

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\  
 Data File : VL038205.D  
 Acq On : 17 Dec 2021 1:37  
 Operator : SY/AP  
 Sample : M5119-02DL2 40X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 SG-1DL2

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 12/20/2021  
 Supervised By :Mahesh Dadoda 12/20/2021

Quant Time: Dec 17 08:23:54 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   | 5.68  | 49   | 811797   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2539372  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2154347  | 10.00 | ppbv  | 0.02     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 1887405  | 12.15    | ppbv | 0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 121.50% |

## Target Compounds

|                            | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene                 | 3.03  | 41   | 996305m  | 15.868 | ppbv   |        |
| 10) Heptane                | 8.13  | 43   | 1381709  | 8.904  | ppbv   | 99     |
| 13) Ethanol                | 3.62  | 45   | 4999m    | 0.824  | ppbv   |        |
| 15) Acetone                | 3.87  | 43   | 217523   | 3.091  | ppbv # | 89     |
| 19) Isopropyl Alcohol      | 3.99  | 45   | 201838   | 3.969  | ppbv # | 5      |
| 20) Methylene Chloride     | 4.36  | 84   | 17319m   | 0.439  | ppbv   |        |
| 26) Hexane                 | 5.69  | 57   | 12616    | 0.112  | ppbv # | 55     |
| 30) Cyclohexane            | 7.14  | 84   | 12125m   | 0.118  | ppbv   |        |
| 31) cis-1,2-Dichloroethene | 5.56  | 61   | 14213m   | 0.133  | ppbv   |        |
| 34) 2-Butanone             | 5.27  | 43   | 110225   | 1.076  | ppbv   | 91     |
| 38) Trichloroethene        | 7.84  | 130  | 125024m  | 1.308  | ppbv   |        |
| 52) Tetrachloroethene      | 11.24 | 164  | 1312297  | 14.001 | ppbv   | 97     |
| 53) Toluene                | 9.82  | 91   | 66731    | 0.229  | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.73 | 91   | 3668728  | 10.303 | ppbv   | 99     |
| 59) m/p-Xylene             | 12.98 | 91   | 5273293  | 17.593 | ppbv   | 95     |
| 60) o-Xylene               | 13.70 | 91   | 1257591  | 4.523  | ppbv   | 99     |

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

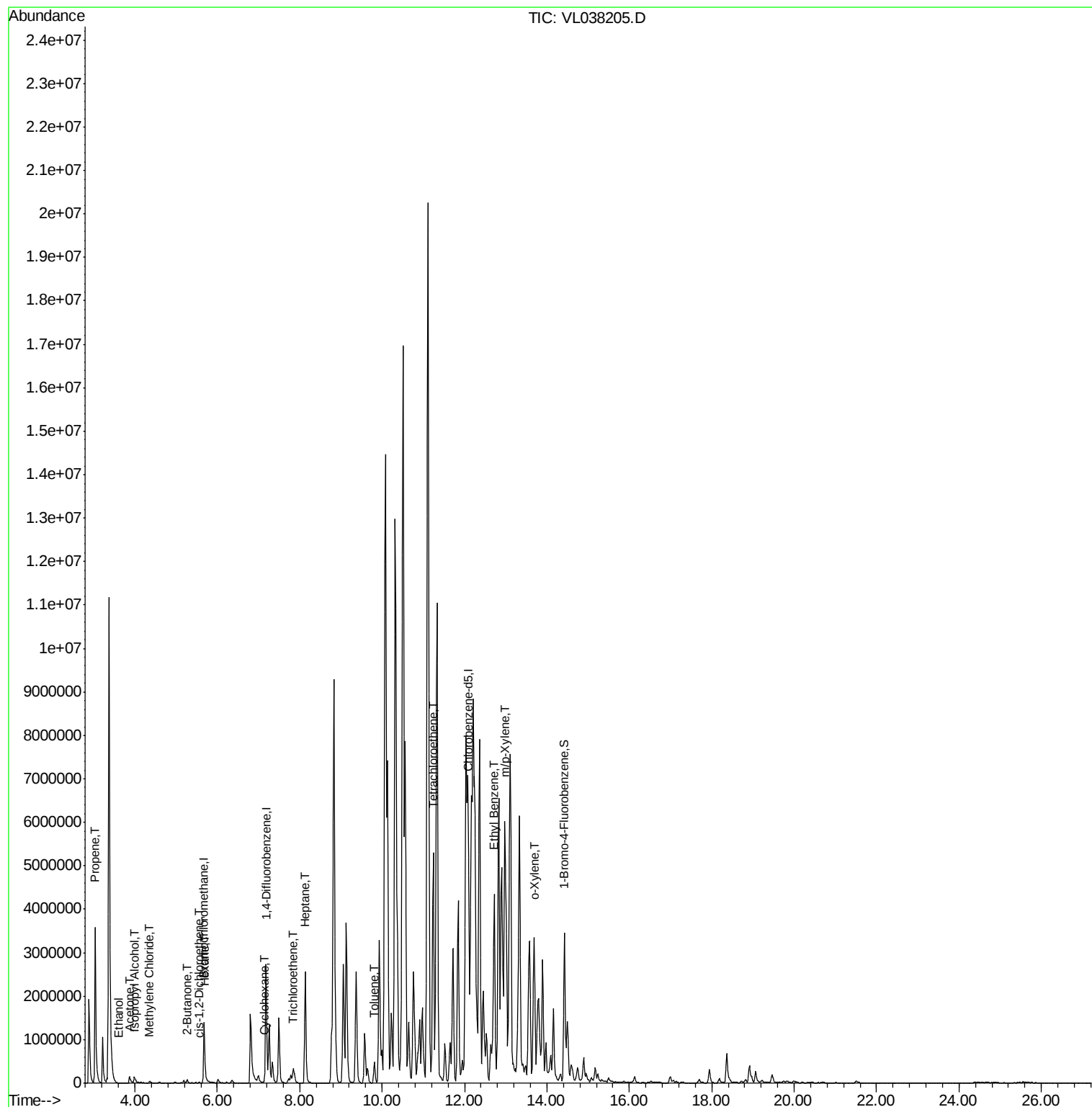
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\  
Data File : VL038205.D  
Acq On : 17 Dec 2021 1:37  
Operator : SY/AP  
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ALS Vial : 1 Sample Multiplier: 1

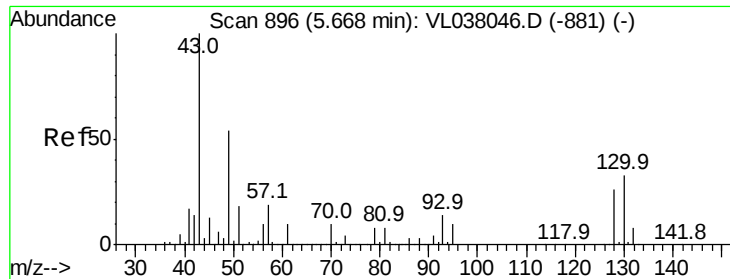
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1DL2

Quant Time: Dec 17 08:23:54 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

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: SG-1DL2

Acq: 17 Dec 2021 1:37

Tot Ion:

Ion Ratio

49 100

128 53.

