

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\  
 Data File : VL038138.D  
 Acq On : 29 Nov 2021 16:55  
 Operator : SY/AP  
 Sample : M4827-01DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 IA-1DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/30/2021  
 Supervised By :Mahesh Dadoda 12/01/2021

Quant Time: Nov 30 06:23:08 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Thu Nov 18 13:16:09 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 988832   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2657778  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2263531  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1789635  | 10.96    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 109.60% |

## Target Compounds

|                        | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|------------------------|-------|------|----------|---------|--------|--------|
| 7) Chloroethane        | 3.57  | 64   | 23452    | 0.953   | ppbv   | 96     |
| 9) Propene             | 3.03  | 41   | 51102m   | 0.668   | ppbv   |        |
| 13) Ethanol            | 3.61  | 45   | 2423734  | 327.949 | ppbv   | 89     |
| 15) Acetone            | 3.86  | 43   | 65493    | 0.764   | ppbv   | 100    |
| 19) Isopropyl Alcohol  | 3.98  | 45   | 494203   | 7.978   | ppbv # | 97     |
| 20) Methylene Chloride | 4.35  | 84   | 94258    | 1.963   | ppbv   | 94     |
| 26) Hexane             | 5.69  | 57   | 34441    | 0.251   | ppbv # | 46     |
| 29) Chloroform         | 5.76  | 83   | 84852    | 0.419   | ppbv   | 96     |
| 52) Tetrachloroethene  | 11.22 | 164  | 379648   | 3.870   | ppbv   | 96     |

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

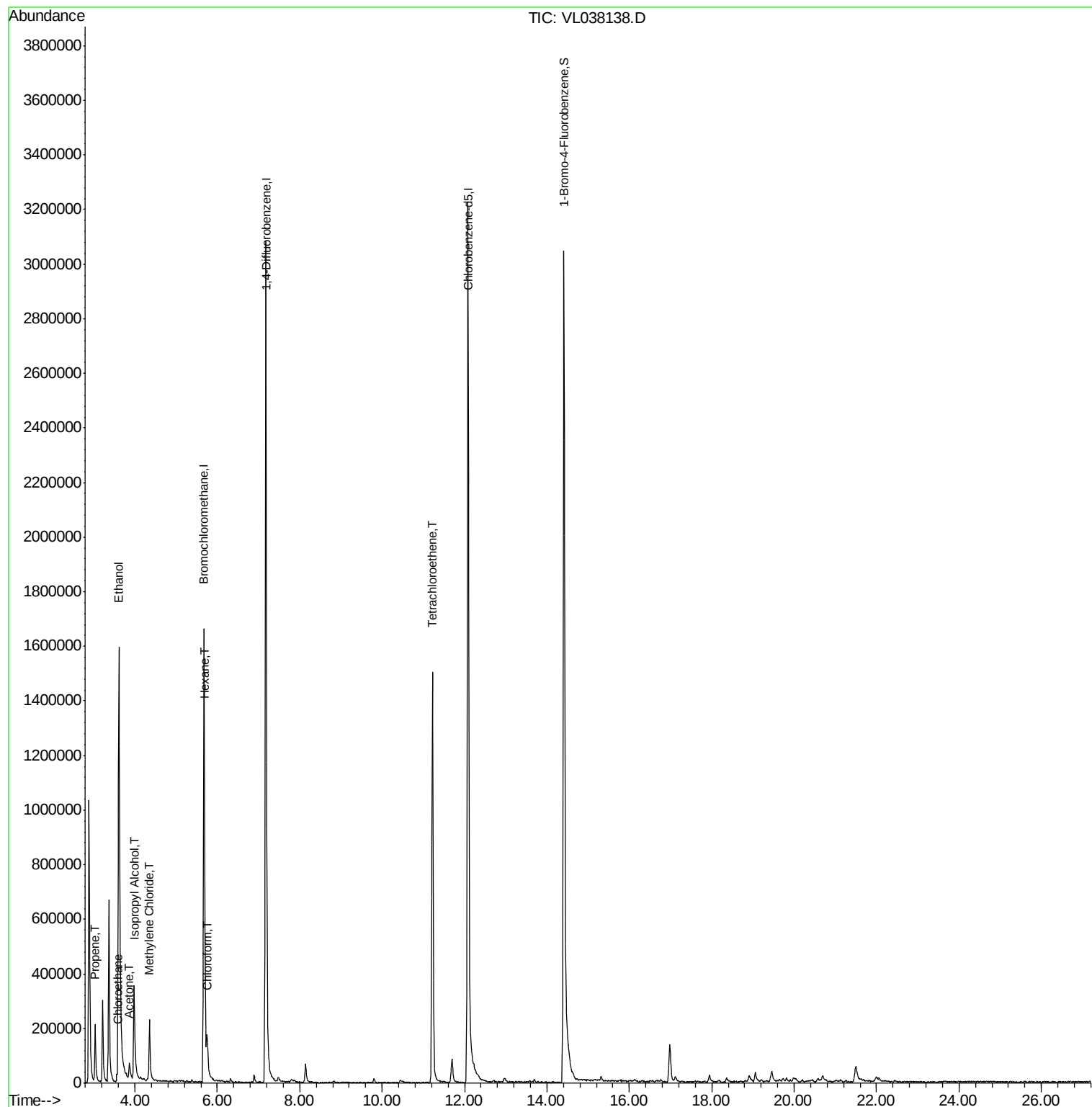
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112921\  
Data File : VL038138.D  
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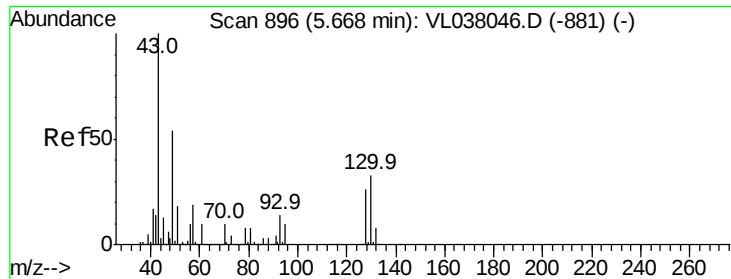
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DL

