

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040930.D
 Acq On : 21 Dec 2023 15:13
 Operator : SY/MD
 Sample : 05813-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10492

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:07:34 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.182	49	1094081	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2732928	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2287832	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1682061	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	110639	0.531	ppbv	99
3) Chlorodifluoromethane	2.668	51	369656	2.245	ppbv #	64
4) Chloromethane	2.822	50	29871m	0.492	ppbv	
9) Propene	2.719	41	72104m	1.327	ppbv	
11) Trichlorofluoromethane	3.568	101	37182	0.228	ppbv	88
13) Ethanol	3.250	45	166980	12.184	ppbv	100
15) Acetone	3.475	43	1125501	8.577	ppbv	98
19) Isopropyl Alcohol	3.578	45	2886844	42.163	ppbv #	98
20) Methylene Chloride	3.938	84	238605	5.101	ppbv	93
22) trans-1,2-Dichloroethene	4.439	96	5986m	0.100	ppbv	
25) Ethyl Acetate	5.205	43	176302	0.775	ppbv #	81
26) Hexane	5.205	57	218397	2.167	ppbv #	43
34) 2-Butanone	4.787	43	28304	0.196	ppbv #	85
35) Carbon Tetrachloride	6.481	117	12830m	0.075	ppbv	
36) Benzene	6.359	78	41693	0.195	ppbv #	87
52) Tetrachloroethene	10.597	164	3813m	0.053	ppbv	
53) Toluene	9.201	91	138966m	0.587	ppbv	
58) Ethyl Benzene	12.063	91	31329m	0.107	ppbv	
59) m/p-Xylene	12.317	91	73170m	0.293	ppbv	
60) o-Xylene	13.031	91	26282m	0.112	ppbv	
73) 1,3,5-Trimethylbenzene	15.326	105	22160m	0.099	ppbv	
74) 1,2,4-Trimethylbenzene	16.088	105	47328m	0.191	ppbv	

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

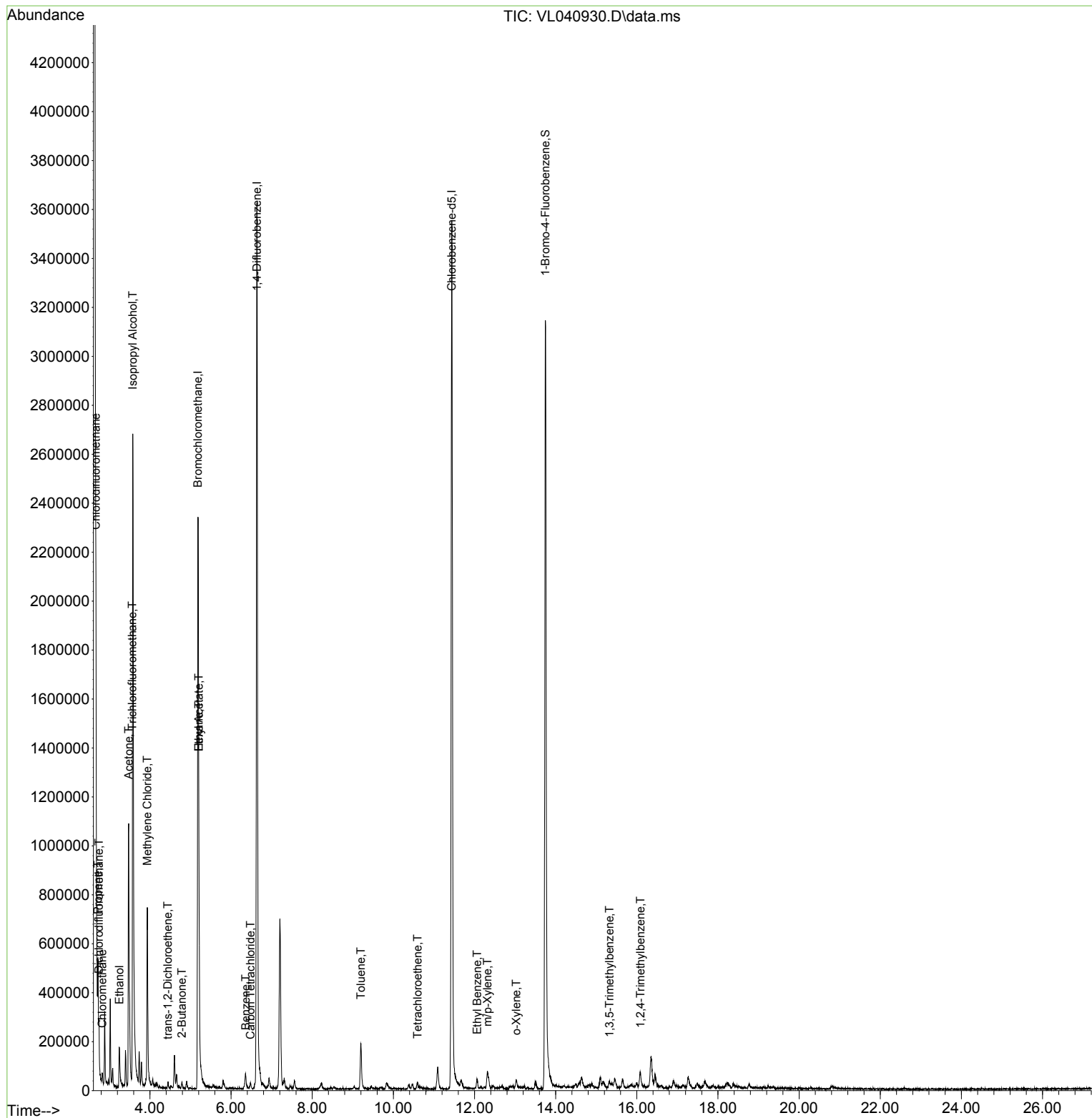
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040930.D
Acq On : 21 Dec 2023 15:13
Operator : SY/MD
Sample : 05813-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

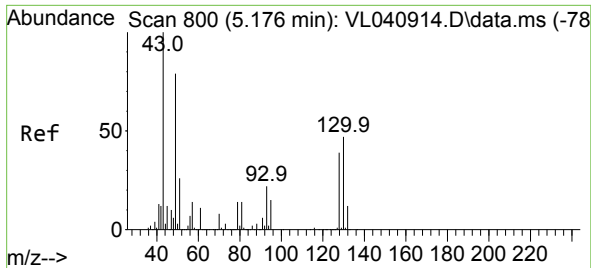
Instrument :
MSVOA_L
ClientSampleId :
10492

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023

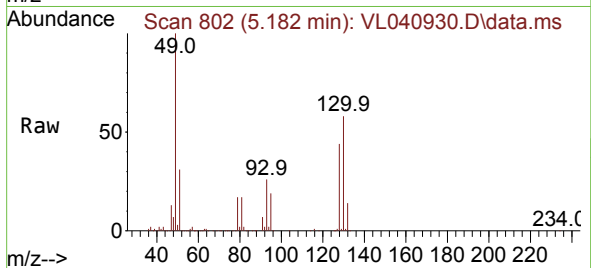
Quant Time: Dec 22 00:07:34 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

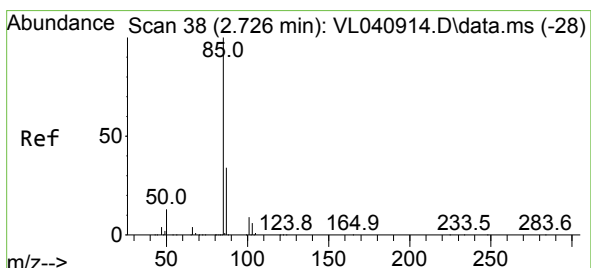
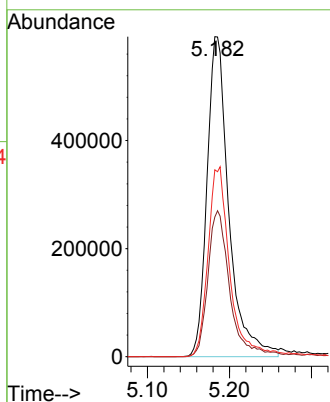
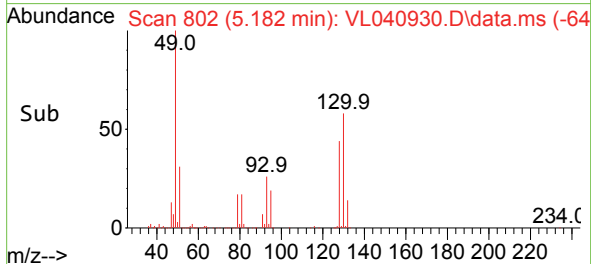
Instrument :
MSVOA_L
ClientSampleId :
10492