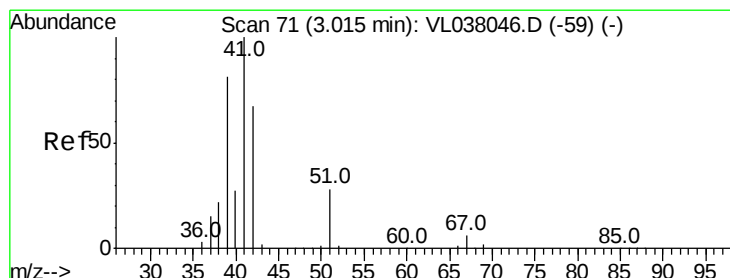
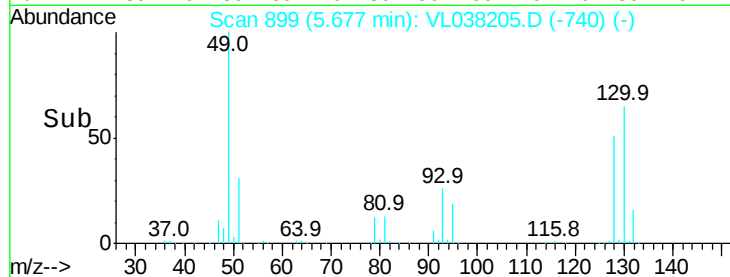
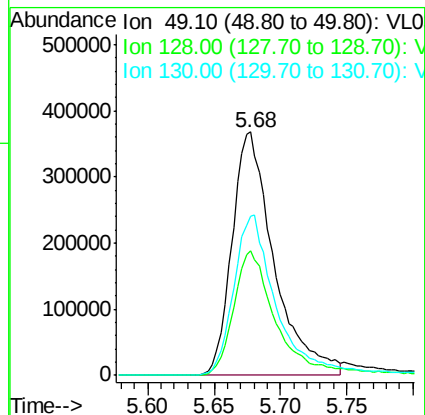
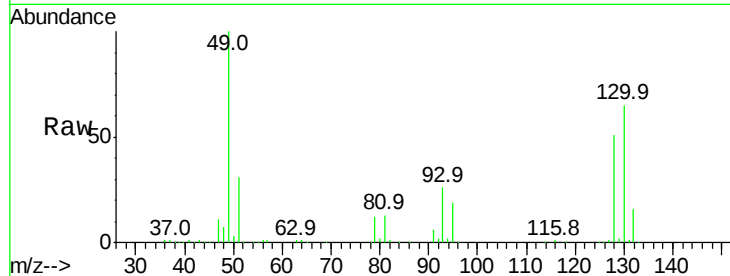
130 69.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#9

Propene

Concen: 15.868 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL038205.D

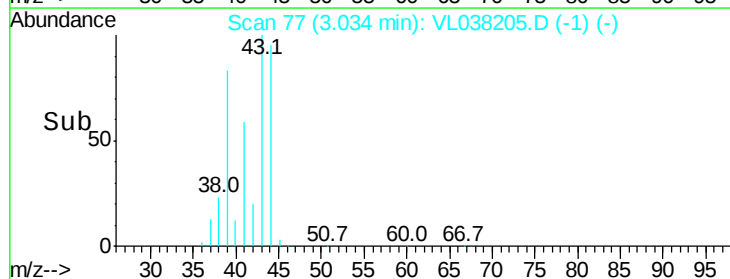
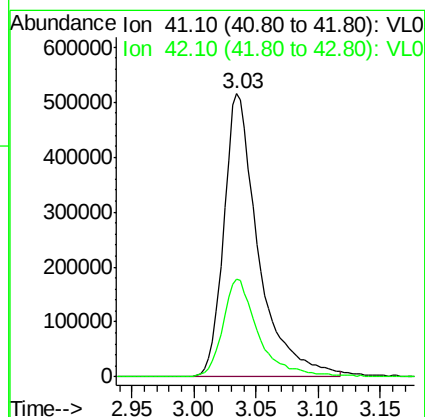
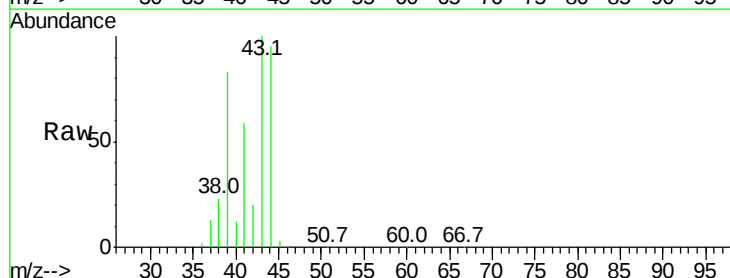
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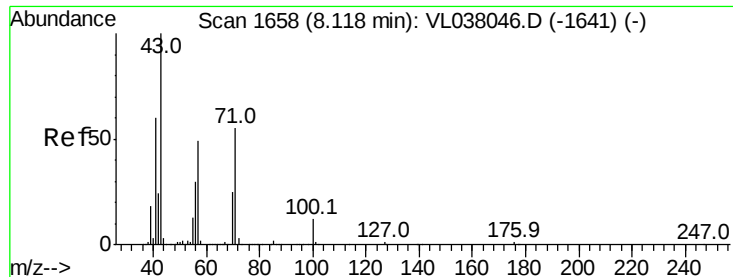
Tgt Ion: 41 Resp: 996305

Ion Ratio Lower Upper

41 100

42 26.4 53.8 80.8#



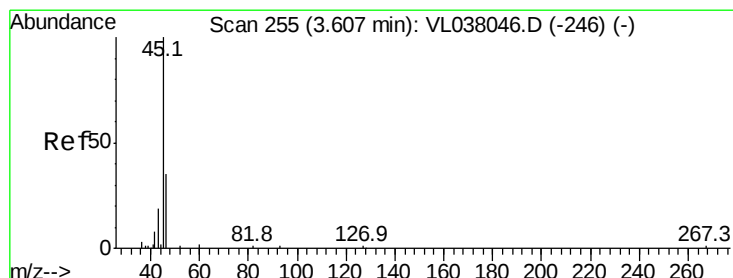
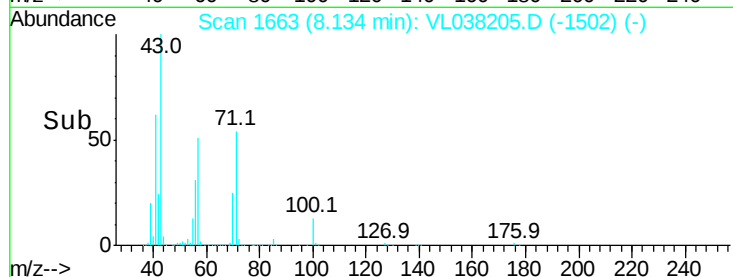
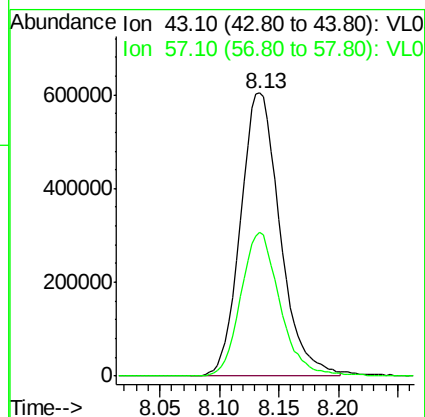
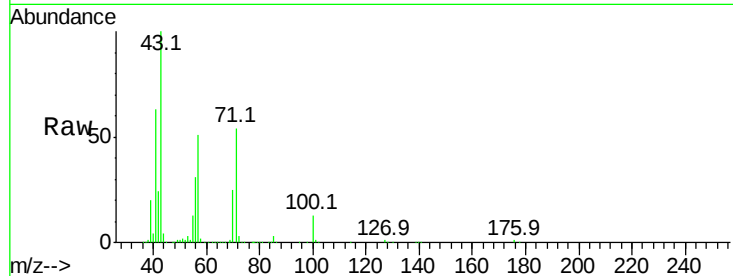


#10  
Heptane  
Concen: 8.904 ppbv  
RT: 8.13  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 1:37

Tot Ion:  
Ion Ratio  
43 100  
57 50.

