

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040769.D
 Acq On : 11 Oct 2023 23:53
 Operator : SY/MD
 Sample : 04827-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2023
 Supervised By :Mahesh Dadoda 10/16/2023

Quant Time: Oct 13 01:21:25 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.205	49	914480	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2565934	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2296764	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1710333	10.120	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.758	85	85376	0.530	ppbv	93
3) Chlorodifluoromethane	2.703	51	67709m	0.504	ppbv	
4) Chloromethane	2.841	50	26181	0.493	ppbv	94
9) Propene	2.732	41	87434m	1.752	ppbv	
10) Heptane	7.587	43	53083	0.423	ppbv	98
11) Trichlorofluoromethane	3.587	101	29288	0.236	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.095	101	6912m	0.078	ppbv	
13) Ethanol	3.262	45	854401	75.824	ppbv	97
15) Acetone	3.491	43	482925	5.108	ppbv #	89
19) Isopropyl Alcohol	3.600	45	3269596	53.725	ppbv #	39
20) Methylene Chloride	3.954	84	389014	9.879	ppbv	98
26) Hexane	5.230	57	475199	5.020	ppbv #	42
27) Carbon Disulfide	4.143	76	290060	2.777	ppbv #	85
30) Cyclohexane	6.610	84	30697m	0.381	ppbv	
34) 2-Butanone	4.809	43	48093	0.414	ppbv #	89
35) Carbon Tetrachloride	6.510	117	11511m	0.080	ppbv	
36) Benzene	6.378	78	110056	0.558	ppbv	99
44) 2,2,4-Trimethylpentane	7.339	57	141145m	0.423	ppbv	
52) Tetrachloroethene	10.622	164	4321m	0.054	ppbv	
53) Toluene	9.227	91	350811	1.494	ppbv	99
58) Ethyl Benzene	12.095	91	72774m	0.252	ppbv	
59) m/p-Xylene	12.346	91	207931m	0.874	ppbv	
60) o-Xylene	13.063	91	82458	0.364	ppbv	98
64) n-propylbenzene	14.915	120	24141m	0.258	ppbv	
73) 1,3,5-Trimethylbenzene	15.352	105	111712	0.478	ppbv	95
74) 1,2,4-Trimethylbenzene	16.108	105	298308m	1.168	ppbv	

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

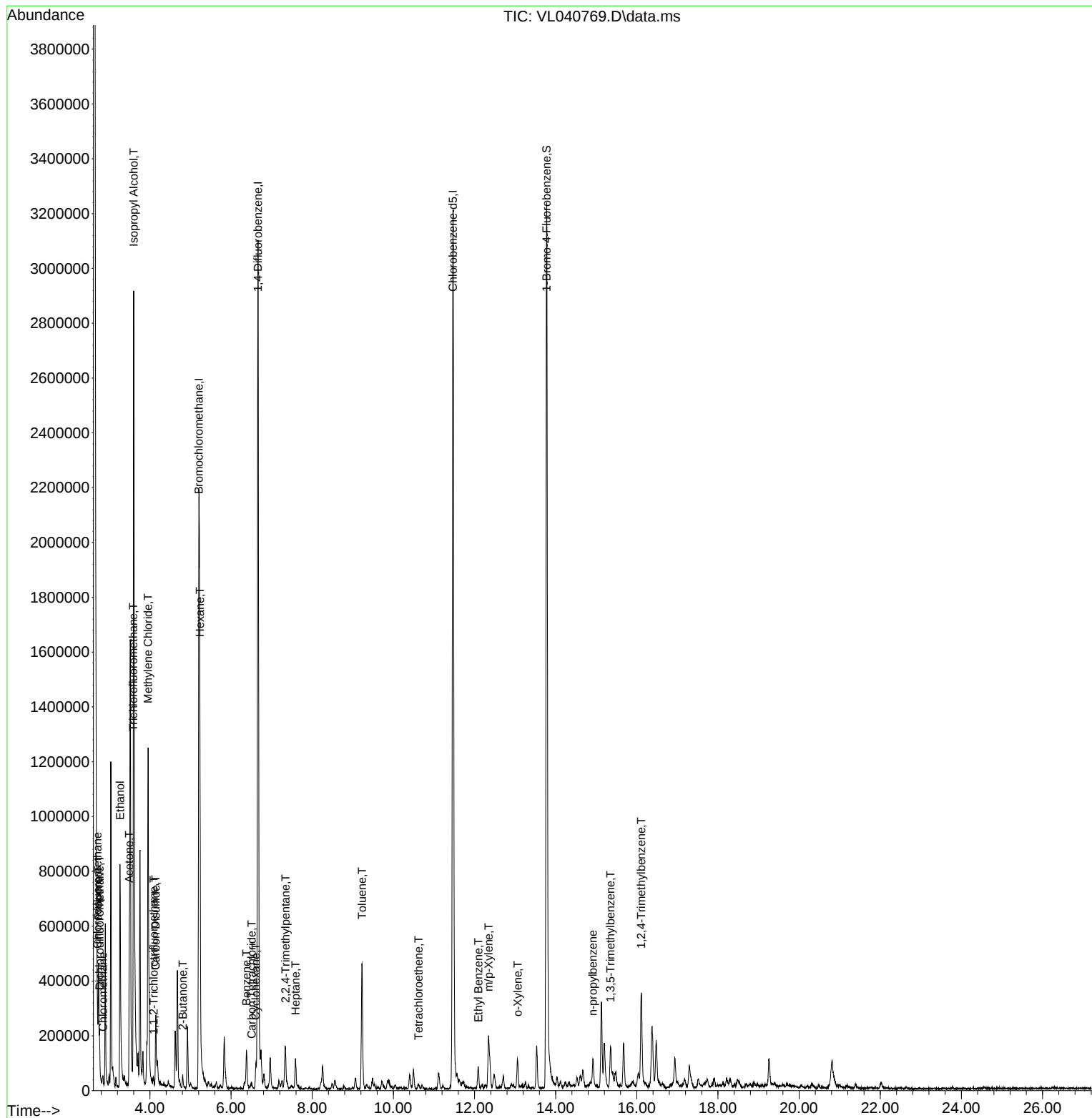
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
Data File : VL040769.D
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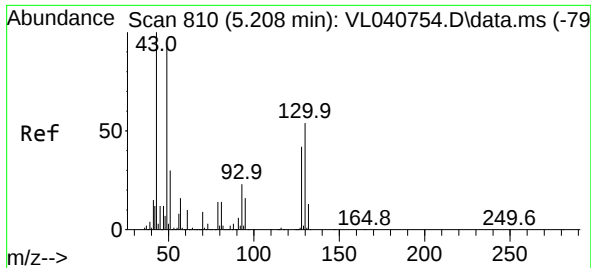
Instrument :
MSVOA_L
ClientSampleId :
IA3

Quant Time: Oct 13 01:21:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

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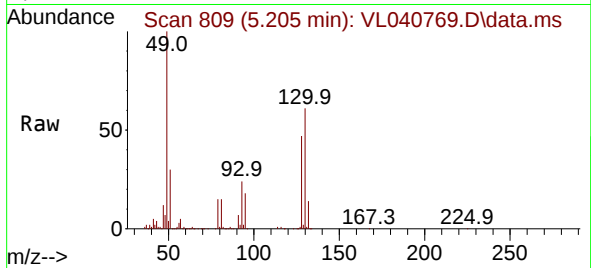
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

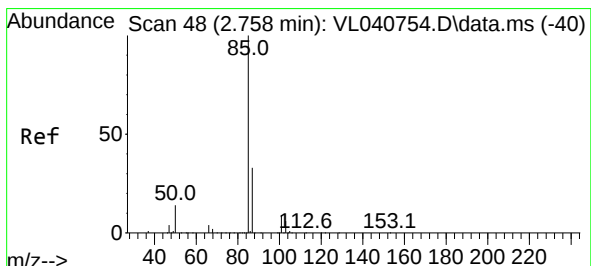
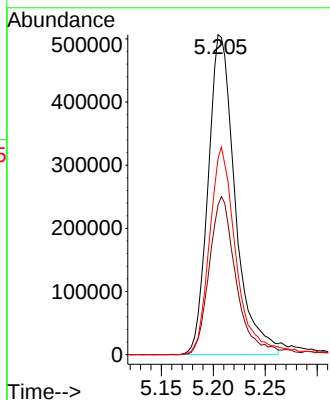
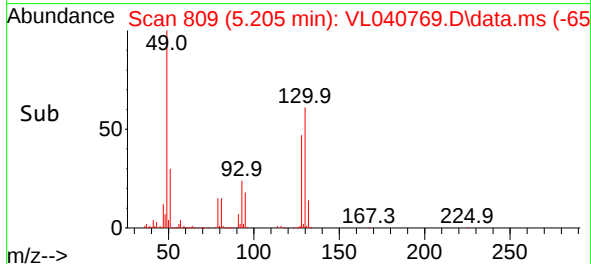
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 49 Resp: 914480
Ion Ratio Lower Upper
49 100
128 51.2 23.9 71.7
130 65.9 30.7 92.1