Manual Integrations  
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Quant Time: Nov 30 06:23:08 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Thu Nov 18 13:16:09 2021  
Response via : Initial Calibration

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Supervised By :Mahesh Dadoda 12/01/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:55

Tot Ion:

Ion Ratio

49 100

128 47.

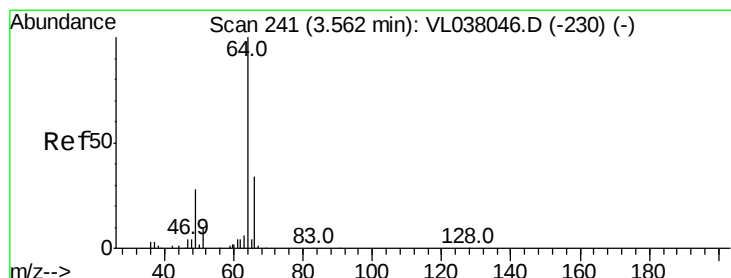
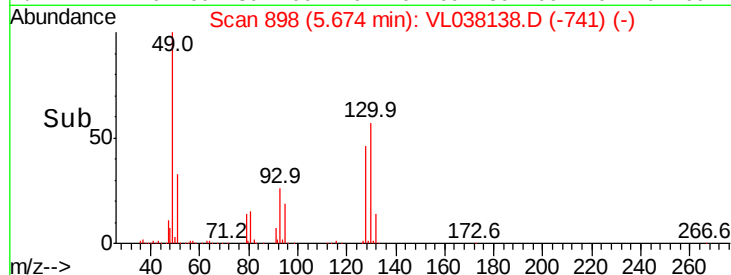
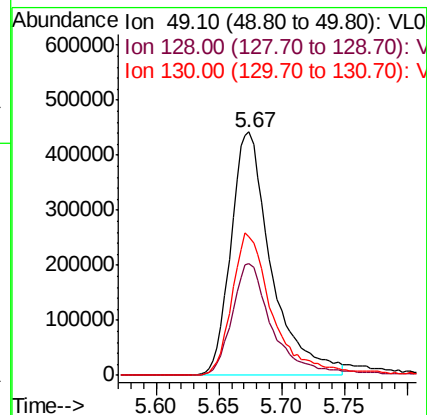
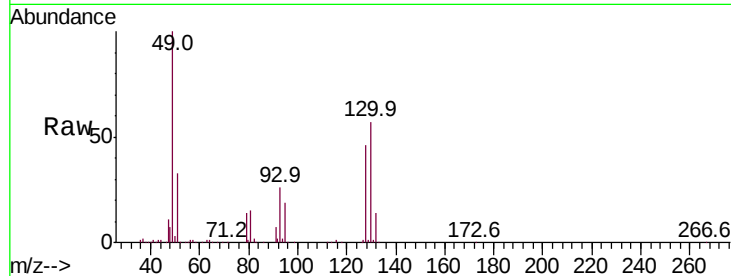
130 62.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#7

Chloroethane

Concen: 0.953 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.01 min

Lab File: VL038138.D

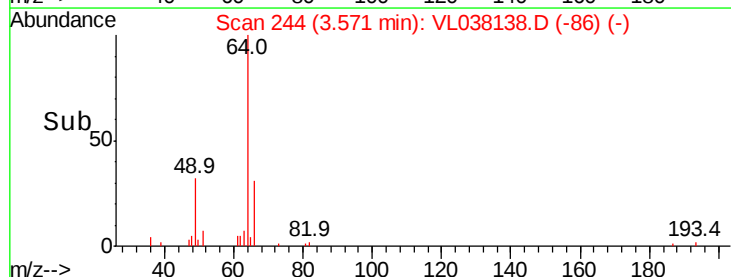
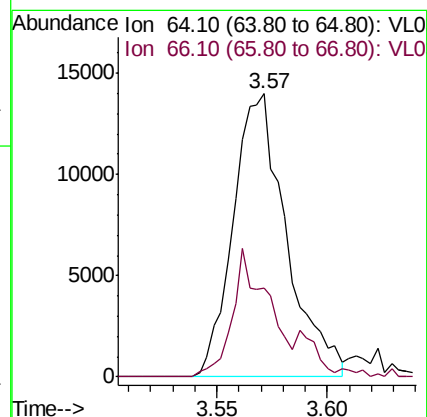
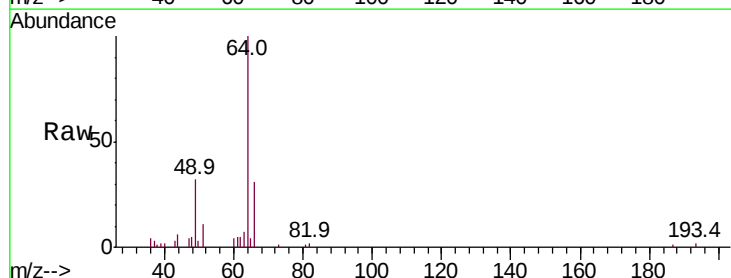
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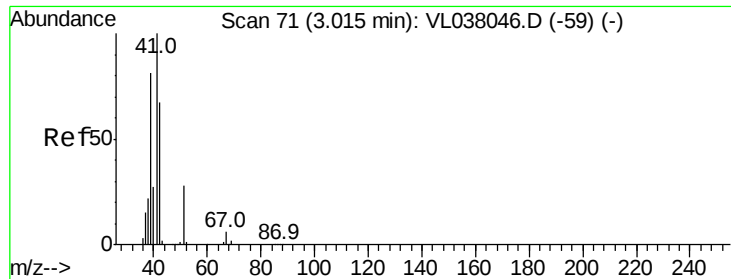
Tgt Ion: 64 Resp: 23452