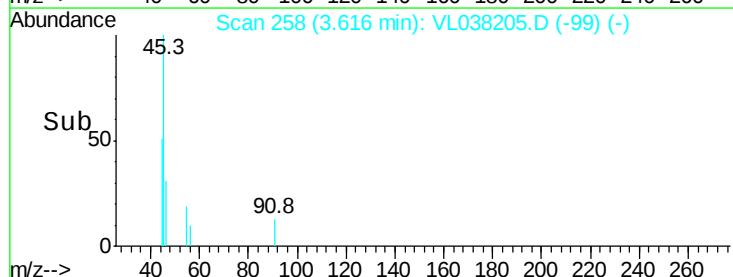
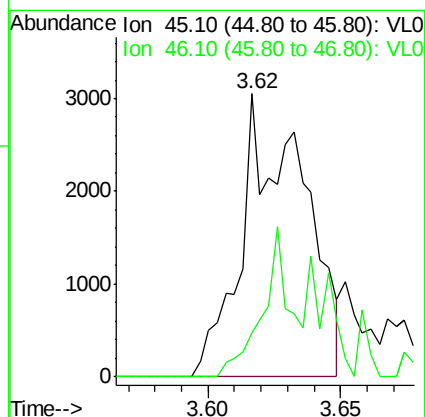
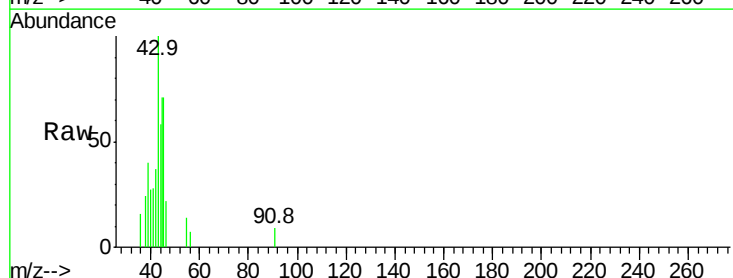
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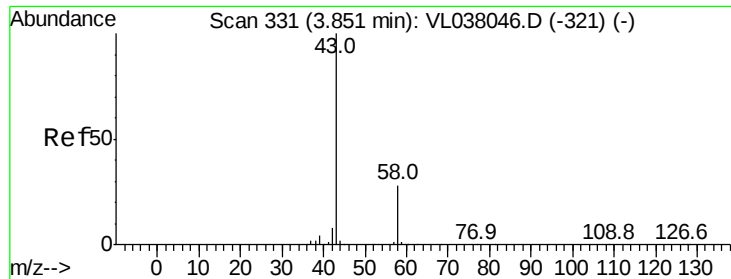
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#13  
Ethanol  
Concen: 0.824 ppbv m  
RT: 3.62 min Scan# 258  
Delta R.T. 0.01 min  
Lab File: VL038205.D  
Acq: 17 Dec 2021 1:37

Tgt Ion: 45 Resp: 4999  
Ion Ratio Lower Upper  
45 100  
46 41.6 17.6 70.2



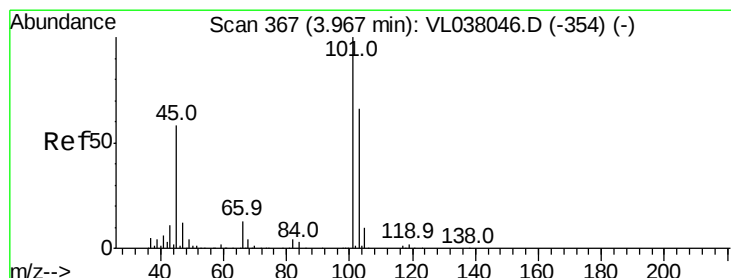
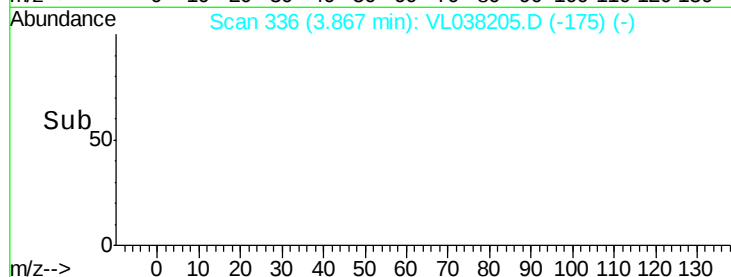
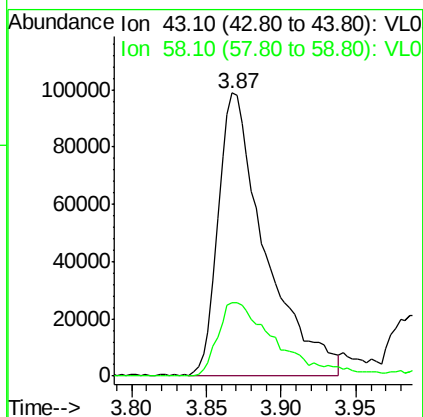
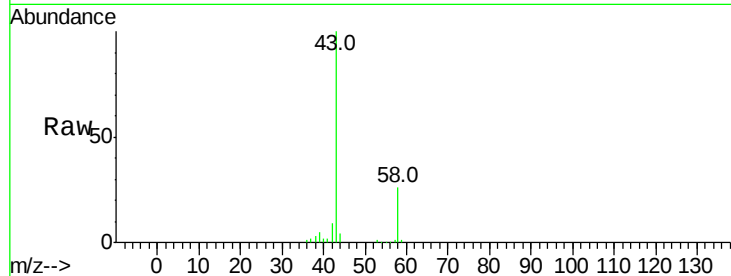


#15  
Acetone  
Concen: 3.091 ppbv  
RT: 3.87  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 1:37

Tot Ion:  
Ion Ratio  
43 100  
58 34.

