

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111423\  
 Data File : VL040854.D  
 Acq On : 14 Nov 2023 17:15  
 Operator : SY/MD  
 Sample : 05365-01DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1DL

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/17/2023  
 Supervised By :Semsettin Yesilyurt 11/17/2023

Quant Time: Nov 14 20:08:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111323AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Mon Nov 13 15:42:46 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.192  | 49    | 1156142  | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 6.642  | 114   | 3065800  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.439 | 117   | 2766509  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.744 | 95    | 2091538  | 9.656    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 96.600%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 7) Chloroethane             | 3.211  | 64    | 42288    | 1.850    | ppbv   | 93       |
| 18) 1,1-Dichloroethene      | 3.893  | 96    | 12628m   | 0.221    | ppbv   |          |
| 20) Methylene Chloride      | 3.944  | 84    | 80809    | 1.590    | ppbv   | 92       |
| 29) Chloroform              | 5.272  | 83    | 16838752 | 88.047   | ppbv # | 72       |
| 34) 2-Butanone              | 4.799  | 43    | 224379   | 1.437    | ppbv   | 99       |
| 35) Carbon Tetrachloride    | 6.487  | 117   | 64198    | 0.341    | ppbv   | 93       |
| 52) Tetrachloroethene       | 10.590 | 164   | 322536   | 3.849    | ppbv   | 98       |
| -----                       |        |       |          |          |        |          |

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

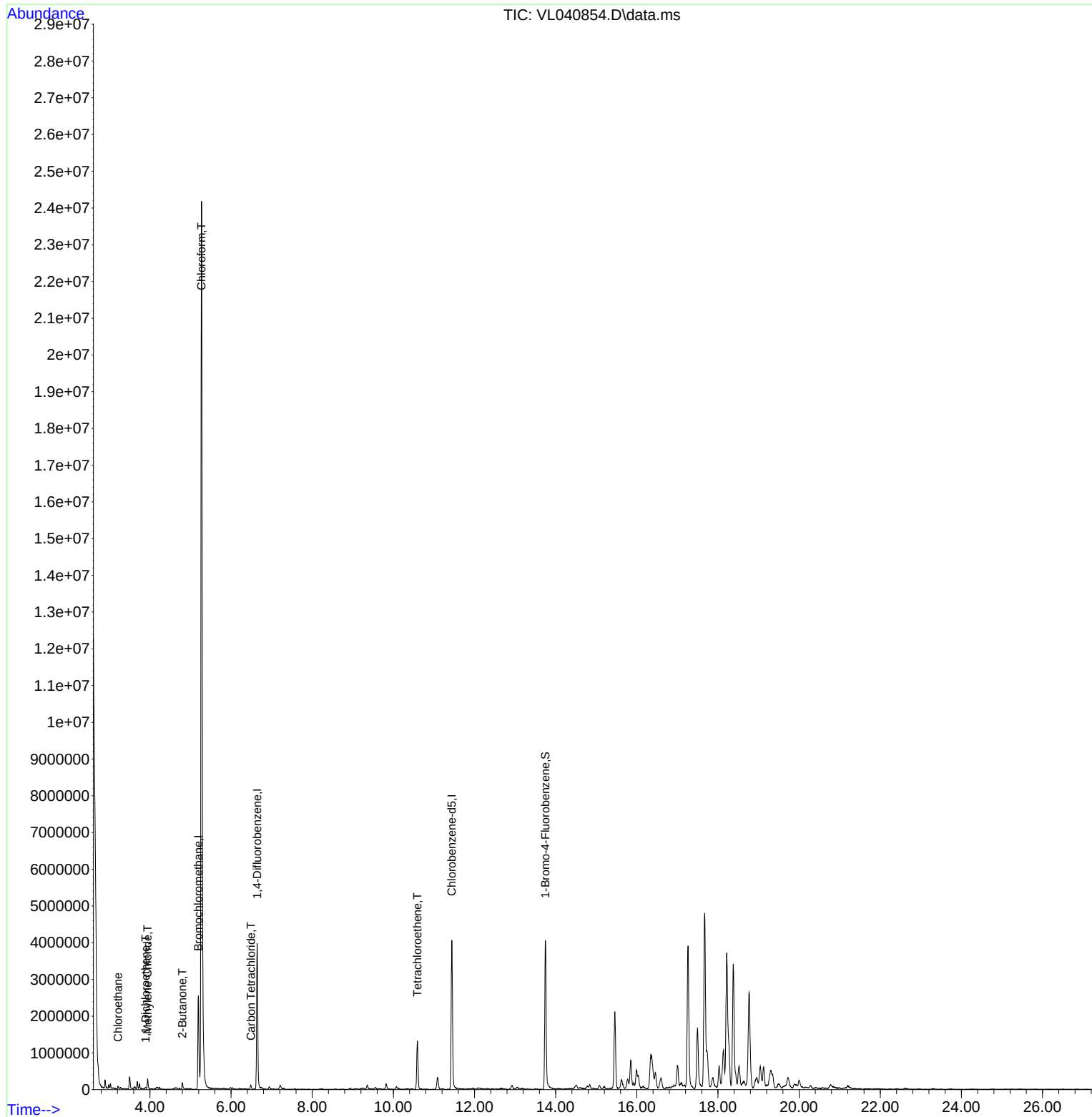
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111423\  
Data File : VL040854.D  
Acq On : 14 Nov 2023 17:15  
Operator : SY/MD  
Sample : 05365-01DL 20X  
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ALS Vial : 1 Sample Multiplier: 1

