

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040936.D
 Acq On : 21 Dec 2023 19:11
 Operator : SY/MD
 Sample : 05925-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 00:10:13 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	5.185	49	1114925	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2816110	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.433	117	2289221	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1677872	9.951	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	109073	0.514	ppbv	98
3) Chlorodifluoromethane	2.697	51	70523	0.420	ppbv #	88
4) Chloromethane	2.838	50	35739m	0.578	ppbv	
9) Propene	2.729	41	70391m	1.272	ppbv	
10) Heptane	7.558	43	36285m	0.264	ppbv	
11) Trichlorofluoromethane	3.575	101	40419	0.243	ppbv	97
13) Ethanol	3.259	45	156764	11.225	ppbv	100
15) Acetone	3.481	43	1496630	11.192	ppbv	96
19) Isopropyl Alcohol	3.603	45	94219m	1.350	ppbv	
20) Methylene Chloride	3.938	84	602227	12.635	ppbv	96
25) Ethyl Acetate	5.211	43	551402	2.380	ppbv #	79
26) Hexane	5.208	57	770683	7.505	ppbv #	41
30) Cyclohexane	6.581	84	13708m	0.160	ppbv	
34) 2-Butanone	4.793	43	46261	0.311	ppbv #	85
35) Carbon Tetrachloride	6.484	117	10533m	0.060	ppbv	
36) Benzene	6.359	78	89291	0.406	ppbv #	91
44) 2,2,4-Trimethylpentane	7.307	57	243557	0.651	ppbv	93
52) Tetrachloroethene	10.574	164	2253m	0.030	ppbv	
53) Toluene	9.195	91	216647	0.888	ppbv	97
58) Ethyl Benzene	12.053	91	36348m	0.124	ppbv	
59) m/p-Xylene	12.310	91	80974m	0.324	ppbv	
60) o-Xylene	13.031	91	33776m	0.143	ppbv	
74) 1,2,4-Trimethylbenzene	16.085	105	24173m	0.097	ppbv	

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

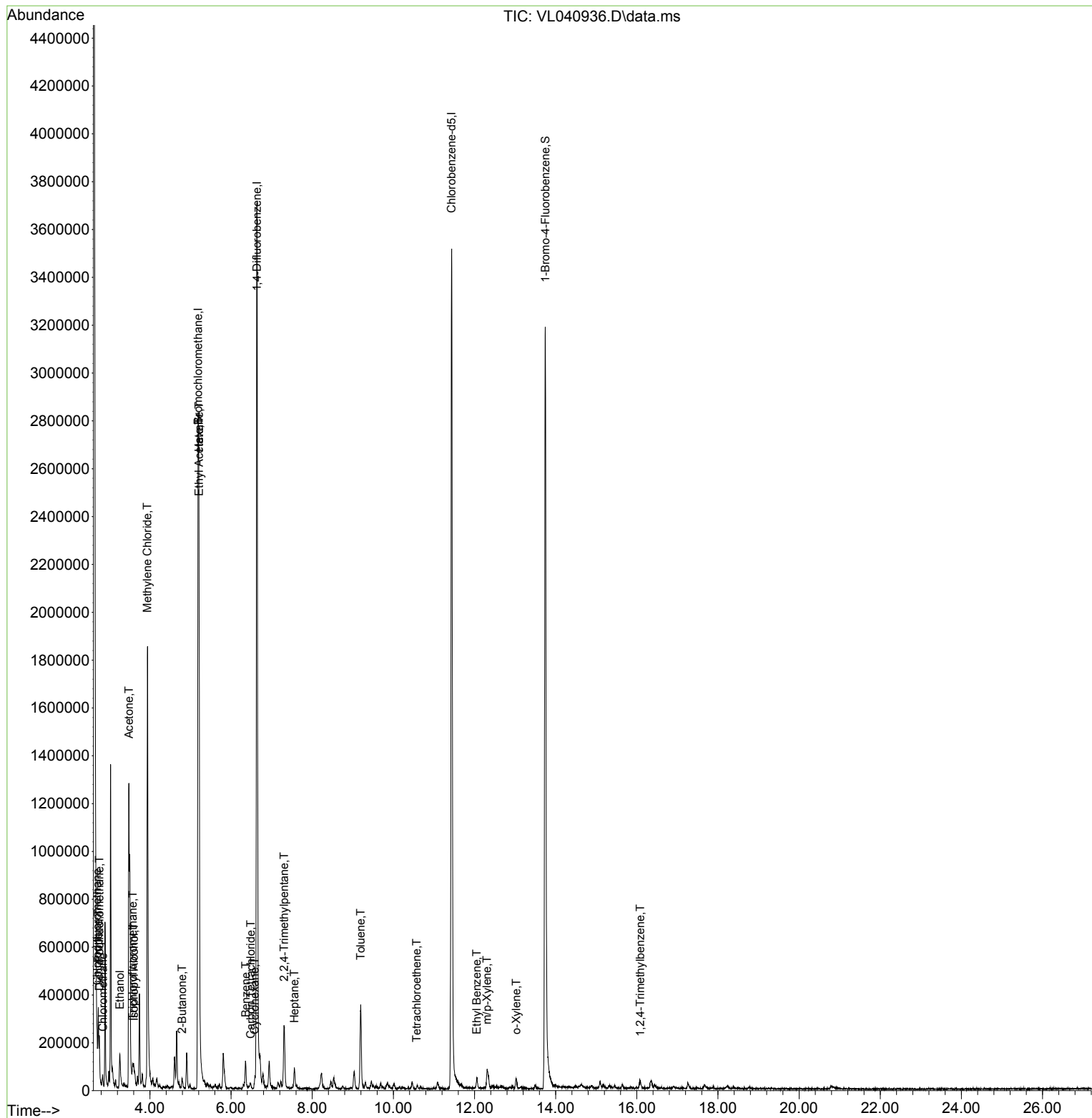
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040936.D
Acq On : 21 Dec 2023 19:11
Operator : SY/MD
Sample : 05925-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

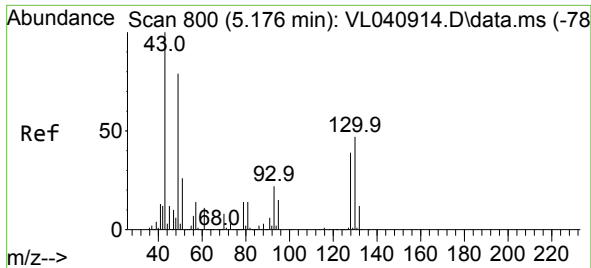
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Dec 22 00:10:13 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

Manual Integrations
APPROVED

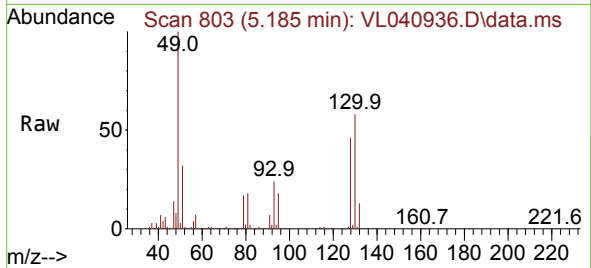
Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

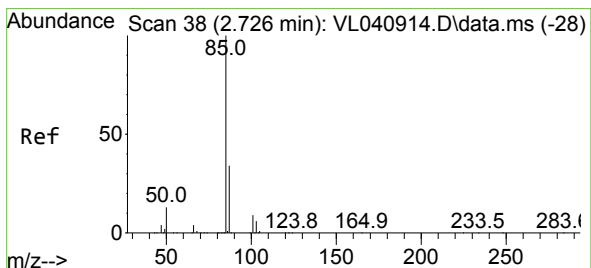
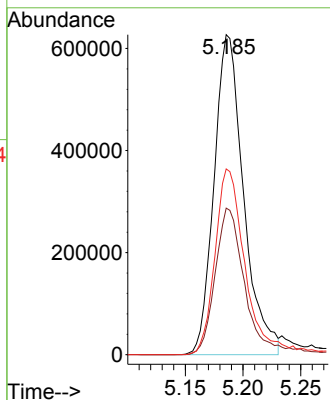
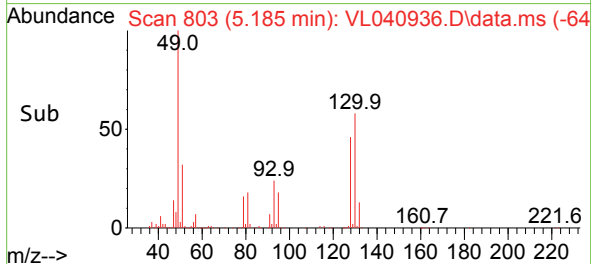
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 111492
Ion Ratio Lower Upper
49 100
128 47.7 23.8 71.2
130 61.7 30.1 90.5

