

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\  
 Data File : VL036812.D  
 Acq On : 13 Apr 2021 20:58  
 Operator : SY/AP  
 Sample : M2018-04  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 SG4

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/14/2021  
 Supervised By : Mahesh Dadoda 04/14/2021

Quant Time: Apr 14 09:41:06 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1371790  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3384312  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2744307  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2033099  | 9.30     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 93.00% |

Target Compounds

|                            |       |     |          |               | Ovalue |
|----------------------------|-------|-----|----------|---------------|--------|
| 2) Dichlorodifluoromethane | 3.04  | 85  | 31238    | 0.140 ppbv    | 91     |
| 3) Chlorodifluoromethane   | 2.98  | 51  | 44936    | 0.175 ppbv    | 95     |
| 4) Chloromethane           | 3.13  | 50  | 23835    | 0.263 ppbv    | 96     |
| 9) Propene                 | 3.02  | 41  | 359017   | 4.394 ppbv #  | 79     |
| 10) Heptane                | 8.12  | 43  | 1544833  | 7.422 ppbv    | 100    |
| 11) Trichlorofluoromethane | 3.94  | 101 | 50473    | 0.221 ppbv    | 95     |
| 13) Ethanol                | 3.61  | 45  | 415890   | 42.743 ppbv   | 92     |
| 15) Acetone                | 3.84  | 43  | 11030606 | 81.698 ppbv   | 94     |
| 17) tert-Butyl alcohol     | 4.30  | 59  | 488242   | 4.154 ppbv    | 97     |
| 19) Isopropyl Alcohol      | 3.98  | 45  | 1113541  | 14.993 ppbv # | 89     |
| 20) Methylene Chloride     | 4.34  | 84  | 1124418  | 17.787 ppbv   | 98     |
| 26) Hexane                 | 5.68  | 57  | 1026657  | 6.892 ppbv #  | 48     |
| 27) Carbon Disulfide       | 4.55  | 76  | 418352   | 2.851 ppbv    | 95     |
| 30) Cyclohexane            | 7.13  | 84  | 132542m  | 1.097 ppbv    |        |
| 32) 1,1,1-Trichloroethane  | 6.51  | 97  | 93874m   | 0.391 ppbv    |        |
| 34) 2-Butanone             | 5.25  | 43  | 520948   | 3.153 ppbv    | 97     |
| 35) Carbon Tetrachloride   | 7.02  | 117 | 25460m   | 0.098 ppbv    |        |
| 36) Benzene                | 6.89  | 78  | 127198m  | 0.408 ppbv    |        |
| 52) Tetrachloroethene      | 11.23 | 164 | 14343m   | 0.125 ppbv    |        |
| 53) Toluene                | 9.81  | 91  | 1364630  | 4.106 ppbv    | 99     |
| 58) Ethyl Benzene          | 12.72 | 91  | 403621   | 1.011 ppbv    | 93     |
| 59) m/p-Xylene             | 12.97 | 91  | 914606   | 2.626 ppbv    | 93     |
| 60) o-Xylene               | 13.70 | 91  | 279236m  | 0.829 ppbv    |        |
| 61) Styrene                | 13.53 | 104 | 468141m  | 2.764 ppbv    |        |
| 62) Isopropylbenzene       | 14.67 | 105 | 9851200  | 21.725 ppbv   | 96     |
| 64) n-propylbenzene        | 15.57 | 120 | 25955m   | 0.234 ppbv    |        |
| 72) 4-Ethyltoluene         | 15.84 | 105 | 127798   | 0.346 ppbv    | 96     |
| 73) 1,3,5-Trimethylbenzene | 16.00 | 105 | 73181m   | 0.213 ppbv    |        |
| 74) 1,2,4-Trimethylbenzene | 16.76 | 105 | 238312   | 0.647 ppbv #  | 59     |

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

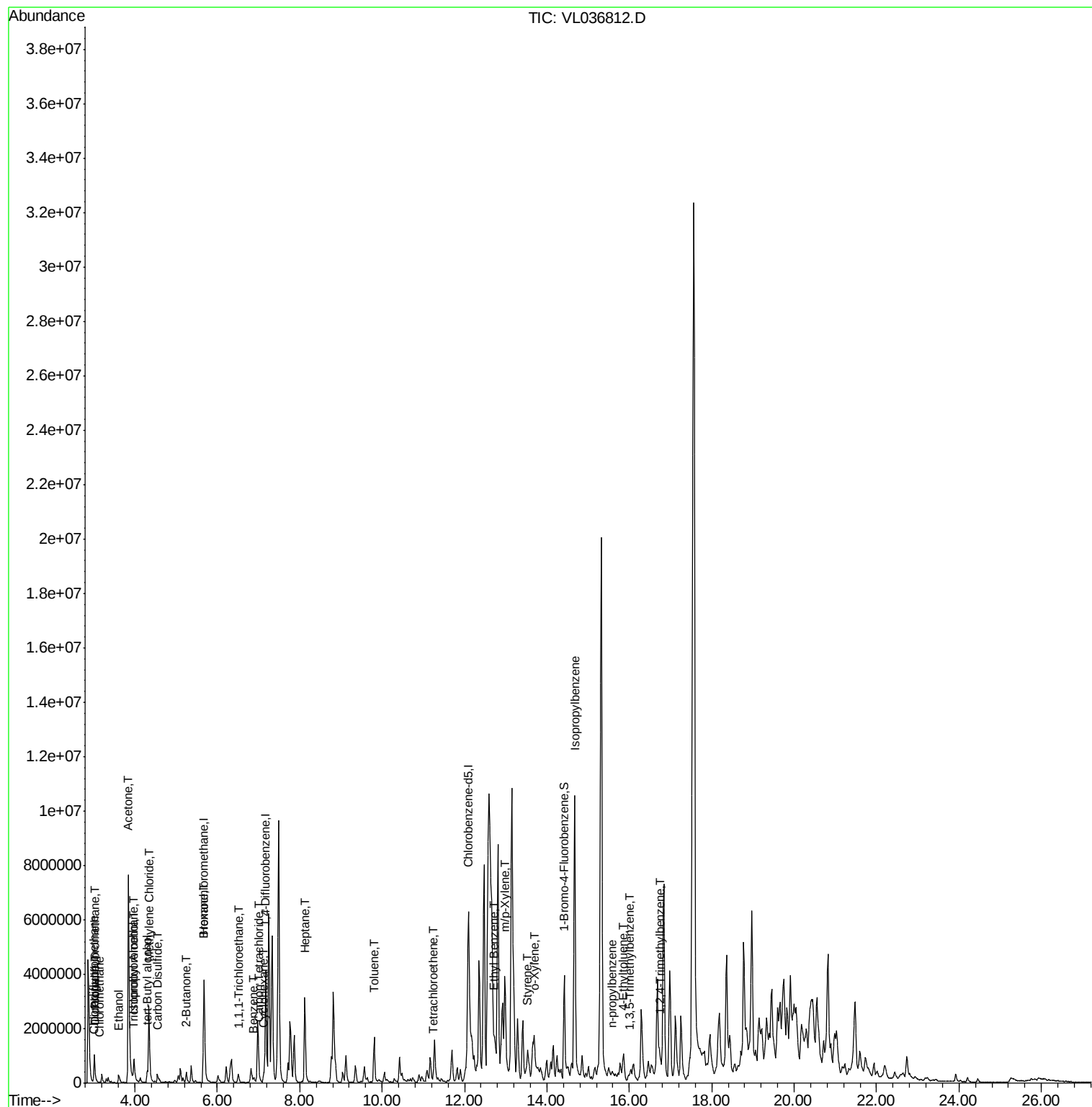
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\  
Data File : VL036812.D  
Acq On : 13 Apr 2021 20:58  
Operator : SY/AP  
Sample : M2018-04  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

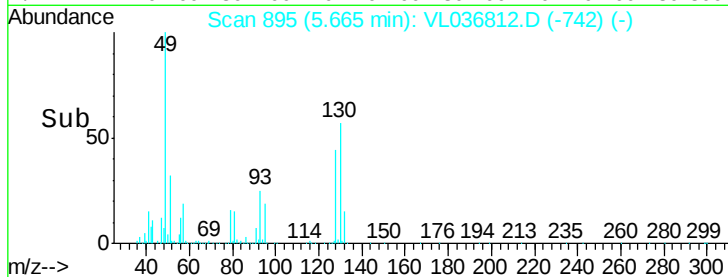
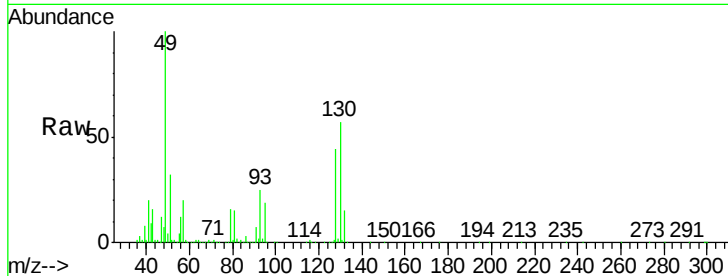
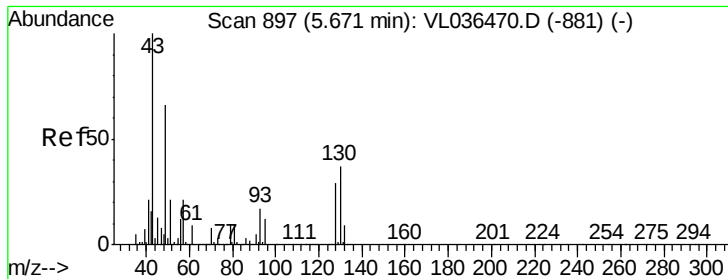
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG4

Quant Time: Apr 14 09:41:06 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Thu Mar 25 09:42:40 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA\_L

Delta R.T. ClientSampleId:

Lab File: SG4

Acq: 13 Apr 2021 20:58

Tot Ion:

Ion Ratio

49 100

128 46.

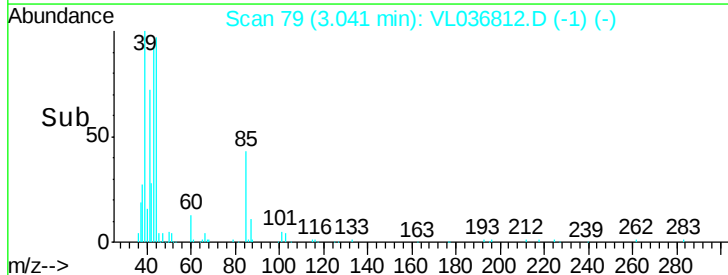
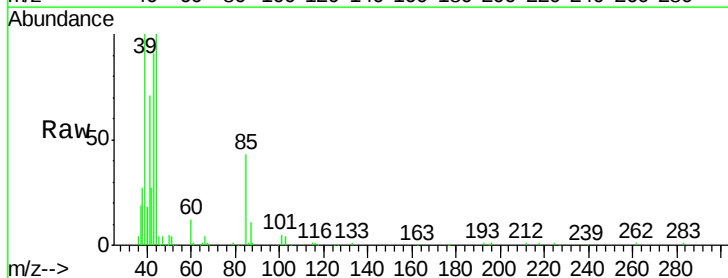
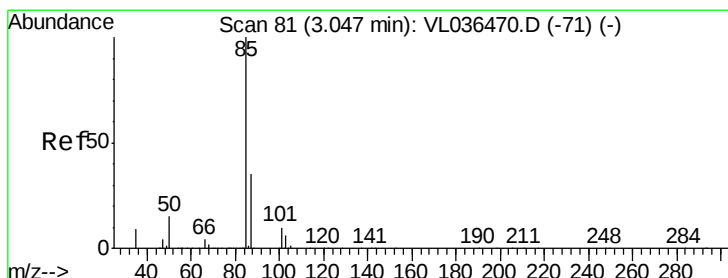
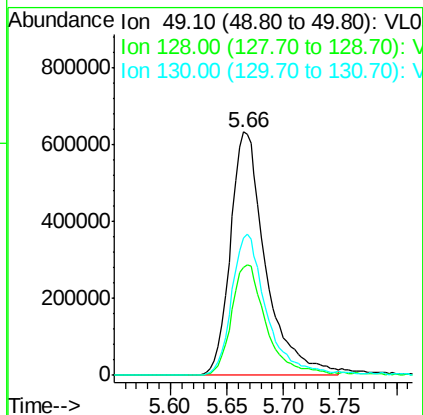
130 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#2