Tgt Ion: 49 Resp: 109408
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.2
130 60.6 30.1 90.5

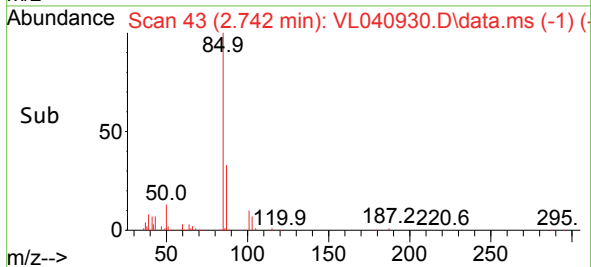
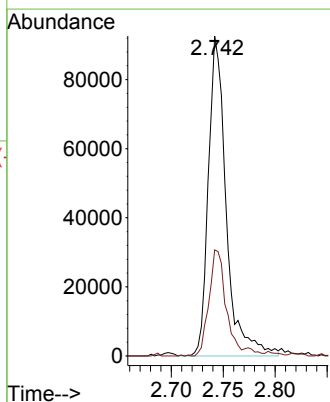
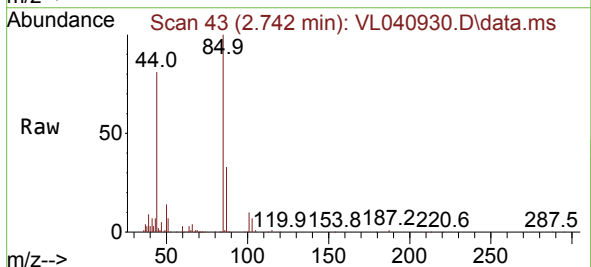
Manual Integrations
APPROVED

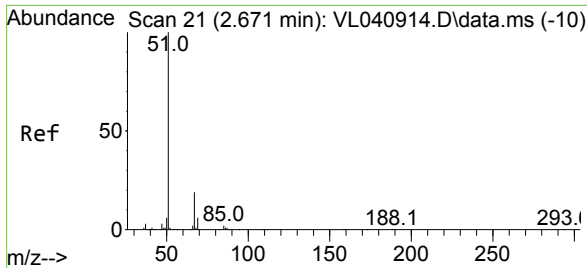
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#2
Dichlorodifluoromethane
Concen: 0.531 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.016 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

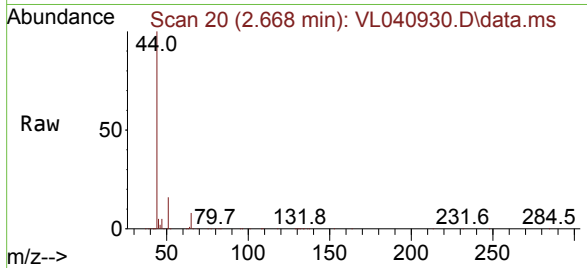
Tgt Ion: 85 Resp: 110639
Ion Ratio Lower Upper
85 100
87 33.2 27.0 40.6





#3
Chlorodifluoromethane
Concen: 2.245 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

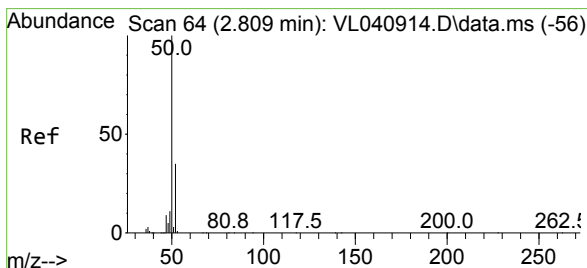
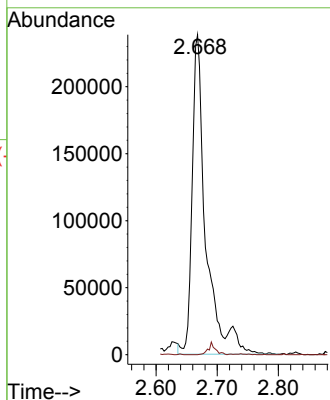
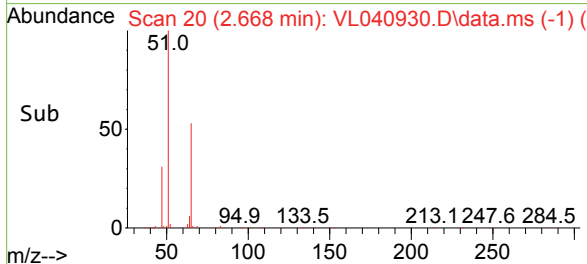
Instrument :
MSVOA_L
ClientSampleId :
10492



Tgt Ion: 51 Resp: 369650
Ion Ratio Lower Upper
51 100
67 2.2 14.7 22.1

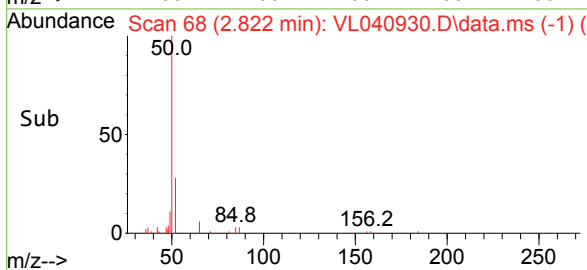
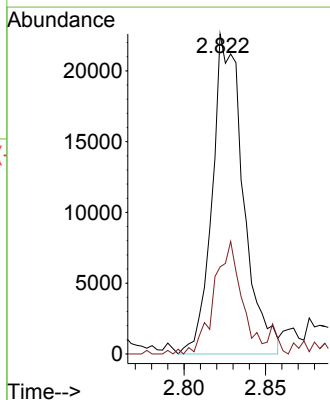
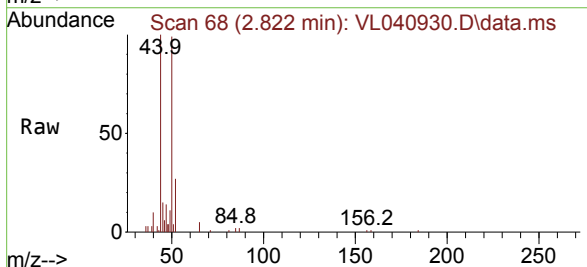
Manual Integrations
APPROVED

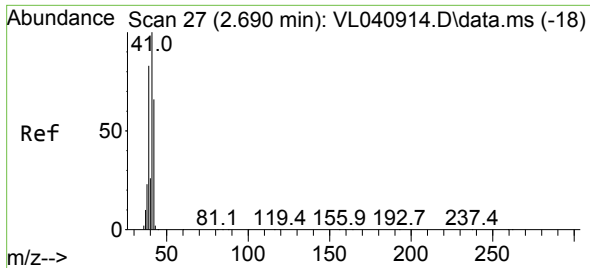
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#4
Chloromethane
Concen: 0.492 ppbv m
RT: 2.822 min Scan# 68
Delta R.T. 0.013 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

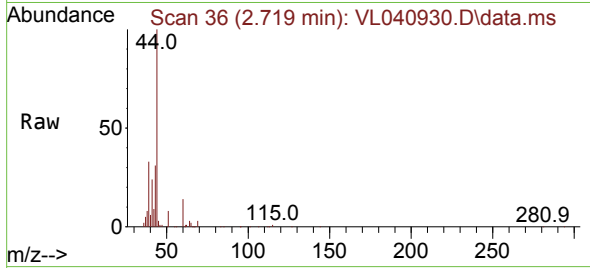
Tgt Ion: 50 Resp: 29871
Ion Ratio Lower Upper
50 100
52 27.2 28.0 42.0





#9
Propene
Concen: 1.327 ppbv m
RT: 2.719 min Scan# 30
Delta R.T. 0.029 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