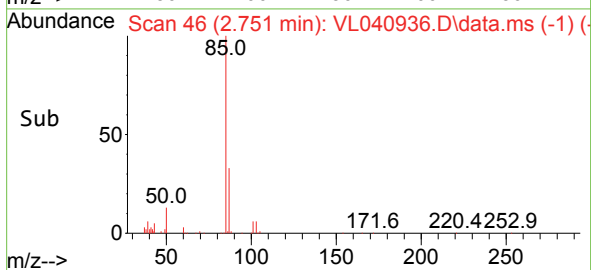
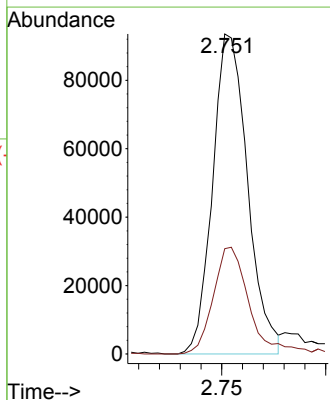
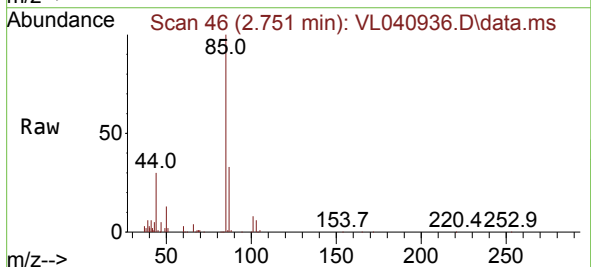
Manual Integrations
APPROVED

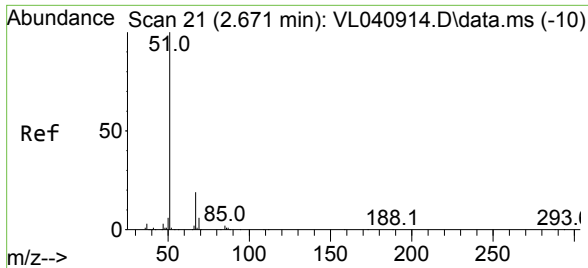
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#2
Dichlorodifluoromethane
Concen: 0.514 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.026 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

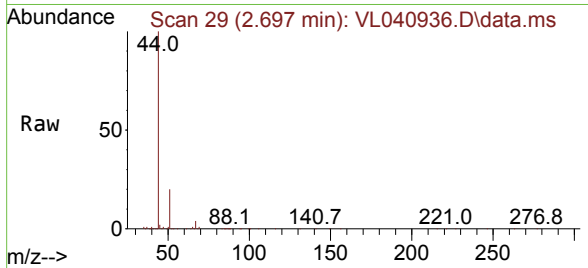
Tgt Ion: 85 Resp: 109073
Ion Ratio Lower Upper
85 100
87 32.9 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.420 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.026 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

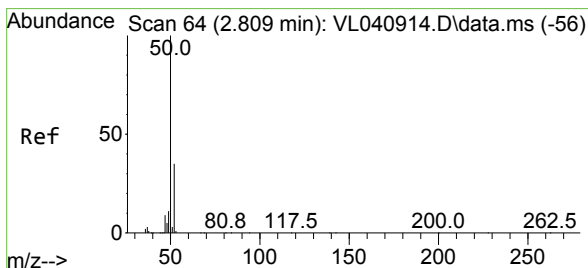
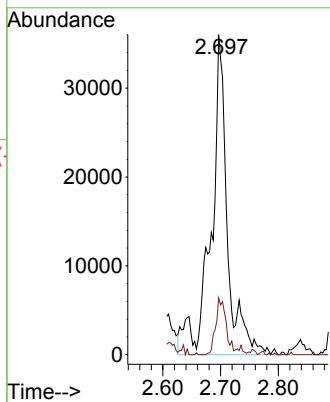
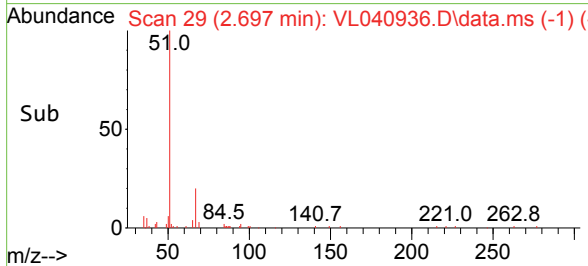
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 51 Resp: 7052
Ion Ratio Lower Upper
51 100
67 13.0 14.7 22.1

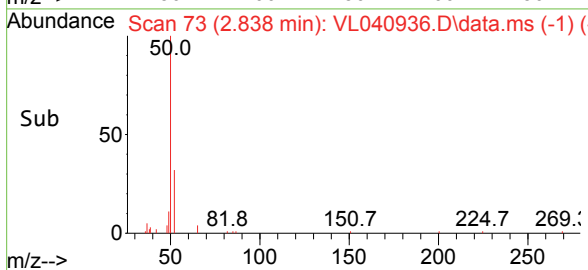
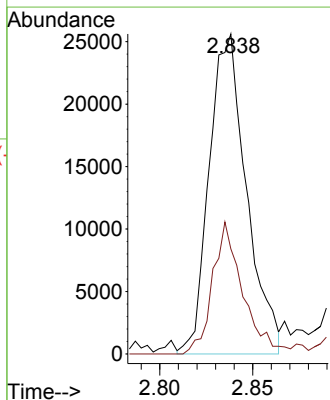
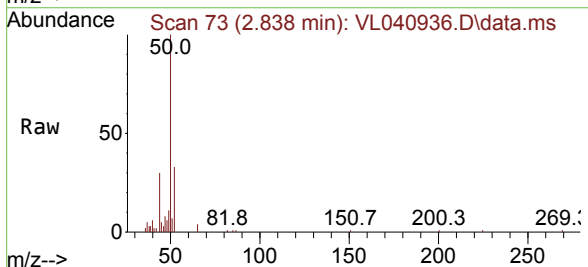
Manual Integrations
APPROVED

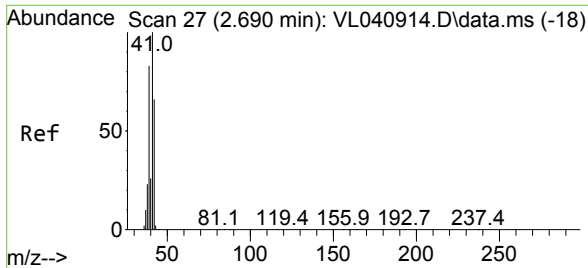
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#4
Chloromethane
Concen: 0.578 ppbv m
RT: 2.838 min Scan# 73
Delta R.T. 0.029 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 50 Resp: 35739
Ion Ratio Lower Upper
50 100
52 32.8 28.0 42.0





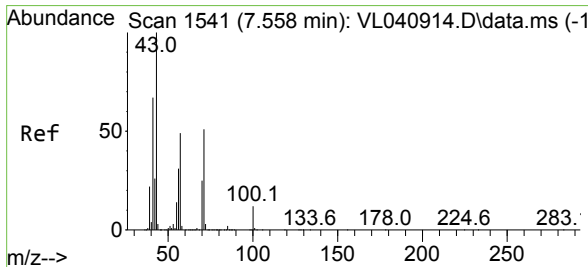
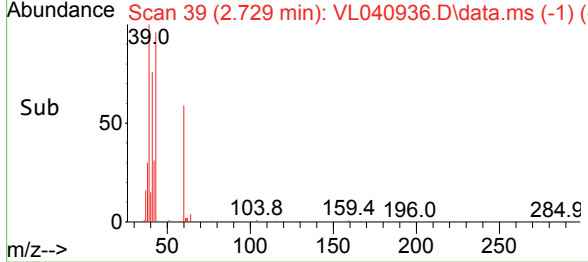
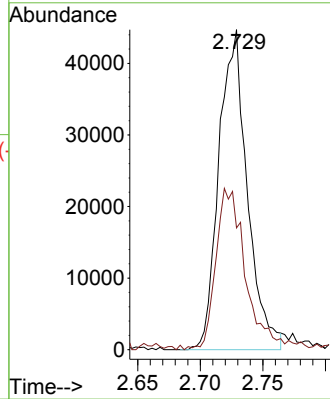
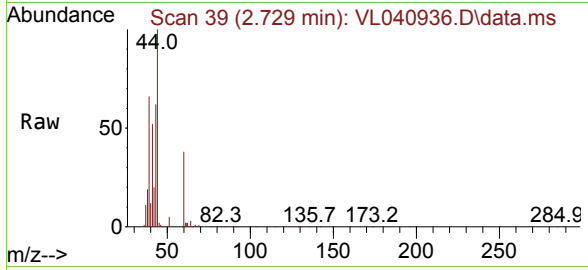
#9
Propene
Concen: 1.272 ppbv m
RT: 2.729 min Scan# 39
Delta R.T. 0.039 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 7039
Ion Ratio Lower Upper
41 100
42 162.0 55.8 83.6