Ion Ratio Lower Upper

64 100

66 31.5 27.2 40.8





#9

Propene

Concen: 0.668 ppbv m

RT: 3.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:55

Tot Ion:

Ion Ratio

41 100

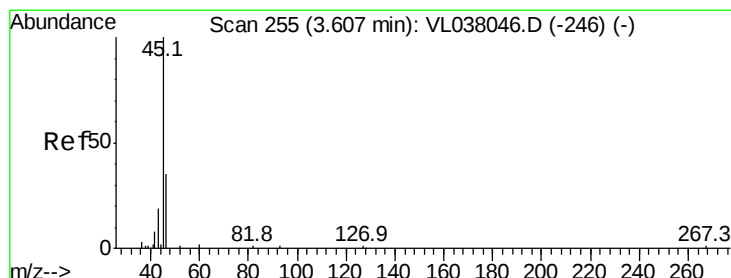
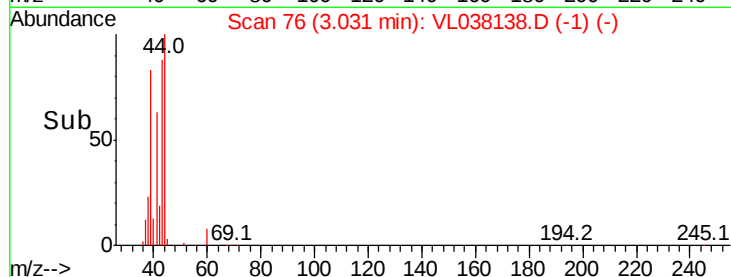
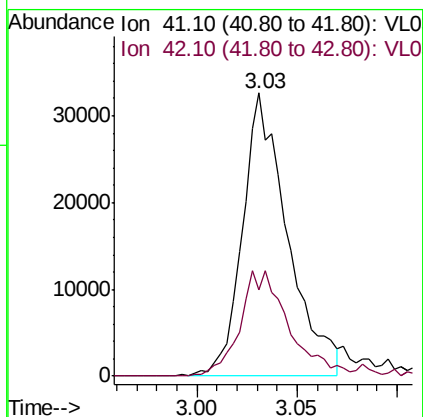
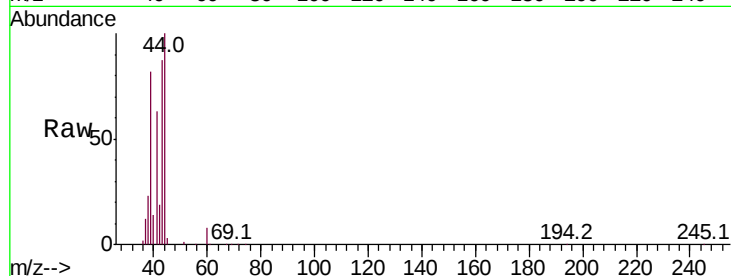
42 148.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