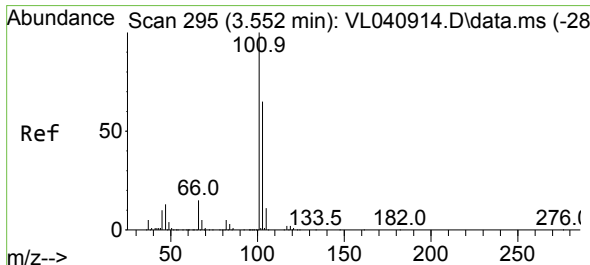
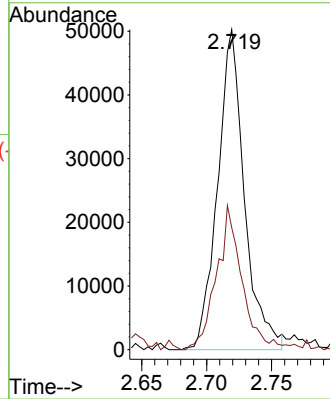
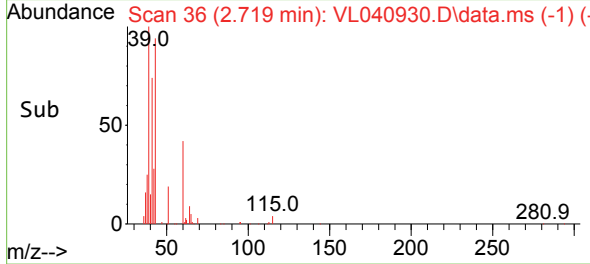
Instrument :
MSVOA_L
ClientSampleId :
10492



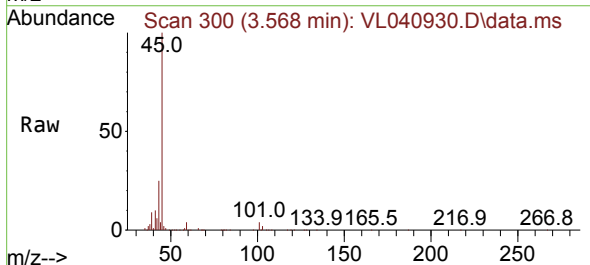
Tgt Ion: 41 Resp: 72104
Ion Ratio Lower Upper
41 100
42 71.4 55.8 83.6

Manual Integrations
APPROVED

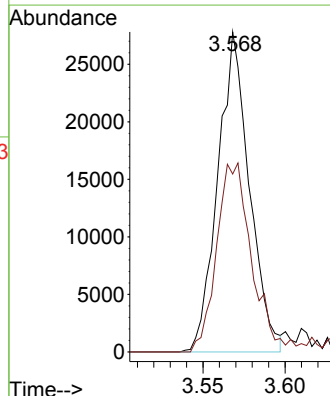
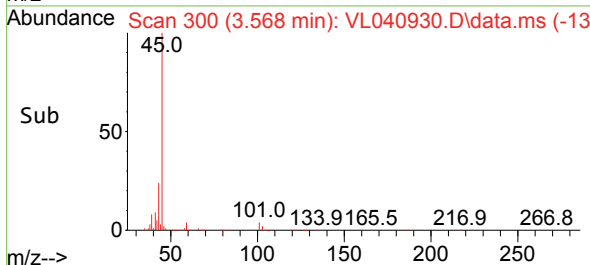
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

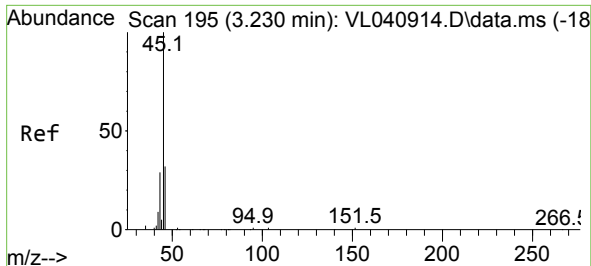


#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.016 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13



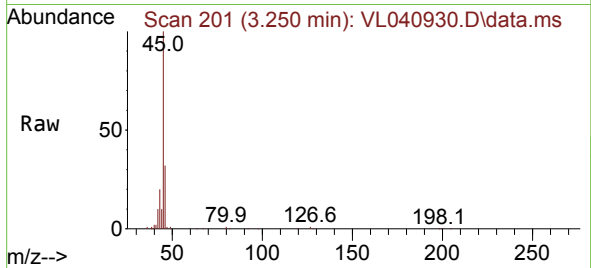
Tgt Ion:101 Resp: 37182
Ion Ratio Lower Upper
101 100
103 55.6 51.9 77.9





#13
Ethanol
Concen: 12.184 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.019 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

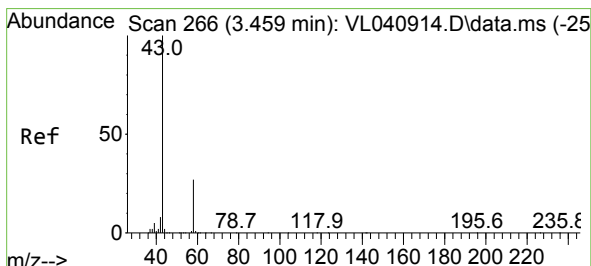
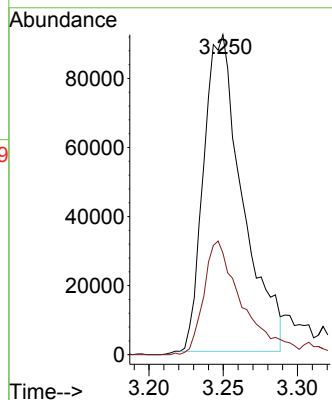
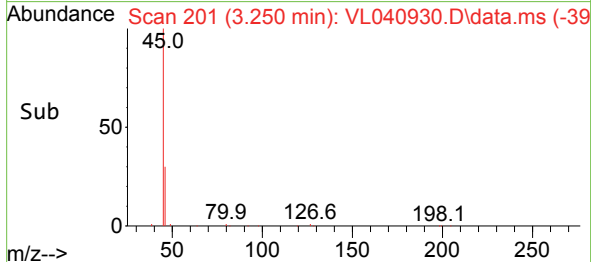
Instrument :
MSVOA_L
ClientSampleId :
10492



Tgt Ion: 45 Resp: 166980
Ion Ratio Lower Upper
45 100
46 37.6 15.0 60.0

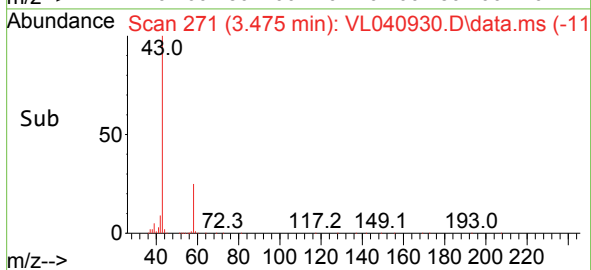
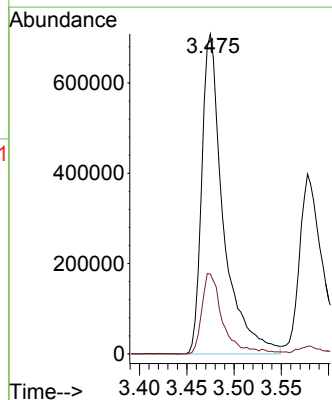
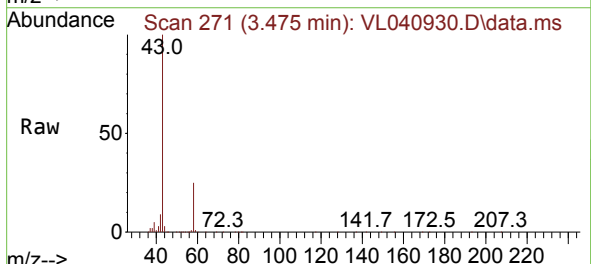
Manual Integrations
APPROVED