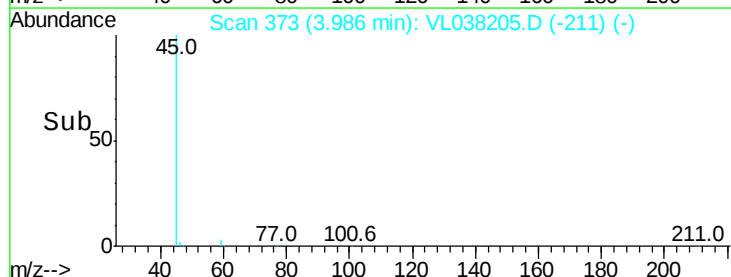
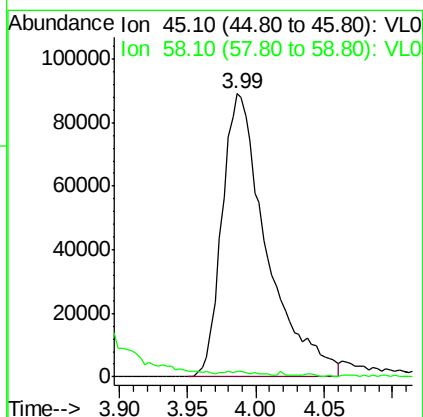
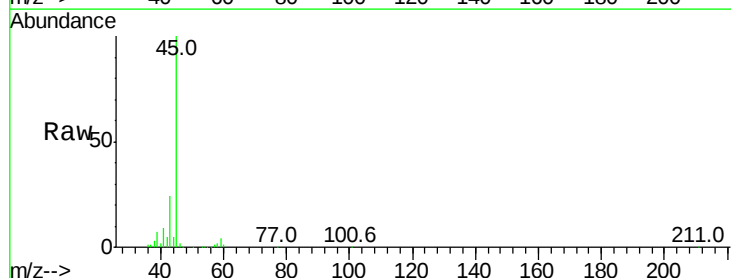
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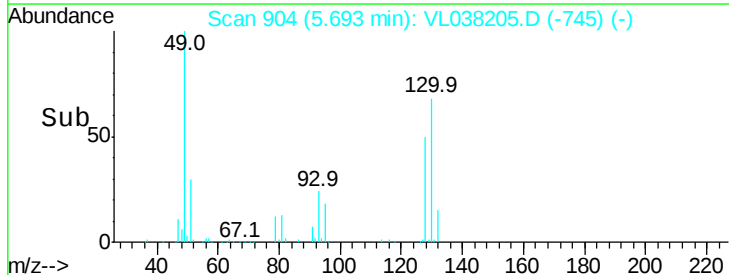
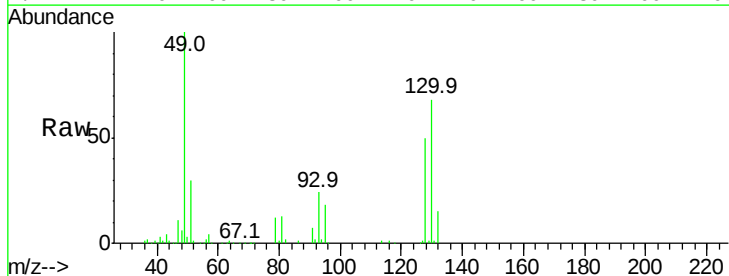
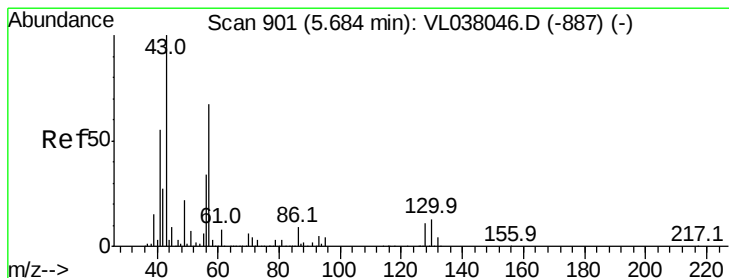
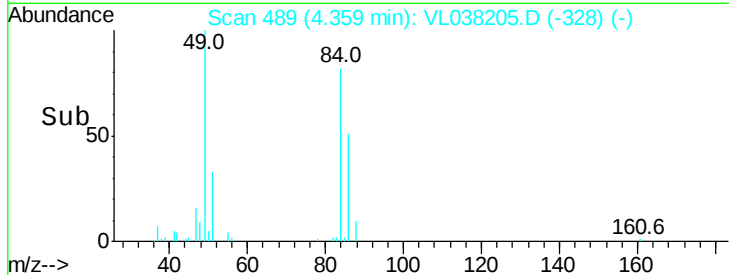
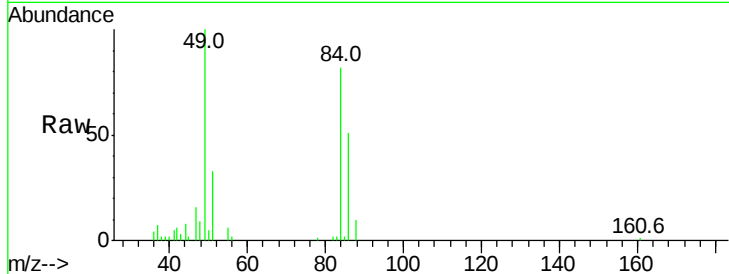
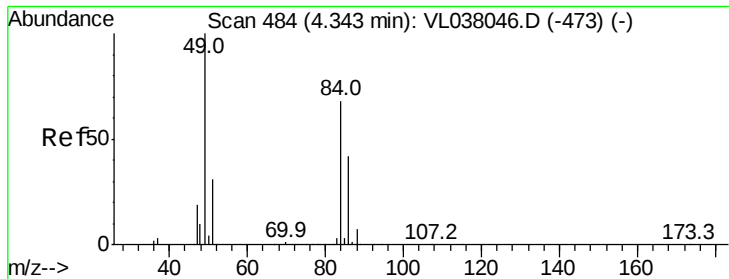
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#19  
Isopropyl Alcohol  
Concen: 3.969 ppbv  
RT: 3.99 min Scan# 373  
Delta R.T. 0.02 min  
Lab File: VL038205.D  
Acq: 17 Dec 2021 1:37

Tgt Ion: 45 Resp: 201838  
Ion Ratio Lower Upper  
45 100  
58 36.7 1.4 2.0#





#20

Methylene Chloride

Concen: 0.439 ppbv m

RT: 4.36 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 17 Dec 2021 1:37 SG-1DL2

Tot Ion:

Ion Ratio

84 100

49 121.

51 40.