Dichlorodifluoromethane

Concen: 0.140 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036812.D

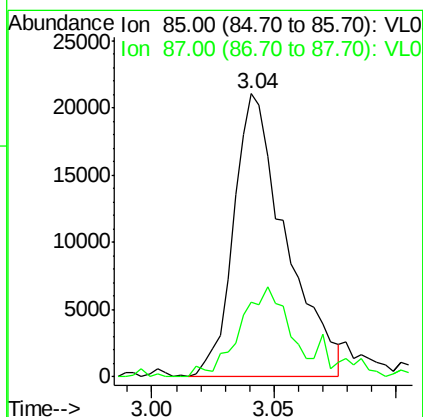
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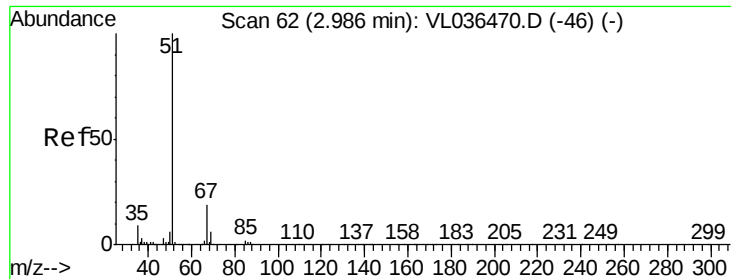
Tgt Ion: 85 Resp: 31238

Ion Ratio Lower Upper

85 100

87 29.4 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.175 ppbv

RT: 2.98 Instrument :

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 20:58

Tot Ion:

Ion Ratio

51 100

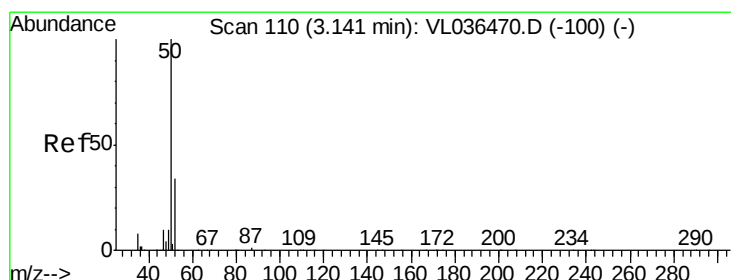
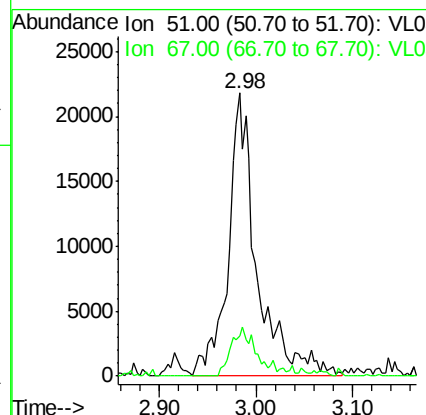
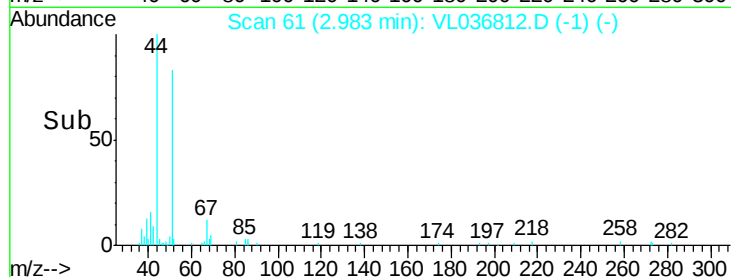
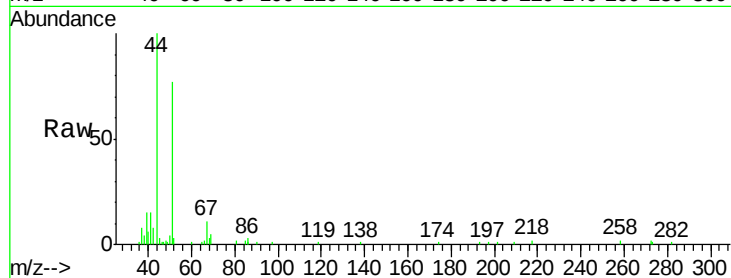
67 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#4

Chloromethane

Concen: 0.263 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036812.D

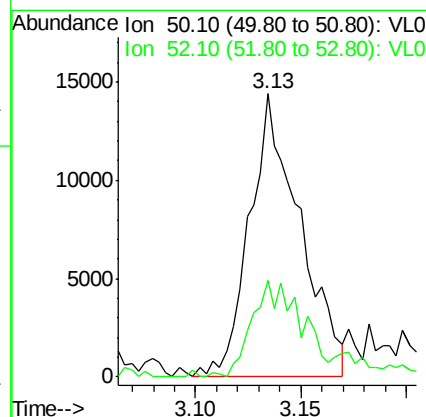
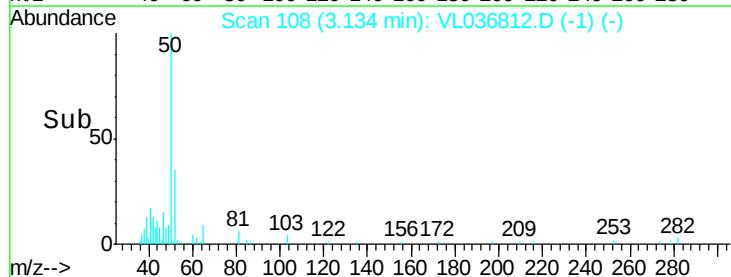
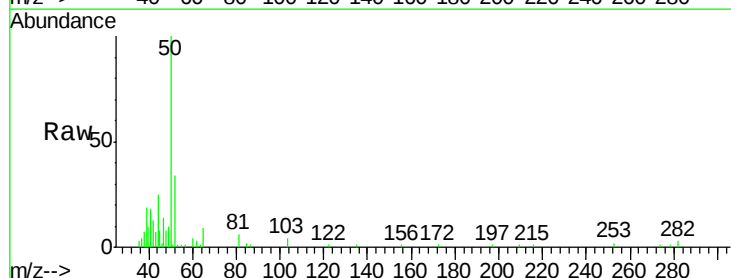
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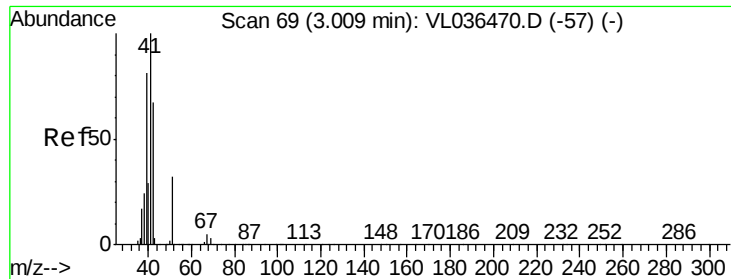
Tgt Ion: 50 Resp: 23835

Ion Ratio Lower Upper

50 100

52 31.6 27.0 40.6



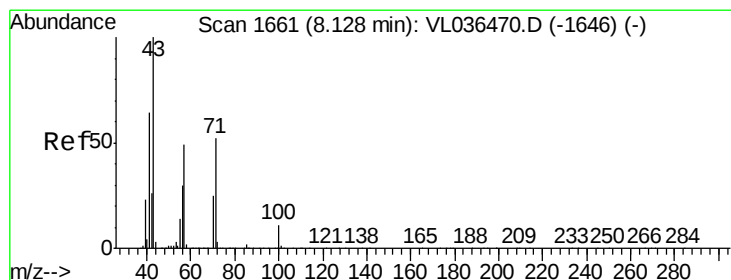
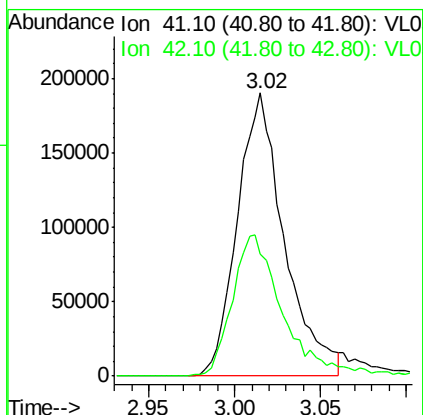
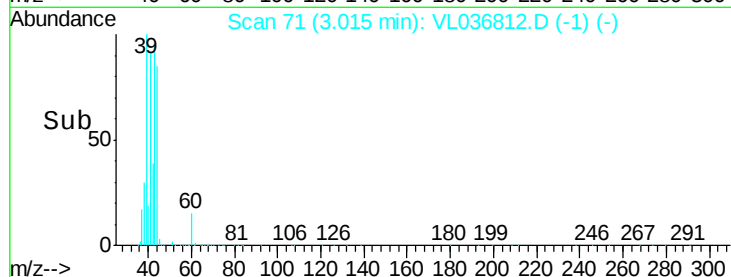
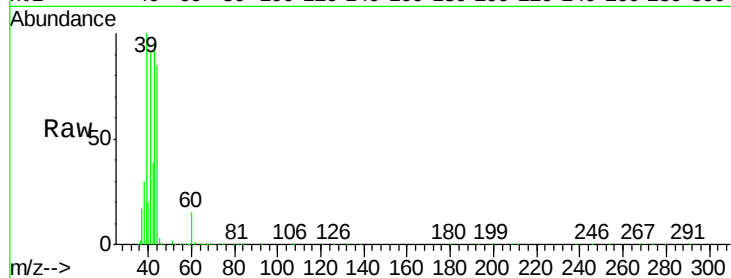


#9  
 Propene  
 Concen: 4.394 ppbv  
 RT: 3.02  
 Delta R.T.: MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 13 Apr 2021 20:58

Tot Ion:  
 Ion Ratio  
 41 100  
 42 54.

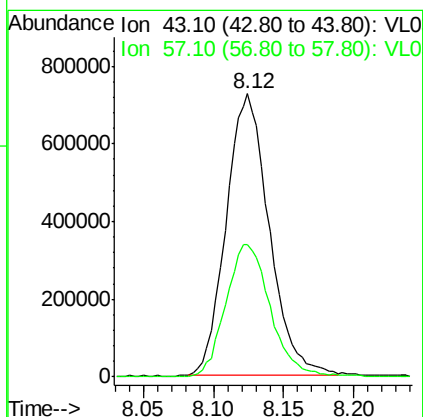
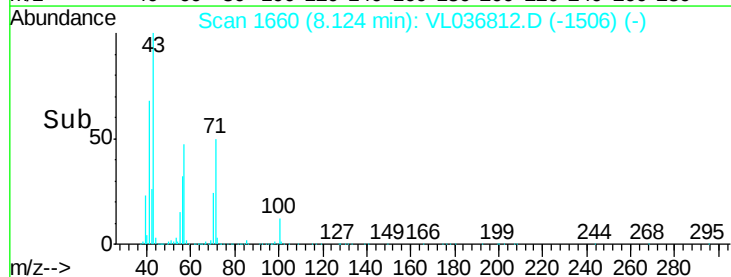
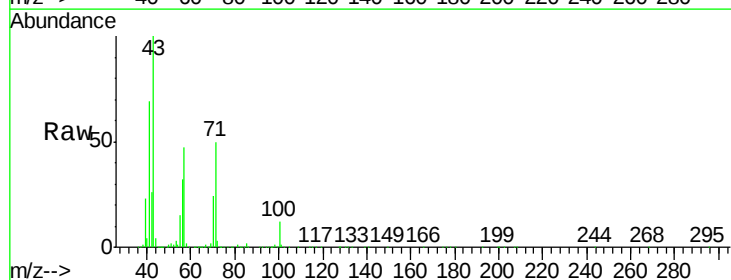
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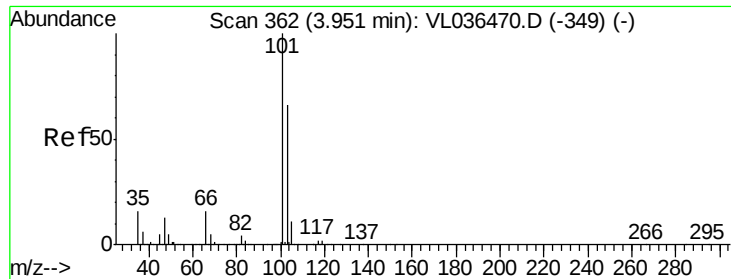
Reviewed By :Semsettin Yesilyurt 04/14/2021  
 Supervised By :Mahesh Dadoda 04/14/2021



#10  
 Heptane  
 Concen: 7.422 ppbv  
 RT: 8.12 min Scan# 1660  
 Delta R.T.: -0.00 min  
 Lab File: VL036812.D  
 Acq: 13 Apr 2021 20:58

Tgt Ion: 43 Resp: 1544833  
 Ion Ratio Lower Upper  
 43 100  
 57 48.7 39.0 58.6