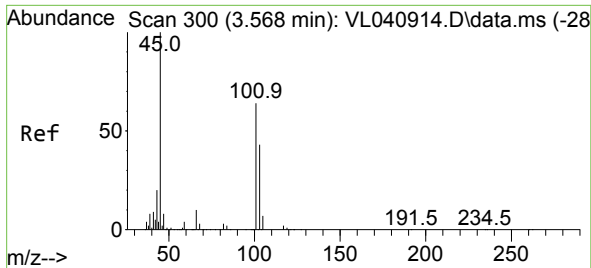
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#15
Acetone
Concen: 8.577 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.016 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 43 Resp: 1125501
Ion Ratio Lower Upper
43 100
58 24.5 20.6 30.8





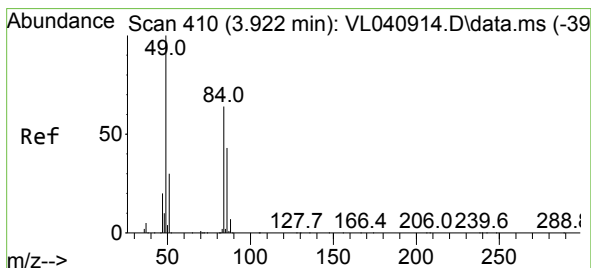
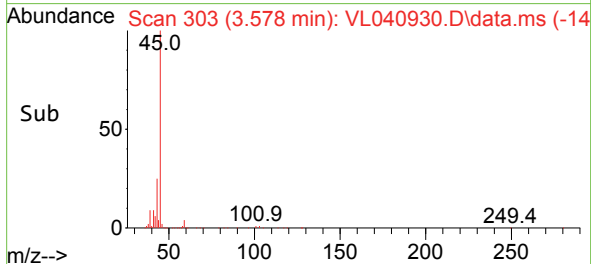
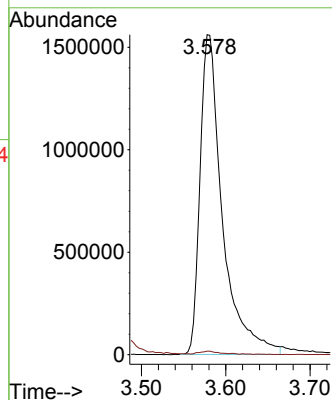
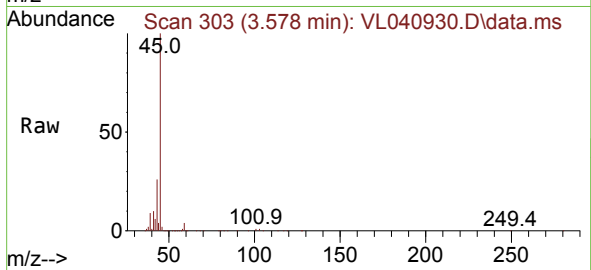
#19
Isopropyl Alcohol
Concen: 42.163 ppbv
RT: 3.578 min Scan# 300
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
10492

Tgt Ion: 45 Resp: 288684
Ion Ratio Lower Upper
45 100
58 1.3 1.5 2.3

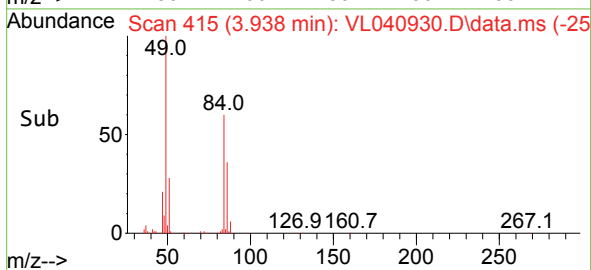
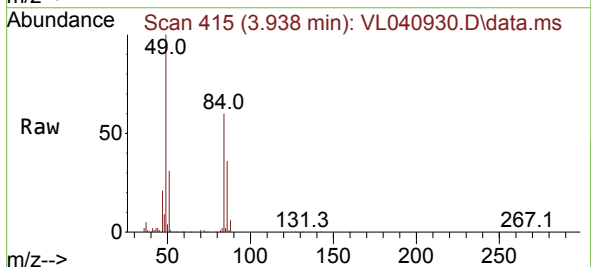
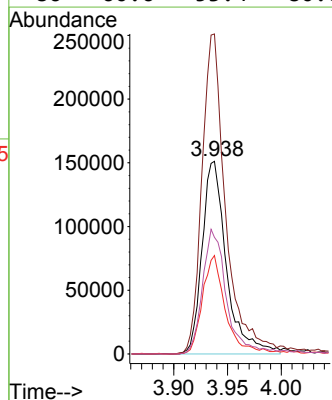
Manual Integrations
APPROVED

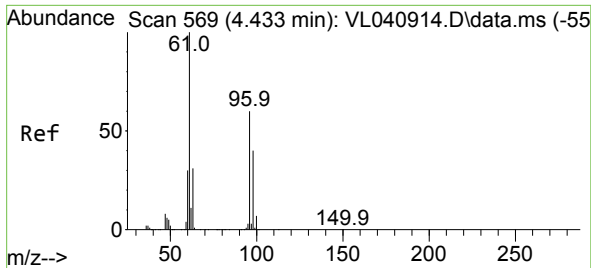
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#20
Methylene Chloride
Concen: 5.101 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.016 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 84 Resp: 238605
Ion Ratio Lower Upper
84 100
49 165.4 124.6 187.0
51 50.8 37.2 55.8
86 60.6 53.4 80.0





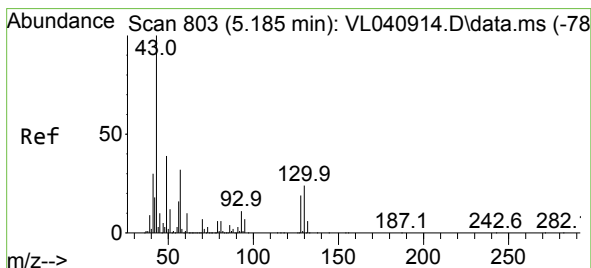
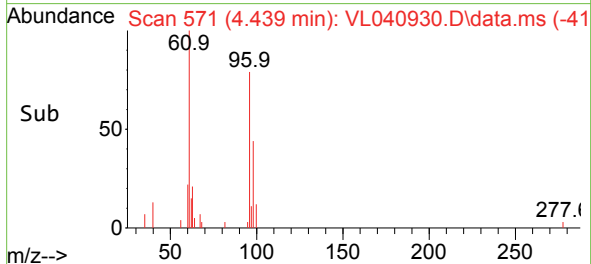
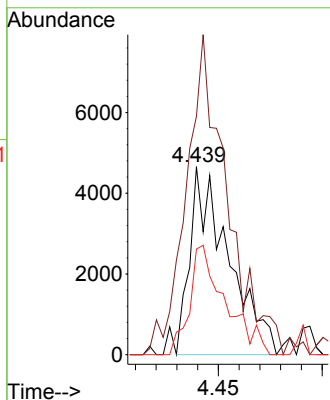
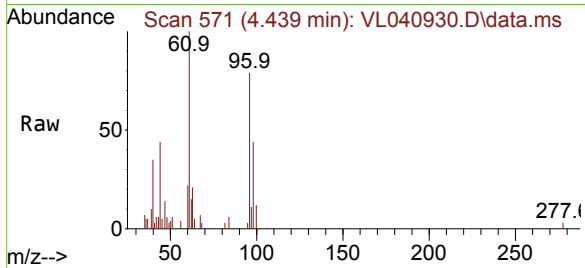
#22
trans-1,2-Dichloroethene
Concen: 0.100 ppbv m
RT: 4.439 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
10492

Tgt Ion: 96 Resp: 5980
Ion Ratio Lower Upper
96 100
61 126.8 133.0 199.6
98 56.2 53.7 80.5