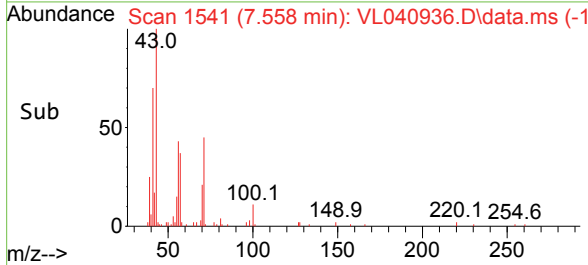
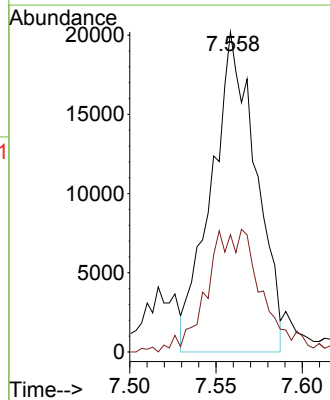
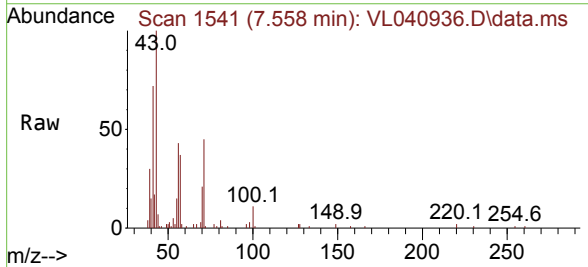
Manual Integrations
APPROVED

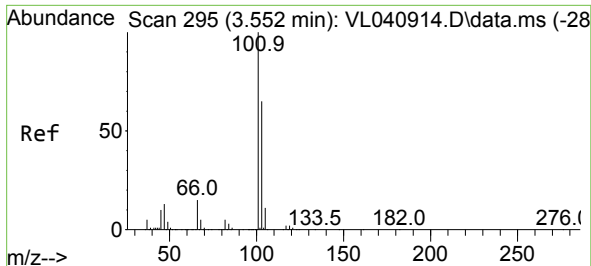
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#10
Heptane
Concen: 0.264 ppbv m
RT: 7.558 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 43 Resp: 36285
Ion Ratio Lower Upper
43 100
57 48.1 39.3 58.9





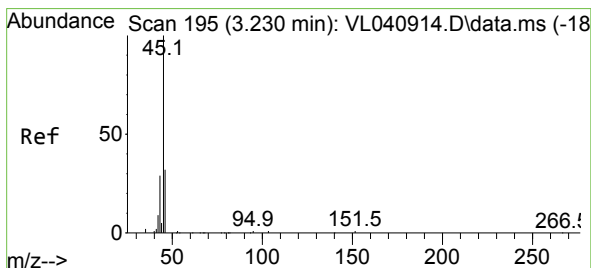
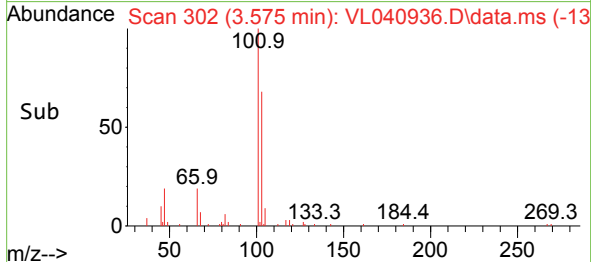
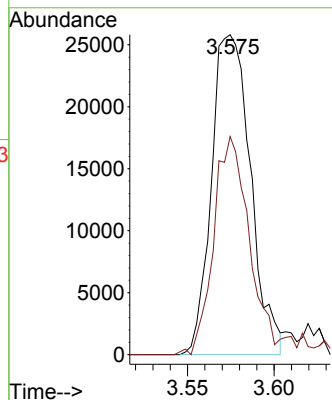
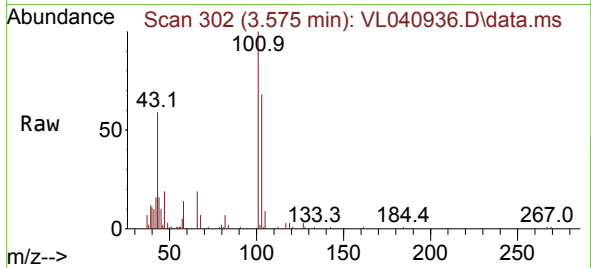
#11
Trichlorofluoromethane
Concen: 0.243 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.023 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:101 Resp: 40419
Ion Ratio Lower Upper
101 100
103 67.3 51.9 77.9

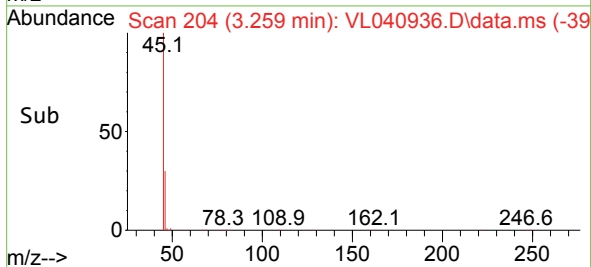
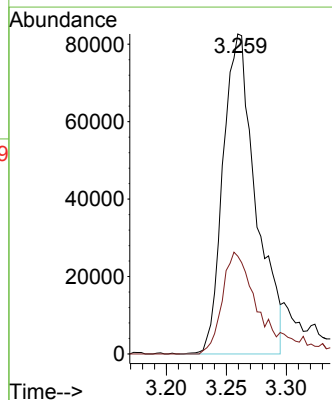
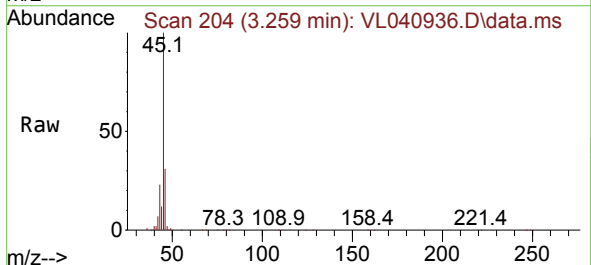
Manual Integrations
APPROVED

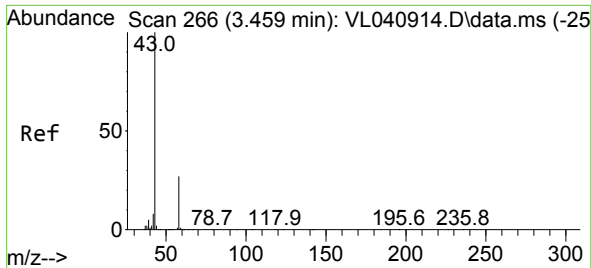
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#13
Ethanol
Concen: 11.225 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.029 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

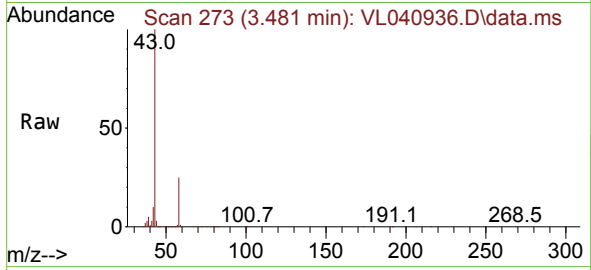
Tgt Ion: 45 Resp: 156764
Ion Ratio Lower Upper
45 100
46 37.3 15.0 60.0