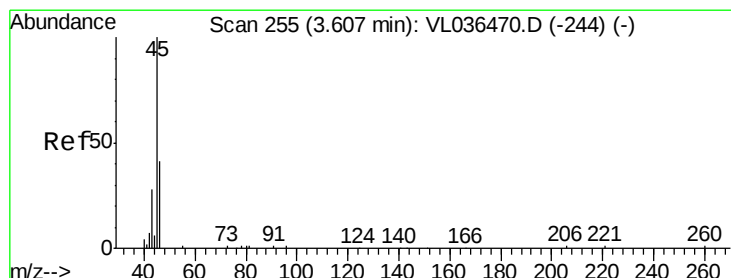
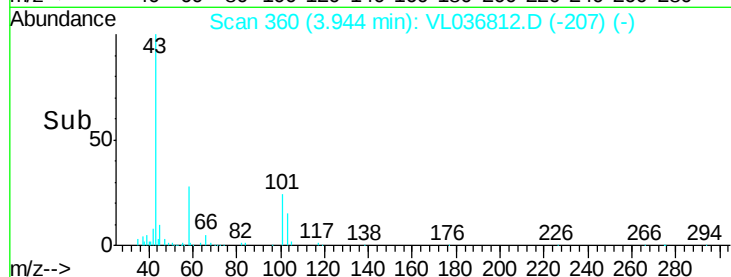
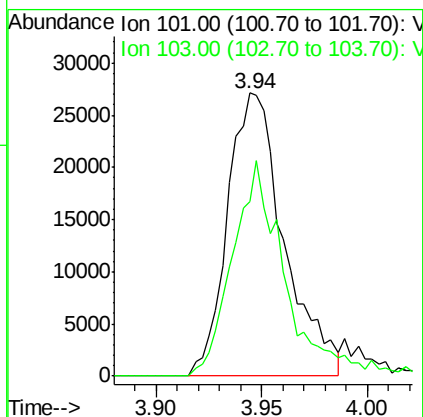
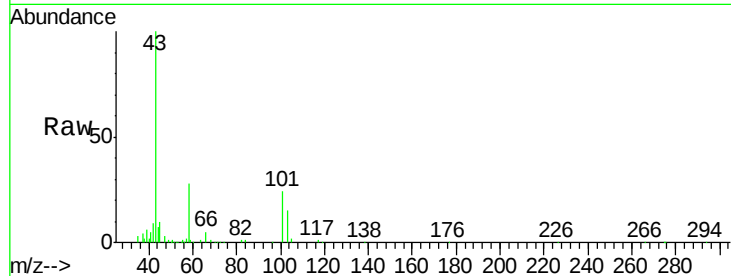


#11  
 Trichlorofluoromethane  
 Concen: 0.221 ppbv  
 RT: 3.94  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 13 Apr 2021 20:58

Tot Ion:1  
 Ion Rati  
 101 100  
 103 61.

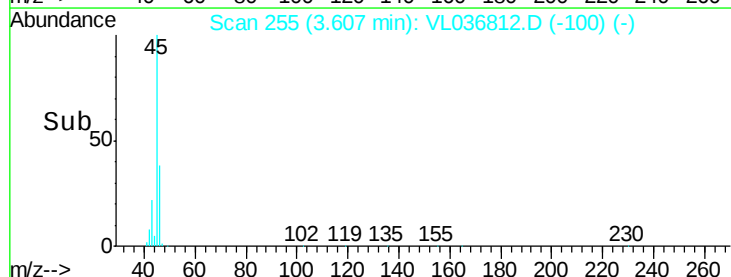
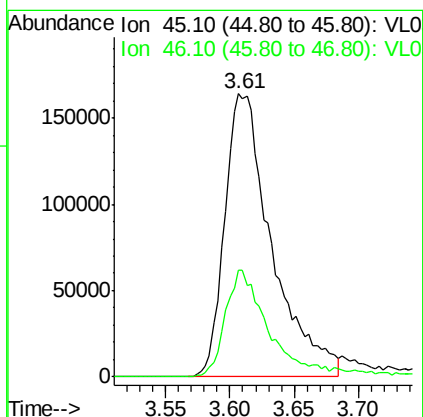
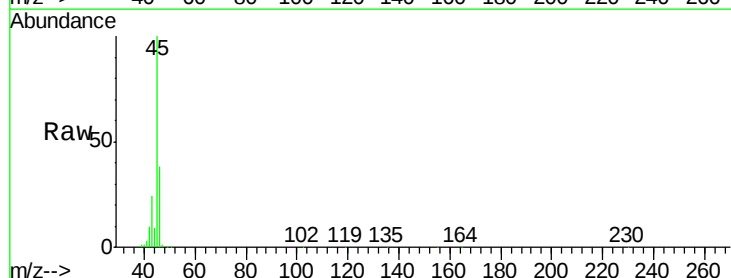
Manual Integrations  
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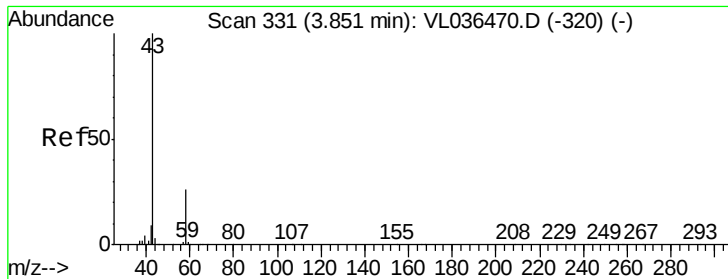
Reviewed By :Semsettin Yesilyurt 04/14/2021  
 Supervised By :Mahesh Dadoda 04/14/2021



#13  
 Ethanol  
 Concen: 42.743 ppbv  
 RT: 3.61 min Scan# 255  
 Delta R.T. -0.00 min  
 Lab File: VL036812.D  
 Acq: 13 Apr 2021 20:58

Tgt Ion: 45 Resp: 415890  
 Ion Ratio Lower Upper  
 45 100  
 46 36.6 16.6 66.2





#15

Acetone

Concen: 81.698 ppbv

RT: 3.84

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 20:58

Tot Ion:

Ion Ratio

43 100

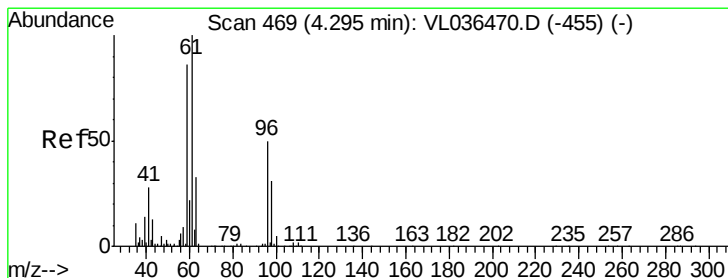
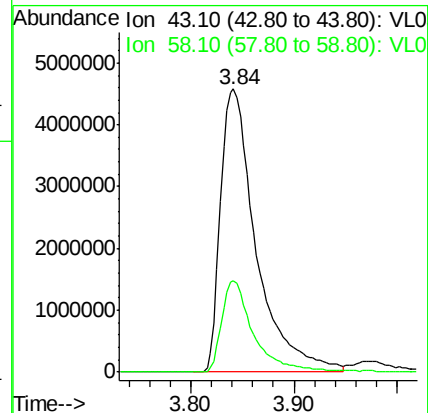
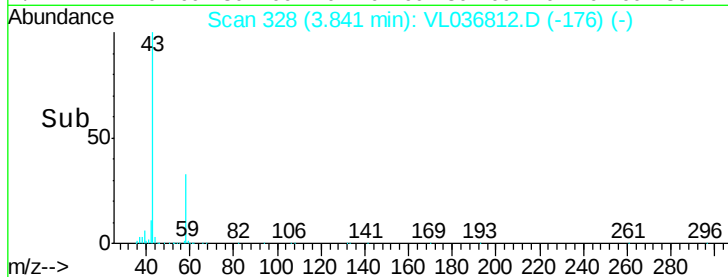
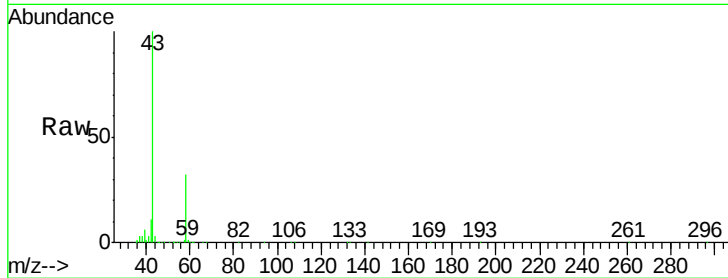
58 29.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#17

tert-Butyl alcohol

Concen: 4.154 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL036812.D

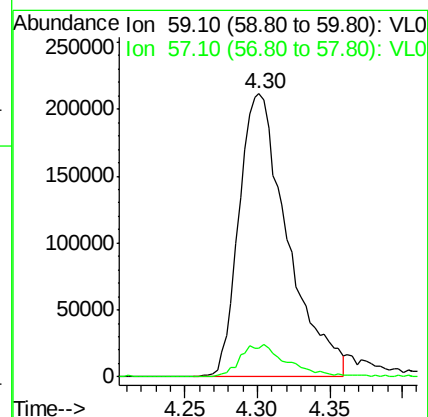
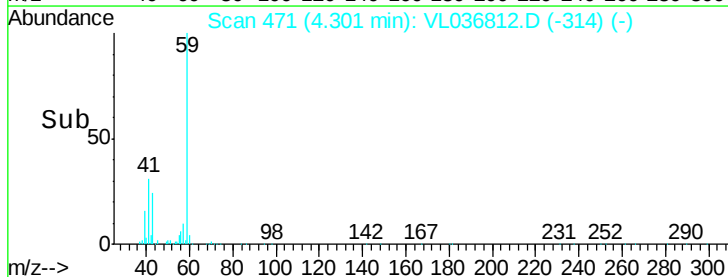
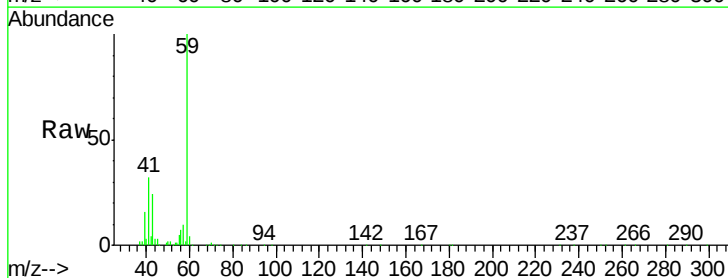
Acq: 13 Apr 2021 20:58

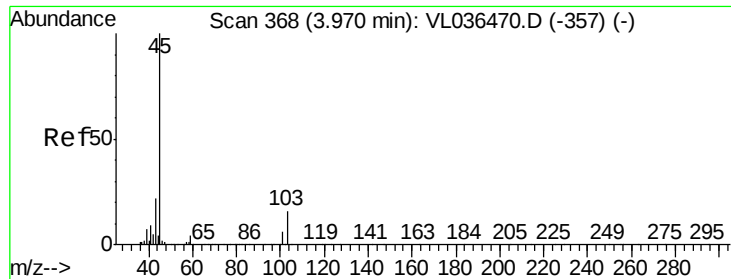
Tgt Ion: 59 Resp: 488242

Ion Ratio Lower Upper

59 100

57 11.9 8.6 12.8





#19

Isopropyl Alcohol

Concen: 14.993 ppbv

RT: 3.98

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 20:58

Tot Ion:

Ion Ratio

45 100

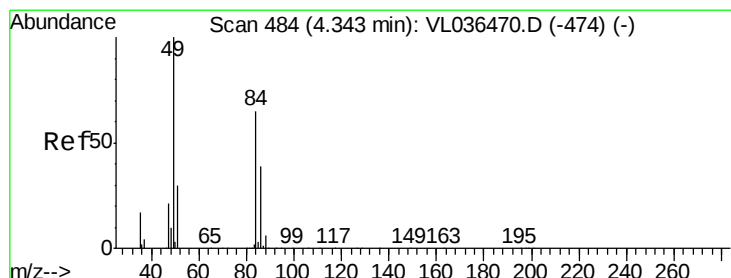
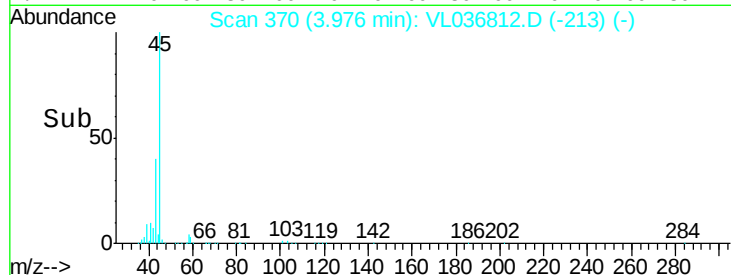
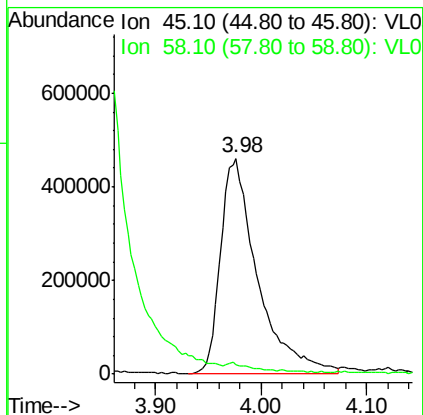
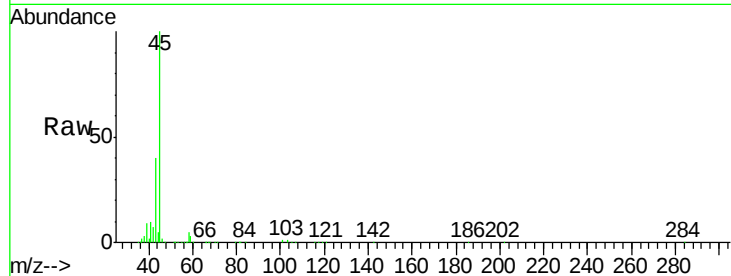
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#20