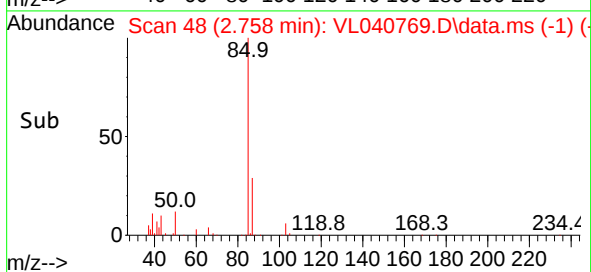
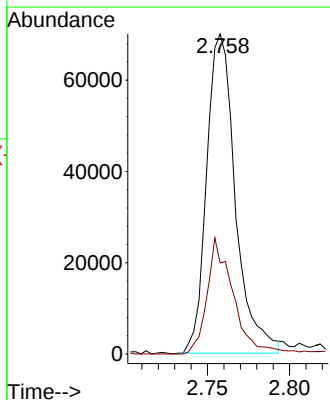
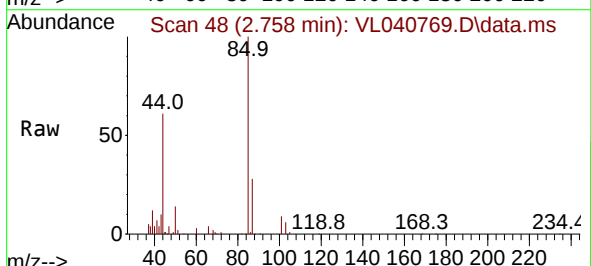
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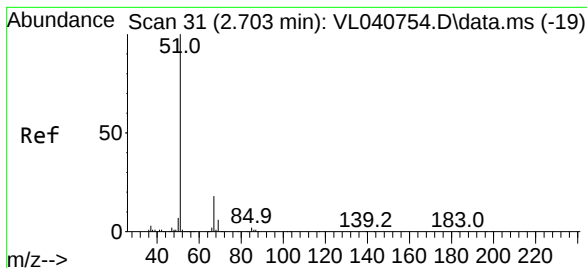
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 2.758 min Scan# 48
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

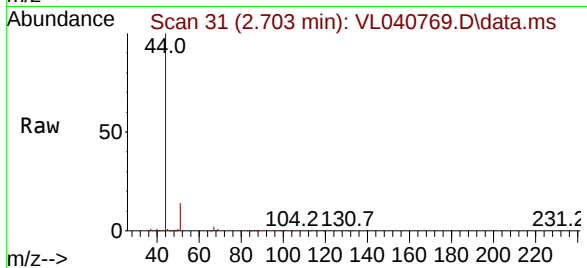
Tgt Ion: 85 Resp: 85376
Ion Ratio Lower Upper
85 100
87 28.5 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.504 ppbv m
RT: 2.703 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

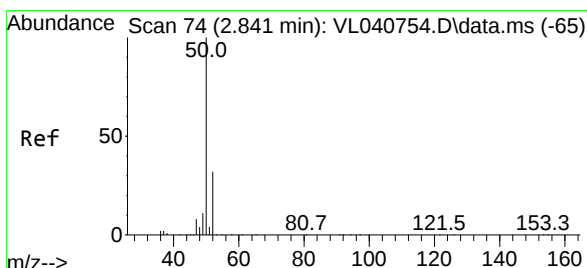
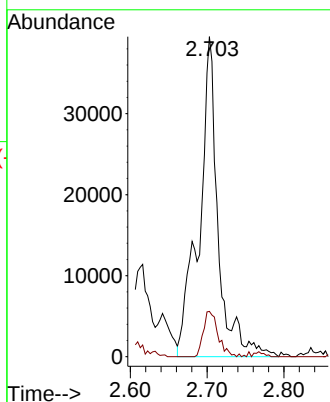
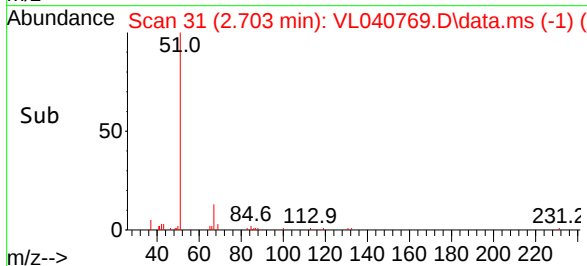
Instrument :
MSVOA_L
ClientSampleId :
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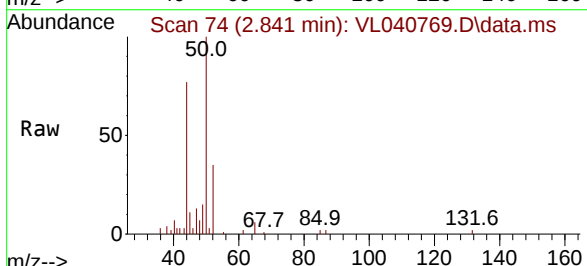
Tgt Ion: 51 Resp: 67709
Ion Ratio Lower Upper
51 100
67 0.9 13.8 20.6

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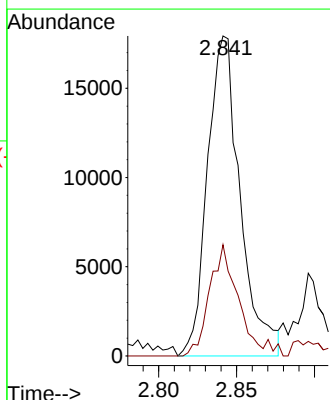
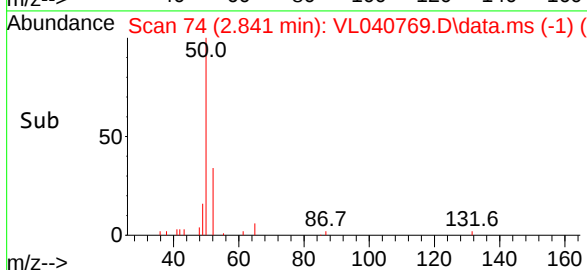
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

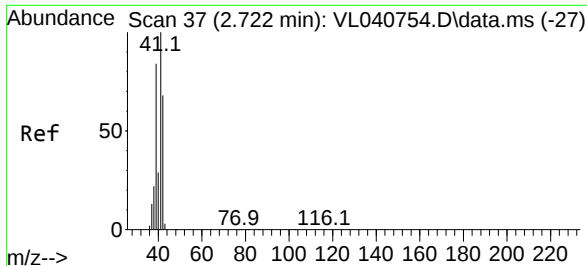


#4
Chloromethane
Concen: 0.493 ppbv
RT: 2.841 min Scan# 74
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53



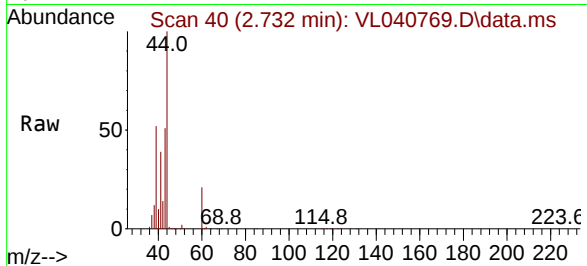
Tgt Ion: 50 Resp: 26181
Ion Ratio Lower Upper
50 100
52 34.8 25.3 37.9





#9
 Propene
 Concen: 1.752 ppbv m
 RT: 2.732 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

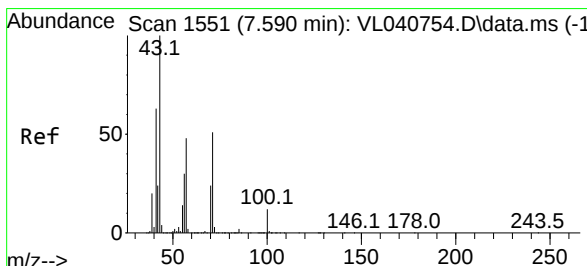
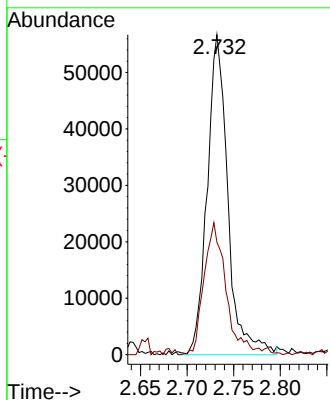
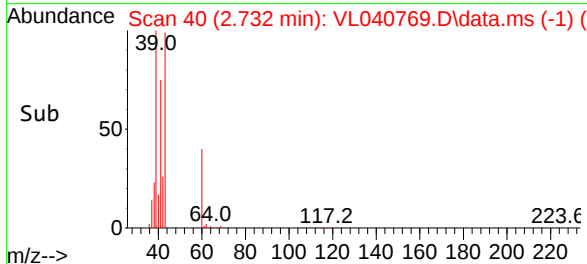
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion: 41 Resp: 87434
 Ion Ratio Lower Upper
 41 100
 42 121.5 57.1 85.7