#15
Acetone
Concen: 11.192 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

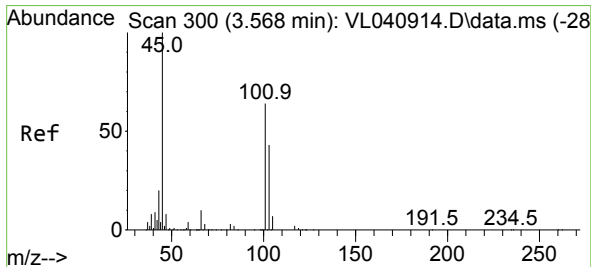
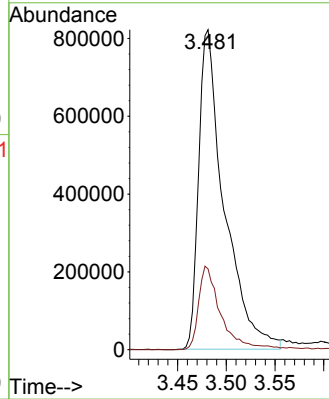
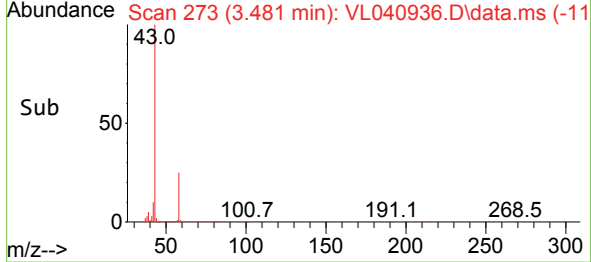
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 1496630
Ion Ratio Lower Upper
43 100
58 23.7 20.6 30.8

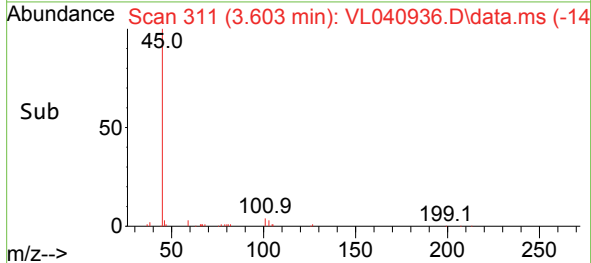
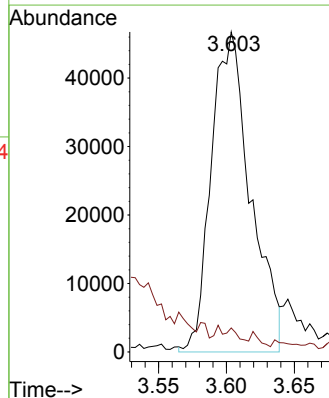
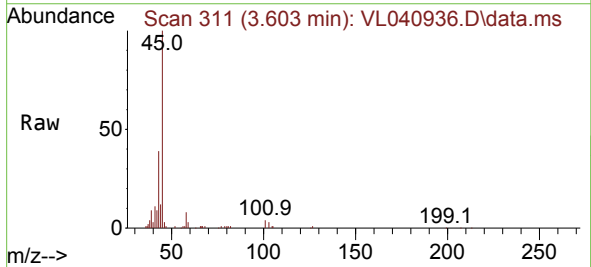
Manual Integrations
APPROVED

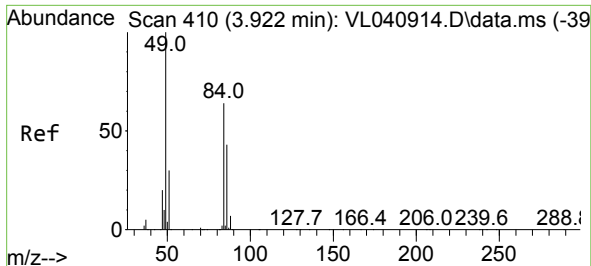
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#19
Isopropyl Alcohol
Concen: 1.350 ppbv m
RT: 3.603 min Scan# 311
Delta R.T. 0.035 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

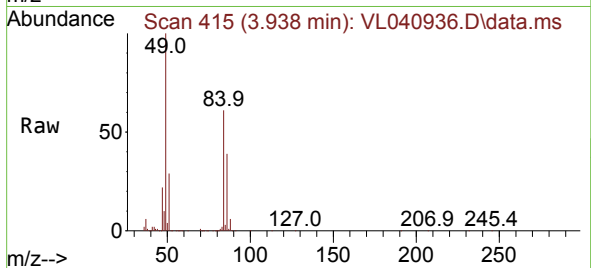
Tgt Ion: 45 Resp: 94219
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#





#20
Methylene Chloride
Concen: 12.635 ppbv
RT: 3.938 min Scan# 410
Delta R.T. 0.016 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

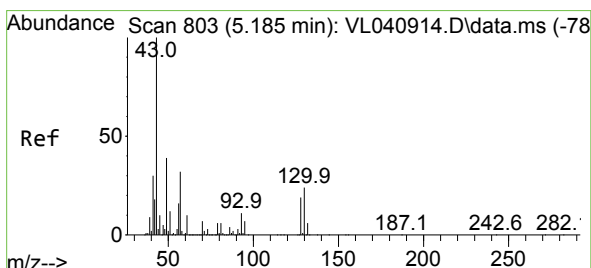
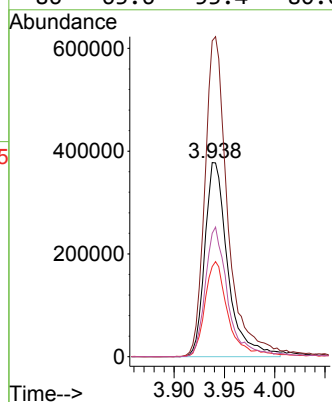
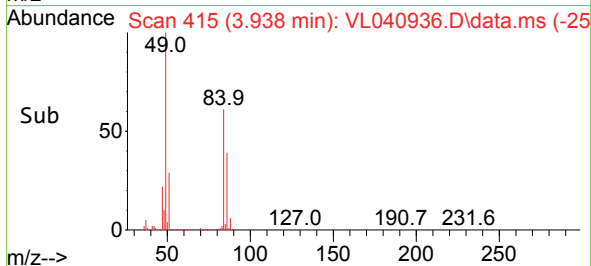
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 602227
Ion Ratio Lower Upper
84 100
49 162.8 124.6 187.0
51 46.3 37.2 55.8
86 63.6 53.4 80.0

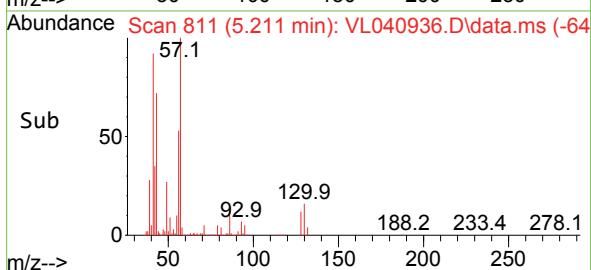
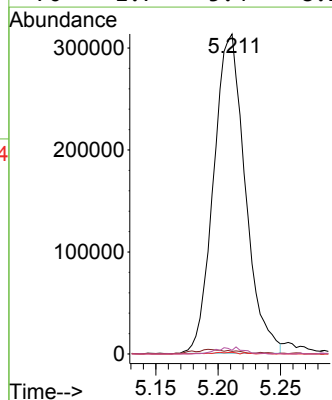
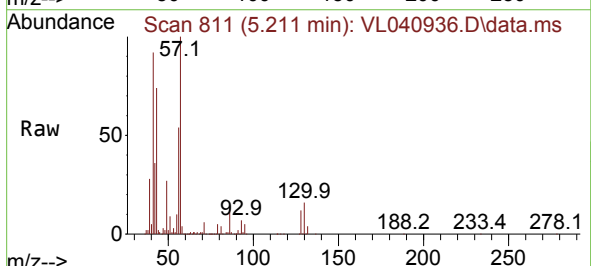
Manual Integrations
APPROVED

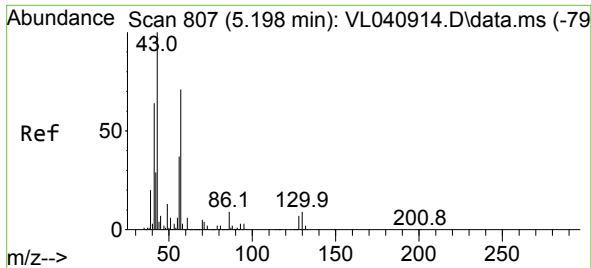
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#25
Ethyl Acetate
Concen: 2.380 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