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#13

Ethanol

Concen: 327.949 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL038138.D

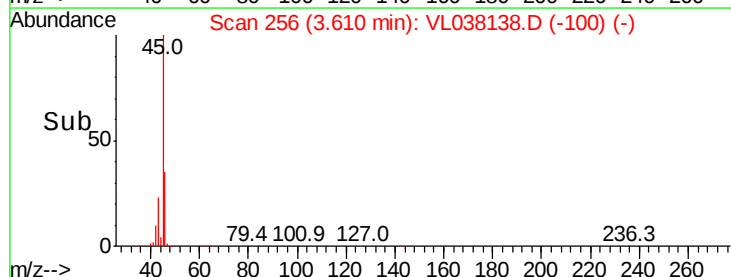
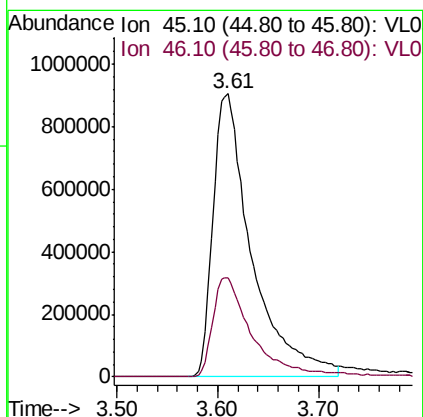
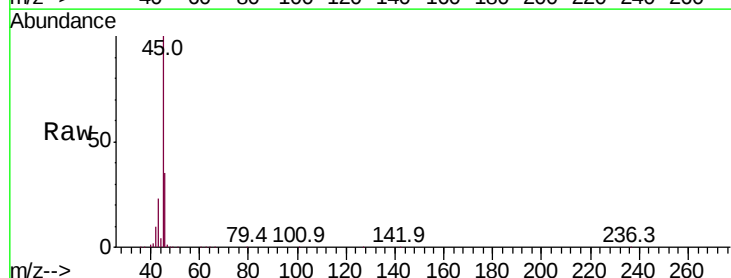
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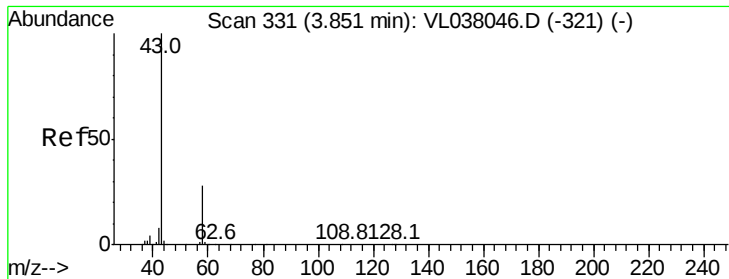
Tgt Ion: 45 Resp: 2423734

Ion Ratio Lower Upper

45 100

46 36.8 17.6 70.2



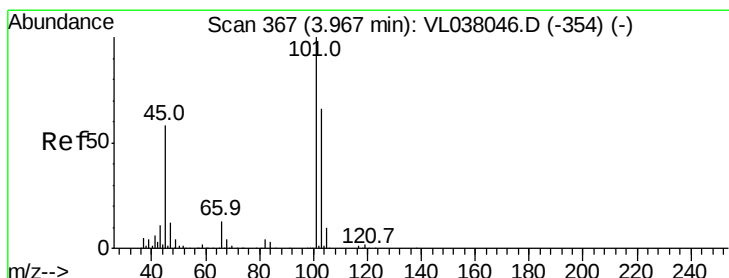
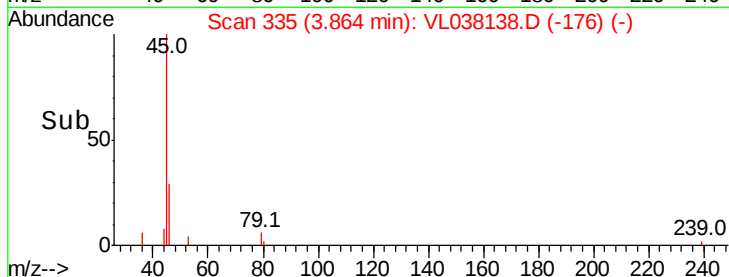
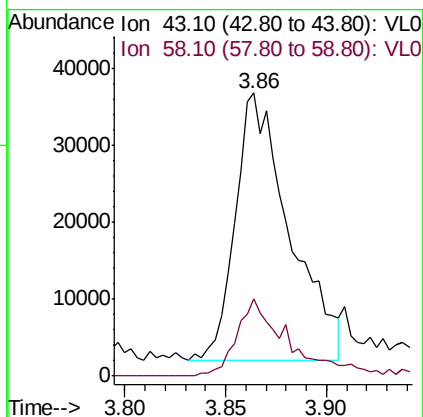
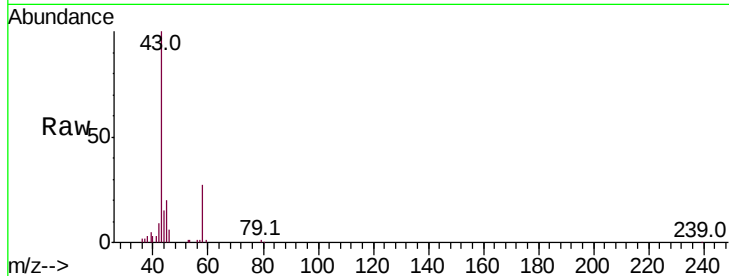


#15  
Acetone  
Concen: 0.764 ppbv  
RT: 3.86  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 29 Nov 2021 16:55

Tot Ion:  
Ion Ratio  
43 100  
58 28.

