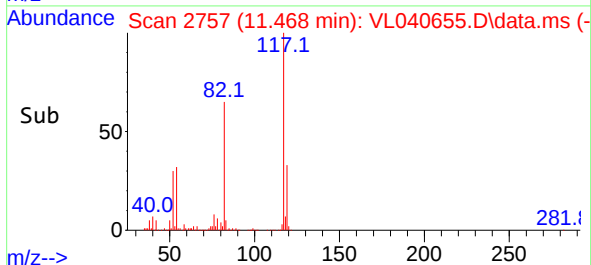
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023

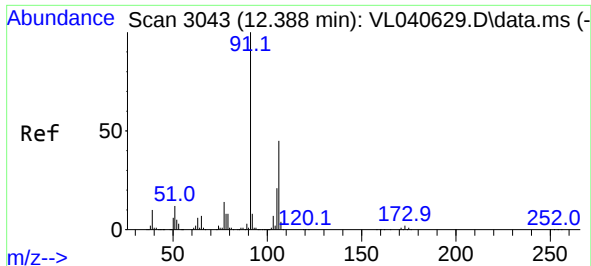


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.468 min Scan# 2757  
Delta R.T. -0.013 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20



Tgt Ion:117 Resp: 1883316  
Ion Ratio Lower Upper  
117 100  
82 67.1 49.5 74.3  
119 33.2 24.5 36.7





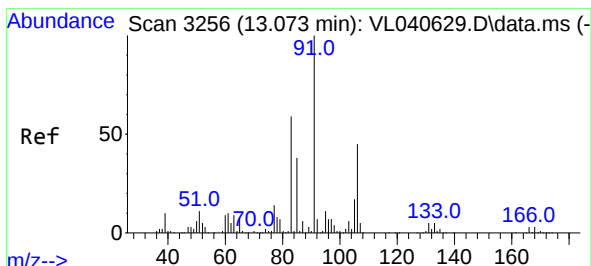
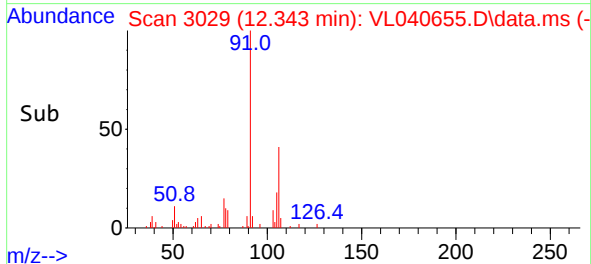
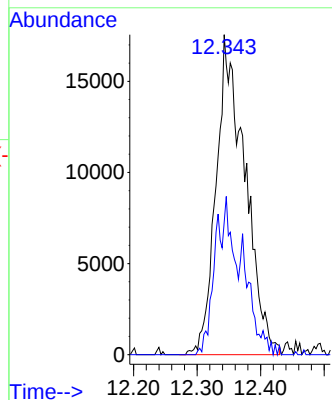
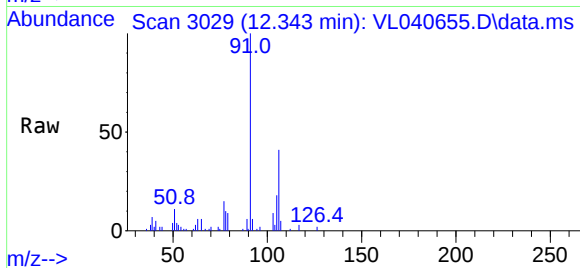
#59  
m/p-Xylene  
Concen: 0.267 ppbv m  
RT: 12.343 min Scan# 3043  
Delta R.T. -0.045 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 91 Resp: 55234  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.3 52.9

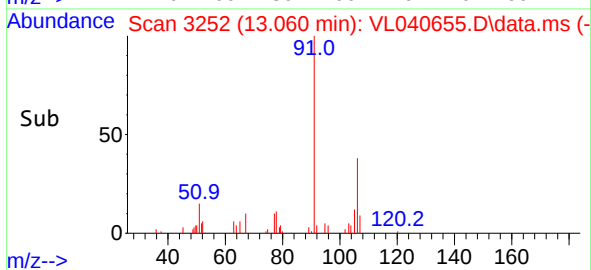
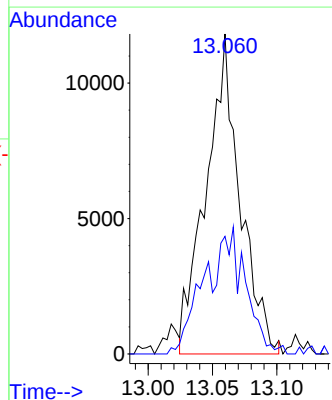
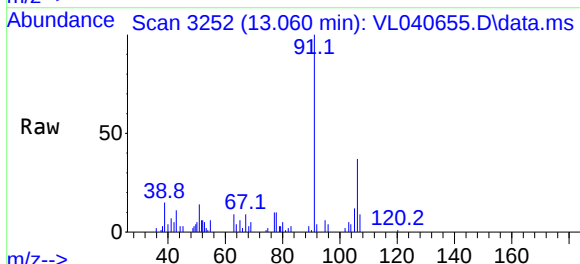
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APPROVED