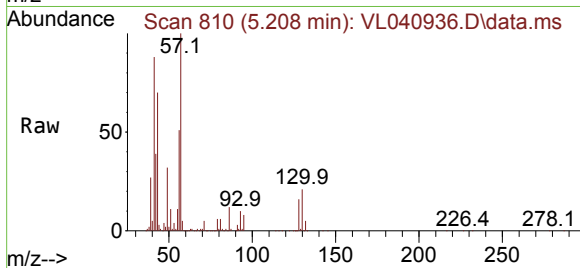
Tgt Ion: 43 Resp: 551402
Ion Ratio Lower Upper
43 100
45 2.2 8.2 12.2#
61 0.5 7.6 11.4#
70 1.7 5.4 8.2#





#26
Hexane
Concen: 7.505 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

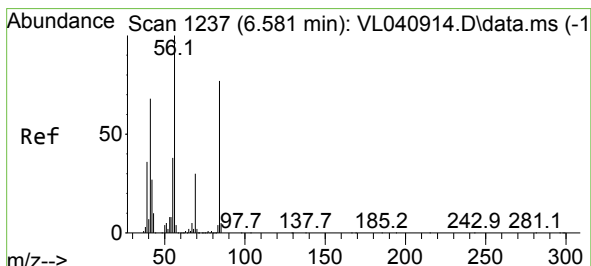
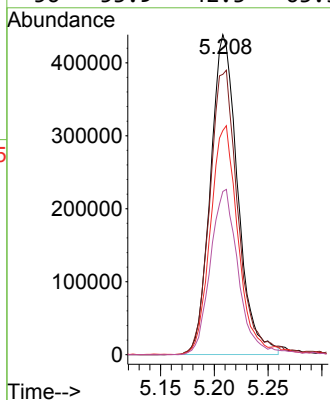
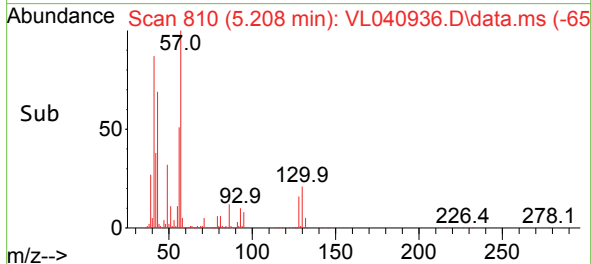
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 77068
Ion Ratio Lower Upper
57 100
41 93.7 75.2 112.8
43 74.8 188.0 282.0
56 53.9 42.3 63.5

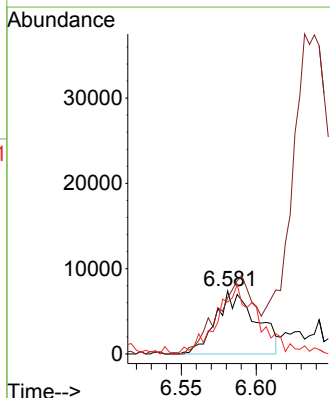
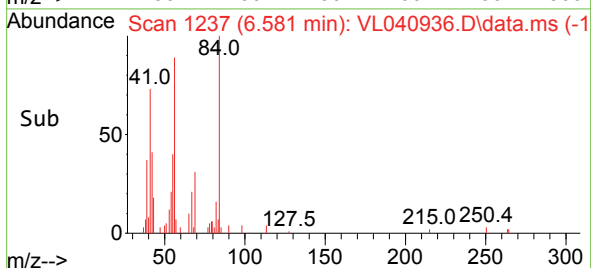
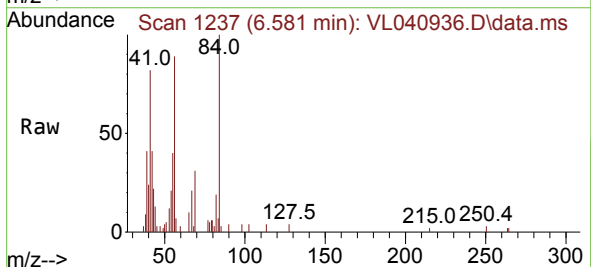
Manual Integrations
APPROVED

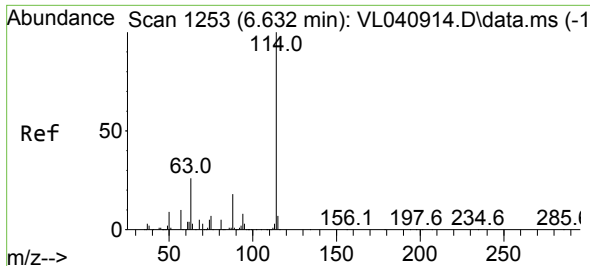
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#30
Cyclohexane
Concen: 0.160 ppbv m
RT: 6.581 min Scan# 1237
Delta R.T. 0.000 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

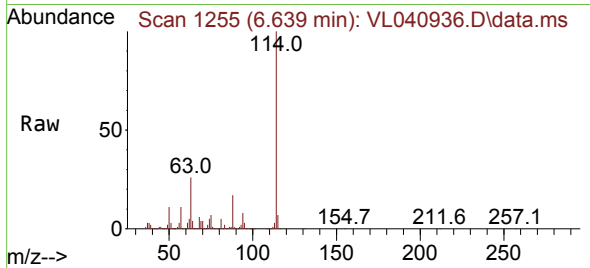
Tgt Ion: 84 Resp: 13708
Ion Ratio Lower Upper
84 100
56 112.7 111.4 167.2
41 117.9 70.0 105.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 114
Delta R.T. 0.007 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

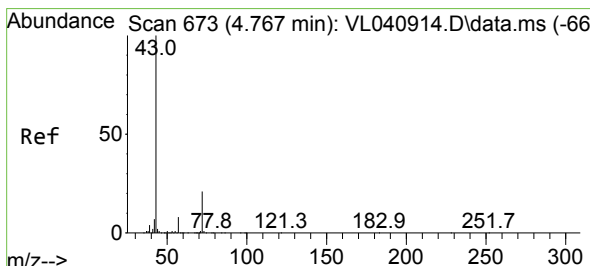
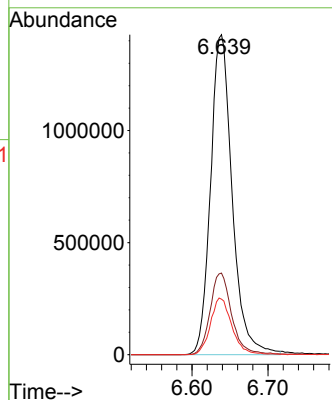
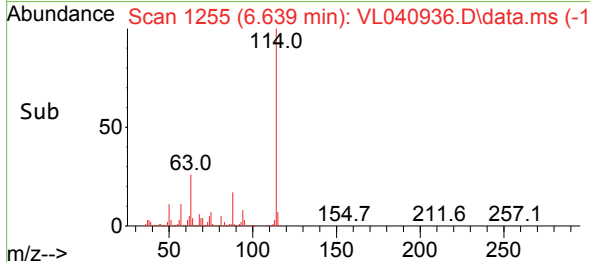
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:114 Resp: 2816110
Ion Ratio Lower Upper
114 100
63 25.7 21.0 31.6
88 17.7 14.3 21.5

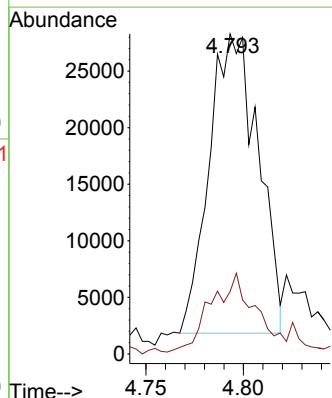
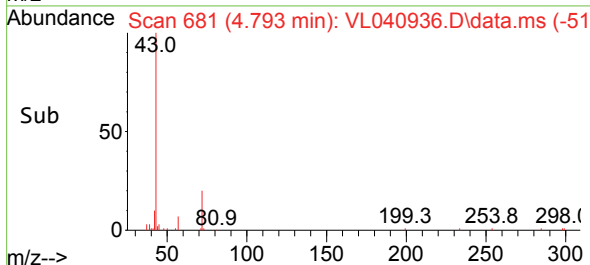
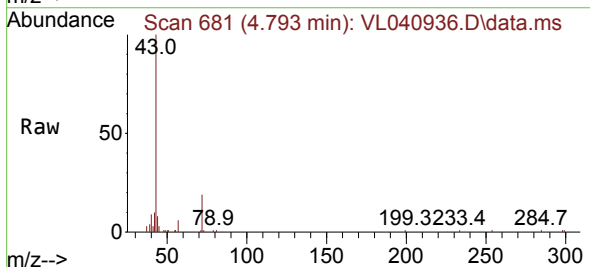
Manual Integrations
APPROVED