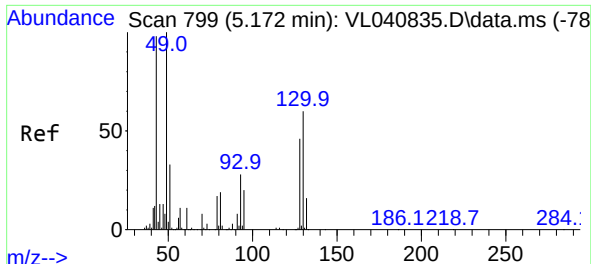
Instrument :  
MSVOA\_L  
ClientSampleId :  
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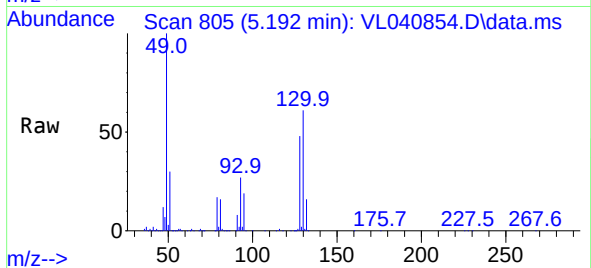
Quant Time: Nov 14 20:08:53 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111323AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Mon Nov 13 15:42:46 2023  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 805  
Delta R.T. 0.020 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15

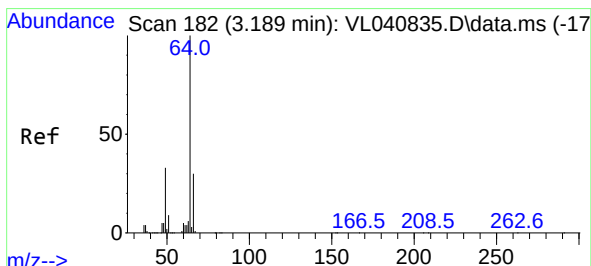
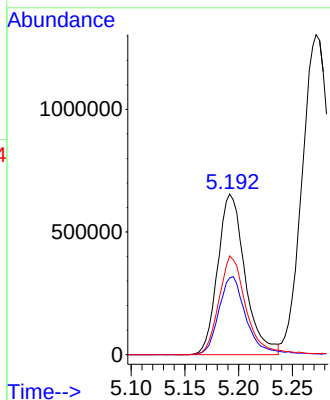
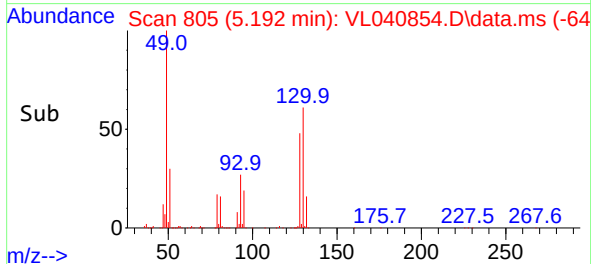
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