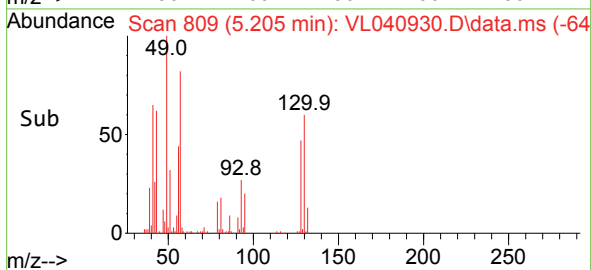
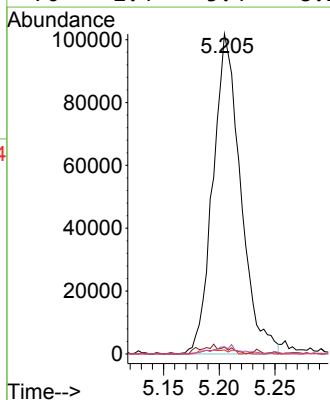
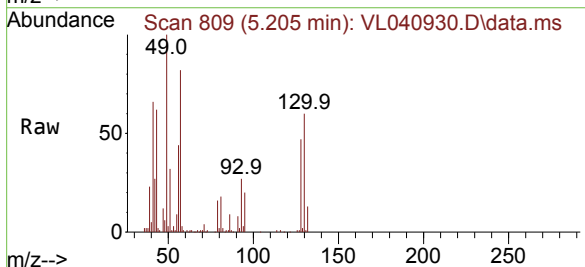
Manual Integrations
APPROVED

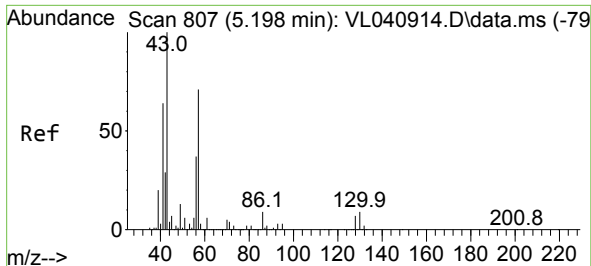
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#25
Ethyl Acetate
Concen: 0.775 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.019 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

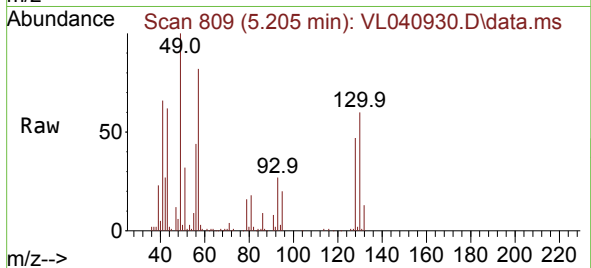
Tgt Ion: 43 Resp: 176302
Ion Ratio Lower Upper
43 100
45 3.0 8.2 12.2#
61 1.4 7.6 11.4#
70 2.4 5.4 8.2#





#26
Hexane
Concen: 2.167 ppbv
RT: 5.205 min Scan# 807
Delta R.T. 0.007 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

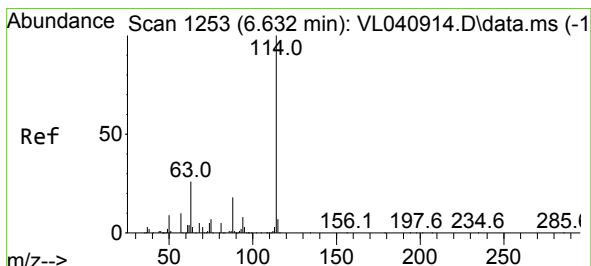
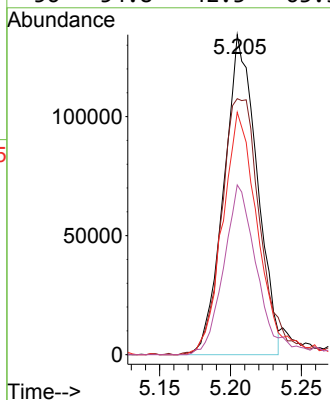
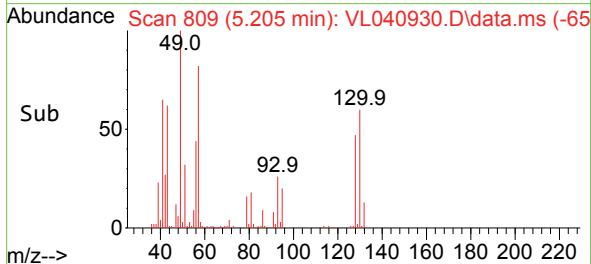
Instrument :
MSVOA_L
ClientSampleId :
10492



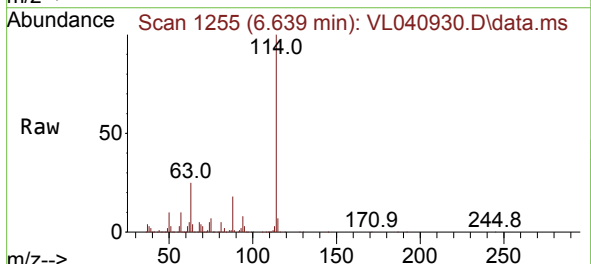
Tgt Ion: 57 Resp: 218397
Ion Ratio Lower Upper
57 100
41 95.1 75.2 112.8
43 81.9 188.0 282.0
56 54.8 42.3 63.5

Manual Integrations
APPROVED

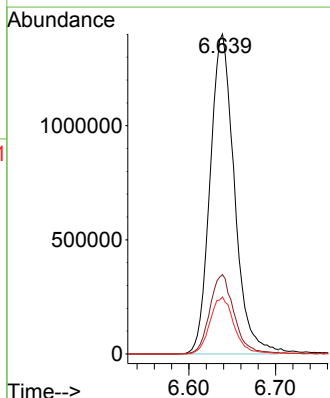
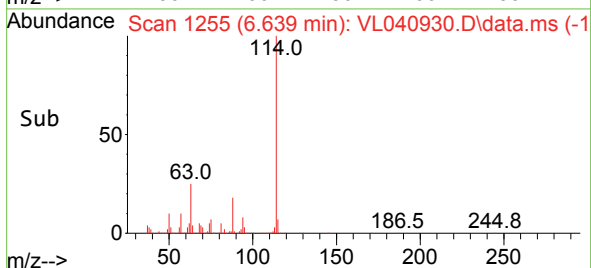
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

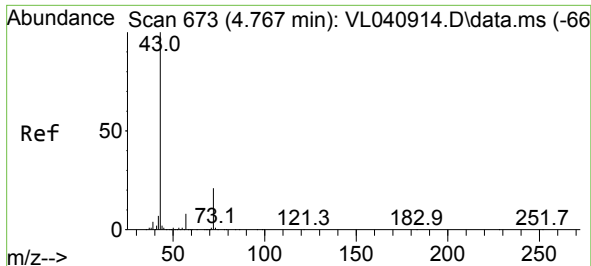


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13



Tgt Ion:114 Resp: 2732928
Ion Ratio Lower Upper
114 100
63 25.2 21.0 31.6
88 17.9 14.3 21.5





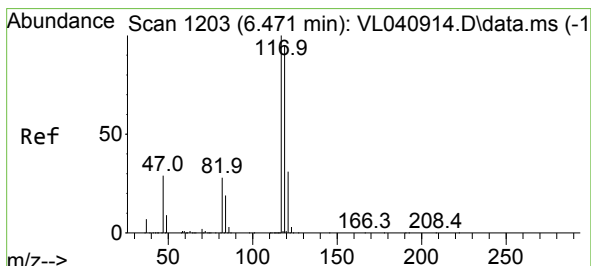
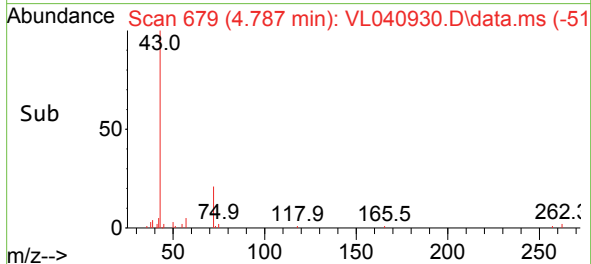
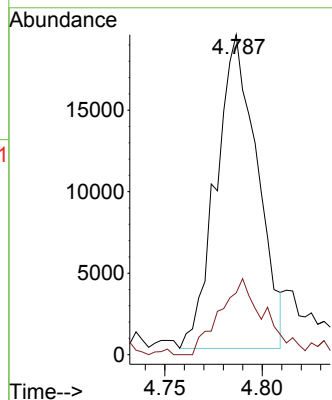
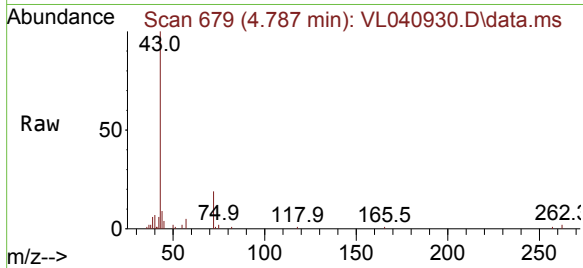
#34
2-Butanone
Concen: 0.196 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
10492