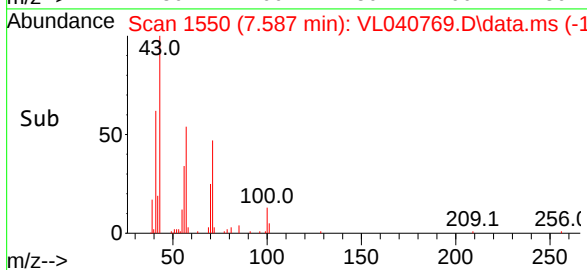
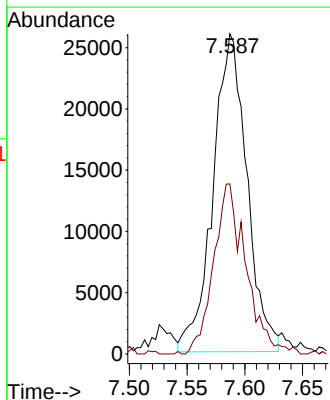
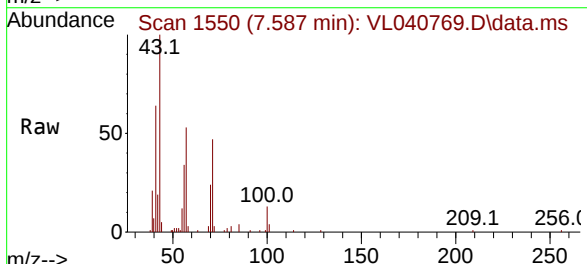
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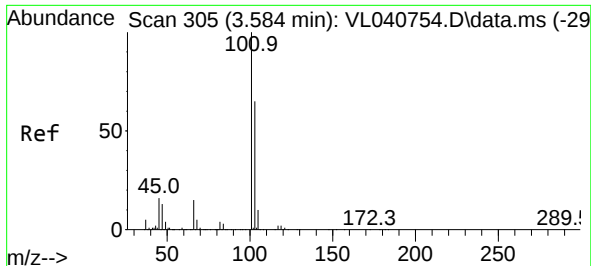
Reviewed By :Semsettin Yesilyurt 10/14/2023
 Supervised By :Mahesh Dadoda 10/16/2023



#10
 Heptane
 Concen: 0.423 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. -0.003 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

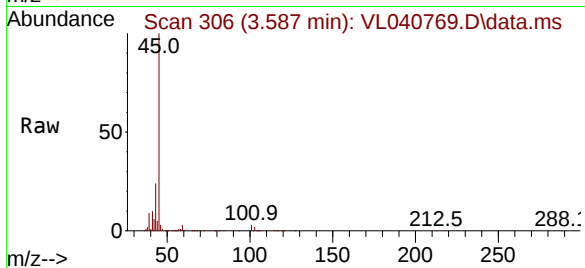
Tgt Ion: 43 Resp: 53083
 Ion Ratio Lower Upper
 43 100
 57 51.1 40.0 60.0





#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 3.587 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

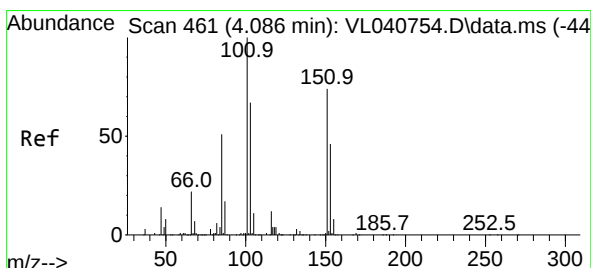
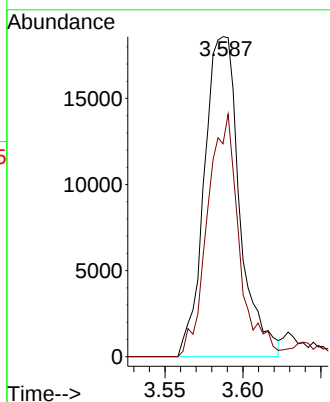
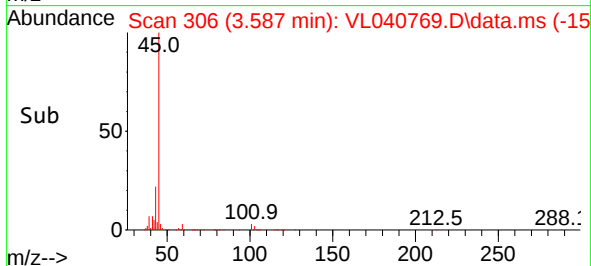
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion:101 Resp: 2928
 Ion Ratio Lower Upper
 101 100
 103 66.5 52.2 78.2

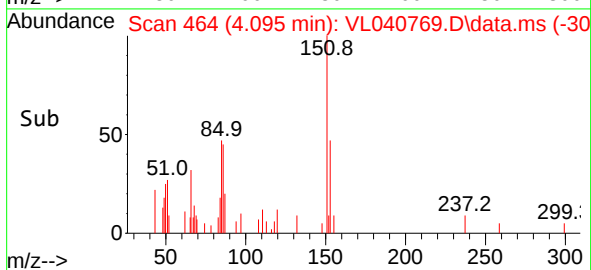
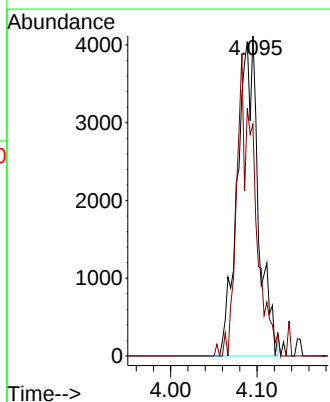
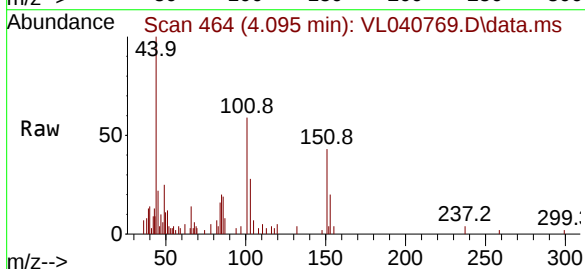
Manual Integrations
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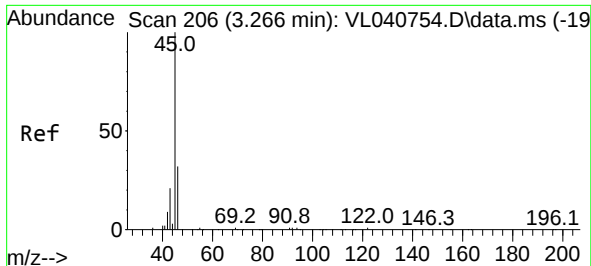
Reviewed By :Semsettin Yesilyurt 10/14/2023
 Supervised By :Mahesh Dadoda 10/16/2023



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv m
 RT: 4.095 min Scan# 464
 Delta R.T. 0.010 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

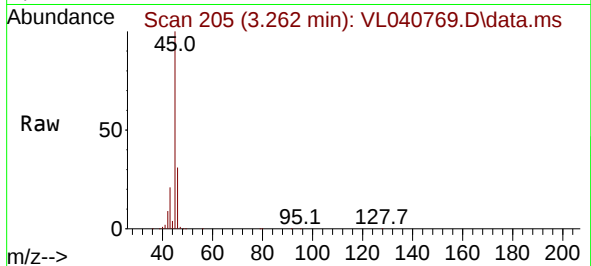
Tgt Ion:101 Resp: 6912
 Ion Ratio Lower Upper
 101 100
 151 80.9 58.1 87.1





#13
Ethanol
Concen: 75.824 ppbv
RT: 3.262 min Scan# 206
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