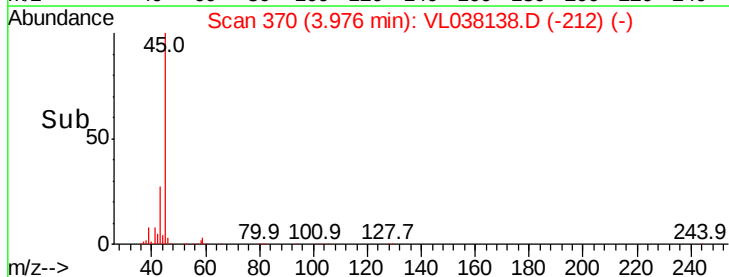
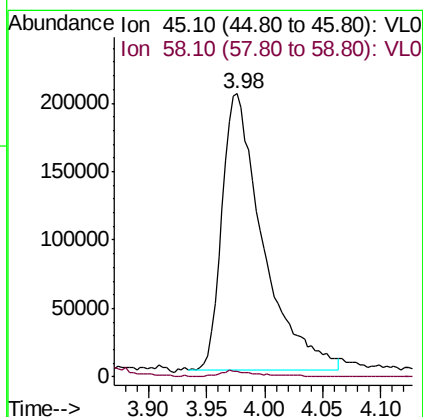
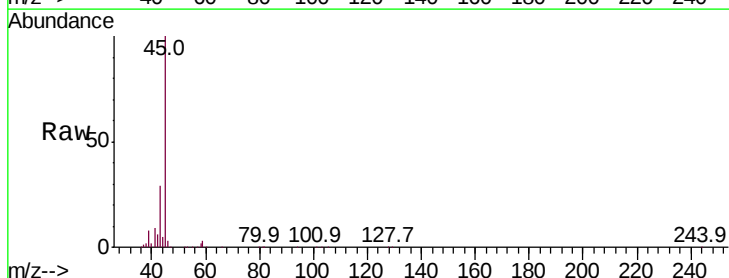
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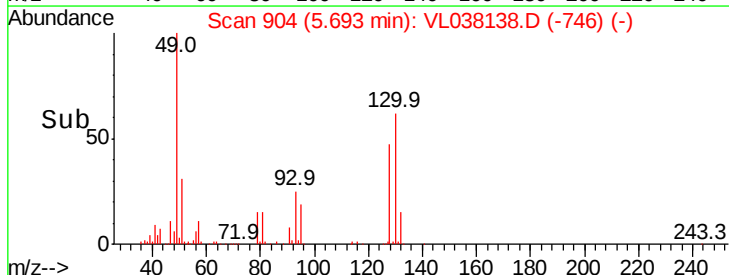
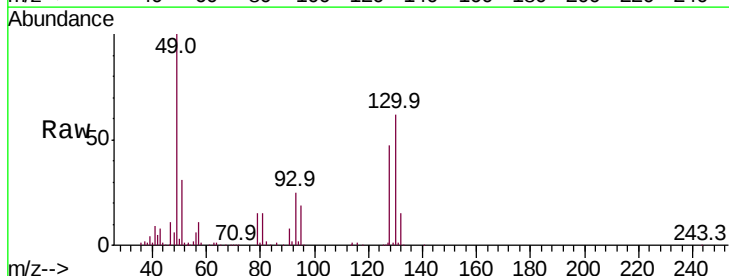
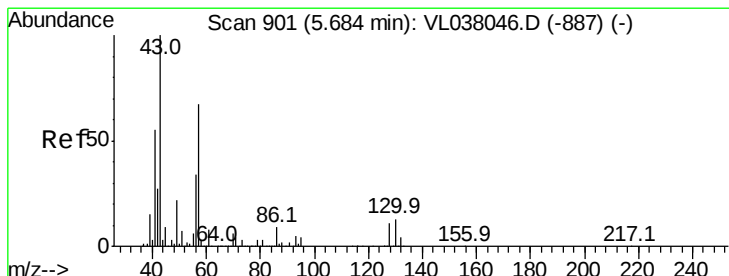
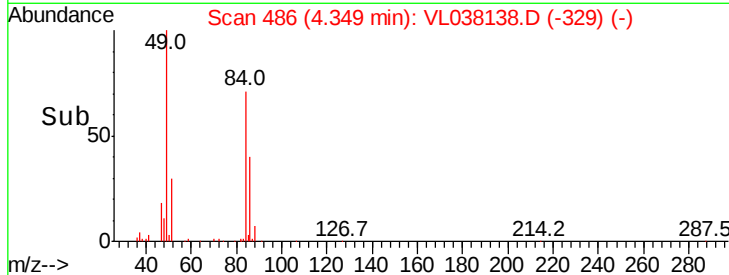
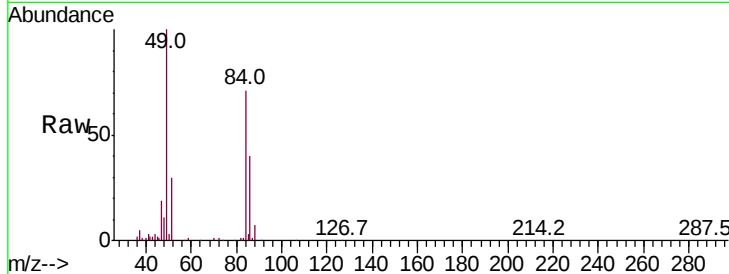
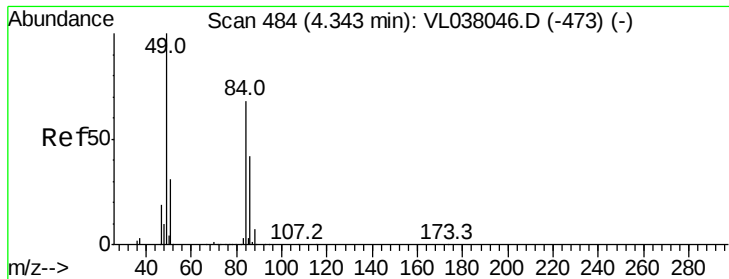
Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021