Tgt Ion: 49 Resp: 115614  
Ion Ratio Lower Upper  
49 100  
128 50.3 23.8 71.2  
130 62.3 30.9 92.8

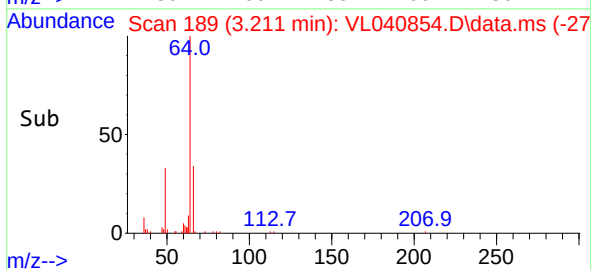
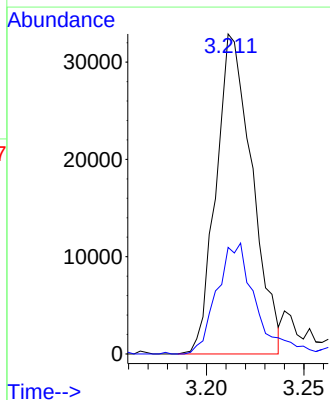
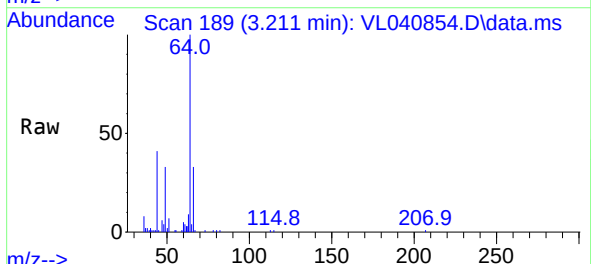
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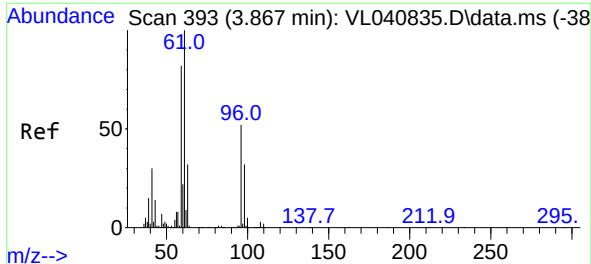
Reviewed By :Mahesh Dadoda 11/17/2023  
Supervised By :Semsettin Yesilyurt 11/17/2023



#7  
Chloroethane  
Concen: 1.850 ppbv  
RT: 3.211 min Scan# 189  
Delta R.T. 0.022 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15

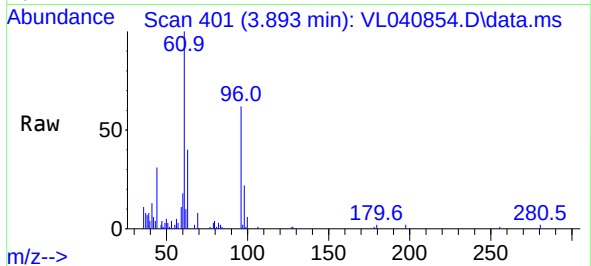
Tgt Ion: 64 Resp: 42288  
Ion Ratio Lower Upper  
64 100  
66 33.3 23.8 35.6





#18  
1,1-Dichloroethene  
Concen: 0.221 ppbv m  
RT: 3.893 min Scan# 401  
Delta R.T. 0.026 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15