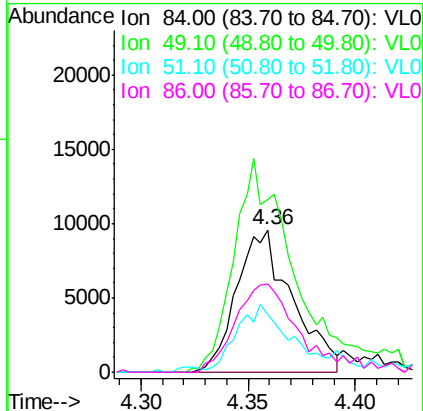
86 62.2 49.0 73.6

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#26

Hexane

Concen: 0.112 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL038205.D

Acq: 17 Dec 2021 1:37

Tgt Ion: 57 Resp: 12616

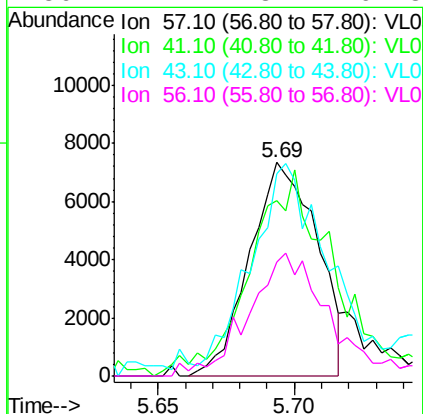
Ion Ratio Lower Upper

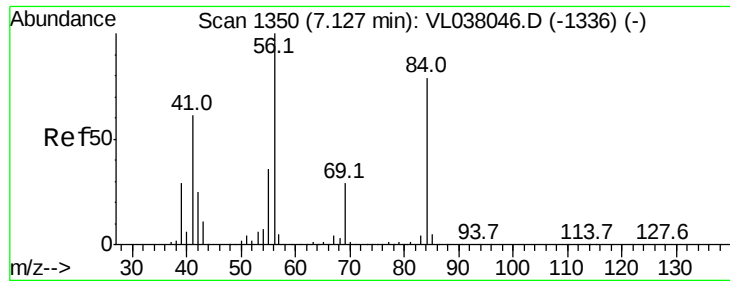
57 100

41 124.9 71.4 107.2#

43 132.7 174.6 261.8#

56 71.1 43.2 64.8#



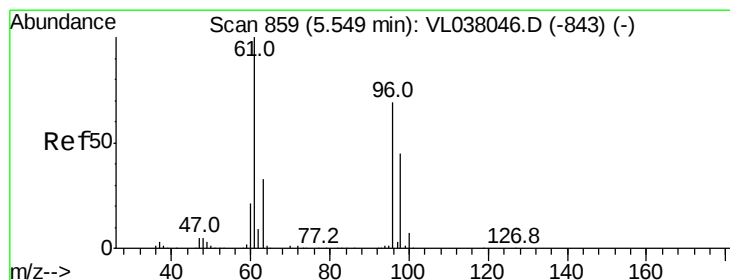
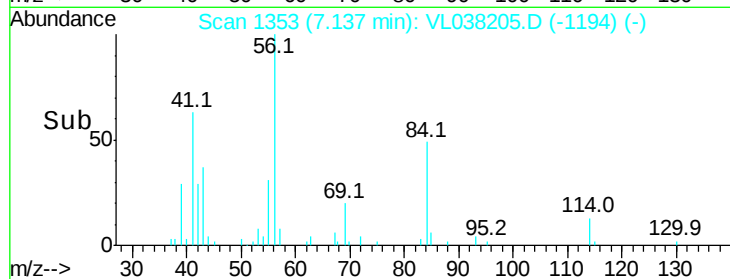
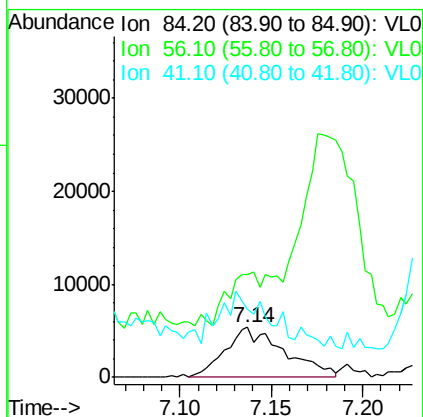
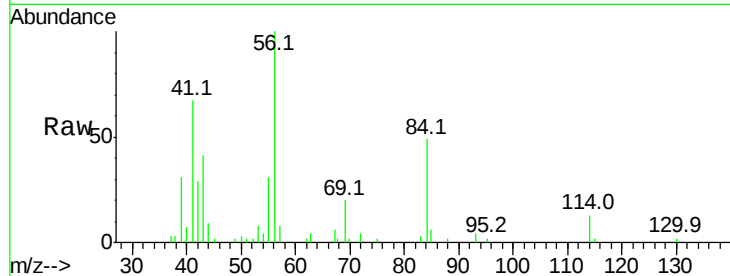


#30  
Cvclohexane  
Concen: 0.118 ppbv m  
RT: 7.14  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 17 Dec 2021 1:37

Tot Ion:  
Ion Ratio  
84 100  
56 0.  
41 0.

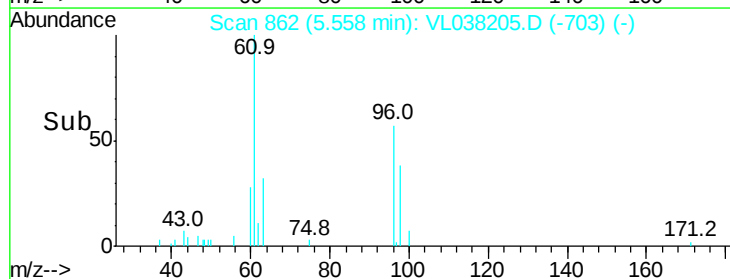
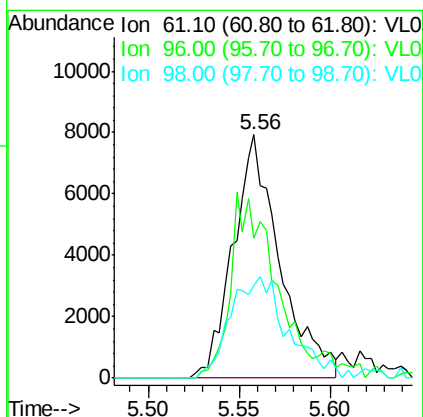
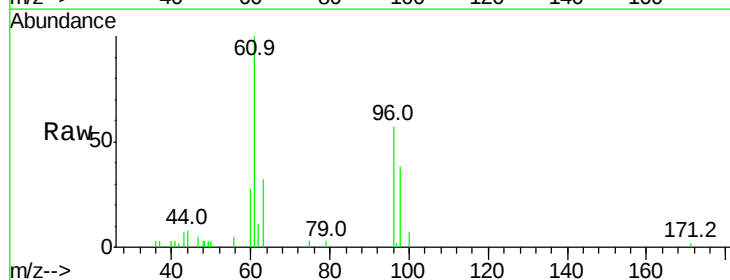
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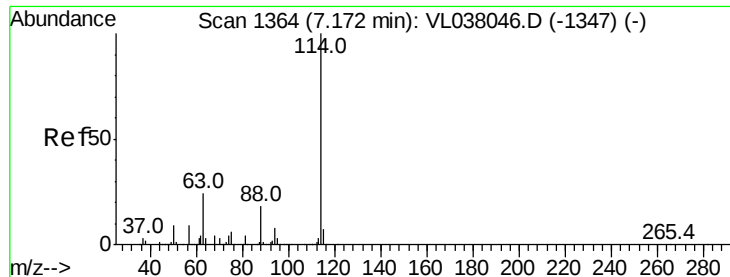
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#31  
cis-1,2-Dichloroethene  
Concen: 0.133 ppbv m  
RT: 5.56 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VL038205.D  
Acq: 17 Dec 2021 1:37

Tgt Ion: 61 Resp: 14213  
Ion Ratio Lower Upper  
61 100  
96 57.3 55.4 83.2  
98 38.2 35.7 53.5



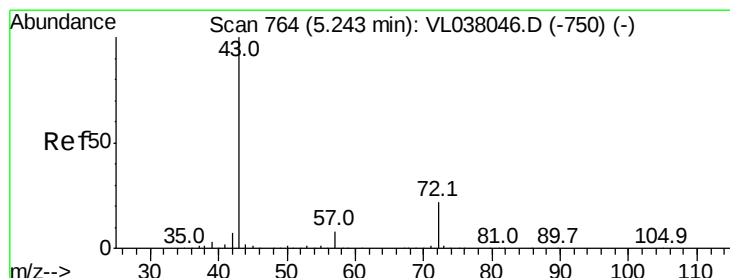
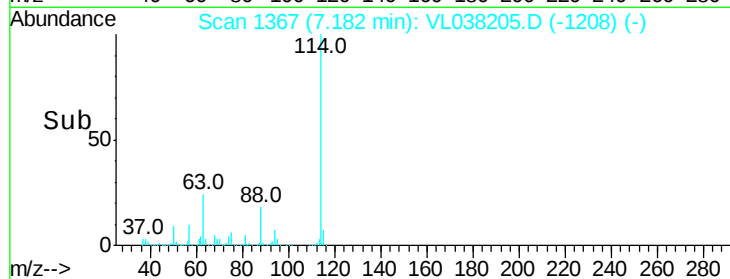
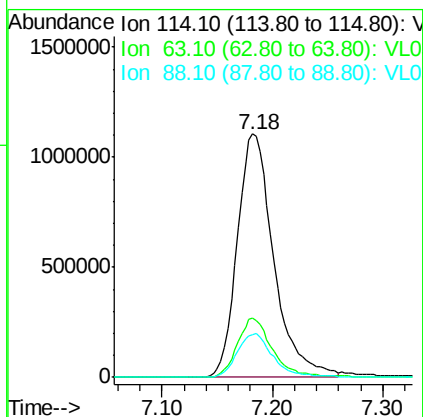
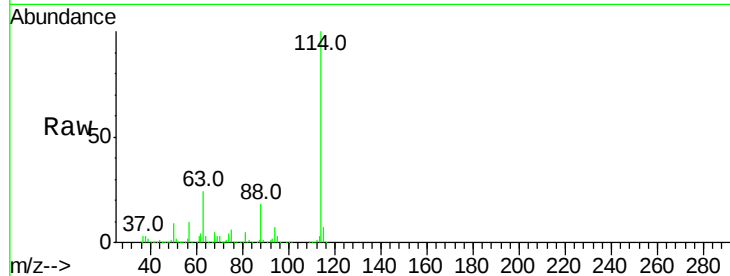


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 SG-1DL2  
 Acq: 17 Dec 2021 1:37

Tot Ion:1  
 Ion Rati  
 114 100  
 63 23.  
 88 18.