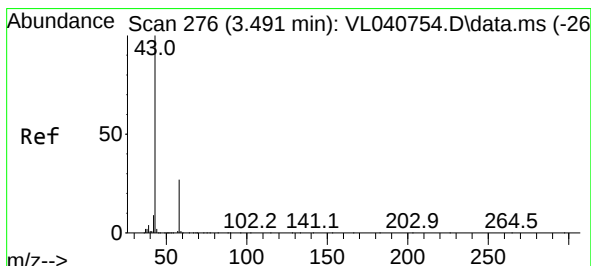
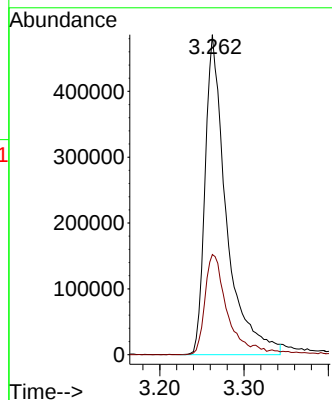
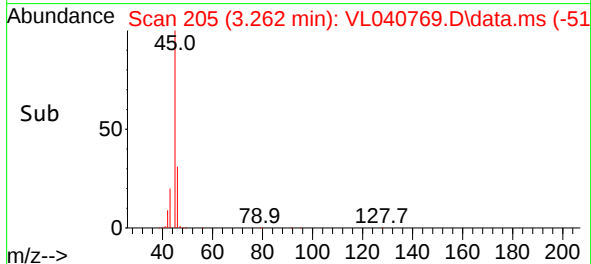
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 45 Resp: 85440
Ion Ratio Lower Upper
45 100
46 34.8 14.6 58.2

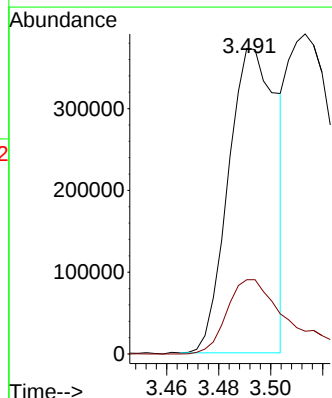
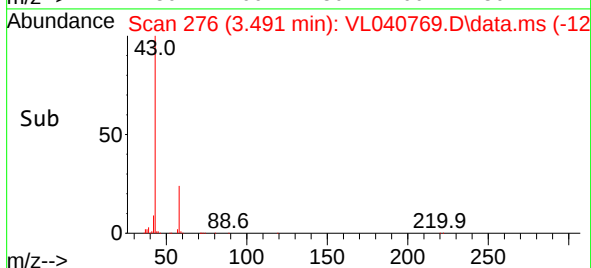
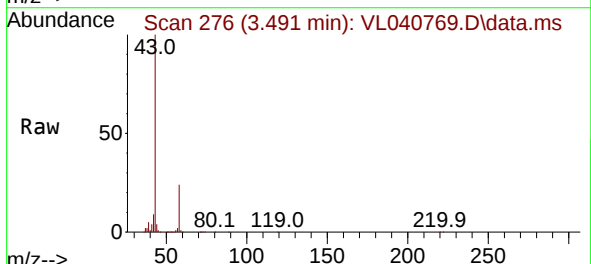
Manual Integrations
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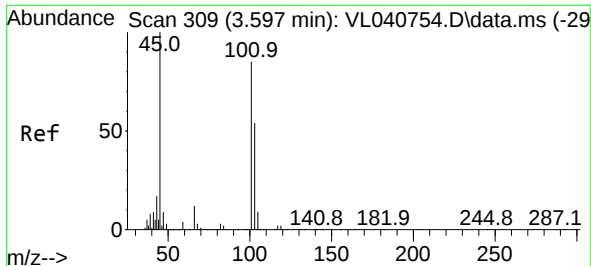
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#15
Acetone
Concen: 5.108 ppbv
RT: 3.491 min Scan# 276
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

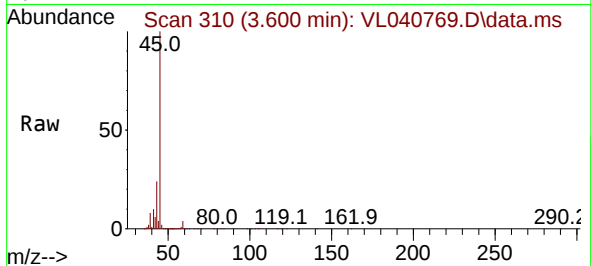
Tgt Ion: 43 Resp: 482925
Ion Ratio Lower Upper
43 100
58 32.5 21.6 32.4#





#19
Isopropyl Alcohol
Concen: 53.725 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

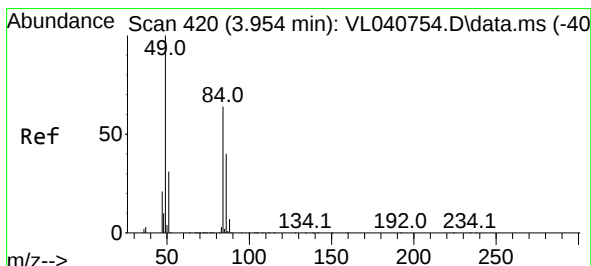
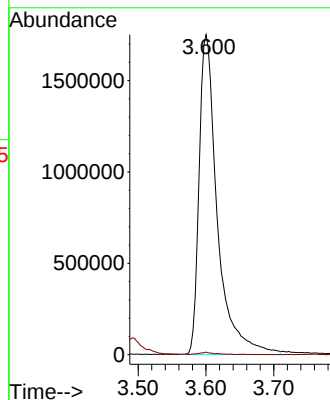
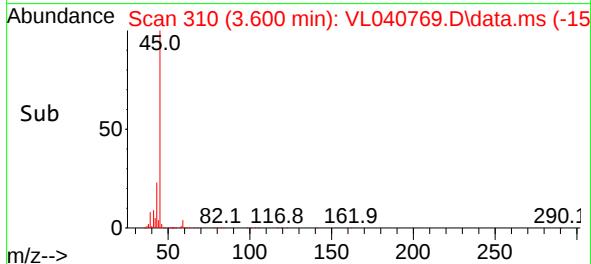
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 45 Resp: 3269590
Ion Ratio Lower Upper
45 100
58 0.9 30.3 45.5

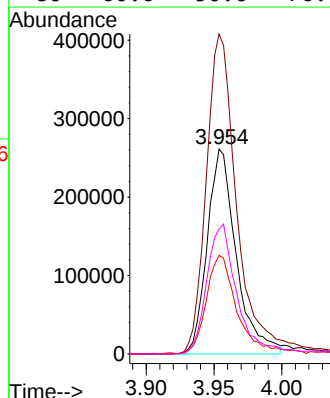
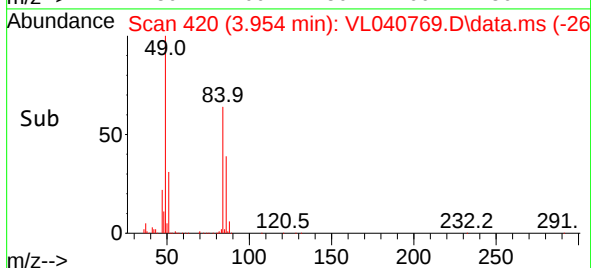
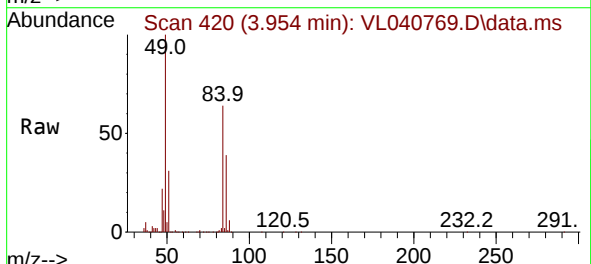
Manual Integrations
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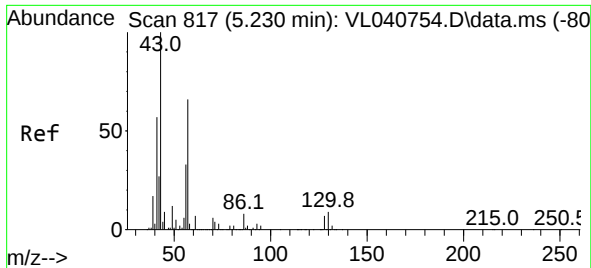
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#20
Methylene Chloride
Concen: 9.879 ppbv
RT: 3.954 min Scan# 420
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

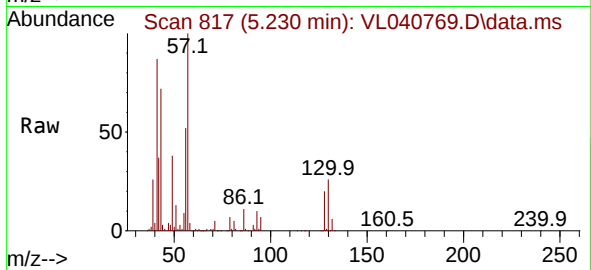
Tgt Ion: 84 Resp: 389014
Ion Ratio Lower Upper
84 100
49 155.9 125.6 188.4
51 47.9 38.9 58.3
86 60.6 50.6 76.0