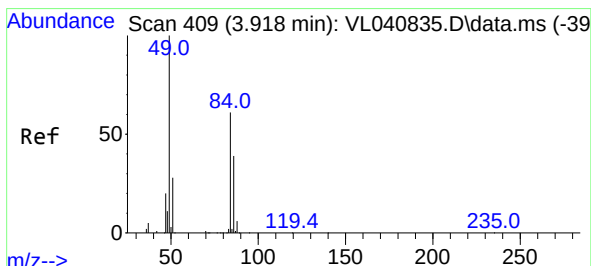
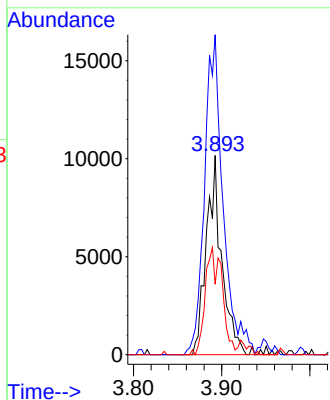
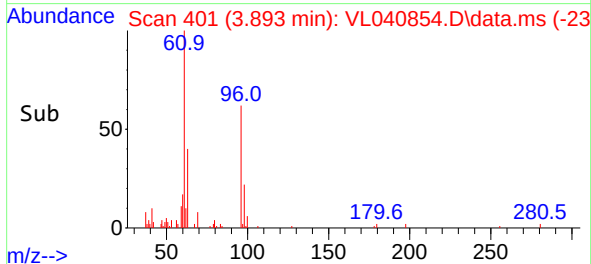
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



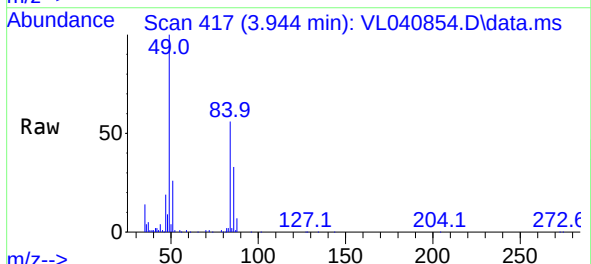
Tgt Ion: 96 Resp: 12628  
Ion Ratio Lower Upper  
96 100  
61 160.7 152.6 228.8  
98 35.3 49.2 73.8

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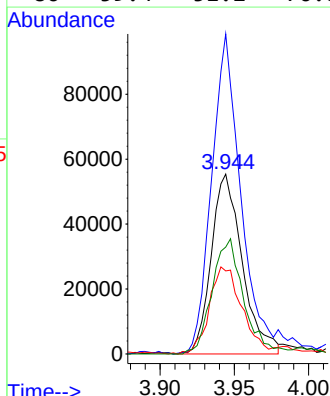
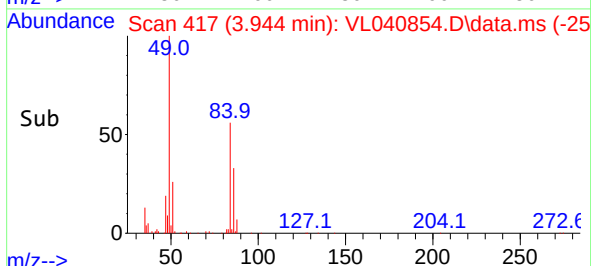
Reviewed By :Mahesh Dadoda 11/17/2023  
Supervised By :Semsettin Yesilyurt 11/17/2023

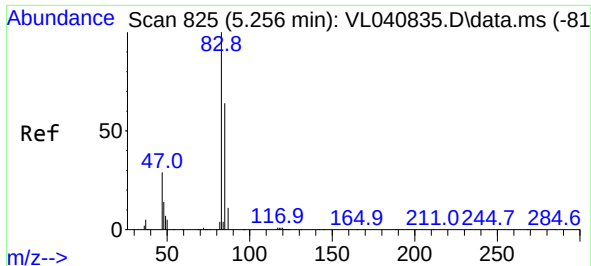


#20  
Methylene Chloride  
Concen: 1.590 ppbv  
RT: 3.944 min Scan# 417  
Delta R.T. 0.026 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15