Tgt Ion: 43 Resp: 28304
Ion Ratio Lower Upper
43 100
72 28.5 17.2 25.8

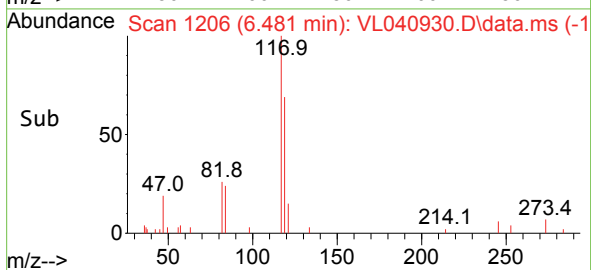
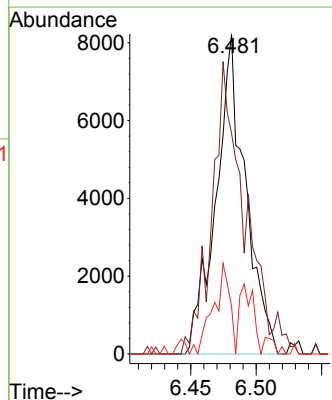
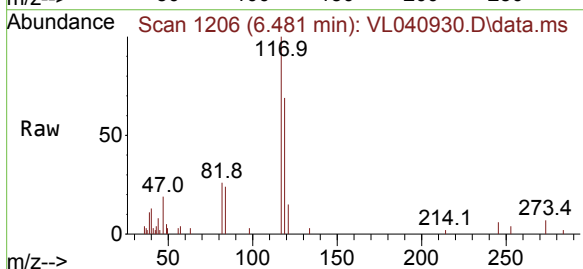
Manual Integrations
APPROVED

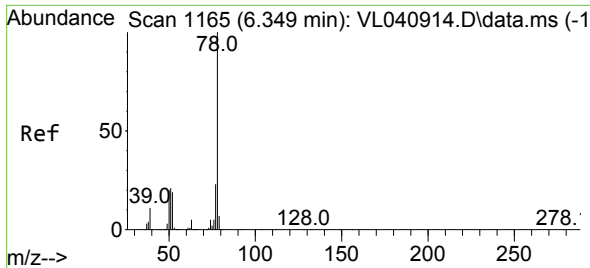
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

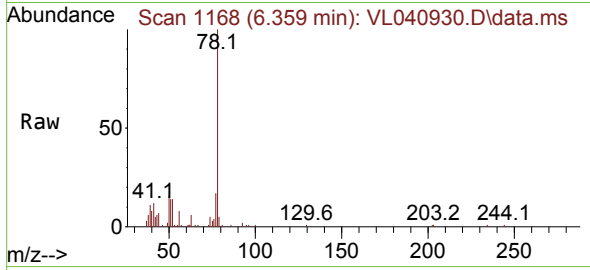
Tgt Ion:117 Resp: 12830
Ion Ratio Lower Upper
117 100
119 68.9 76.3 114.5#
121 14.9 24.9 37.3#





#36
Benzene
Concen: 0.195 ppbv
RT: 6.359 min Scan# 1165
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

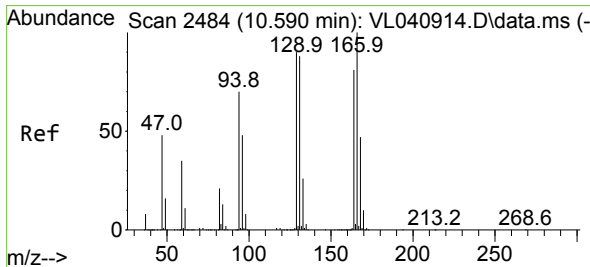
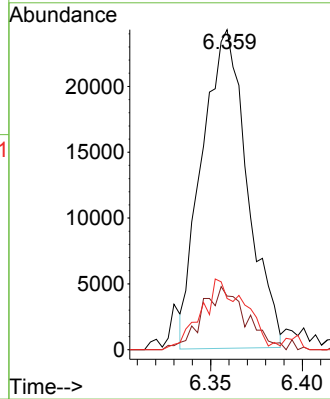
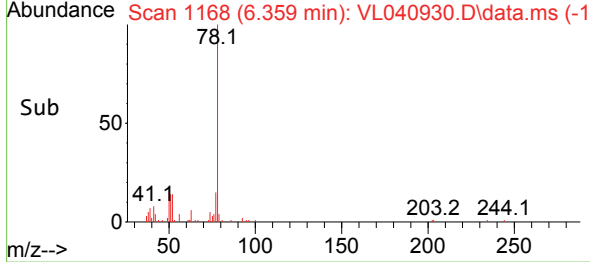
Instrument :
MSVOA_L
ClientSampleId :
10492



Tgt Ion: 78 Resp: 4169
Ion Ratio Lower Upper
78 100
77 15.3 18.4 27.6
50 15.5 16.0 24.0

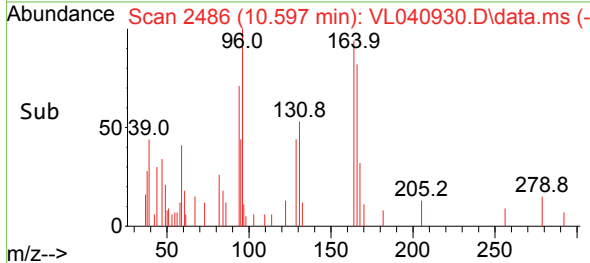
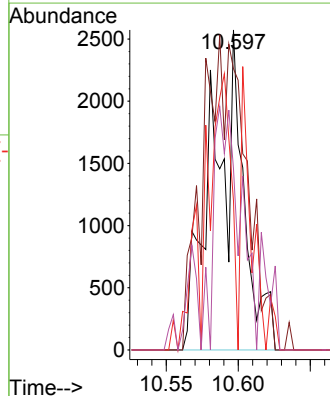
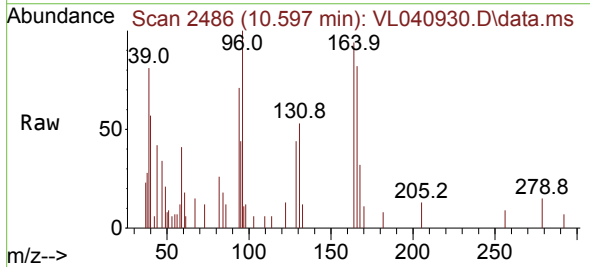
Manual Integrations
APPROVED

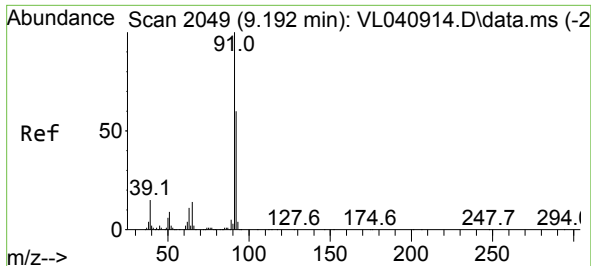
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 10.597 min Scan# 2486
Delta R.T. 0.007 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

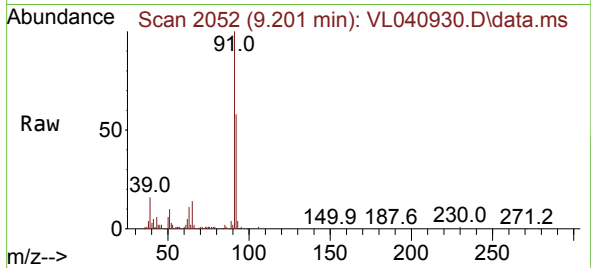
Tgt Ion:164 Resp: 3813
Ion Ratio Lower Upper
164 100
166 87.9 98.9 148.3#
129 46.7 88.7 133.1#
131 56.7 87.1 130.7#