#26
Hexane
Concen: 5.020 ppbv
RT: 5.230 min Scan# 817
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

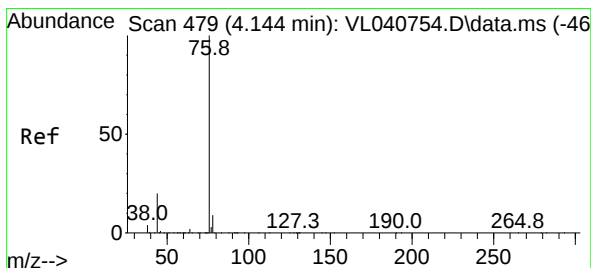
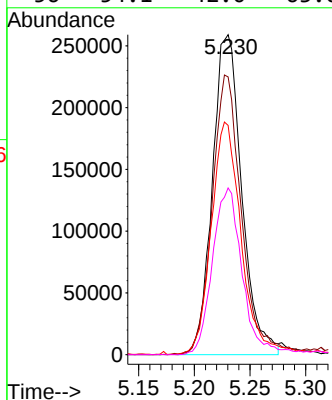
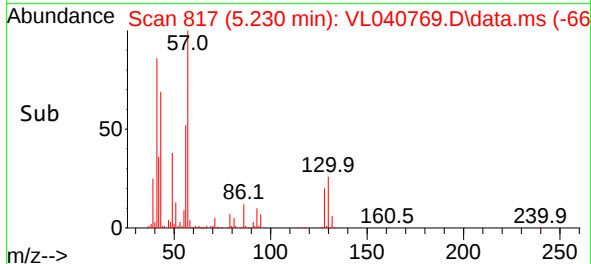
Instrument : MSVOA_L
ClientSampleId : IA3



Tgt Ion: 57 Resp: 475199
Ion Ratio Lower Upper
57 100
41 89.3 71.4 107.2
43 74.9 182.3 273.5
56 54.1 42.0 63.0

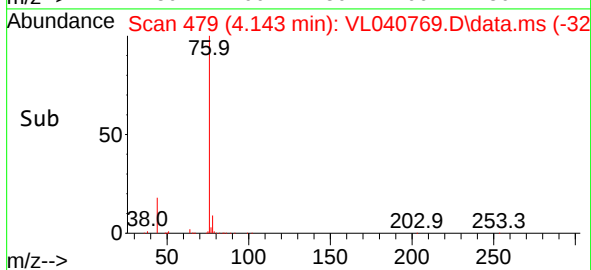
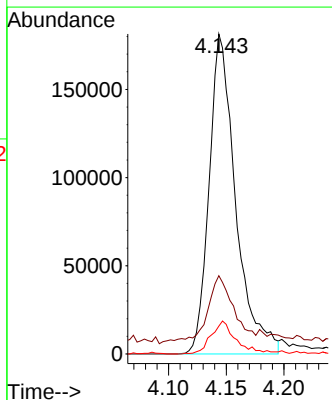
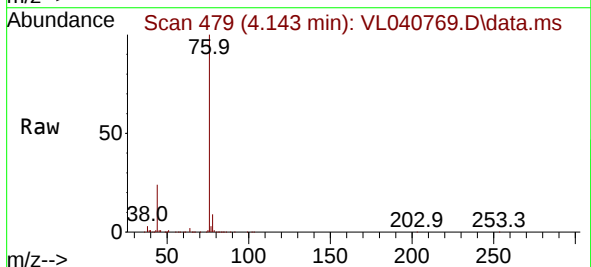
Manual Integrations
APPROVED

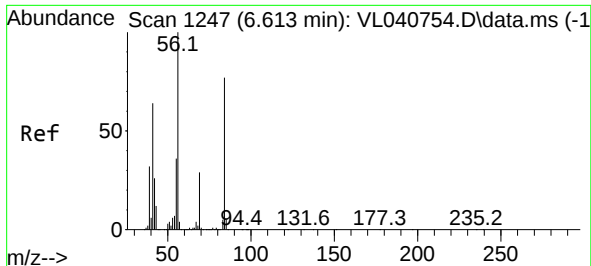
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#27
Carbon Disulfide
Concen: 2.777 ppbv
RT: 4.143 min Scan# 479
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

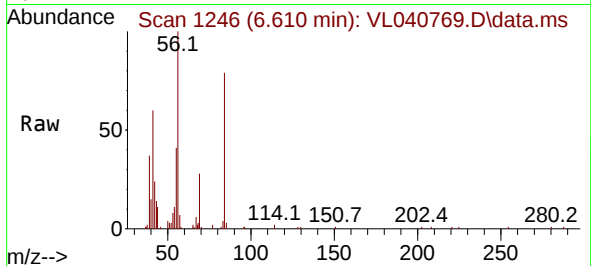
Tgt Ion: 76 Resp: 290060
Ion Ratio Lower Upper
76 100
44 30.6 16.6 25.0#
78 10.6 7.8 11.6





#30
Cyclohexane
Concen: 0.381 ppbv m
RT: 6.610 min Scan# 1247
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

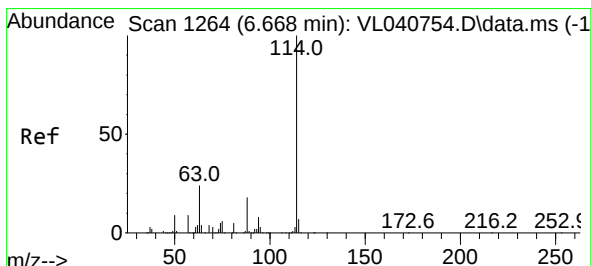
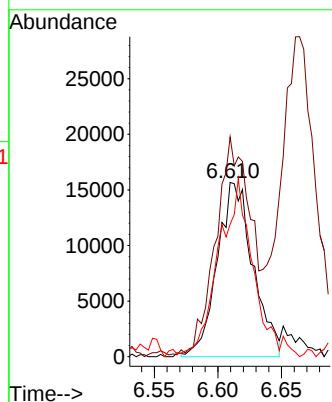
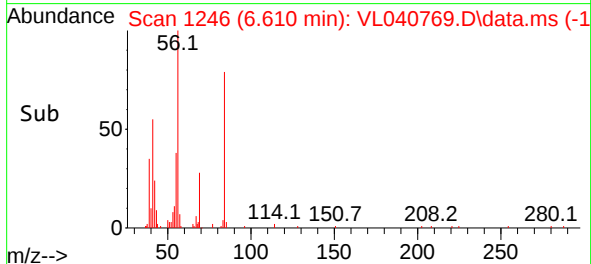
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 84 Resp: 3069
Ion Ratio Lower Upper
84 100
56 129.3 110.3 165.5
41 0.0 67.4 101.2

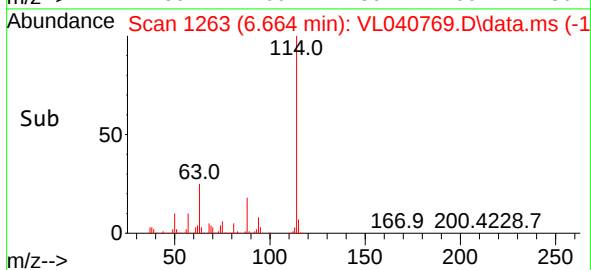
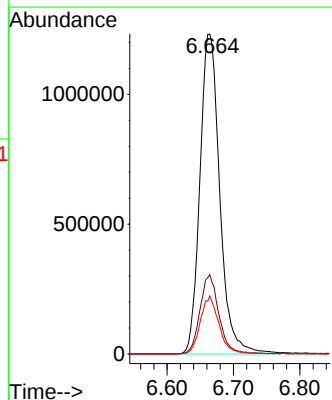
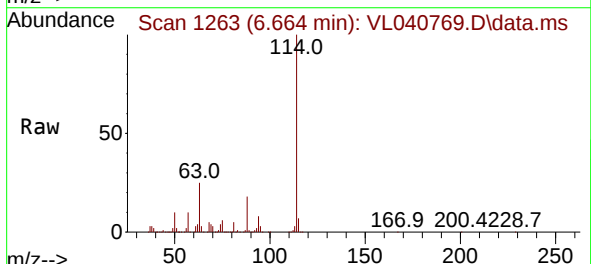
Manual Integrations
APPROVED

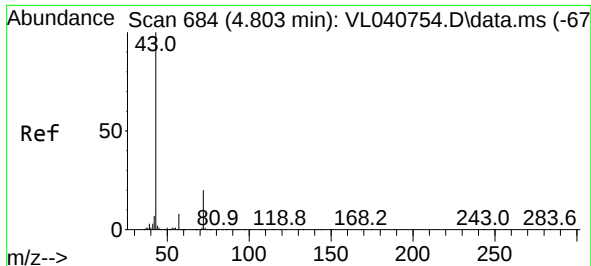
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