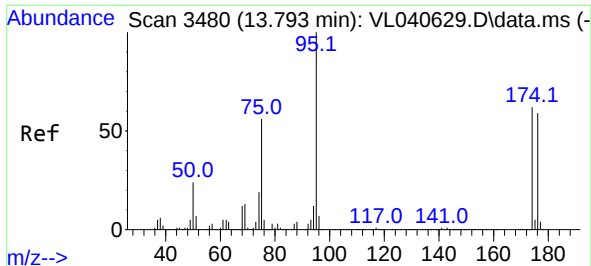
Reviewed By :Semsettin Yesilyurt 09/06/2023  
Supervised By :Mahesh Dadoda 09/06/2023



#60  
o-Xylene  
Concen: 0.111 ppbv m  
RT: 13.060 min Scan# 3252  
Delta R.T. -0.013 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

Tgt Ion: 91 Resp: 21722  
Ion Ratio Lower Upper  
91 100  
106 47.1 22.5 67.5





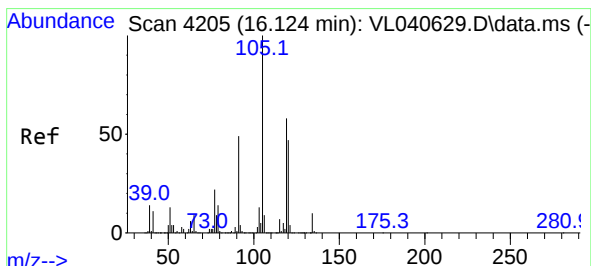
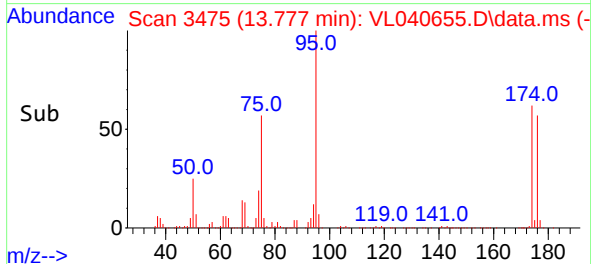
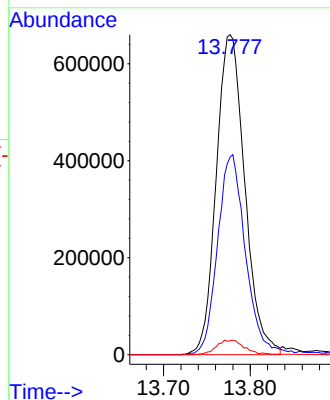
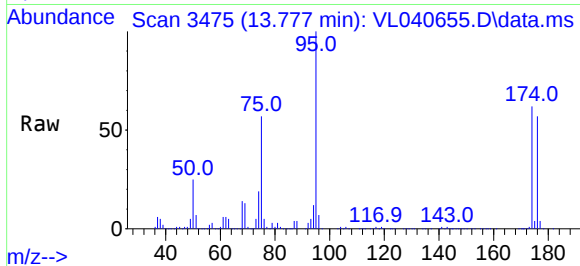
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.092 ppbv  
RT: 13.777 min Scan# 34  
Delta R.T. -0.016 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 95 Resp: 151156  
Ion Ratio Lower Upper  
95 100  
174 61.9 49.1 73.7  
175 4.6 3.7 5.5

Manual Integrations  
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#74  
1,2,4-Trimethylbenzene  
Concen: 0.108 ppbv m  
RT: 16.117 min Scan# 4203  
Delta R.T. -0.006 min  
Lab File: VL040655.D  
Acq: 5 Sep 2023 20:20

Tgt Ion:105 Resp: 25044  
Ion Ratio Lower Upper  
105 100  
120 27.7 37.7 56.5#  
91 10.2 41.2 61.8#  
77 13.8 18.3 27.5#