#53
Toluene
Concen: 0.587 ppbv m
RT: 9.201 min Scan# 2049
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

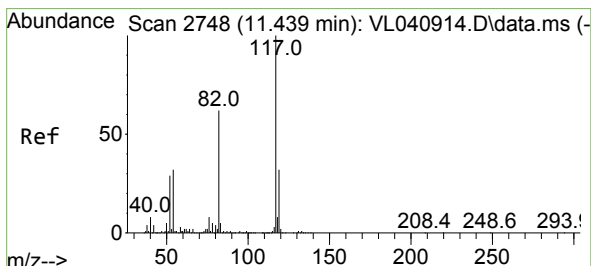
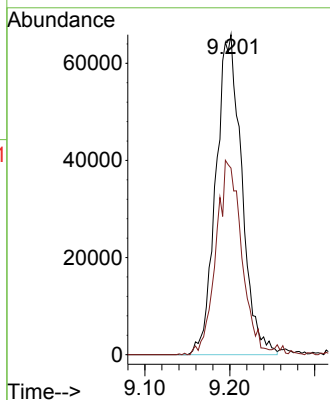
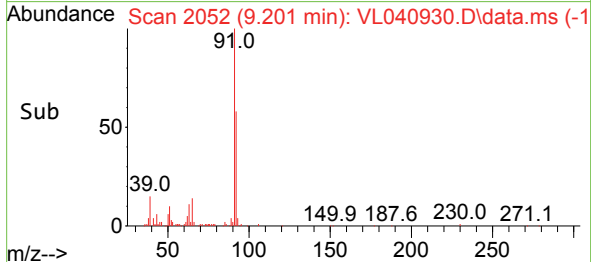
Instrument :
MSVOA_L
ClientSampleId :
10492



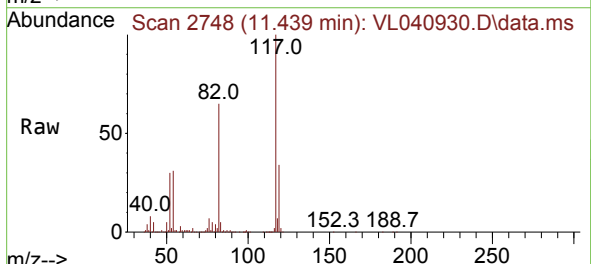
Tgt Ion: 91 Resp: 138960
Ion Ratio Lower Upper
91 100
92 0.0 49.2 73.8

Manual Integrations
APPROVED

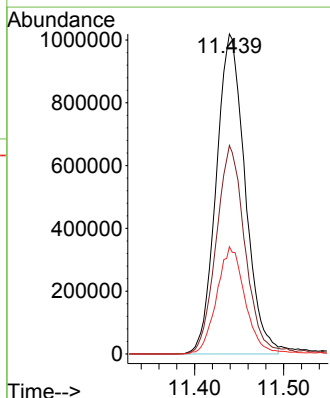
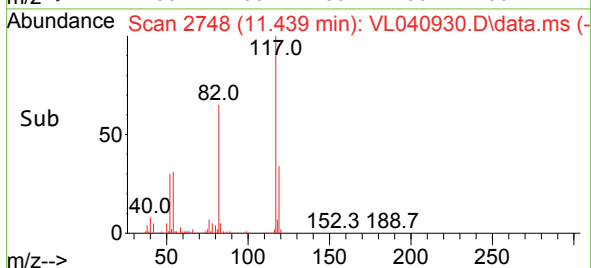
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

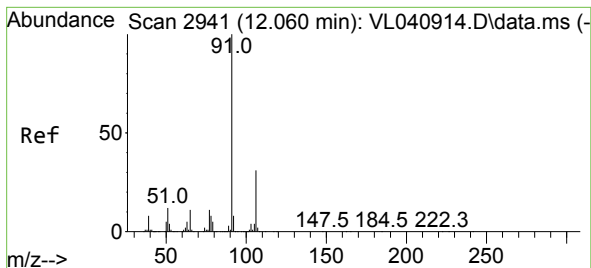


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. 0.000 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13



Tgt Ion:117 Resp: 2287832
Ion Ratio Lower Upper
117 100
82 65.9 49.6 74.4
119 33.4 23.4 35.0





#58

Ethyl Benzene

Concen: 0.107 ppbv m

RT: 12.063 min Scan# 2941

Delta R.T. 0.003 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

10492

Tgt Ion: 91 Resp: 31329

Ion Ratio Lower Upper

91 100

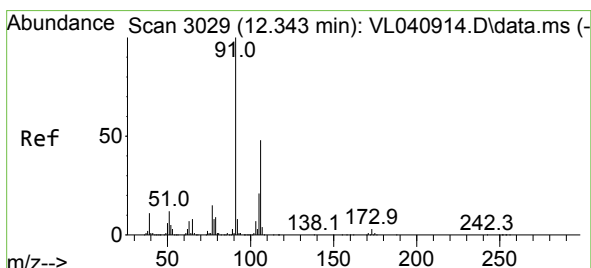
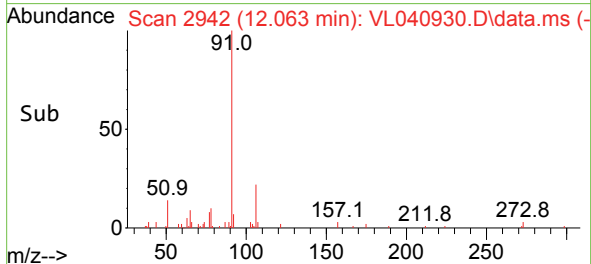
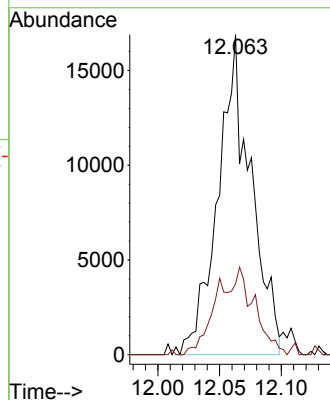
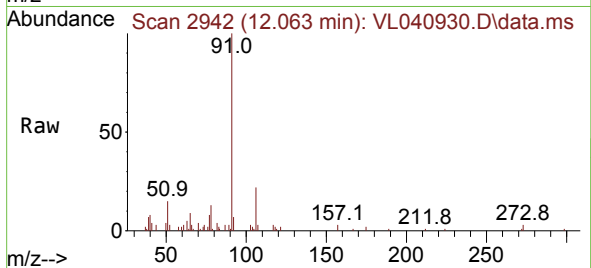
106 22.1 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#59

m/p-Xylene

Concen: 0.293 ppbv m

RT: 12.317 min Scan# 3021

Delta R.T. -0.026 min

Lab File: VL040930.D

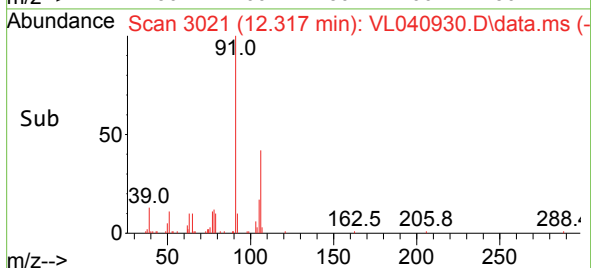
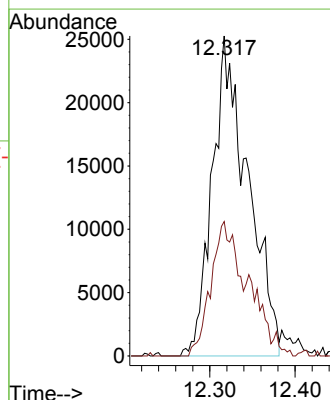
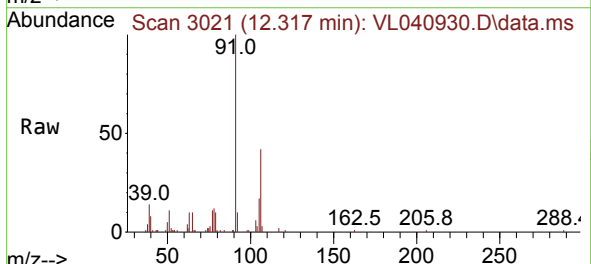
Acq: 21 Dec 2023 15:13