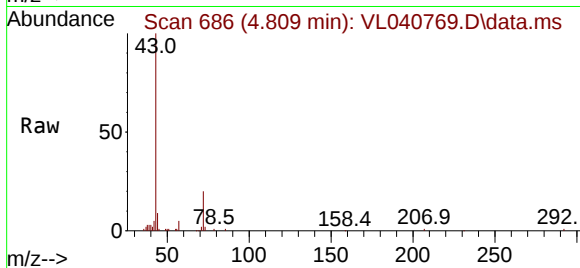
Tgt Ion:114 Resp: 2565934
Ion Ratio Lower Upper
114 100
63 23.8 19.8 29.6
88 17.1 14.2 21.2





#34
2-Butanone
Concen: 0.414 ppbv
RT: 4.809 min Scan# 684
Delta R.T. 0.006 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

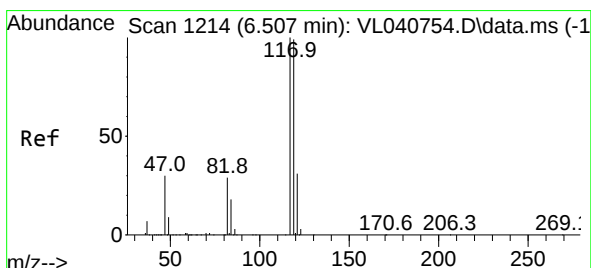
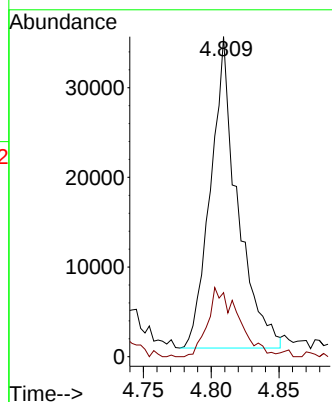
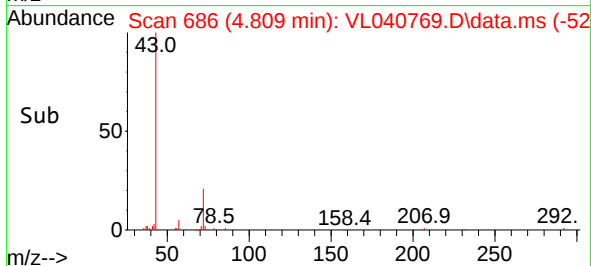
Instrument :
MSVOA_L
ClientSampleId :
IA3



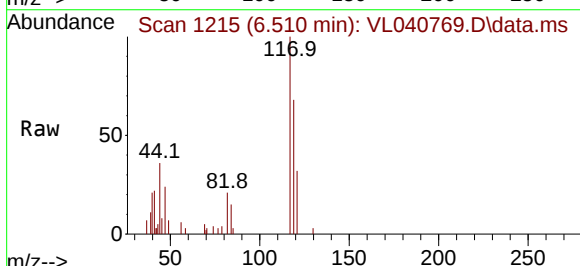
Tgt Ion: 43 Resp: 4809
Ion Ratio Lower Upper
43 100
72 26.1 16.8 25.2

Manual Integrations
APPROVED

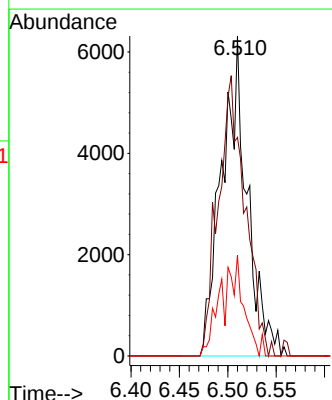
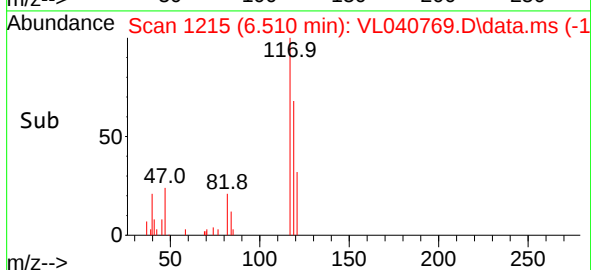
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

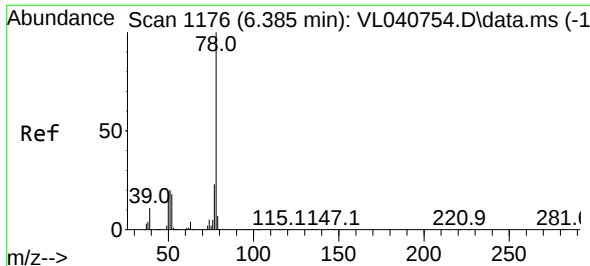


#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. 0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53



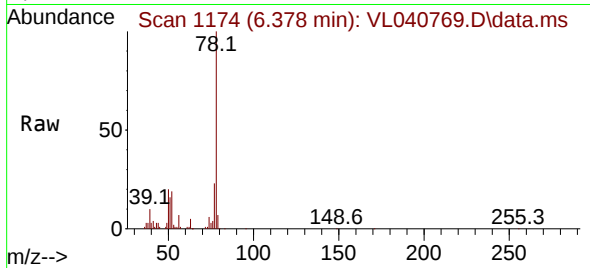
Tgt Ion:117 Resp: 11511
Ion Ratio Lower Upper
117 100
119 68.3 79.4 119.0#
121 31.5 25.0 37.4





#36
Benzene
Concen: 0.558 ppbv
RT: 6.378 min Scan# 1176
Delta R.T. -0.006 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

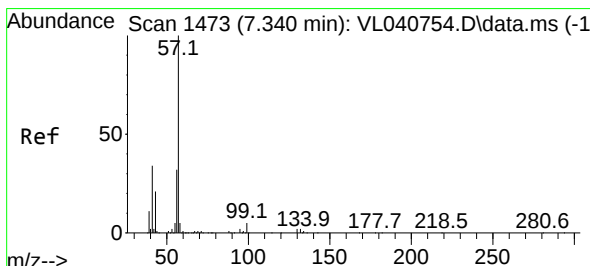
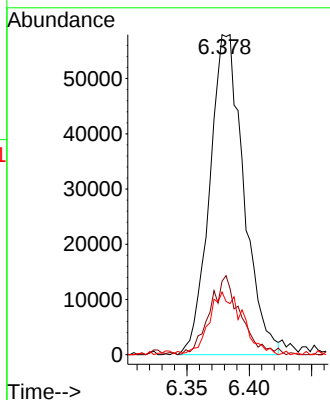
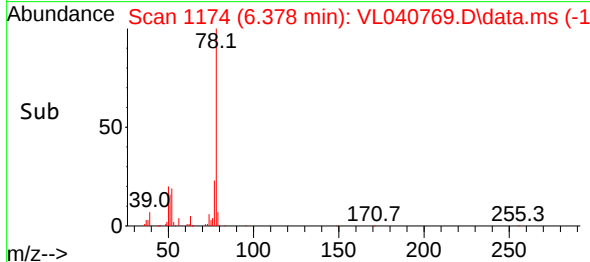
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 78 Resp: 11050
Ion Ratio Lower Upper
78 100
77 22.9 18.4 27.6
50 19.5 15.0 22.4

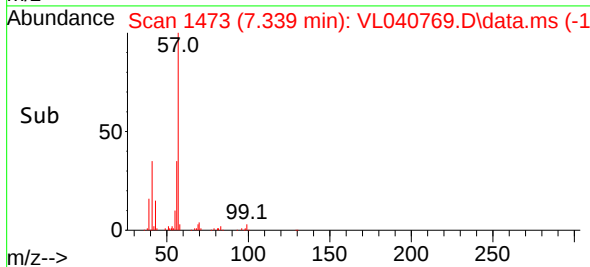
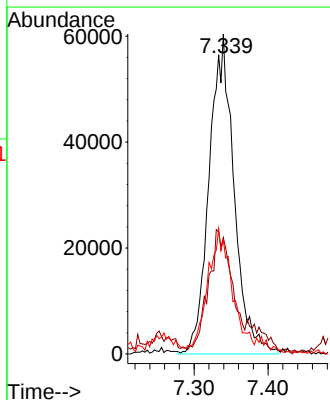
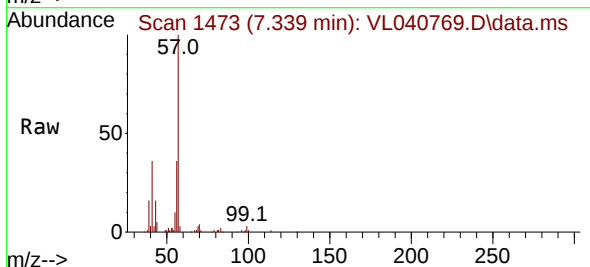
Manual Integrations
APPROVED