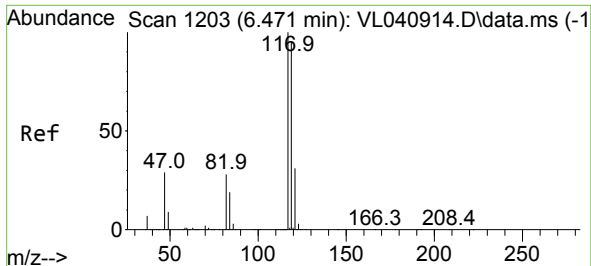
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#34
2-Butanone
Concen: 0.311 ppbv
RT: 4.793 min Scan# 681
Delta R.T. 0.026 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

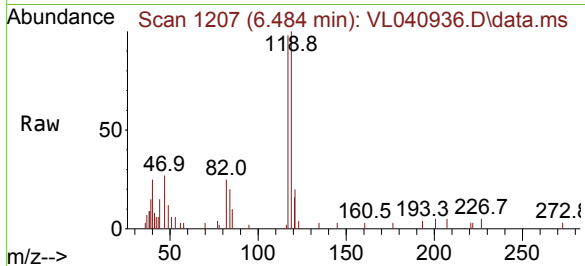
Tgt Ion: 43 Resp: 46261
Ion Ratio Lower Upper
43 100
72 28.8 17.2 25.8#





#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 6.484 min Scan# 117
Delta R.T. 0.013 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

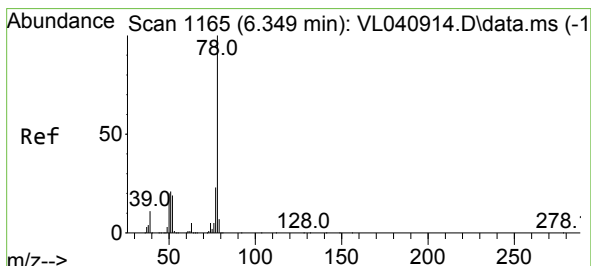
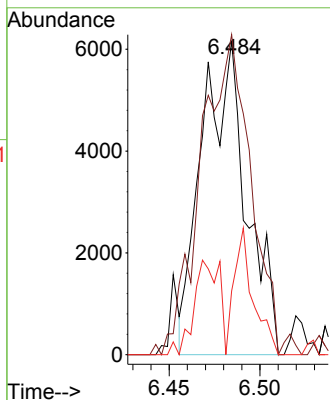
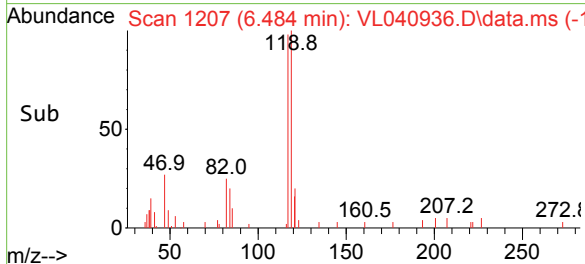
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 117 Resp: 1053
Ion Ratio Lower Upper
117 100
119 102.0 76.3 114.5
121 20.3 24.9 37.3

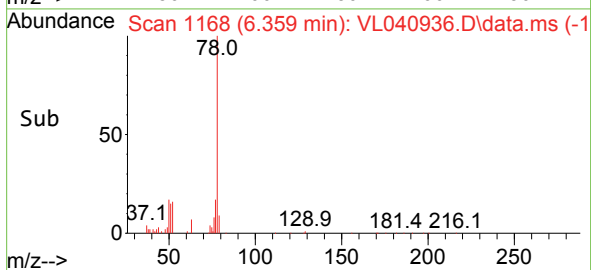
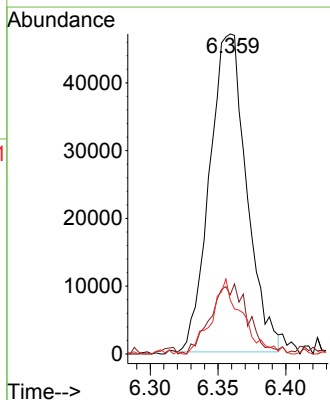
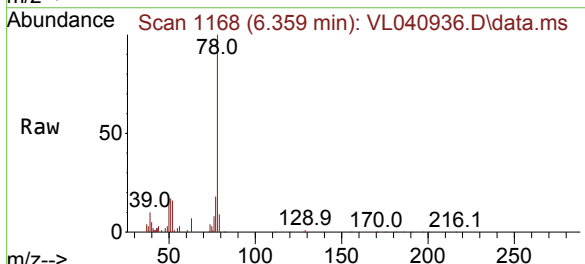
Manual Integrations
APPROVED

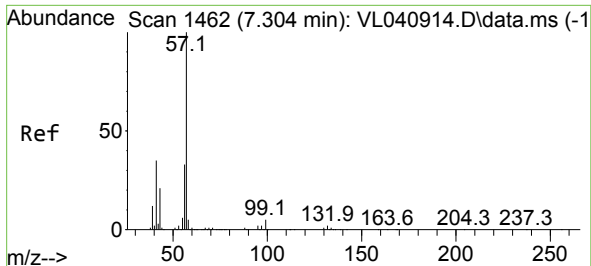
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#36
Benzene
Concen: 0.406 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.010 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

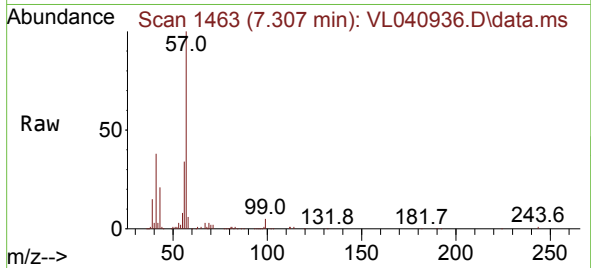
Tgt Ion: 78 Resp: 89291
Ion Ratio Lower Upper
78 100
77 18.0 18.4 27.6#
50 16.4 16.0 24.0





#44
2,2,4-Trimethylpentane
Concen: 0.651 ppbv
RT: 7.307 min Scan# 1463
Delta R.T. 0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

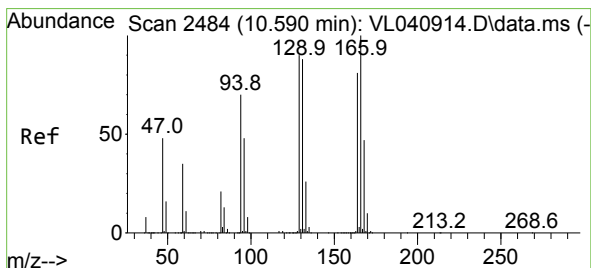
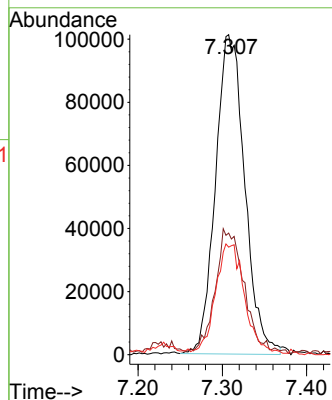
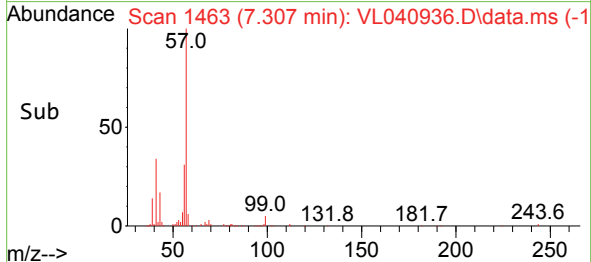
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 24355
Ion Ratio Lower Upper
57 100
41 39.8 28.2 42.4
56 35.6 25.3 37.9