#19  
Isopropyl Alcohol  
Concen: 7.978 ppbv  
RT: 3.98 min Scan# 370  
Delta R.T. 0.01 min  
Lab File: VL038138.D  
Acq: 29 Nov 2021 16:55

Tgt Ion: 45 Resp: 494203  
Ion Ratio Lower Upper  
45 100  
58 2.6 1.4 2.0#



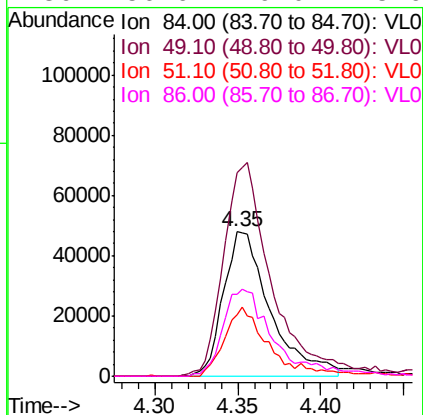


#20  
Methvlene Chloride  
Concen: 1.963 ppbv  
RT: 4.35  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 29 Nov 2021 16:55

Tot Ion:  
Ion Ratio  
84 100  
49 140.  
51 42.  
86 56.6 49.0 73.6

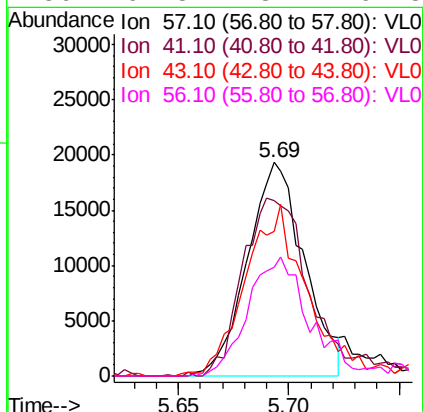
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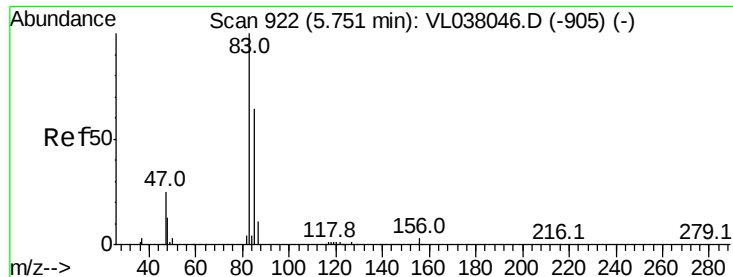
Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021



#26  
Hexane  
Concen: 0.251 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T. 0.01 min  
Lab File: VL038138.D  
Acq: 29 Nov 2021 16:55

Tgt Ion: 57 Resp: 34441  
Ion Ratio Lower Upper  
57 100  
41 102.8 71.4 107.2  
43 89.6 174.6 261.8#  
56 62.8 43.2 64.8



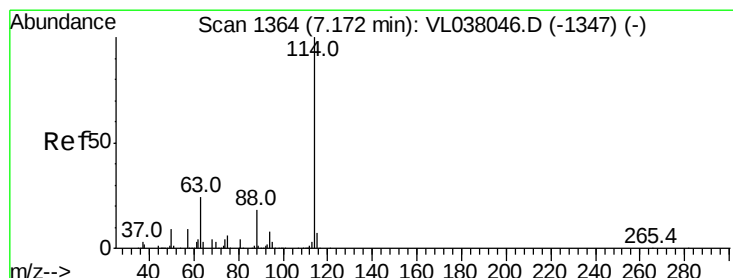
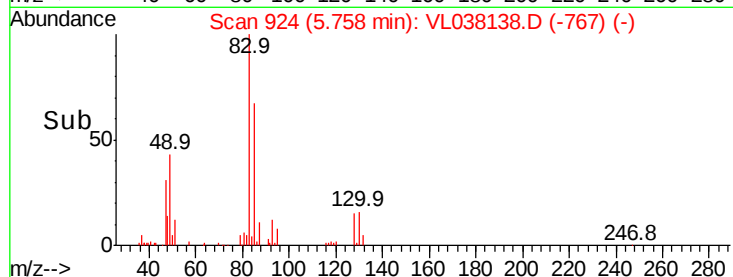
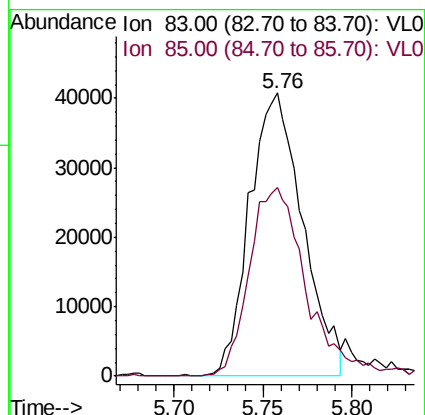
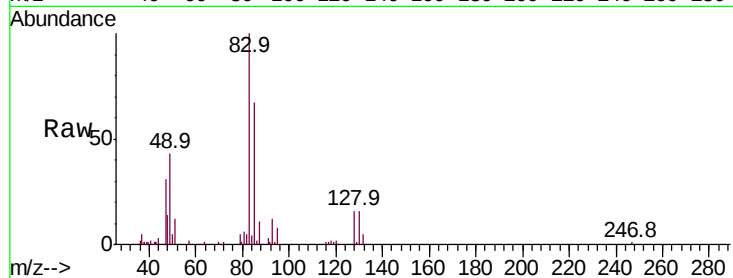


#29  
 Chloroform  
 Concen: 0.419 ppbv  
 RT: 5.76  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 29 Nov 2021 16:55

Tot Ion:  
 Ion Ratio  
 83 100  
 85 66.