Methylene Chloride

Concen: 17.787 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036812.D

Acq: 13 Apr 2021 20:58

Tgt Ion: 84 Resp: 1124418

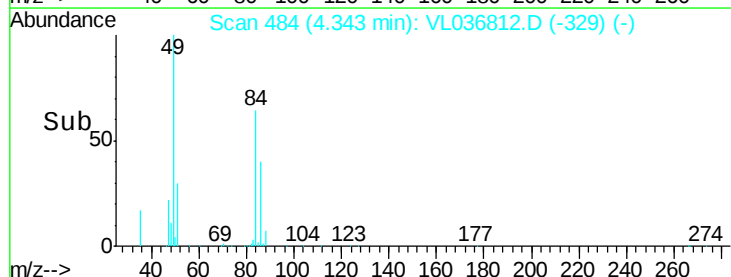
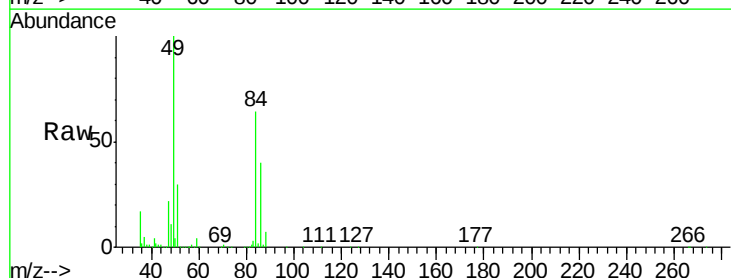
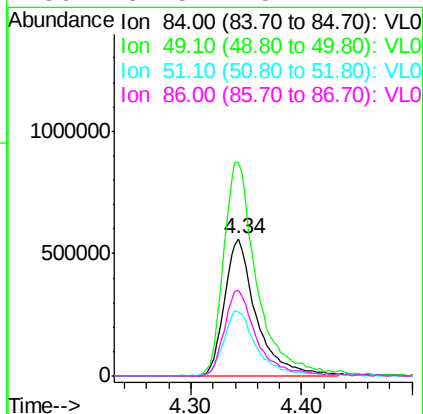
Ion Ratio Lower Upper

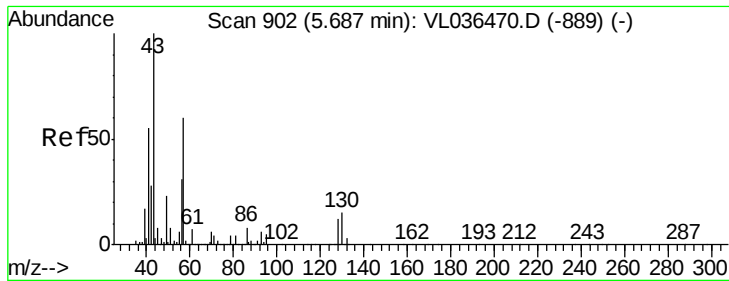
84 100

49 155.2 122.9 184.3

51 46.3 36.9 55.3

86 62.5 48.2 72.4



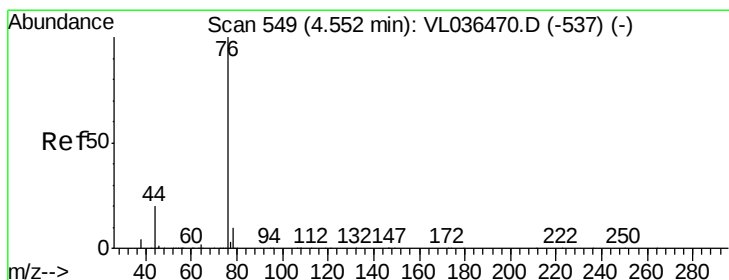
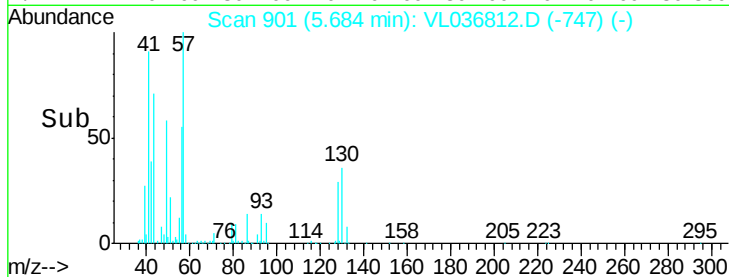
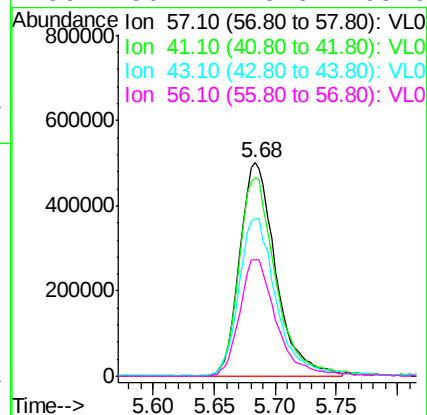
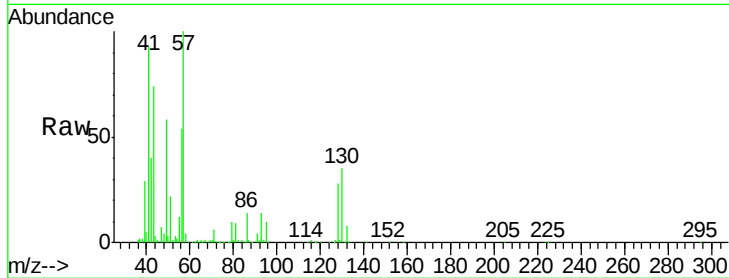


#26  
Hexane  
Concen: 6.892 ppbv  
RT: 5.68  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 13 Apr 2021 20:58

Tot Ion:  
Ion Ratio  
57 100  
41 95.  
43 76.  
56 56.1 43.8 65.6

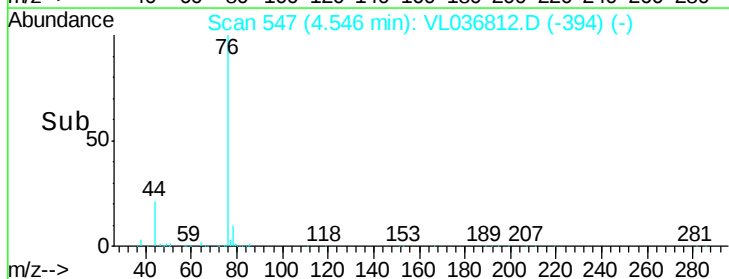
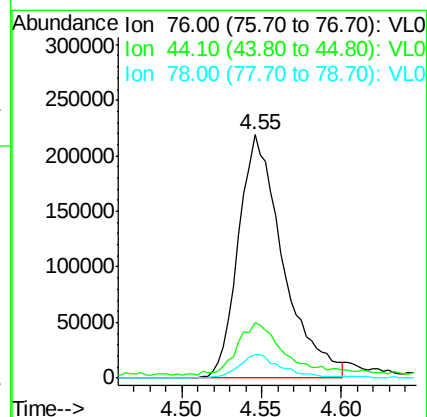
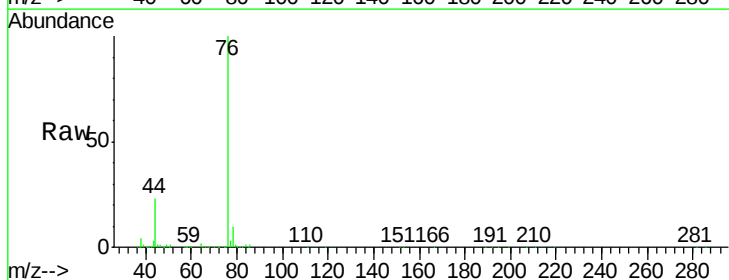
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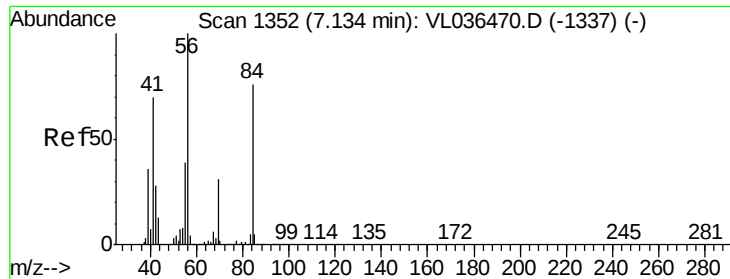
Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021



#27  
Carbon Disulfide  
Concen: 2.851 ppbv  
RT: 4.55 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: VL036812.D  
Acq: 13 Apr 2021 20:58

Tgt Ion: 76 Resp: 418352  
Ion Ratio Lower Upper  
76 100  
44 25.0 17.5 26.3  
78 10.1 8.6 13.0



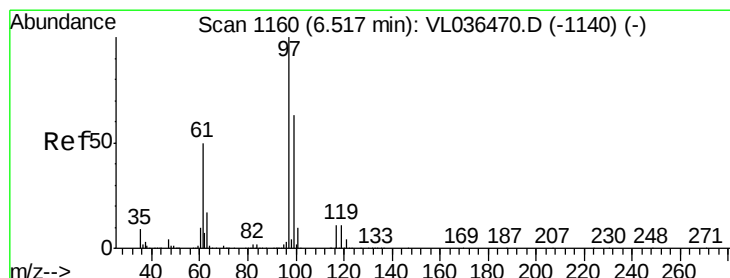
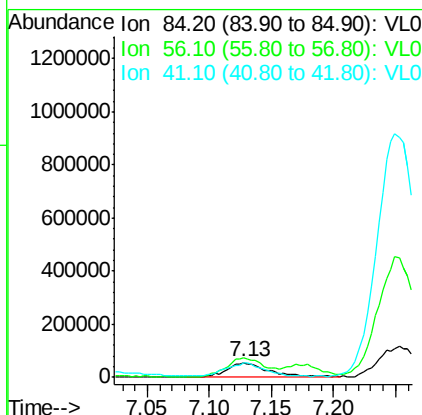
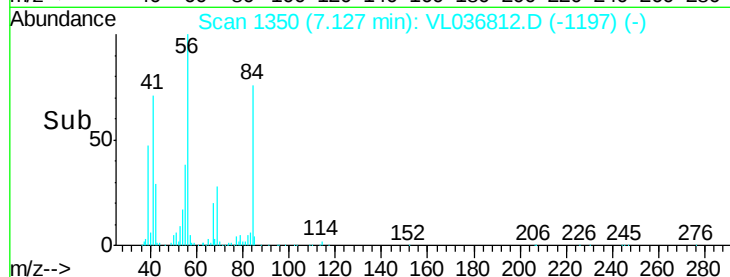
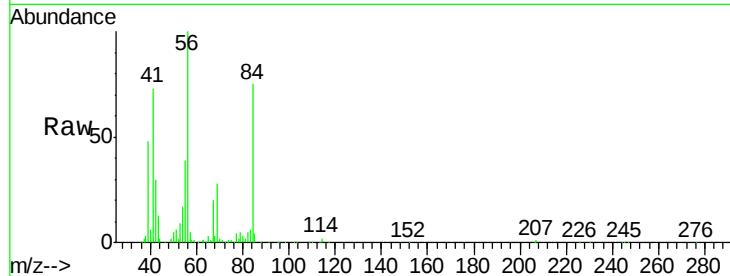


#30  
Cvclohexane  
Concen: 1.097 ppbv m  
RT: 7.13  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 13 Apr 2021 20:58

Tot Ion:  
Ion Ratio  
84 100  
56 114.  
41 84.