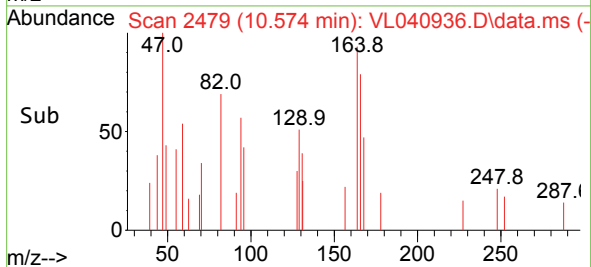
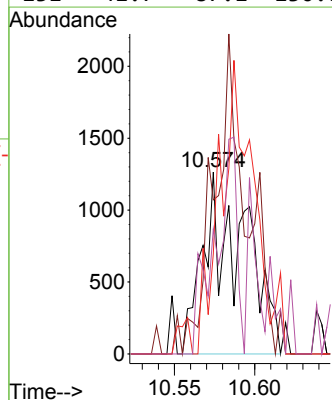
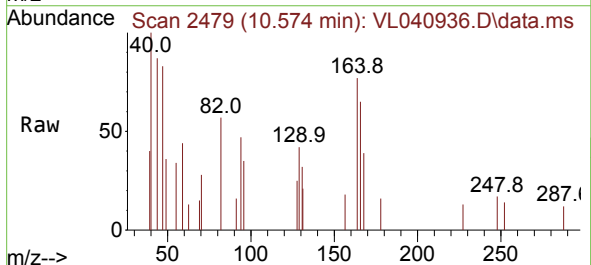
Manual Integrations
APPROVED

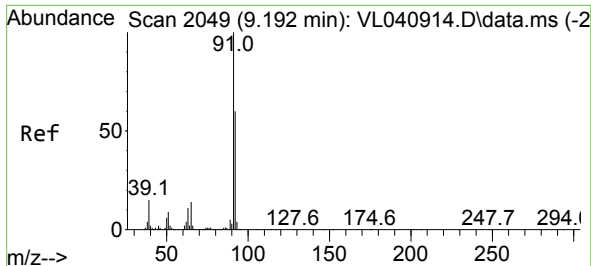
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#52
Tetrachloroethene
Concen: 0.030 ppbv m
RT: 10.574 min Scan# 2479
Delta R.T. -0.016 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

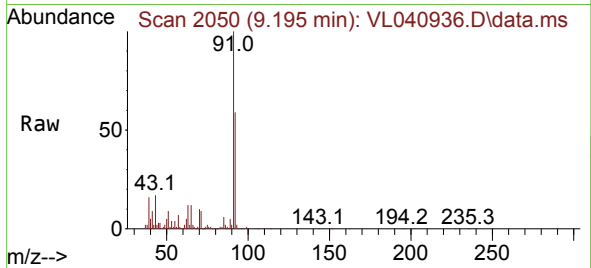
Tgt Ion:164 Resp: 2253
Ion Ratio Lower Upper
164 100
166 84.7 98.9 148.3#
129 55.0 88.7 133.1#
131 41.7 87.1 130.7#





#53
Toluene
Concen: 0.888 ppbv
RT: 9.195 min Scan# 2049
Delta R.T. 0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

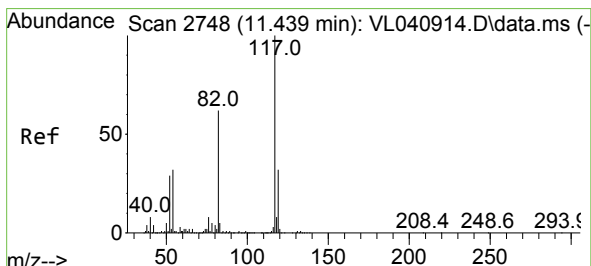
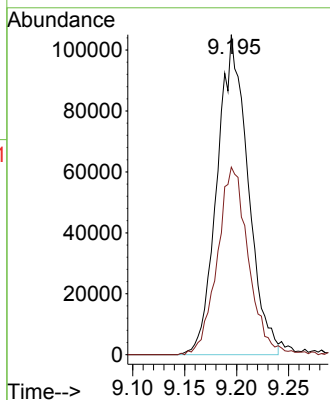
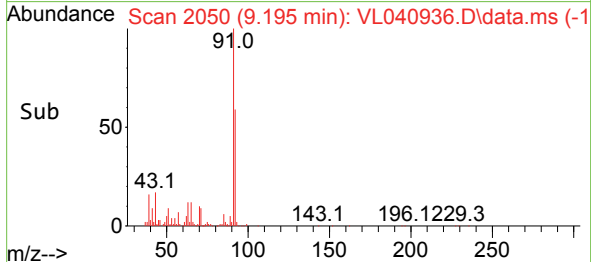
Instrument :
MSVOA_L
ClientSampleId :
OA1



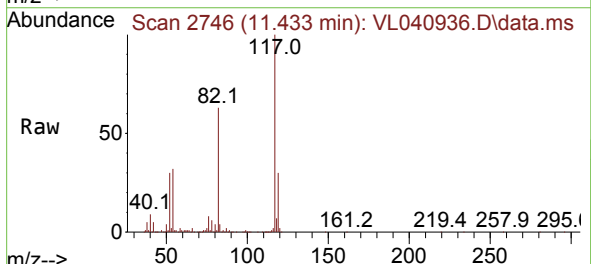
Tgt Ion: 91 Resp: 21664
Ion Ratio Lower Upper
91 100
92 59.4 49.2 73.8

Manual Integrations
APPROVED

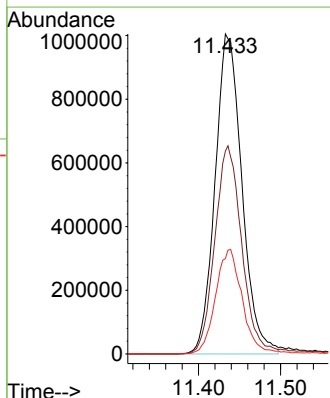
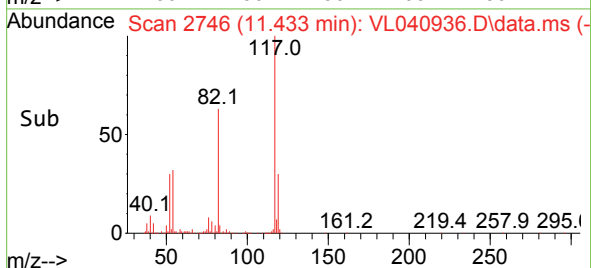
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

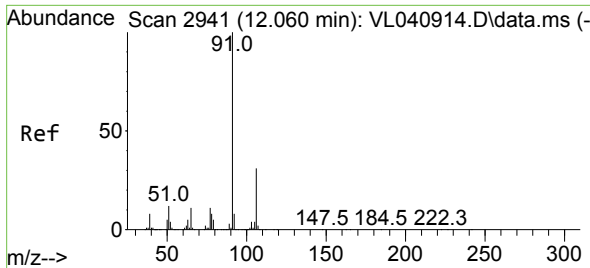


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 2746
Delta R.T. -0.006 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11



Tgt Ion:117 Resp: 2289221
Ion Ratio Lower Upper
117 100
82 67.2 49.6 74.4
119 32.9 23.4 35.0





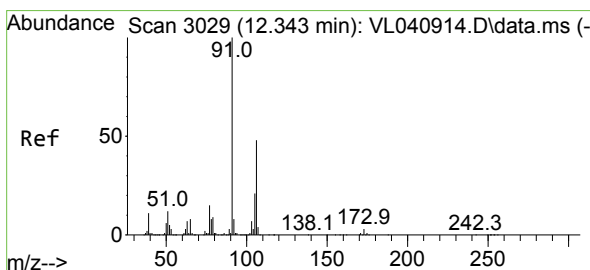
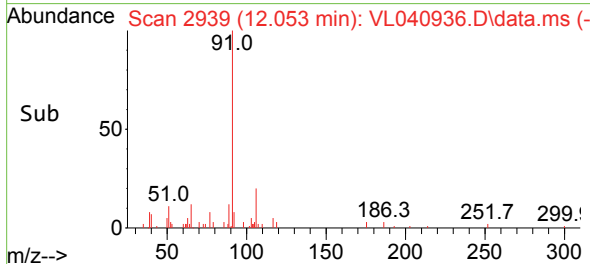
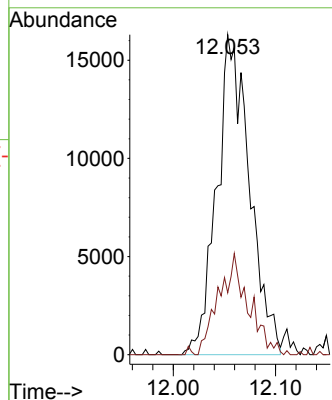
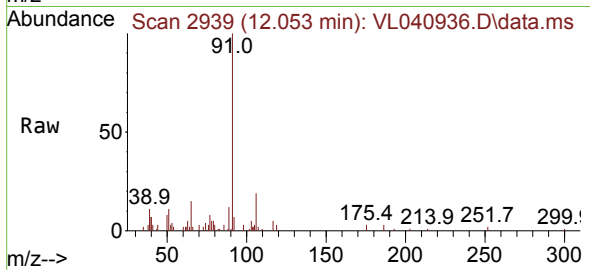
#58
Ethyl Benzene
Concen: 0.124 ppbv m
RT: 12.053 min Scan# 2941
Delta R.T. -0.006 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 36348
Ion Ratio Lower Upper
91 100
106 19.3 24.9 37.3