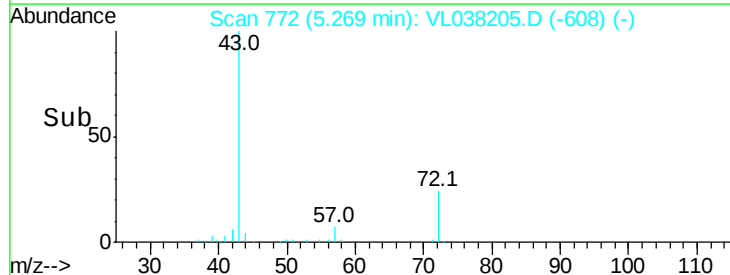
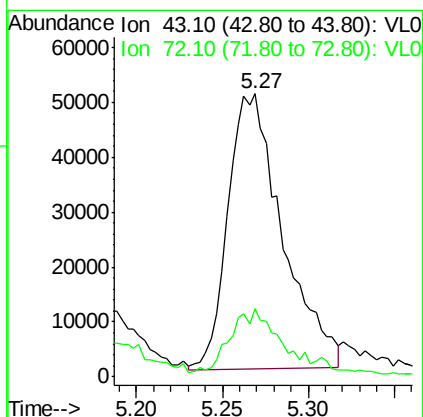
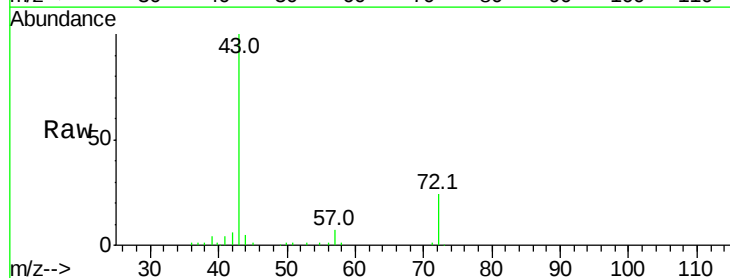
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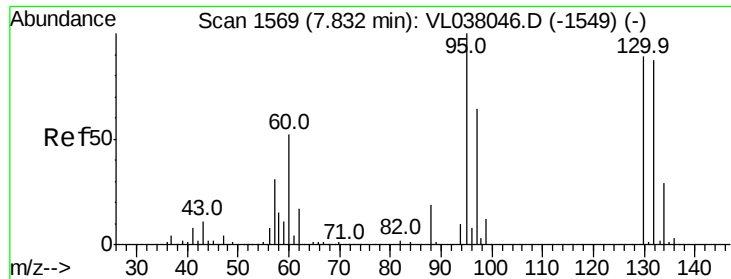
Reviewed By :Amit Patel 12/20/2021  
 Supervised By :Mahesh Dadoda 12/20/2021



#34  
 2-Butanone  
 Concen: 1.076 ppbv  
 RT: 5.27 min Scan# 772  
 Delta R.T. 0.03 min  
 Lab File: VL038205.D  
 Acq: 17 Dec 2021 1:37

Tgt Ion: 43 Resp: 110225  
 Ion Ratio Lower Upper  
 43 100  
 72 28.1 18.8 28.2





#38

Trichloroethene

Concen: 1.308 ppbv m

RT: 7.84 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 1:37 SG-1DL2

Tot Ion:1

Ion Ratio

130 100

95 101.

132 79.

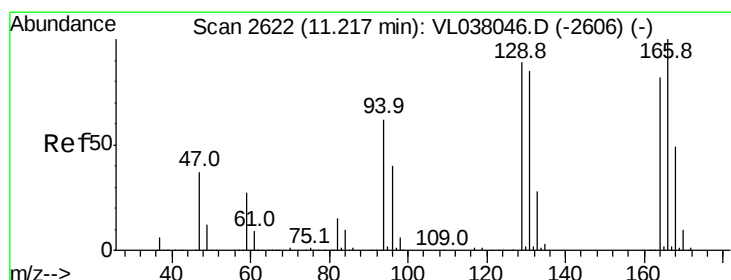
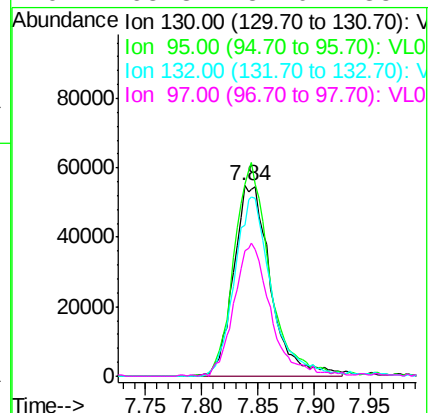
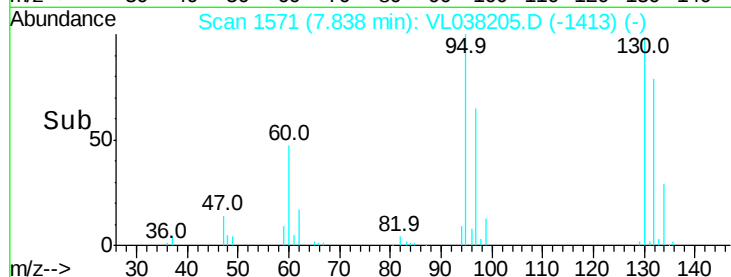
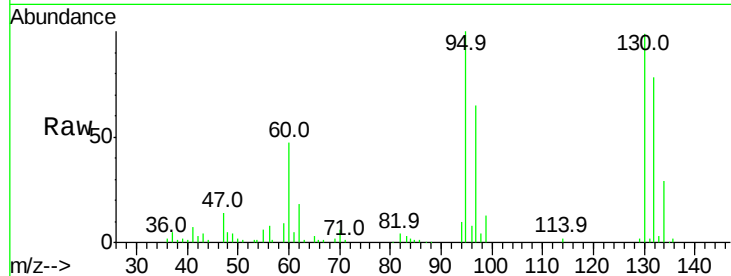
97 65.8 57.0 85.4

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#52

Tetrachloroethene

Concen: 14.001 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.03 min

Lab File: VL038205.D

Acq: 17 Dec 2021 1:37

Tgt Ion:164 Resp: 1312297

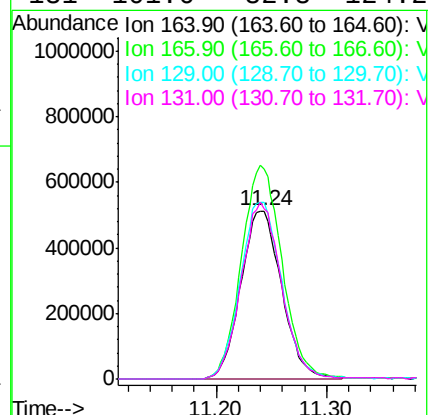
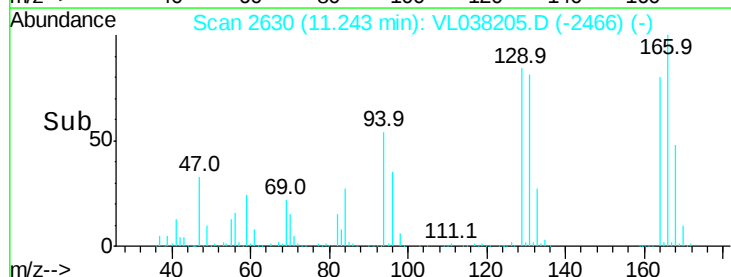
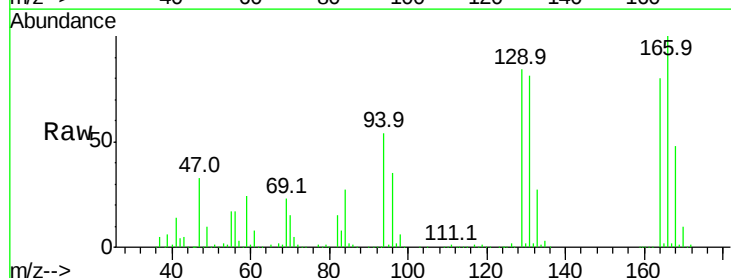
Ion Ratio Lower Upper