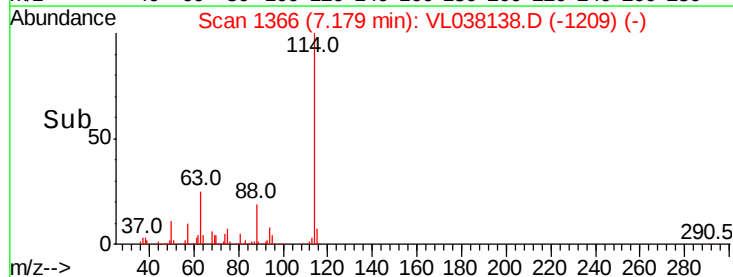
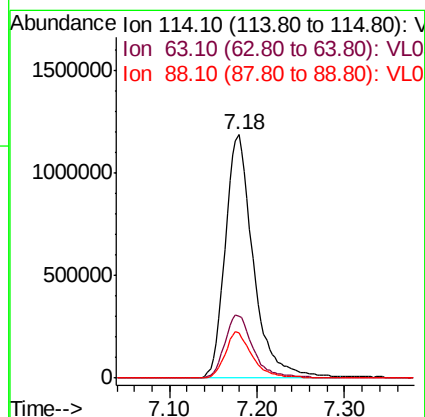
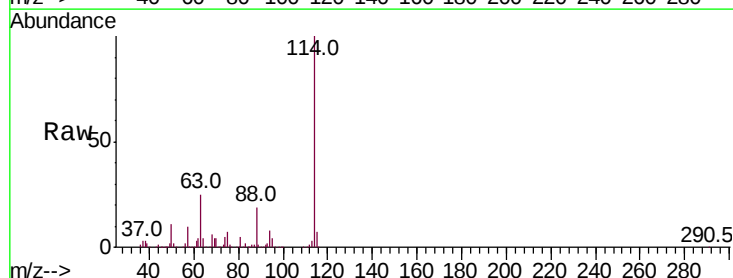
Manual Integrations  
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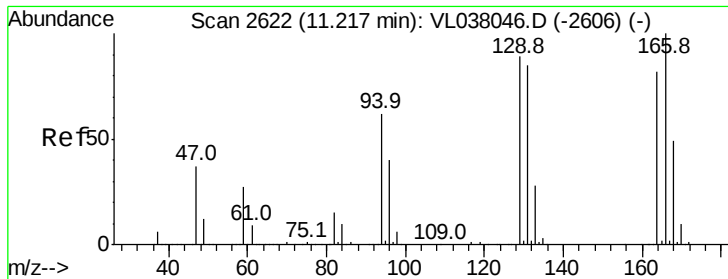
Reviewed By :Semsettin Yesilyurt 11/30/2021  
 Supervised By :Mahesh Dadoda 12/01/2021



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1366  
 Delta R.T. 0.01 min  
 Lab File: VL038138.D  
 Acq: 29 Nov 2021 16:55

Tgt Ion:114 Resp: 2657778  
 Ion Ratio Lower Upper  
 114 100  
 63 26.6 19.7 29.5  
 88 18.4 14.4 21.6





#52

Tetrachloroethene

Concen: 3.870 ppbv

RT: 11.22

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:55

Tot Ion:1

Ion Rati

164 100

166 127.

129 113.

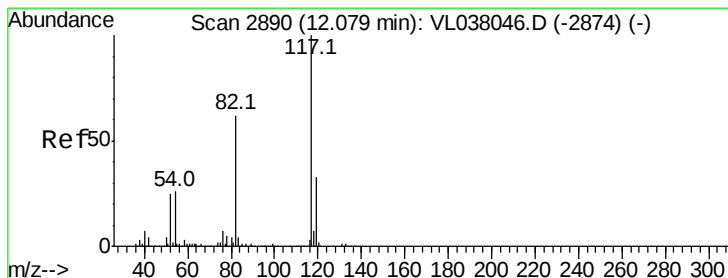
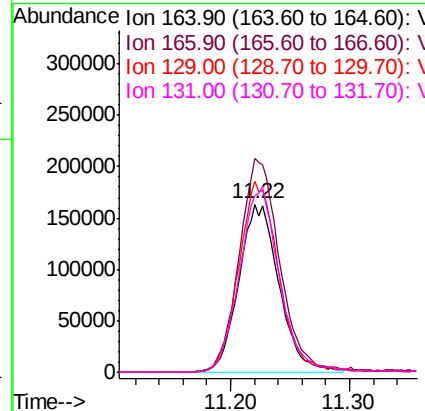
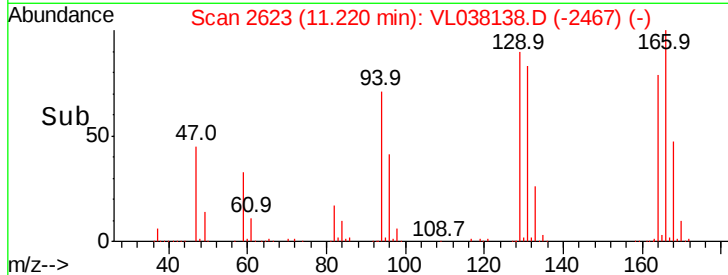
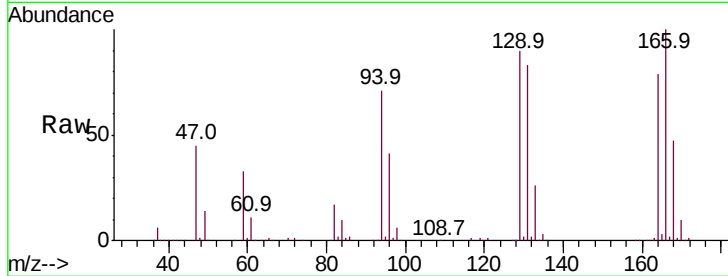
131 105.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL038138.D