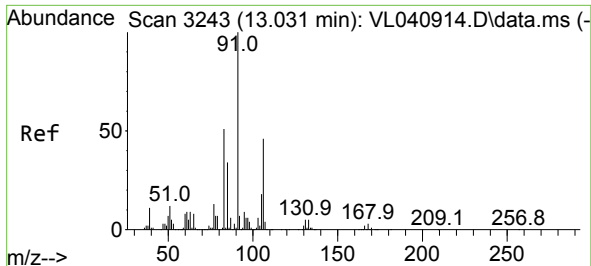
Tgt Ion: 91 Resp: 73170

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





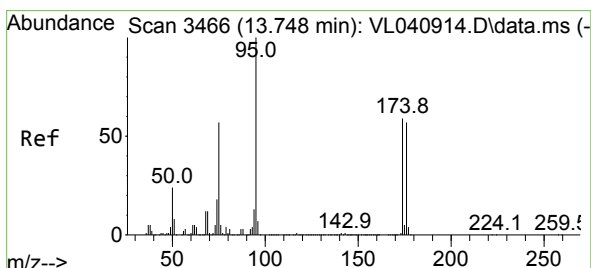
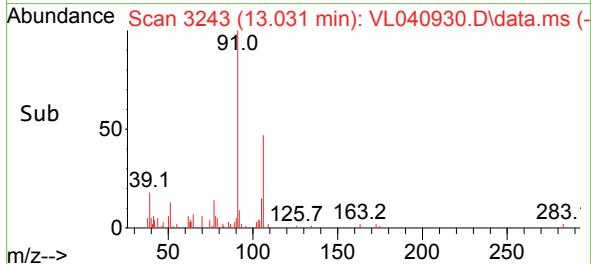
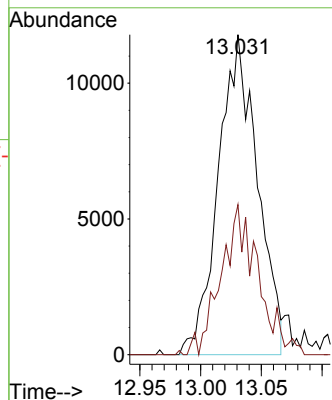
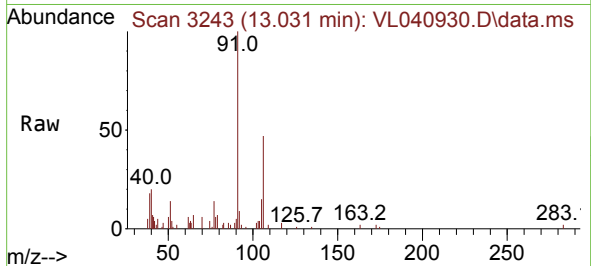
#60
o-Xylene
Concen: 0.112 ppbv m
RT: 13.031 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
10492

Tgt Ion: 91 Resp: 2628
Ion Ratio Lower Upper
91 100
106 44.7 22.6 67.7

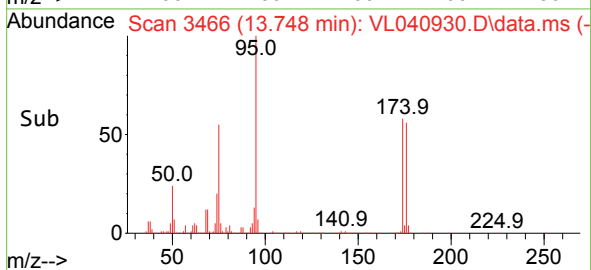
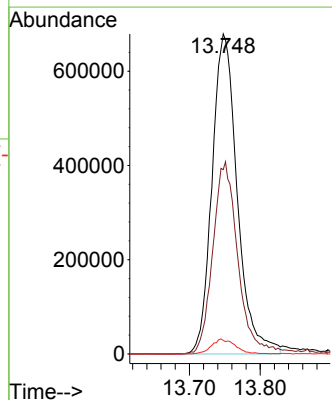
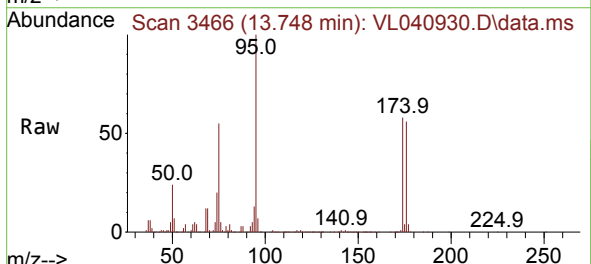
Manual Integrations
APPROVED

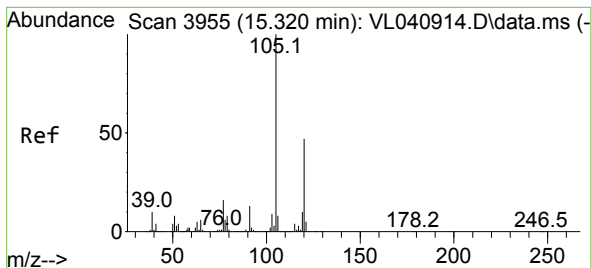
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 13.748 min Scan# 3466
Delta R.T. 0.000 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 95 Resp: 1682061
Ion Ratio Lower Upper
95 100
174 61.1 48.0 72.0
175 4.4 3.7 5.5





#73

1,3,5-Trimethylbenzene

Concen: 0.099 ppbv m

RT: 15.326 min Scan# 3955

Delta R.T. 0.007 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

10492

Tgt Ion:105 Resp: 22160

Ion Ratio Lower Upper

105 100

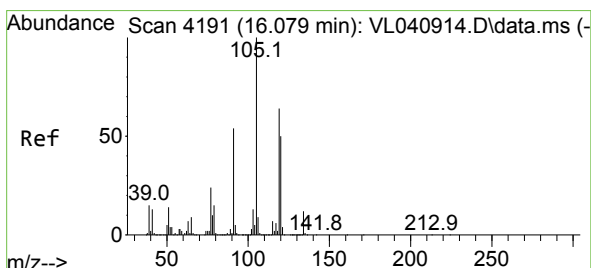
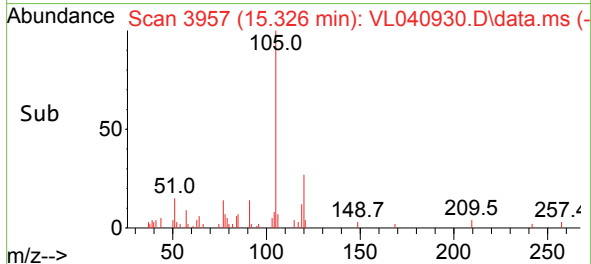
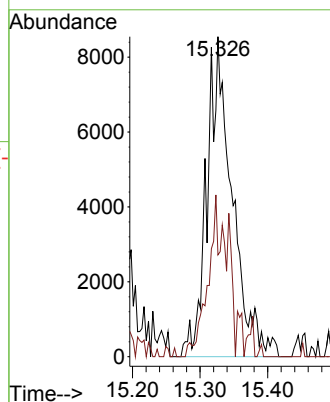
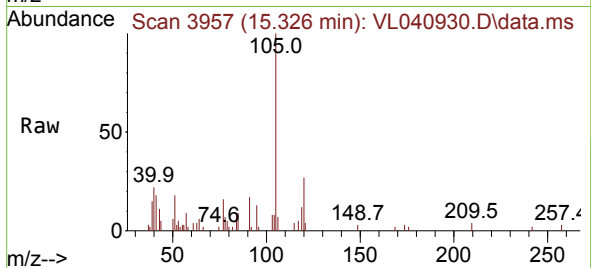
120 27.4 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.191 ppbv m

RT: 16.088 min Scan# 4194

Delta R.T. 0.010 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

Tgt Ion:105 Resp: 47328

Ion Ratio Lower Upper

105 100

120 26.9 40.2 60.4#

91 17.0 43.0 64.6#

77 18.1 18.9 28.3#