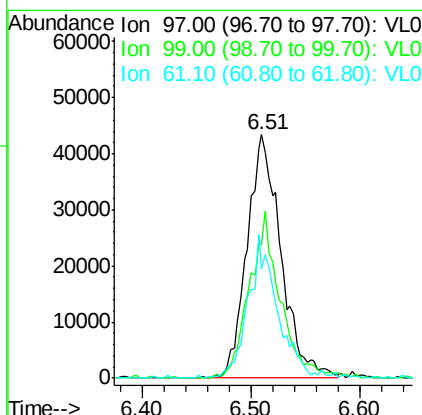
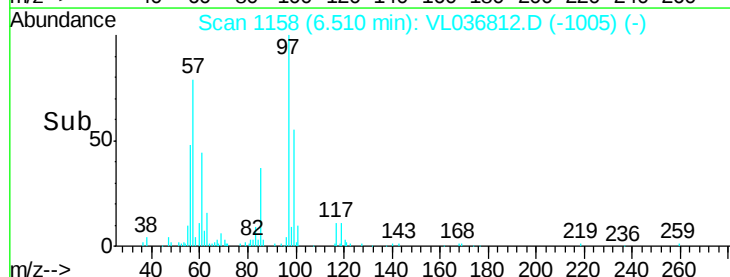
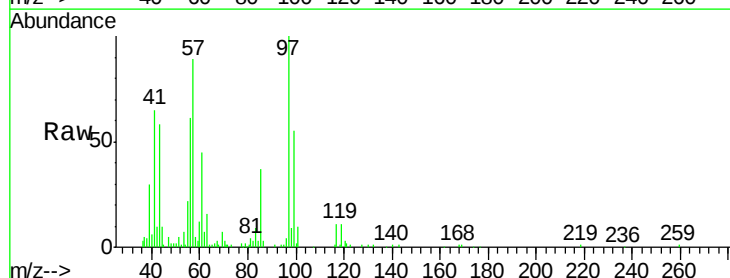
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APPROVED

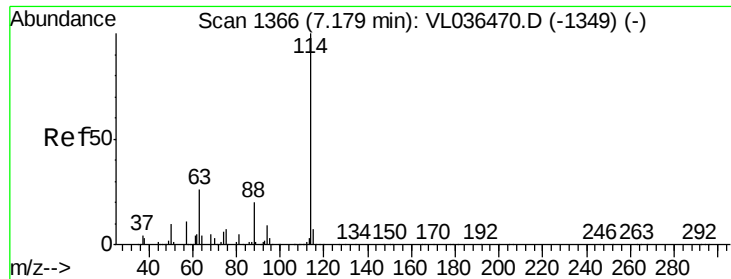
Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021



#32  
1,1,1-Trichloroethane  
Concen: 0.391 ppbv m  
RT: 6.51 min Scan# 1158  
Delta R.T. -0.01 min  
Lab File: VL036812.D  
Acq: 13 Apr 2021 20:58

Tgt Ion: 97 Resp: 93874  
Ion Ratio Lower Upper  
97 100  
99 62.8 51.4 77.0  
61 51.7 40.6 60.8



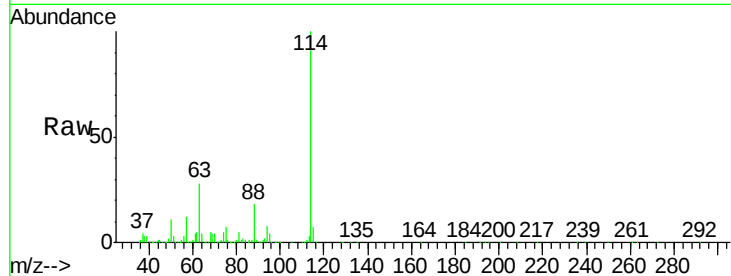


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 13 Apr 2021 20:58

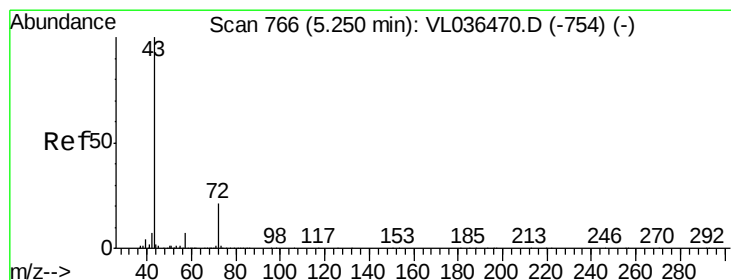
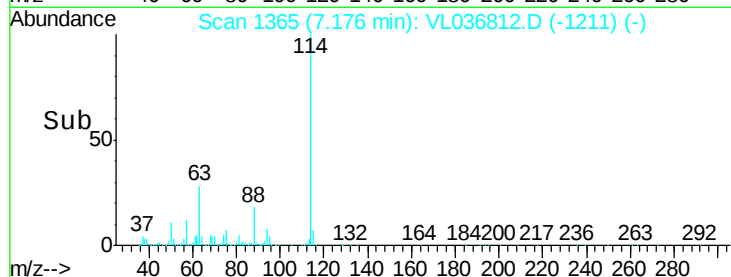
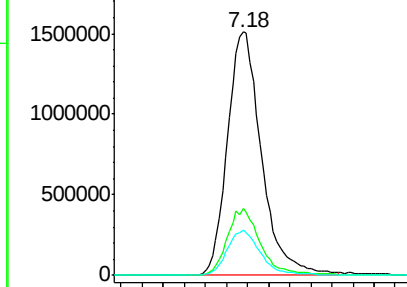
Tot Ion:1  
 Ion Rati  
 114 100  
 63 27.  
 88 18.

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/14/2021  
 Supervised By :Mahesh Dadoda 04/14/2021

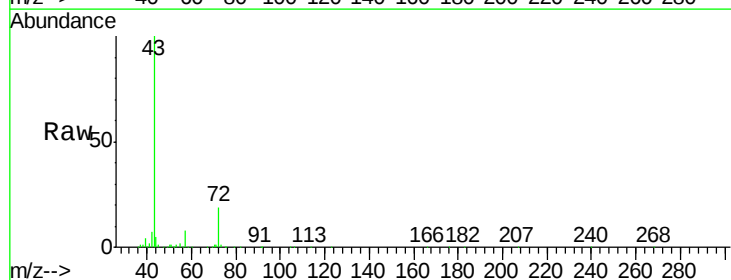


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

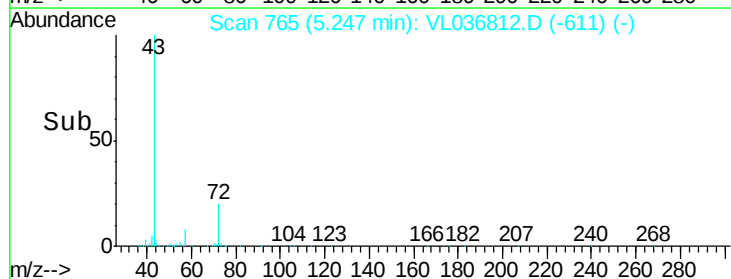
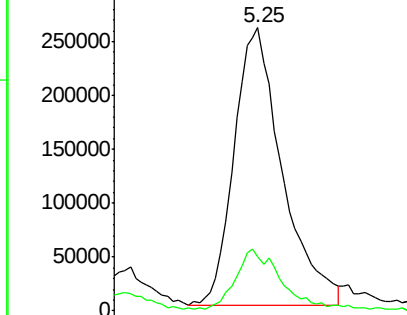


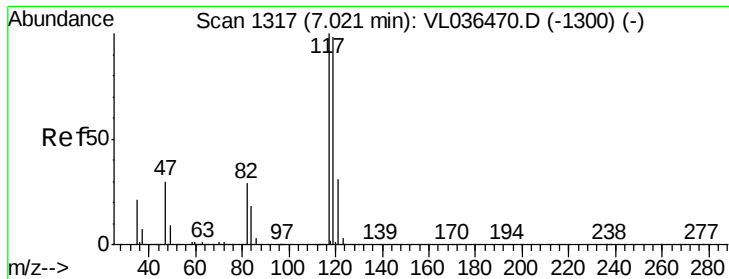
#34  
 2-Butanone  
 Concen: 3.153 ppbv  
 RT: 5.25 min Scan# 765  
 Delta R.T. -0.00 min  
 Lab File: VL036812.D  
 Acq: 13 Apr 2021 20:58

Tgt Ion: 43 Resp: 520948  
 Ion Ratio Lower Upper  
 43 100  
 72 22.6 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0



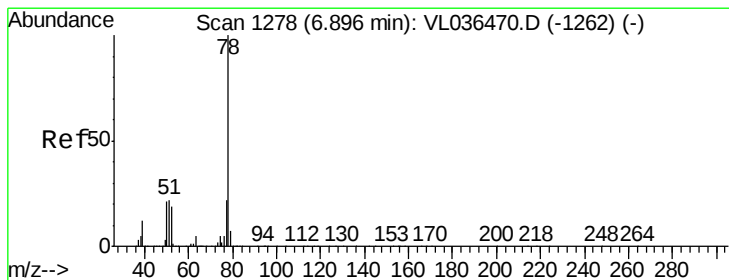
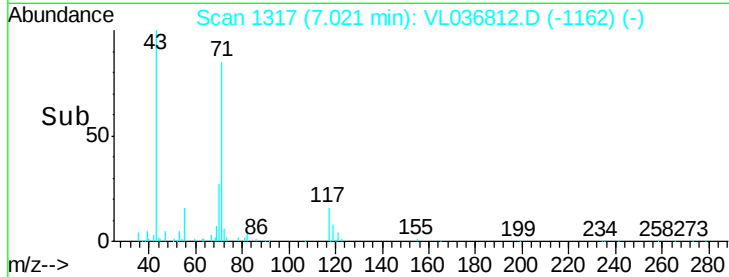
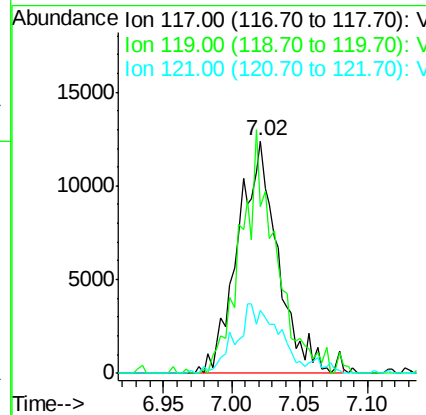
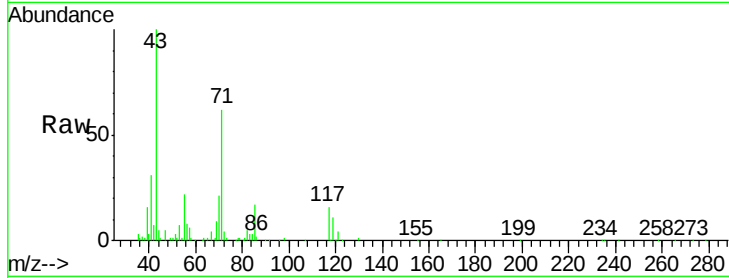


#35  
Carbon Tetrachloride  
Concen: 0.098 ppbv m  
RT: 7.02  
Instrument: MSVOA\_L  
Delta R.T.  
Lab File: ClientSampleId : SG4  
Acq: 13 Apr 2021 20:58

Tot Ion:1  
Ion Rati  
117 100  
119 71.  
121 27.