Acq: 29 Nov 2021 16:55

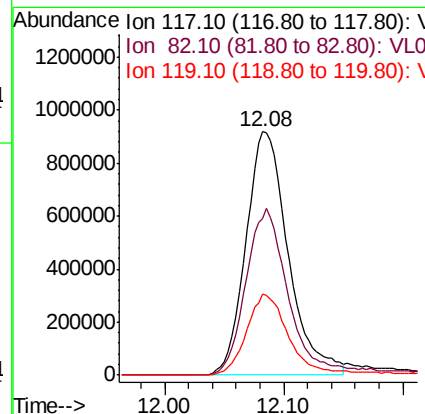
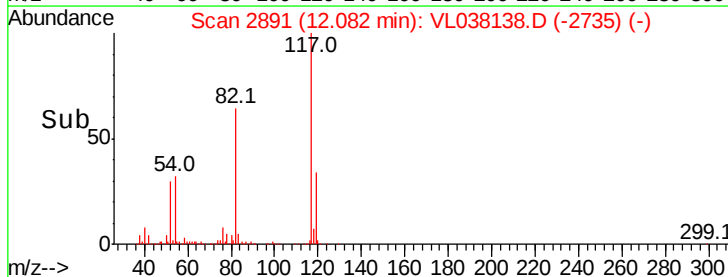
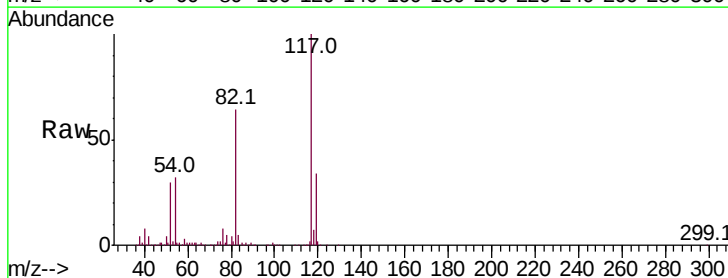
Tgt Ion:117 Resp: 2263531

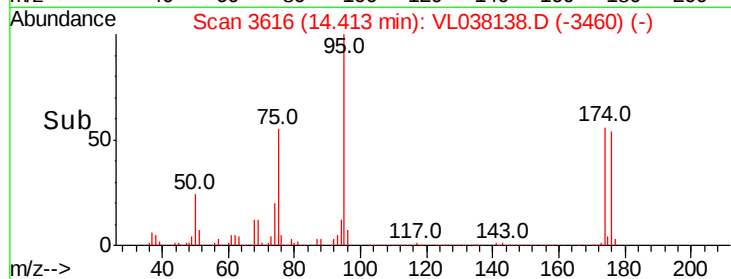
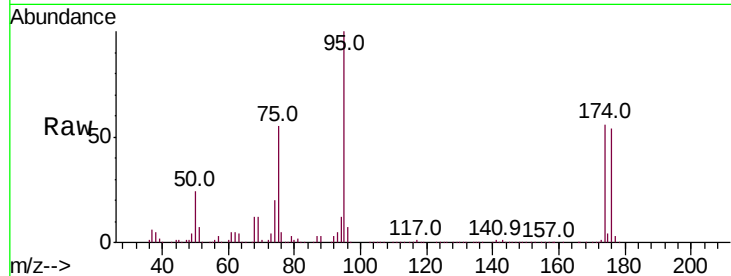
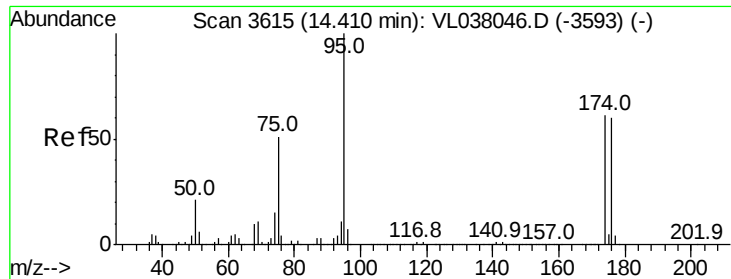
Ion Ratio Lower Upper

117 100

82 72.5 52.8 79.2

119 35.1 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.961 ppbv

RT: 14.41

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 10:55

Tot Ion:

Ion Ratio

95 100

174 62.

175 4.

Manual Integrations

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