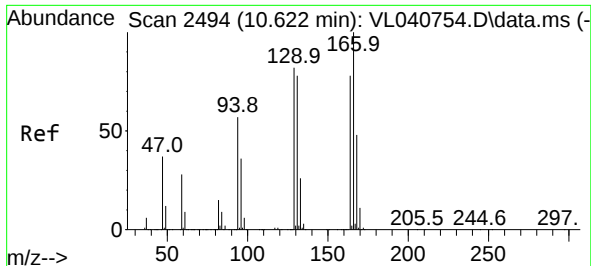
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#44
2,2,4-Trimethylpentane
Concen: 0.423 ppbv m
RT: 7.339 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

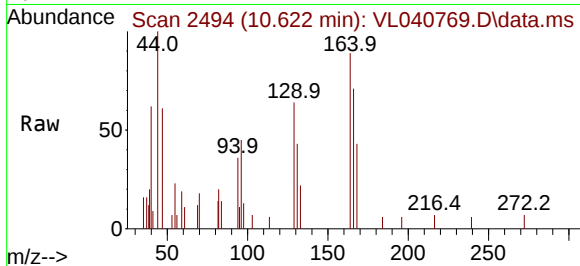
Tgt Ion: 57 Resp: 141145
Ion Ratio Lower Upper
57 100
41 45.6 27.4 41.0#
56 42.2 25.0 37.6#





#52
Tetrachloroethene
Concen: 0.054 ppbv m
RT: 10.622 min Scan# 2494
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

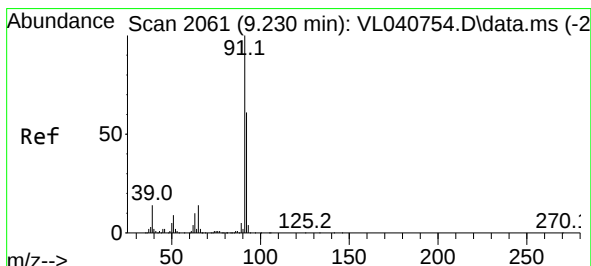
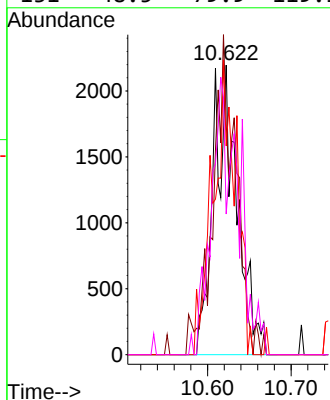
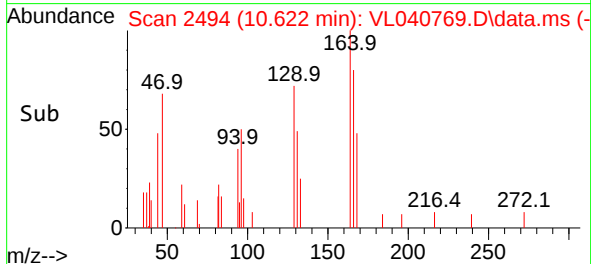
Instrument : MSVOA_L
ClientSampleId : 1A3



Tgt Ion:164 Resp: 432
Ion Ratio Lower Upper
164 100
166 79.6 102.4 153.6
129 72.1 84.2 126.4
131 48.5 79.9 119.9

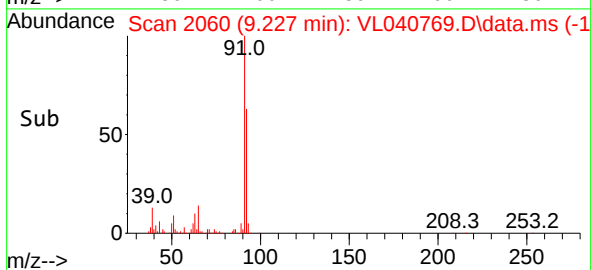
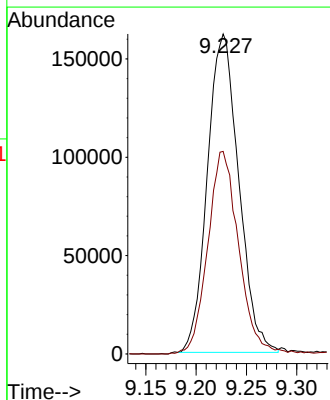
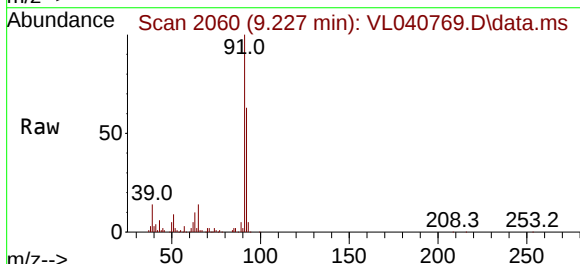
Manual Integrations
APPROVED

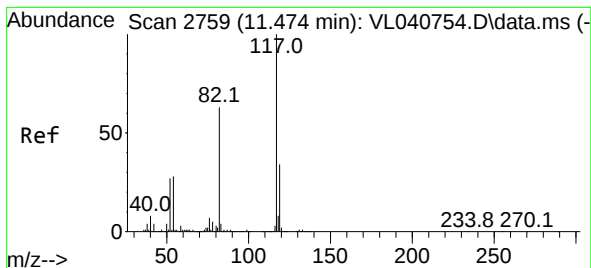
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#53
Toluene
Concen: 1.494 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

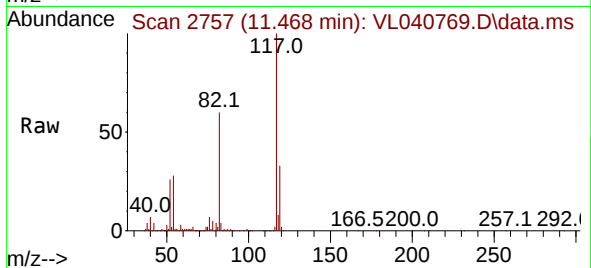
Tgt Ion: 91 Resp: 350811
Ion Ratio Lower Upper
91 100
92 63.2 50.2 75.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

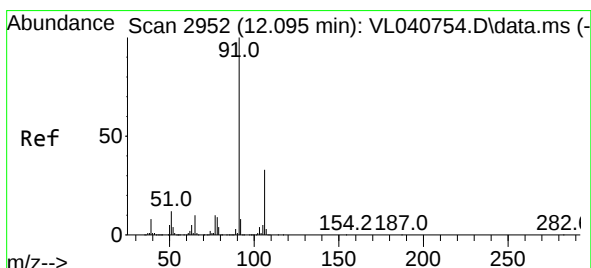
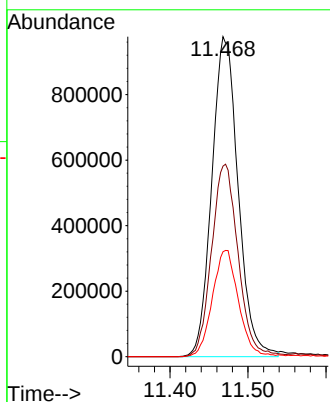
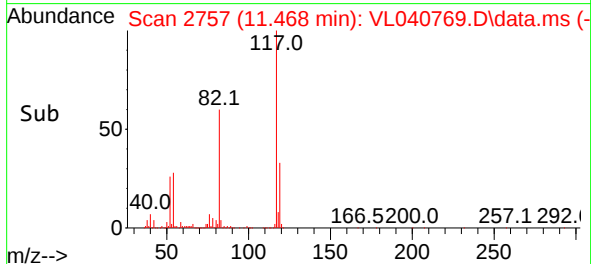
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:117 Resp: 2296764
Ion Ratio Lower Upper
117 100
82 60.6 46.6 70.0
119 33.6 26.0 39.0