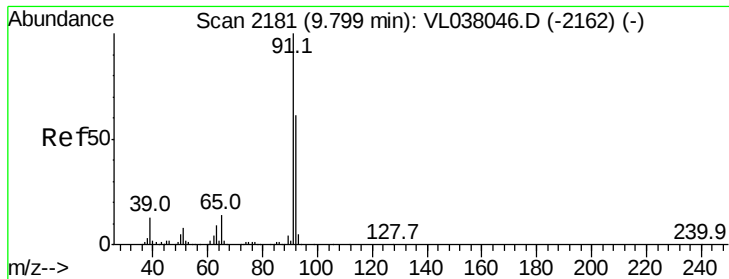
164 100

166 124.8 97.2 145.8

129 105.2 86.9 130.3

131 101.6 82.8 124.2



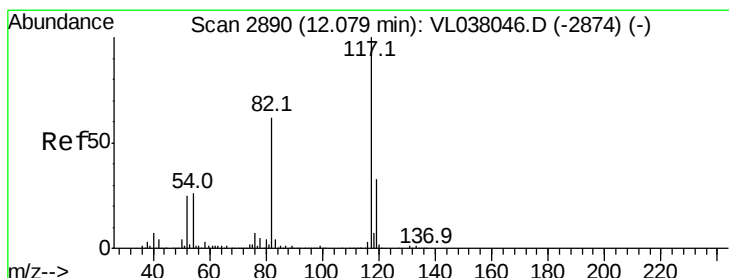
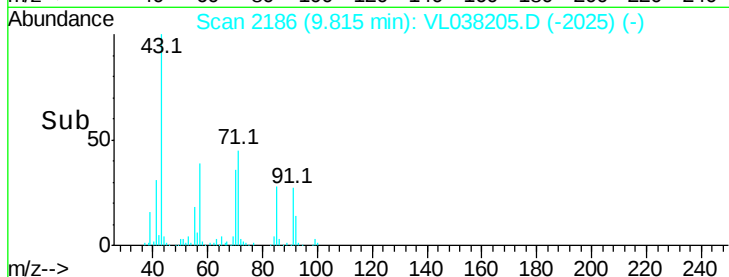
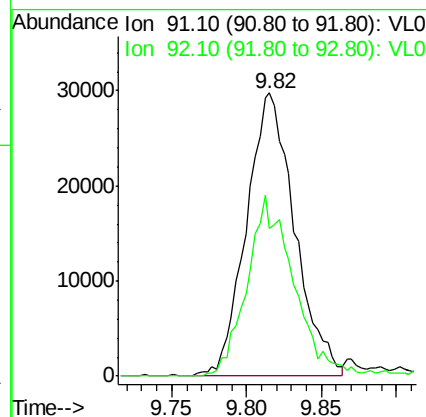
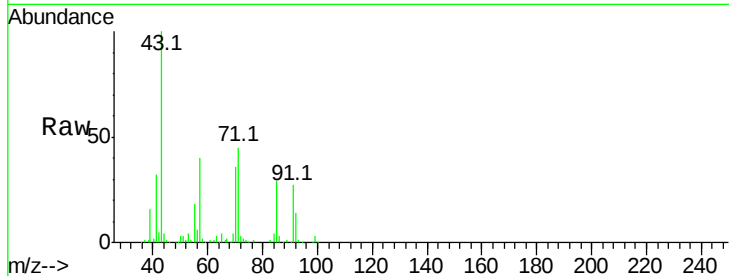


#53  
Toluene  
Concen: 0.229 ppbv  
RT: 9.82  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 1:37

Tot Ion:  
Ion Ratio  
91 100  
92 63.

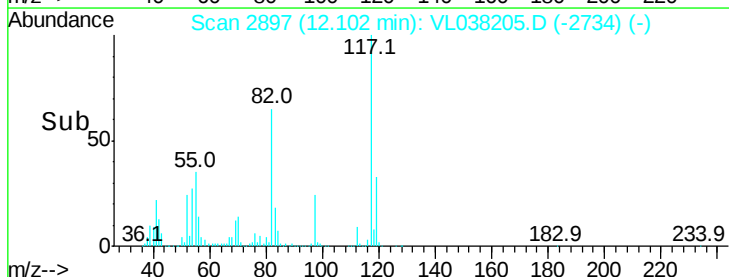
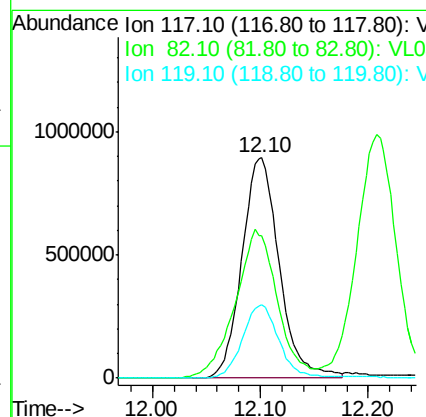
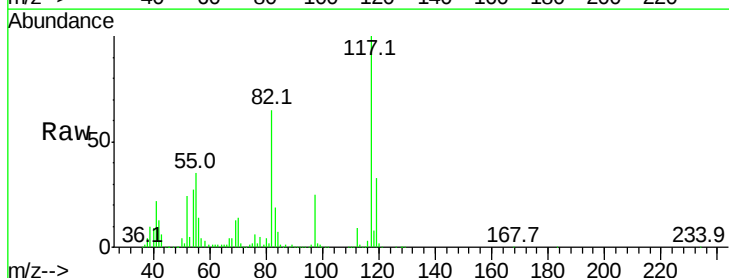
Manual Integrations  
APPROVED

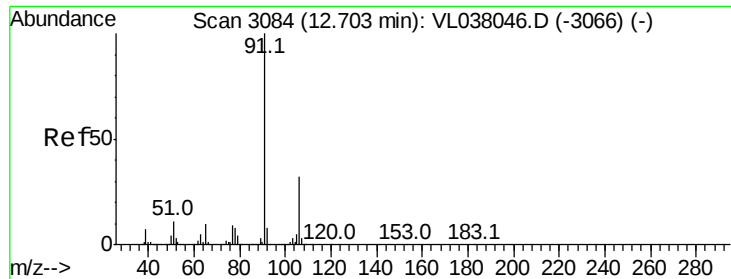
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.10 min Scan# 2897  
Delta R.T. 0.02 min  
Lab File: VL038205.D  
Acq: 17 Dec 2021 1:37

Tgt Ion:117 Resp: 2154347  
Ion Ratio Lower Upper  
117 100  
82 76.3 52.8 79.2  
119 33.5 26.8 40.2