Tgt Ion: 84 Resp: 80809  
Ion Ratio Lower Upper  
84 100  
49 177.5 131.0 196.4  
51 45.6 36.9 55.3  
86 59.4 51.2 76.8





#29

Chloroform

Concen: 88.047 ppbv

RT: 5.272 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL040854.D

Acq: 14 Nov 2023 17:15

Instrument :

MSVOA\_L

ClientSampleId :

SV1DL

Tgt Ion: 83 Resp:1683875

Ion Ratio Lower Upper

83 100

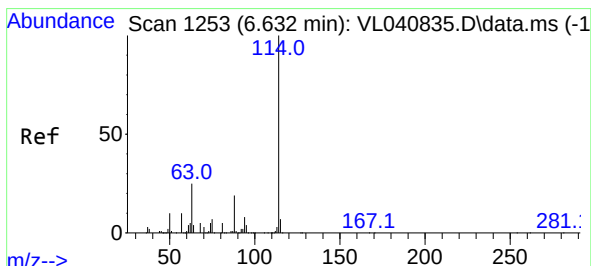
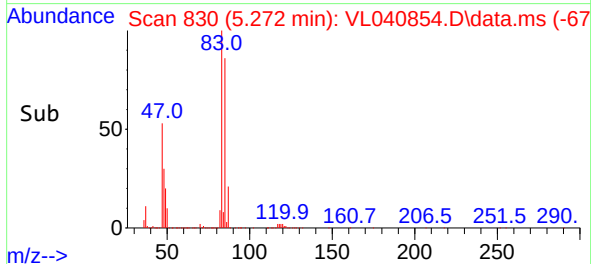
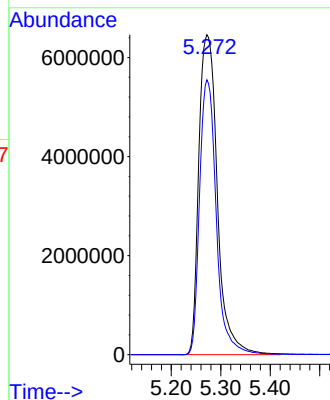
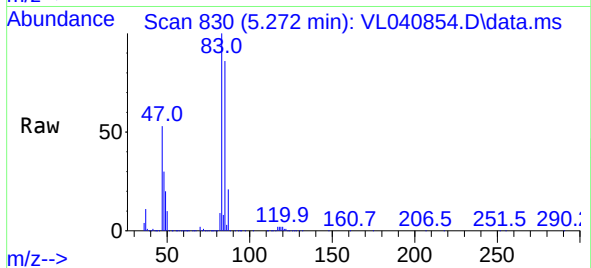
85 85.9 51.4 77.0

Manual Integrations

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Supervised By :Semsettin Yesilyurt 11/17/2023