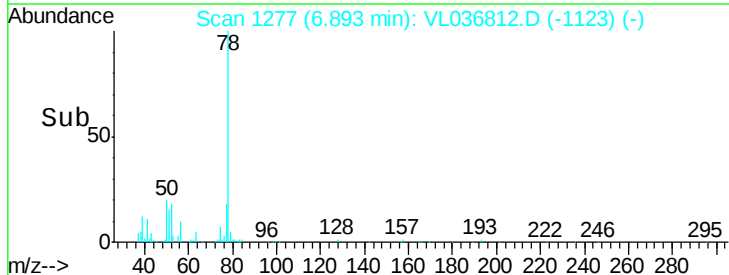
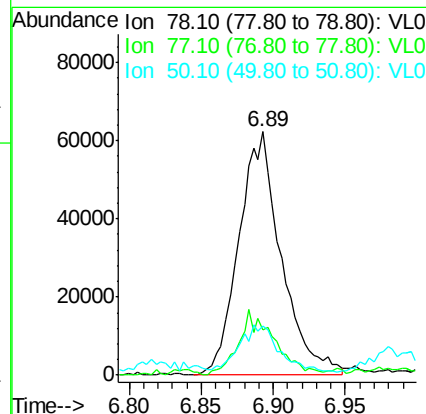
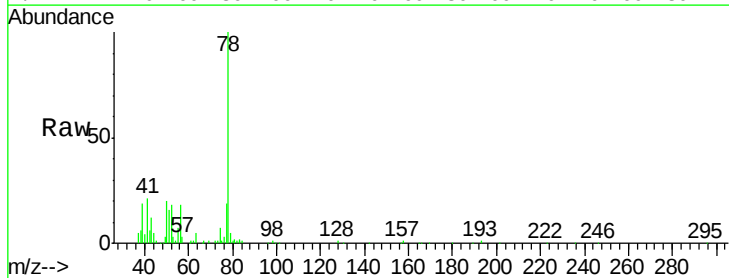
Manual Integrations  
APPROVED

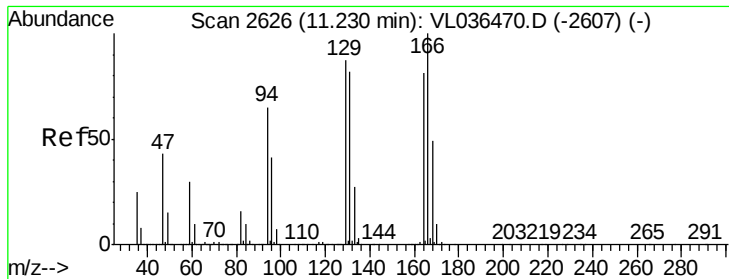
Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021



#36  
Benzene  
Concen: 0.408 ppbv m  
RT: 6.89 min Scan# 1277  
Delta R.T. -0.00 min  
Lab File: VL036812.D  
Acq: 13 Apr 2021 20:58

Tgt Ion: 78 Resp: 127198  
Ion Ratio Lower Upper  
78 100  
77 18.6 18.0 27.0  
50 20.4 16.5 24.7





#52

Tetrachloroethene

Concen: 0.125 ppbv m

RT: 11.23

Delta R.T. MSVOA\_L

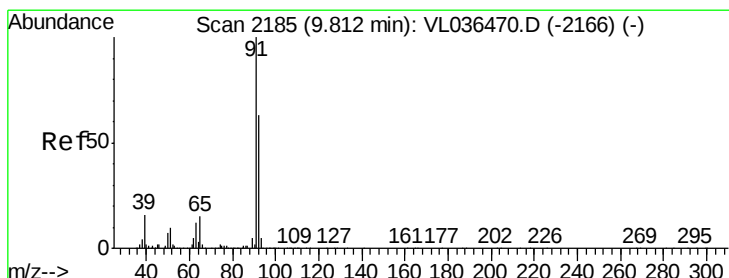
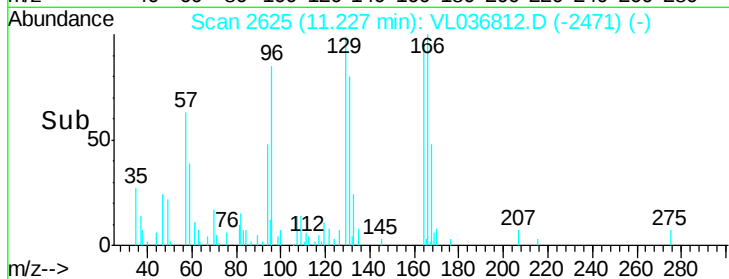
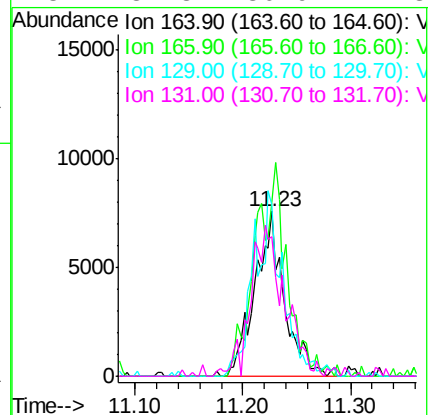
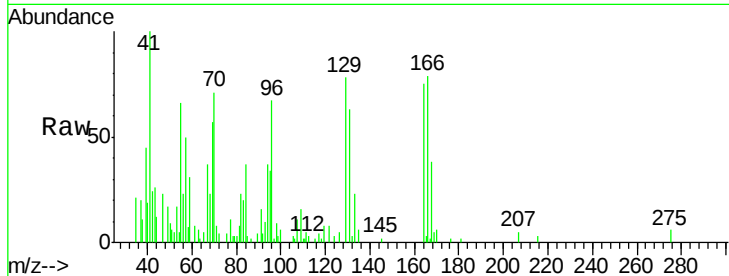
Lab File: ClientSampleId :

Acq: 13 Apr 2021 20:58

Tot Ion: 1  
Ion Ratio  
164 100  
166 105.  
129 104.  
131 84.3 80.9 121.3

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021



#53

Toluene

Concen: 4.106 ppbv

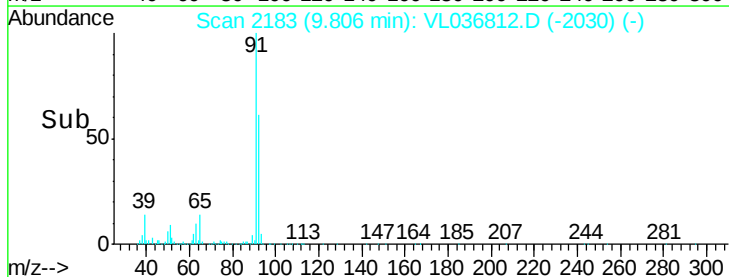
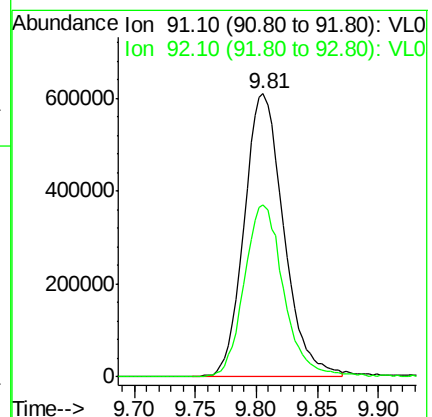
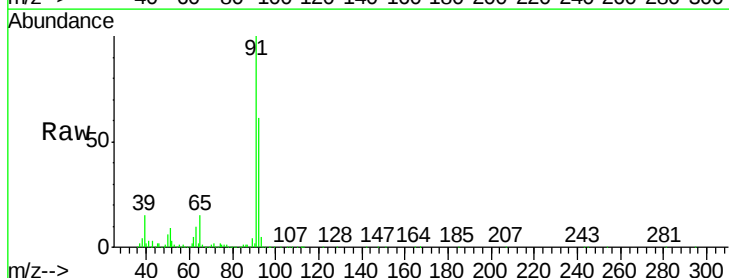
RT: 9.81 min Scan# 2183

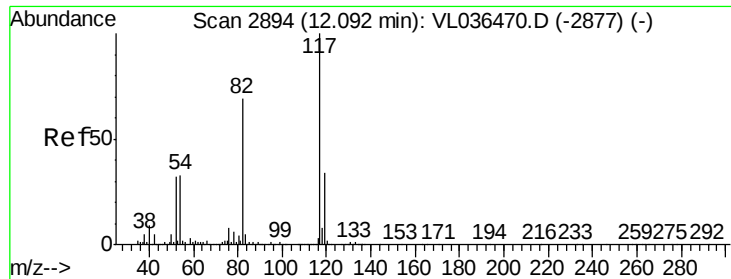
Delta R.T. -0.01 min

Lab File: VL036812.D

Acq: 13 Apr 2021 20:58

Tgt Ion: 91 Resp: 1364630  
Ion Ratio Lower Upper  
91 100  
92 61.4 48.8 73.2



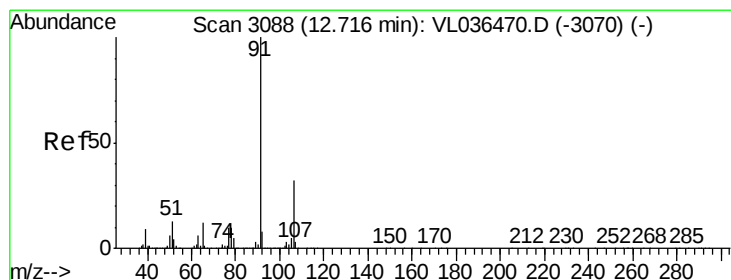
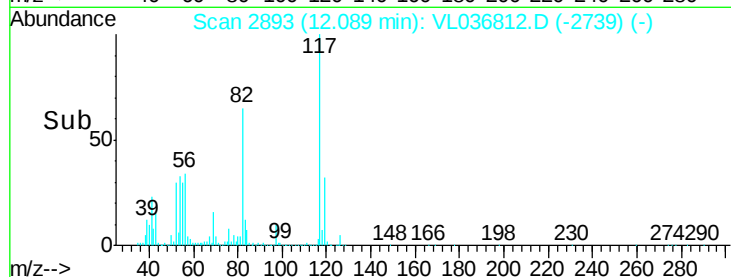
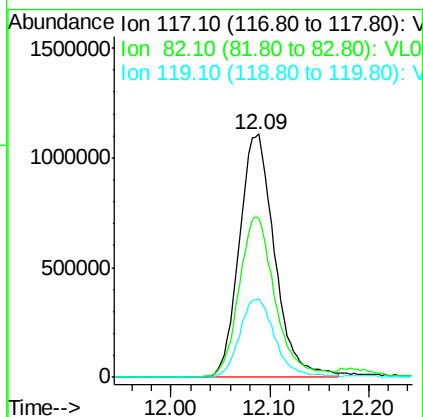
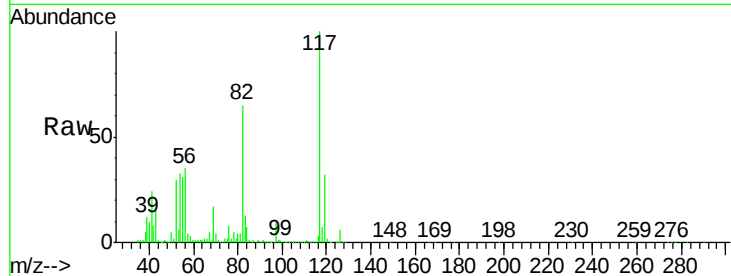


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 13 Apr 2021 20:58

Tot Ion: 1  
Ion Ratio  
117 100  
82 67.  
119 33.

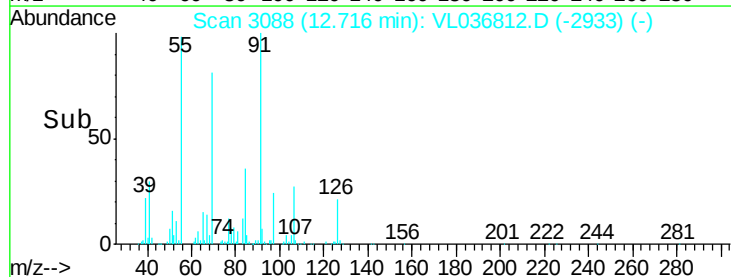
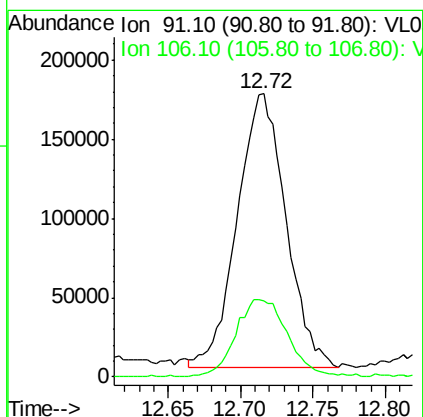
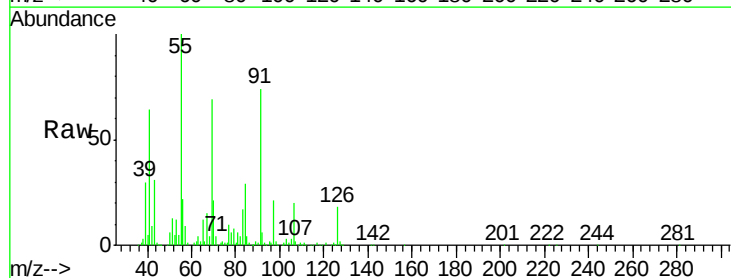
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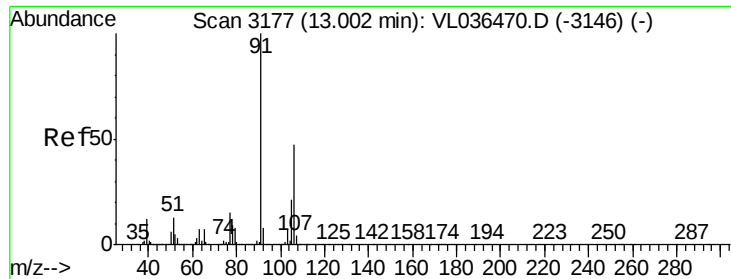
Reviewed By : Semsettin Yesilyurt 04/14/2021  
Supervised By : Mahesh Dadoda 04/14/2021