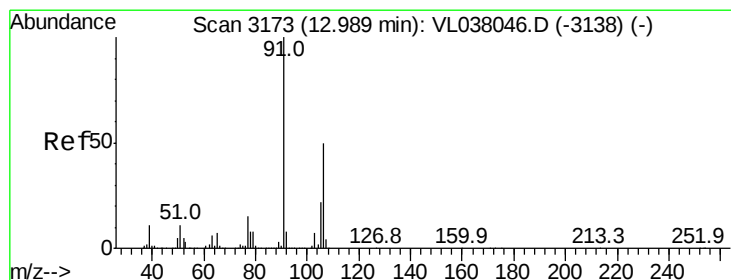
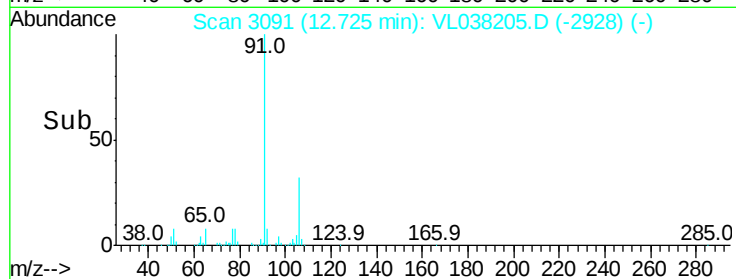
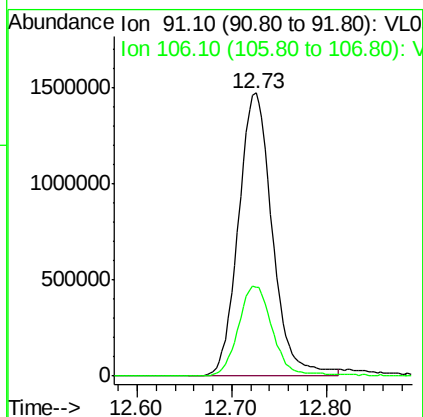
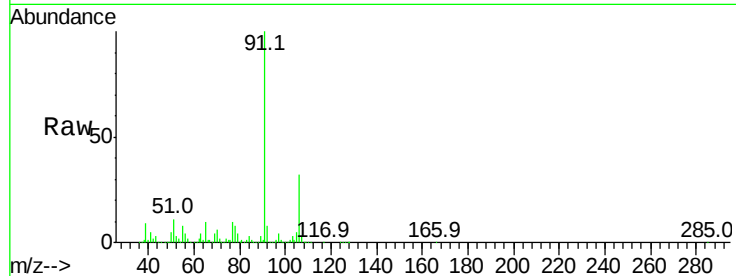


#58  
Ethyl Benzene  
Concen: 10.303 ppbv  
RT: 12.73 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 1:37

Tot Ion:  
Ion Ratio  
91 100  
106 31.

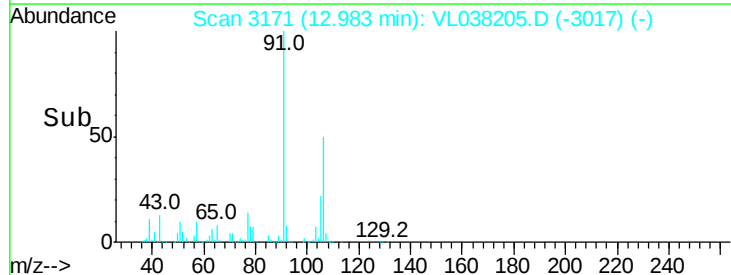
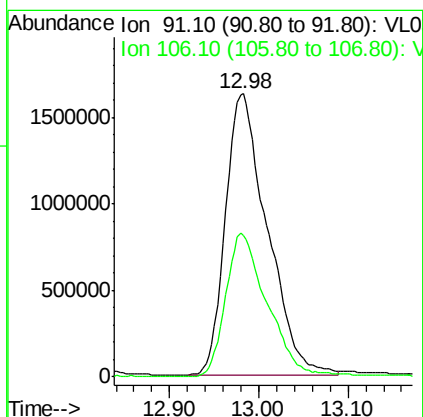
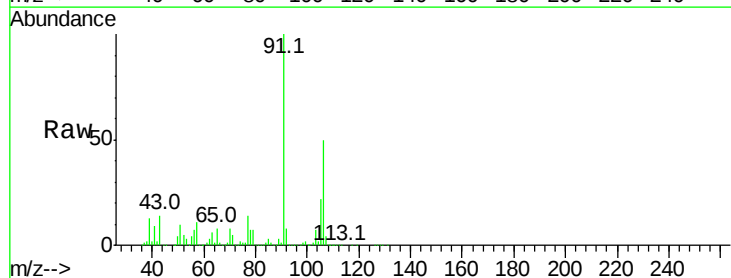
Manual Integrations  
APPROVED

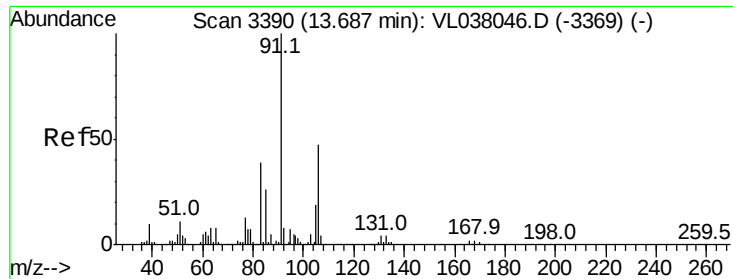
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#59  
m/p-Xylene  
Concen: 17.593 ppbv  
RT: 12.98 min Scan# 3171  
Delta R.T. -0.01 min  
Lab File: VL038205.D  
Acq: 17 Dec 2021 1:37

Tgt Ion: 91 Resp: 5273293  
Ion Ratio Lower Upper  
91 100  
106 50.8 38.1 57.1



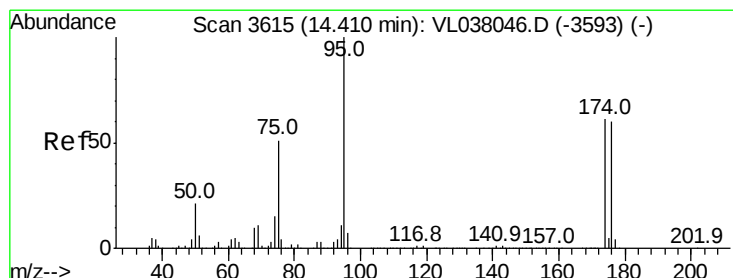
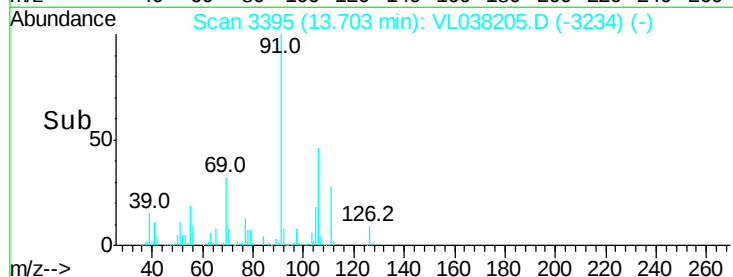
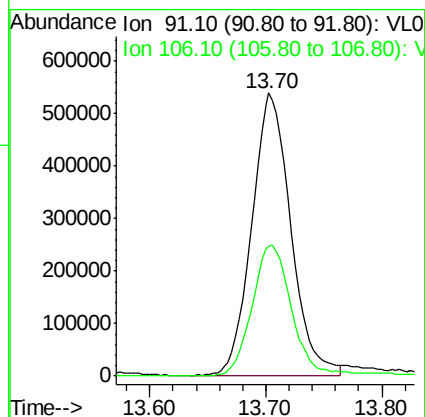
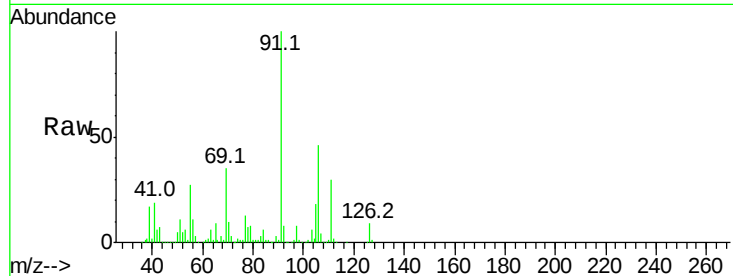


#60  
o-Xylene  
Concen: 4.523 ppbv  
RT: 13.70  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 1:37

Tot Ion:  
Ion Ratio  
91 100  
106 49.

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#68  
1-Bromo-4-Fluorobenzene  
Concen: 12.146 ppbv  
RT: 14.42 min Scan# 3619  
Delta R.T. 0.01 min  
Lab File: VL038205.D  
Acq: 17 Dec 2021 1:37

Tgt Ion: 95 Resp: 1887405  
Ion Ratio Lower Upper  
95 100  
174 60.9 53.1 79.7  
175 4.6 4.0 6.0