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. 0.010 min

Lab File: VL040854.D

Acq: 14 Nov 2023 17:15

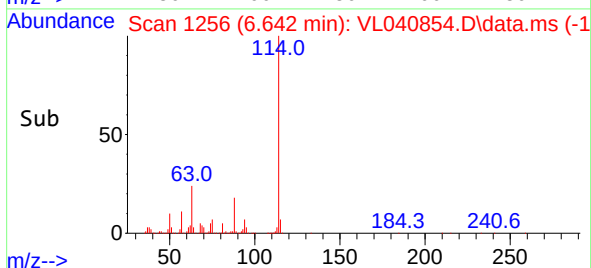
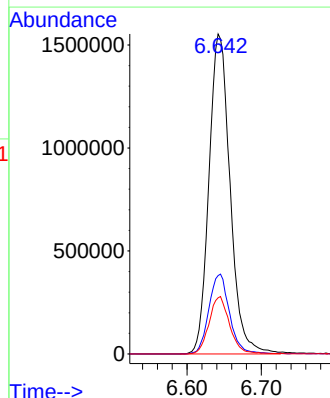
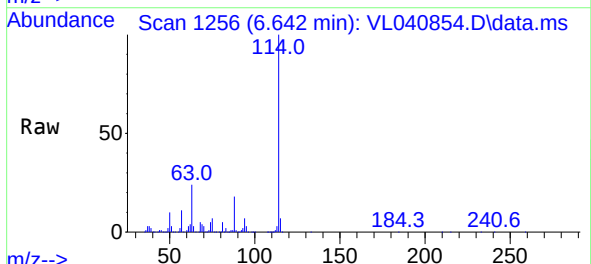
Tgt Ion:114 Resp: 3065800

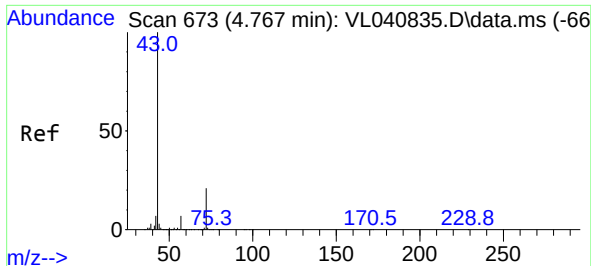
Ion Ratio Lower Upper

114 100

63 24.6 20.9 31.3

88 17.6 14.3 21.5





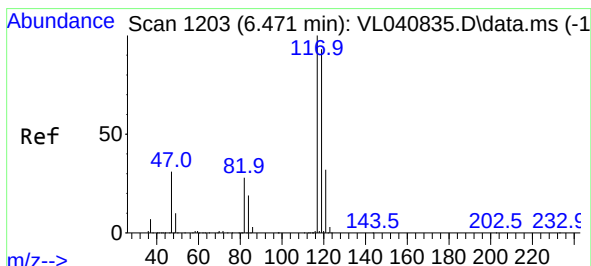
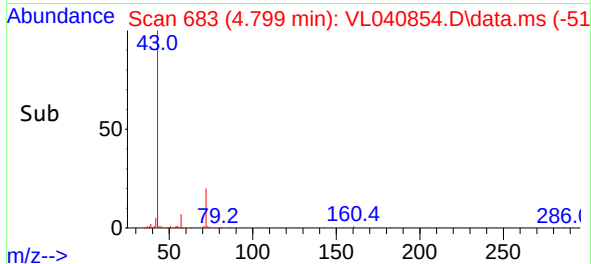
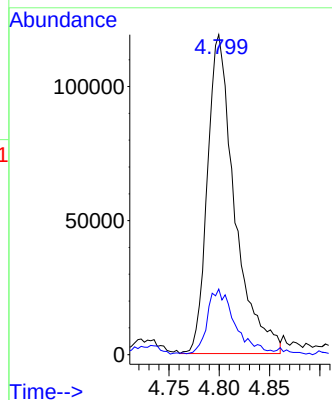
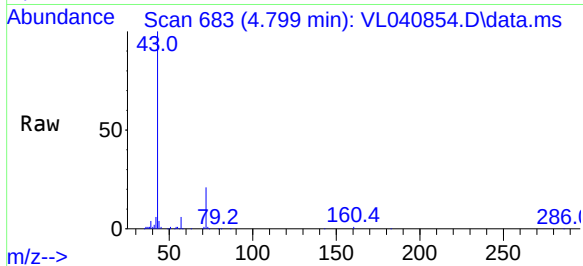
#34  
2-Butanone  
Concen: 1.437 ppbv  
RT: 4.799 min Scan# 61  
Delta R.T. 0.032 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL

Tgt Ion: 43 Resp: 224379  
Ion Ratio Lower Upper  
43 100  
72 21.0 17.2 25.8

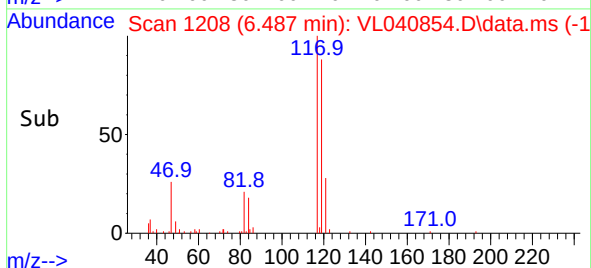
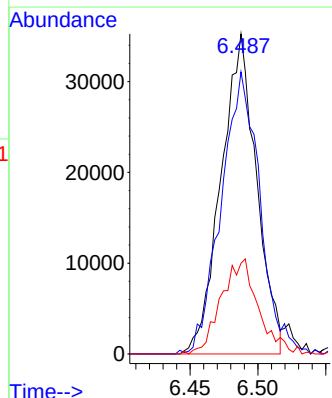
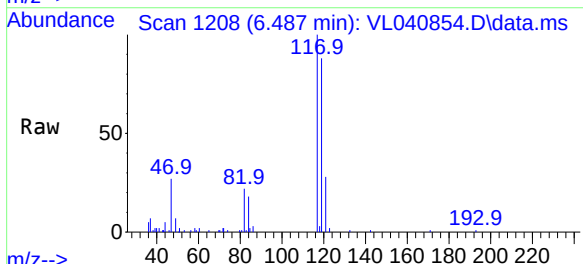
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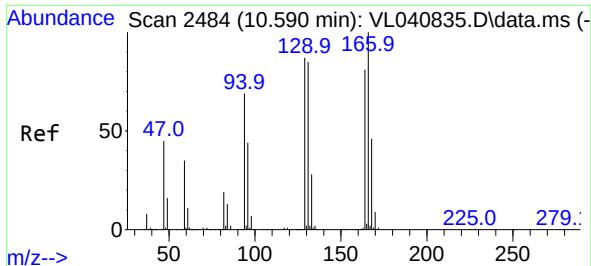
Reviewed By :Mahesh Dadoda 11/17/2023  
Supervised By :Semsettin Yesilyurt 11/17/2023



#35  
Carbon Tetrachloride  
Concen: 0.341 ppbv  
RT: 6.487 min Scan# 1208  
Delta R.T. 0.016 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15

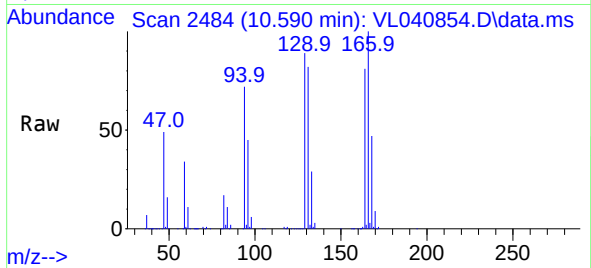
Tgt Ion:117 Resp: 64198  
Ion Ratio Lower Upper  
117 100  
119 87.0 74.7 112.1  
121 28.3 25.5 38.3





#52  
Tetrachloroethene  
Concen: 3.849 ppbv  
RT: 10.590 min Scan# 2484  
Delta R.T. -0.000 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15