#58  
Ethyl Benzene  
Concen: 1.011 ppbv  
RT: 12.72 min Scan# 3088  
Delta R.T.: -0.00 min  
Lab File: VL036812.D  
Acq: 13 Apr 2021 20:58

Tgt Ion: 91 Resp: 403621  
Ion Ratio Lower Upper  
91 100  
106 27.8 25.3 37.9



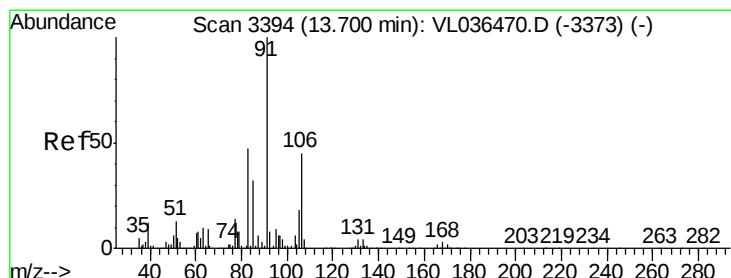
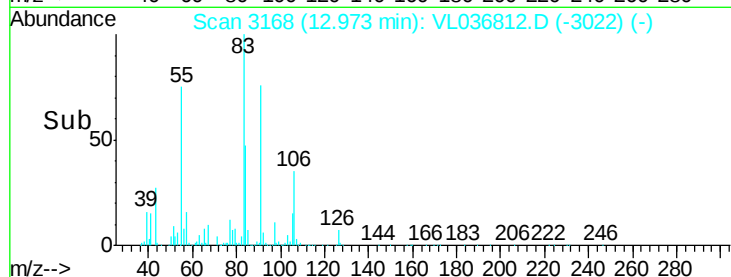
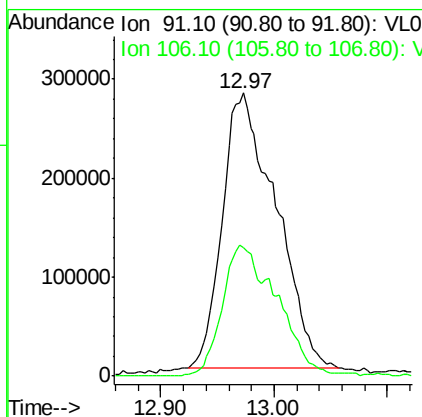
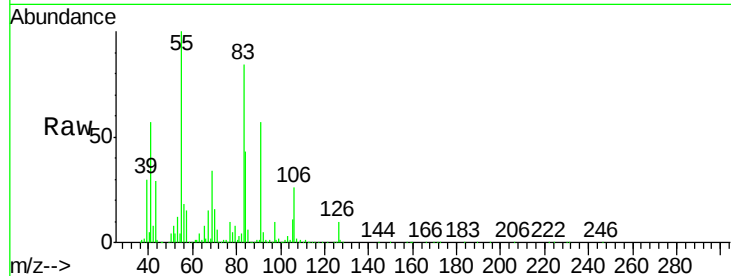


#59  
m/p-Xylene  
Concen: 2.626 ppbv  
RT: 12.97  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 13 Apr 2021 20:58

Tot Ion:  
Ion Ratio  
91 100  
106 48.

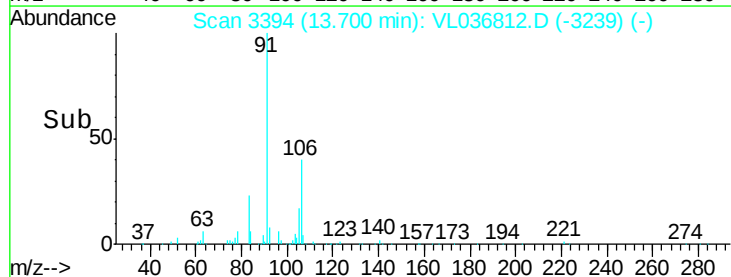
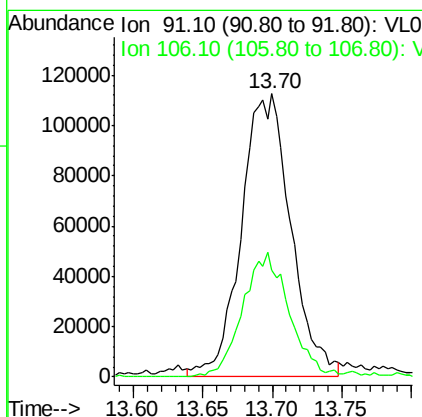
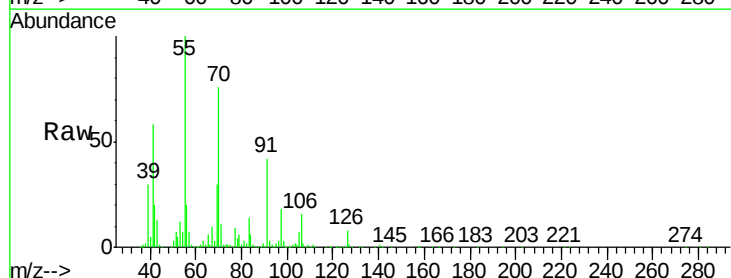
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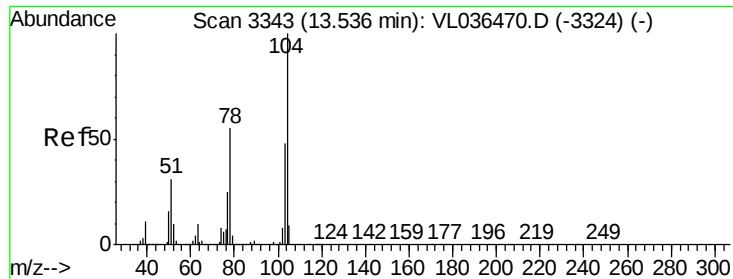
Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021



#60  
o-Xylene  
Concen: 0.829 ppbv m  
RT: 13.70 min Scan# 3394  
Delta R.T. -0.00 min  
Lab File: VL036812.D  
Acq: 13 Apr 2021 20:58

Tgt Ion: 91 Resp: 279236  
Ion Ratio Lower Upper  
91 100  
106 42.3 22.3 66.9





#61

Stvrene

Concen: 2.764 ppbv m

RT: 13.53

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 20:58

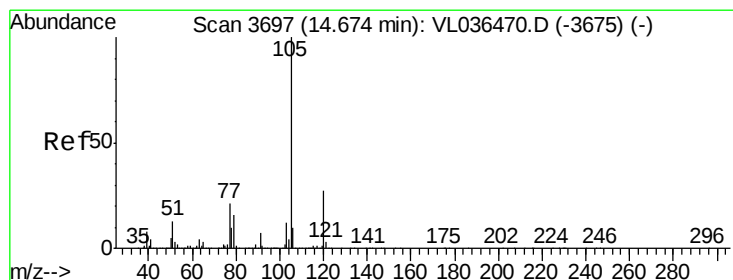
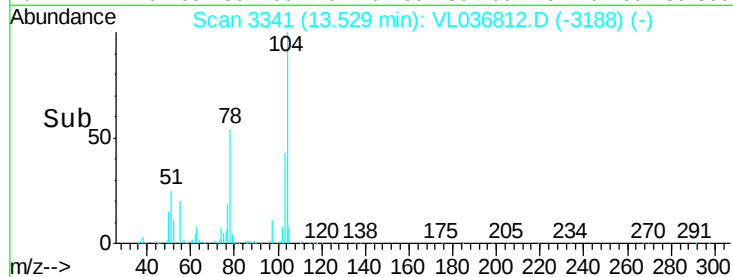
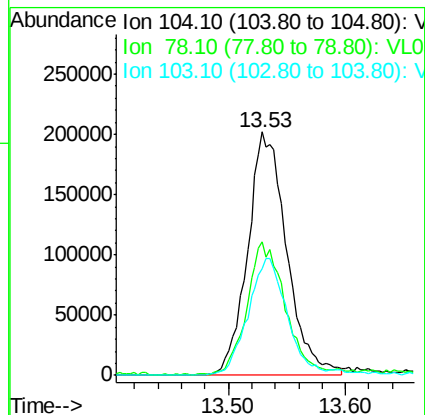
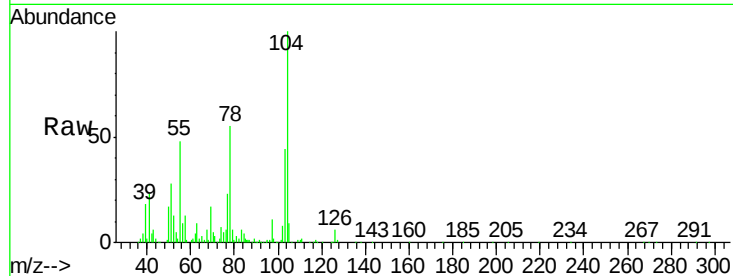
Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021

Tot Ion:1  
Ion Rati  
104 100  
78 0.  
103 50.



#62

Isopropylbenzene

Concen: 21.725 ppbv

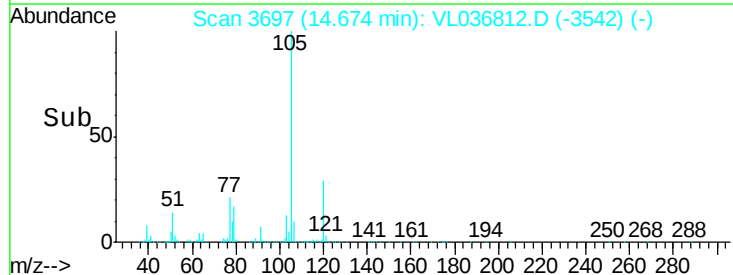
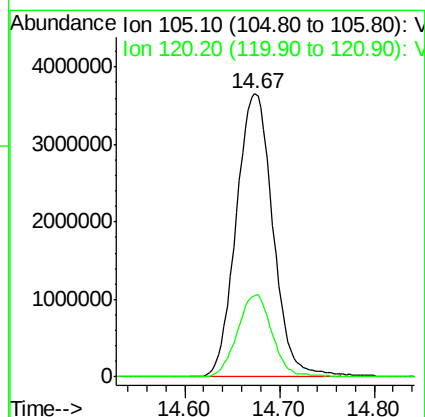
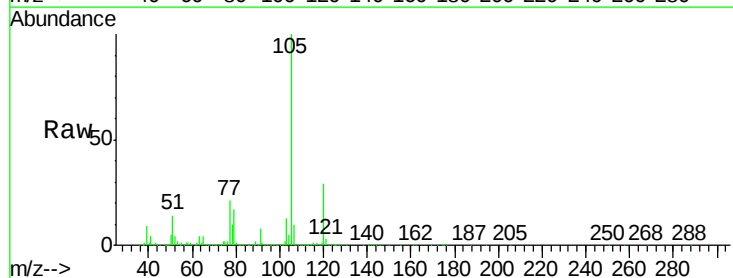
RT: 14.67 min Scan# 3697