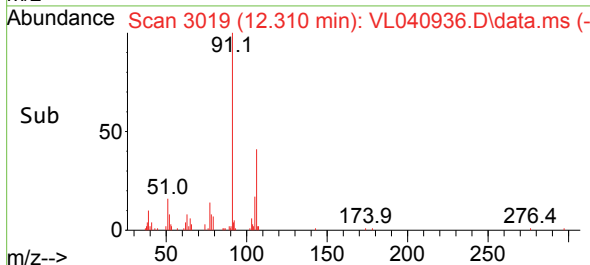
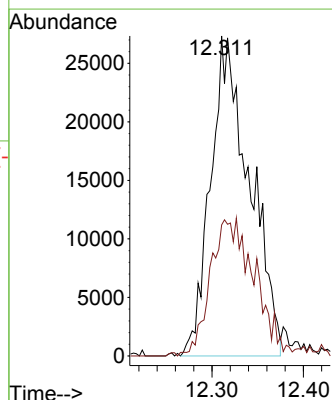
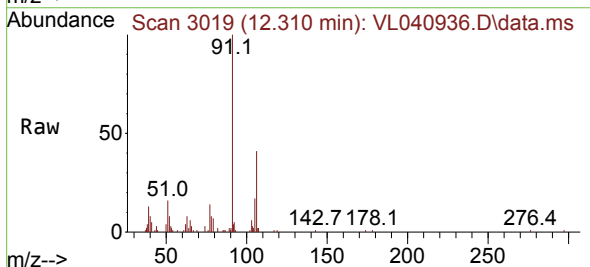
Manual Integrations
APPROVED

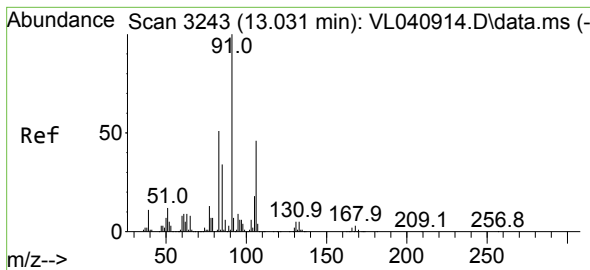
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#59
m/p-Xylene
Concen: 0.324 ppbv m
RT: 12.310 min Scan# 3019
Delta R.T. -0.032 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 91 Resp: 80974
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





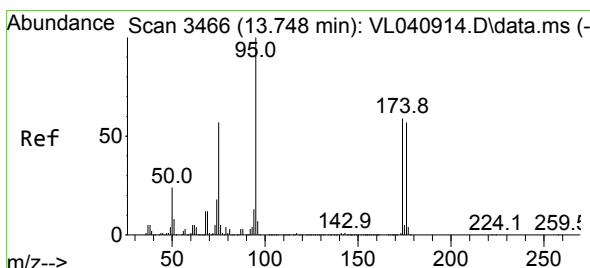
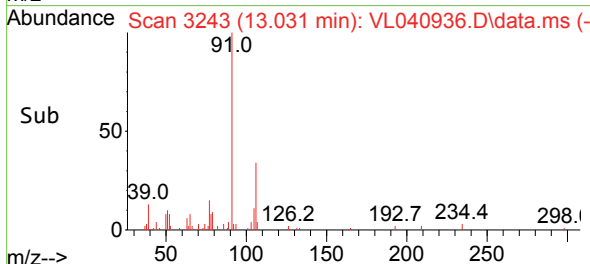
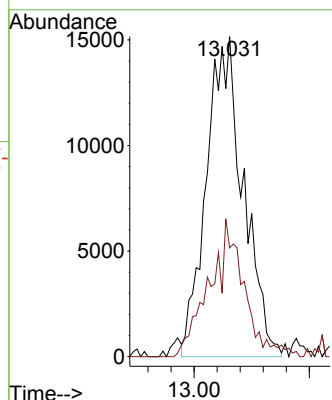
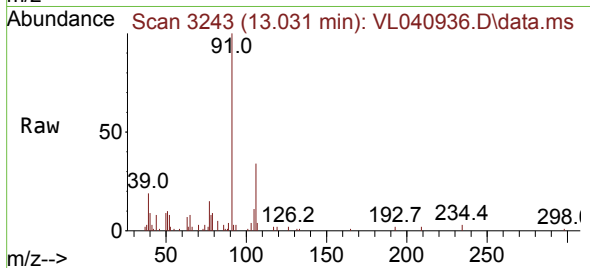
#60
o-Xylene
Concen: 0.143 ppbv m
RT: 13.031 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 33770
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7

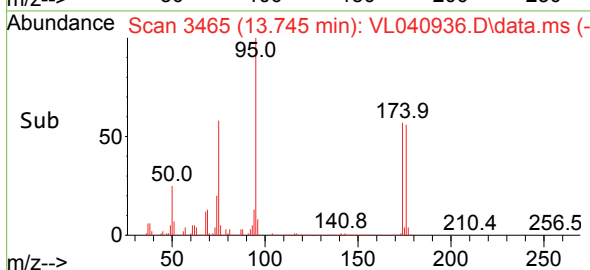
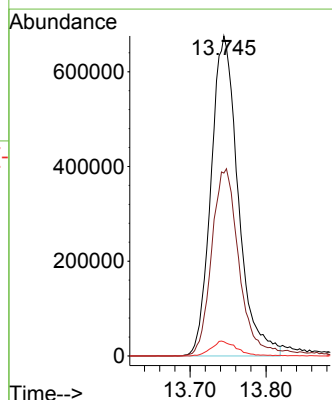
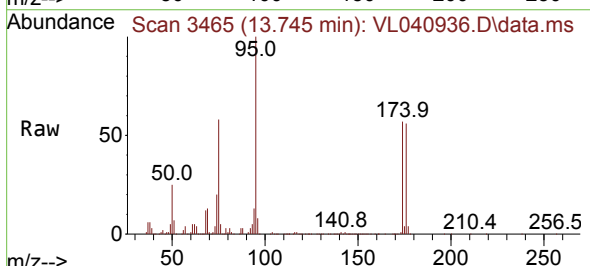
Manual Integrations
APPROVED

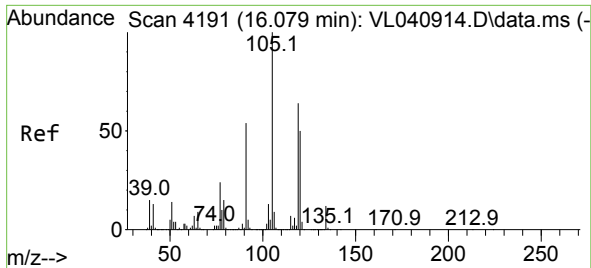
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 13.745 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

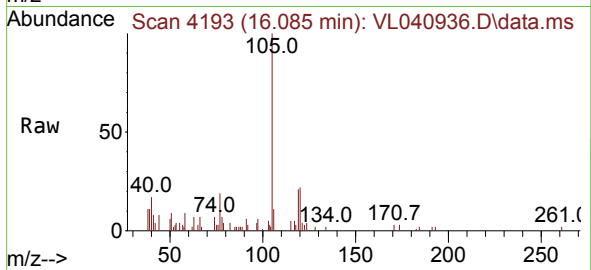
Tgt Ion: 95 Resp: 1677872
Ion Ratio Lower Upper
95 100
174 60.9 48.0 72.0
175 4.5 3.7 5.5





#74
1,2,4-Trimethylbenzene
Concen: 0.097 ppbv m
RT: 16.085 min Scan# 4193
Delta R.T. 0.007 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:	105	Resp:	2417
Ion Ratio	Lower	Upper	
105	100		
120	22.1	40.2	60.4
91	5.9	43.0	64.6
77	18.9	18.9	28.3

Manual Integrations
APPROVED

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