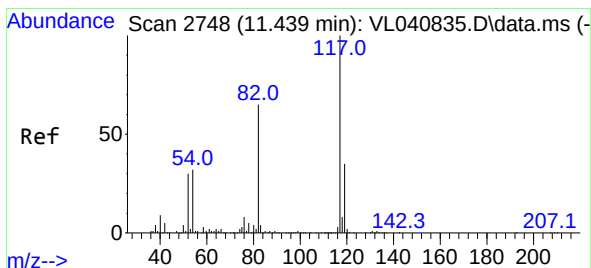
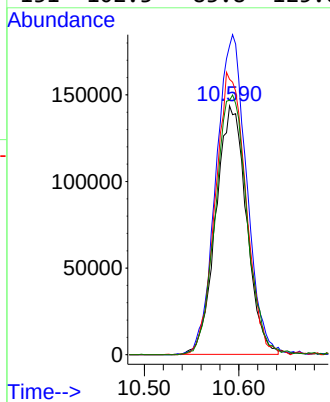
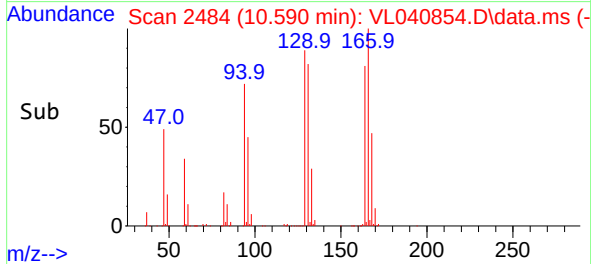
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



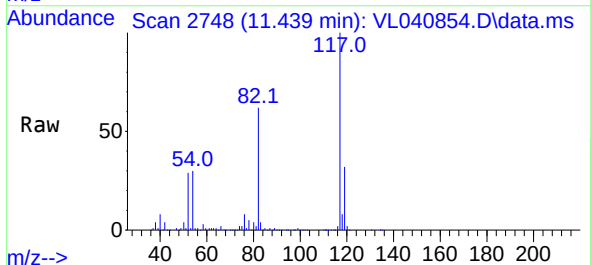
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Ion Ratio Lower Upper  
164 100  
166 123.8 98.3 147.5  
129 110.8 85.1 127.7  
131 102.3 83.8 125.6

Manual Integrations  
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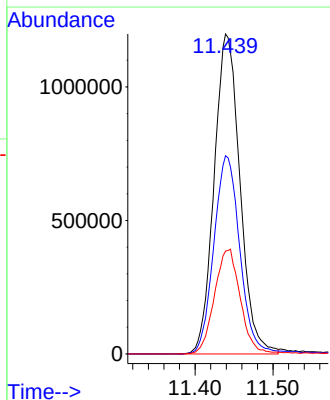
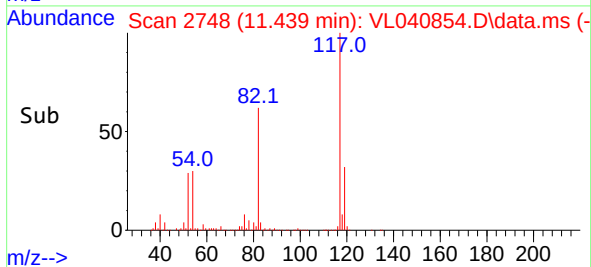
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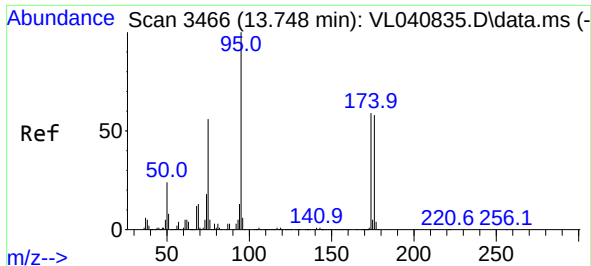


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.439 min Scan# 2748  
Delta R.T. -0.000 min  
Lab File: VL040854.D  
Acq: 14 Nov 2023 17:15



Tgt Ion:117 Resp: 2766509  
Ion Ratio Lower Upper  
117 100  
82 62.9 50.6 75.8  
119 33.2 23.3 34.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.656 ppbv

RT: 13.744 min Scan# 34

Delta R.T. -0.003 min

Lab File: VL040854.D

Acq: 14 Nov 2023 17:15

Instrument :

MSVOA\_L

ClientSampleId :

SV1DL

Tgt Ion: 95 Resp: 2091538

Ion Ratio Lower Upper

95 100

174 64.4 47.5 71.3

175 4.8 3.6 5.4

Manual Integrations

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