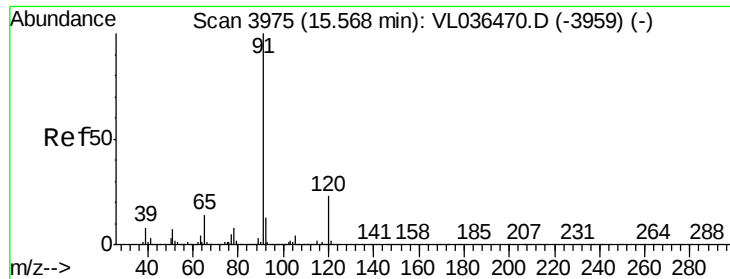
Delta R.T. -0.00 min

Lab File: VL036812.D

Acq: 13 Apr 2021 20:58

Tgt Ion:105 Resp: 9851200  
Ion Ratio Lower Upper  
105 100  
120 27.7 20.6 31.0



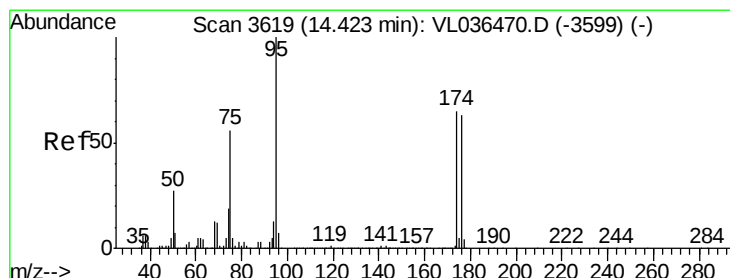
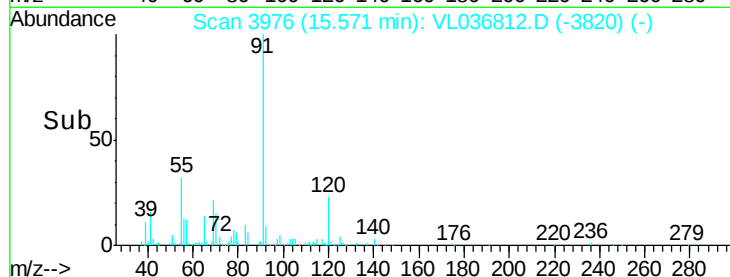
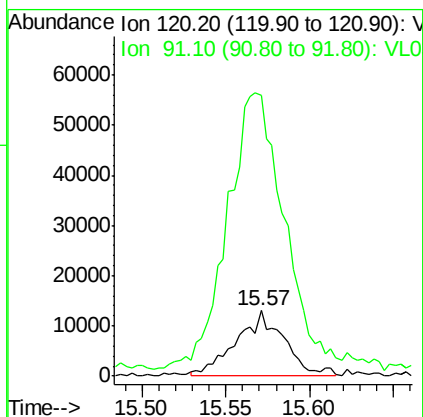
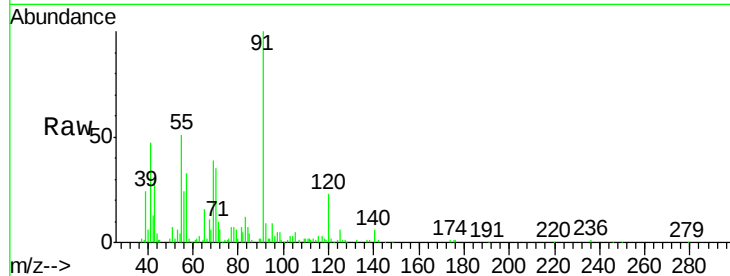


#64  
n-propylbenzene  
Concen: 0.234 ppbv m  
RT: 15.57  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : SG4  
Acq: 13 Apr 2021 20:58

Tot Ion:1  
Ion Rati  
120 100  
91 0.

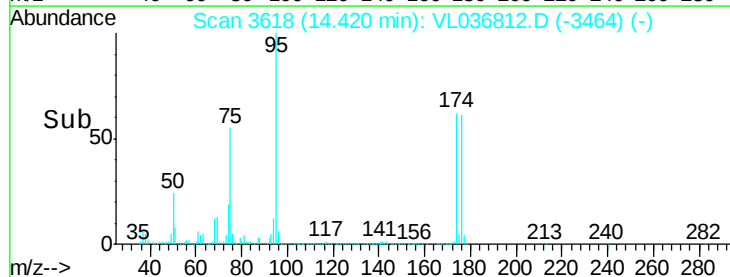
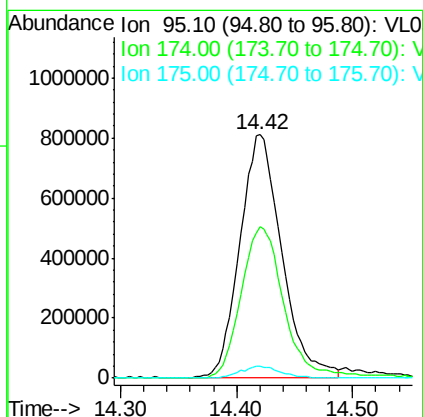
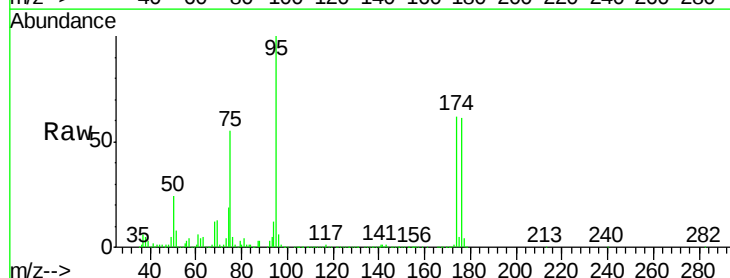
Manual Integrations  
APPROVED

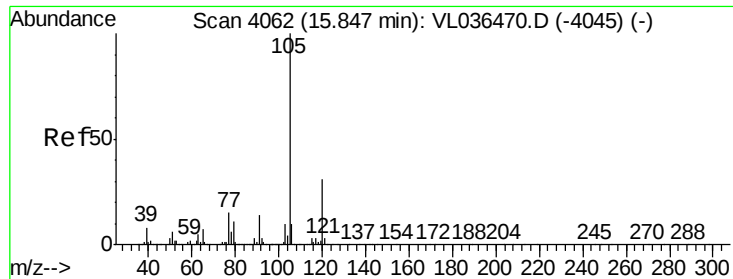
Reviewed By :Semsettin Yesilyurt 04/14/2021  
Supervised By :Mahesh Dadoda 04/14/2021



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.295 ppbv  
RT: 14.42 min Scan# 3618  
Delta R.T. -0.00 min  
Lab File: VL036812.D  
Acq: 13 Apr 2021 20:58

Tgt Ion: 95 Resp: 2033099  
Ion Ratio Lower Upper  
95 100  
174 65.5 51.0 76.6  
175 4.7 3.9 5.9





#72

4-Ethyltoluene

Concen: 0.346 ppbv

RT: 15.84

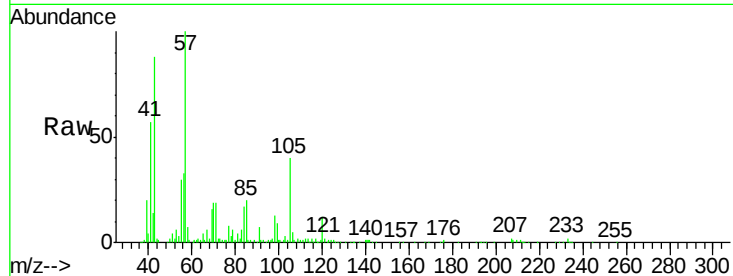
Delta R.T. MSVOA\_L

Lab File:

Acq: 13 Apr 2021 20:58

ClientSampleId :

SG4



Tot Ion:1

Ion Ratio

105 100

120 31.

91 15.

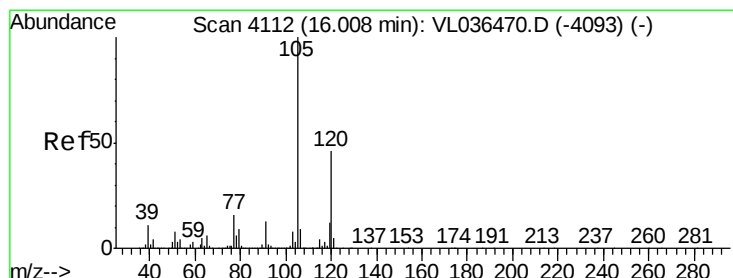
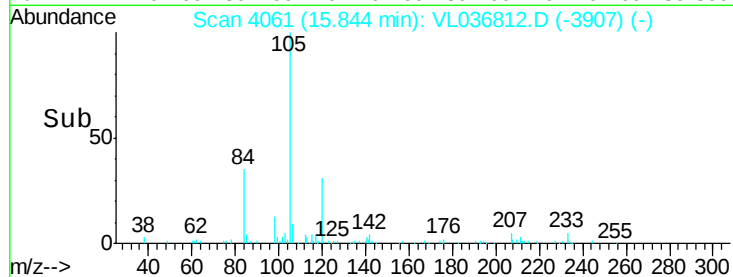
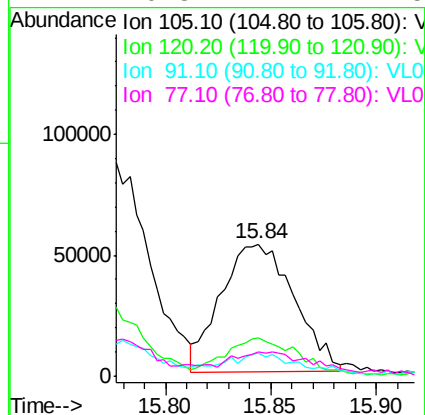
77 16.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#73

1,3,5-Trimethylbenzene

Concen: 0.213 ppbv m

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036812.D

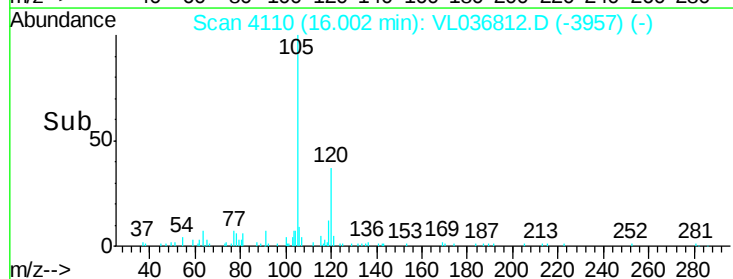
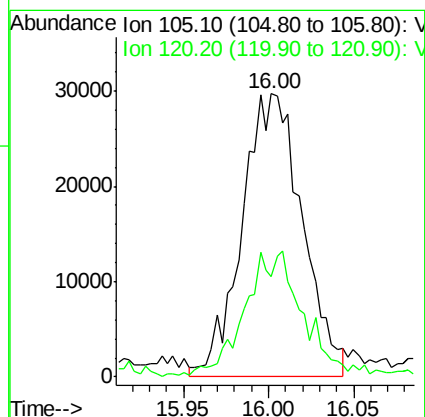
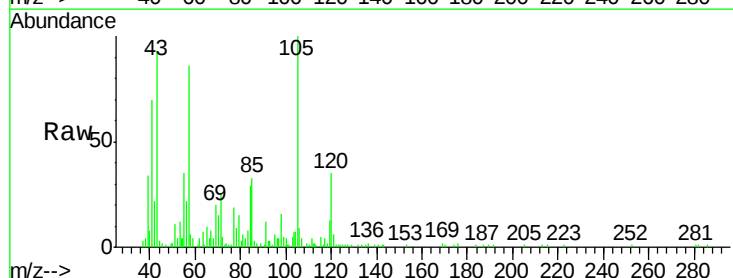
Acq: 13 Apr 2021 20:58

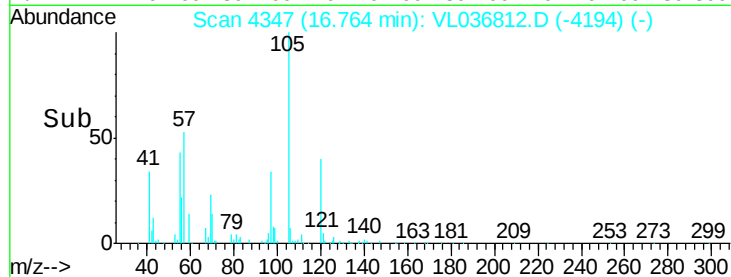
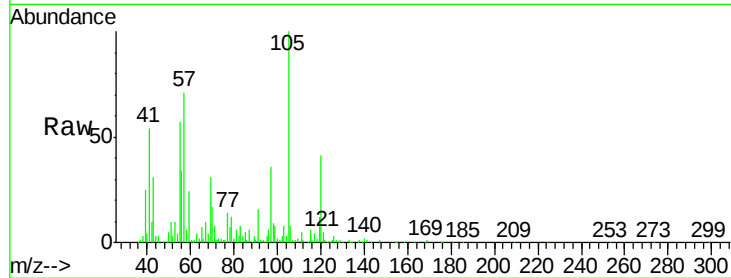
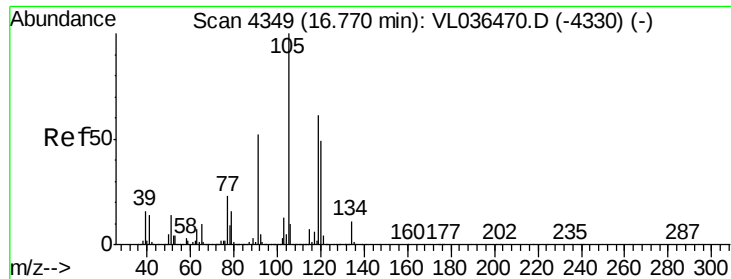
Tgt Ion:105 Resp: 73181

Ion Ratio Lower Upper

105 100

120 35.4 36.6 54.8#





#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.647 ppbv  
 RT: 16.76  
 Delta R.T.  
 Lab File:  
 Acq: 13 Apr 2021 20:58

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG4

Tot Ion:1  
 Ion Rati  
 105 100  
 120 41.  
 91 6.  
 77 0.2 18.6 28.0#

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021  
 Supervised By :Mahesh Dadoda 04/14/2021