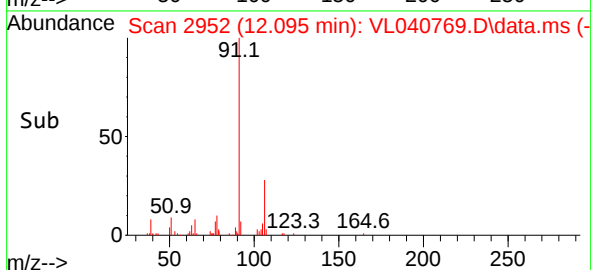
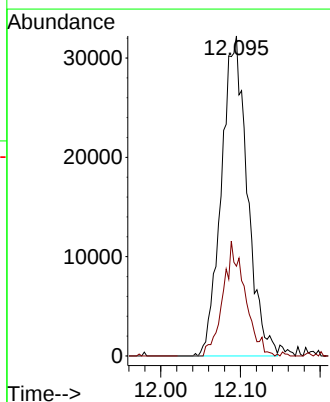
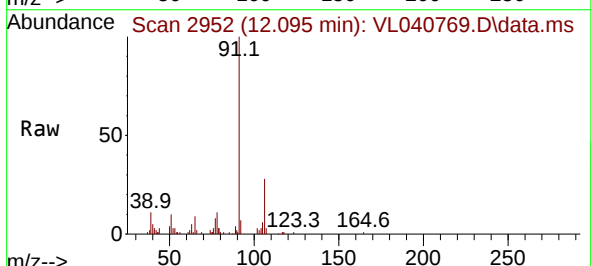
Manual Integrations
APPROVED

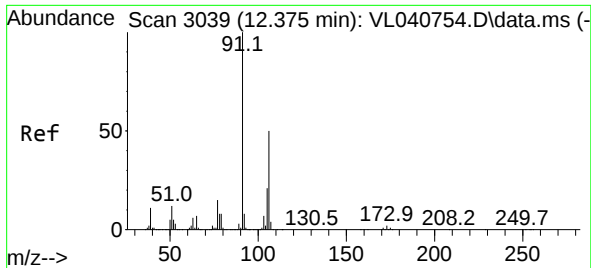
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#58
Ethyl Benzene
Concen: 0.252 ppbv m
RT: 12.095 min Scan# 2952
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

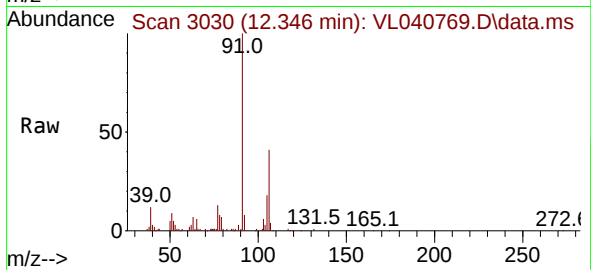
Tgt Ion: 91 Resp: 72774
Ion Ratio Lower Upper
91 100
106 28.0 26.7 40.1





#59
m/p-Xylene
Concen: 0.874 ppbv m
RT: 12.346 min Scan# 3030
Delta R.T. -0.029 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

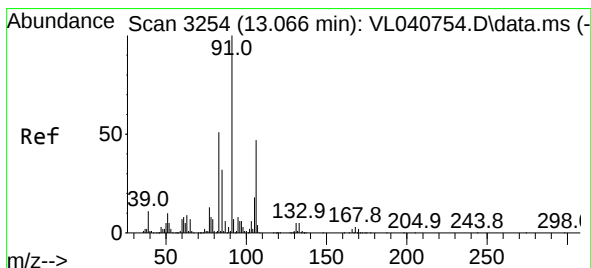
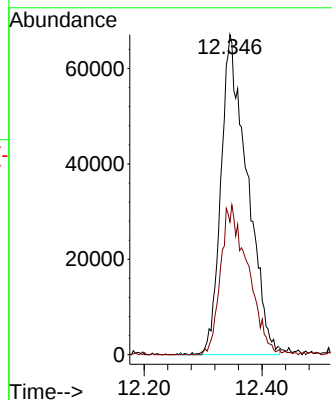
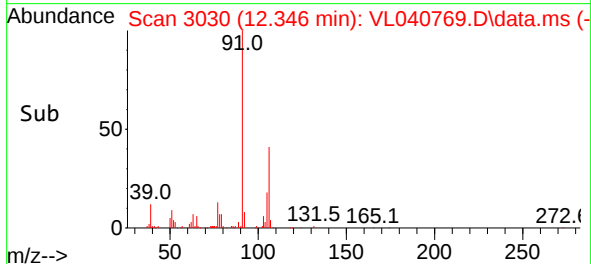
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 91 Resp: 20793
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5

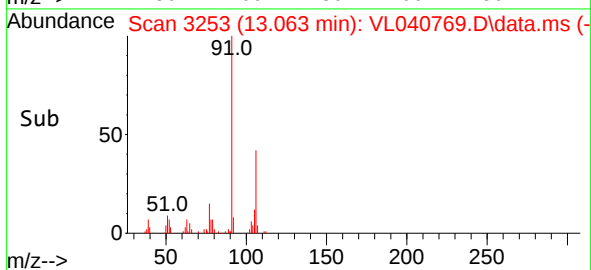
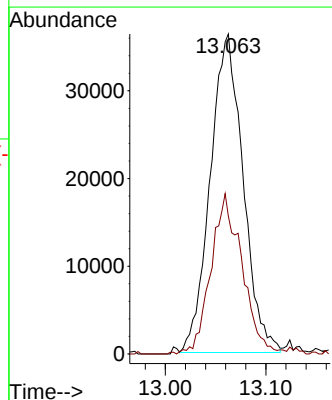
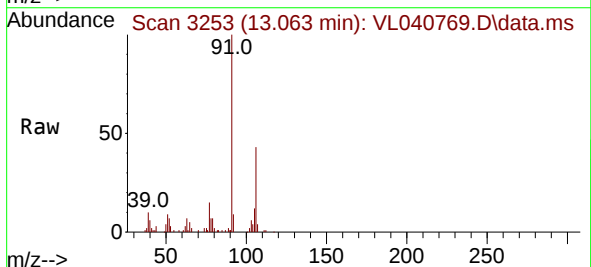
Manual Integrations
APPROVED

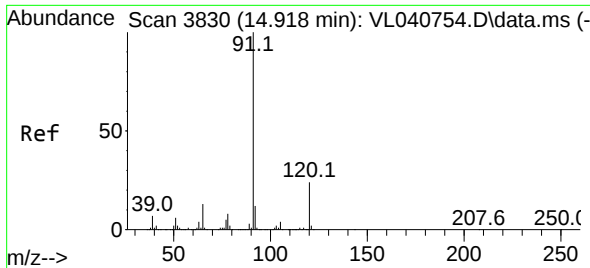
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#60
o-Xylene
Concen: 0.364 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

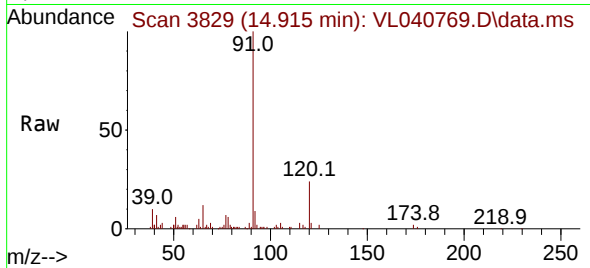
Tgt Ion: 91 Resp: 82458
Ion Ratio Lower Upper
91 100
106 48.4 23.5 70.5





#64
n-propylbenzene
Concen: 0.258 ppbv m
RT: 14.915 min Scan# 3829
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

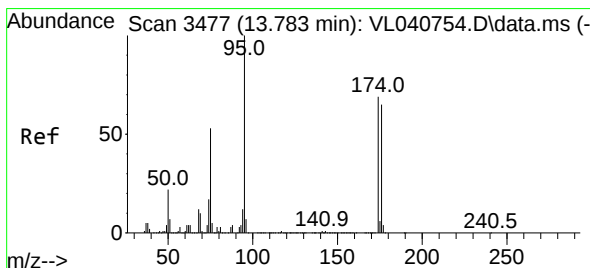
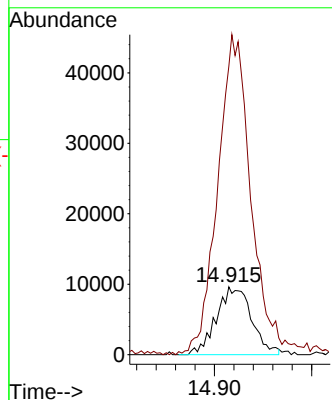
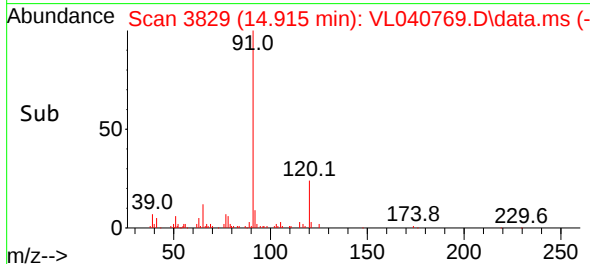
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:120 Resp: 2414
Ion Ratio Lower Upper
120 100
91 0.0 345.9 518.9

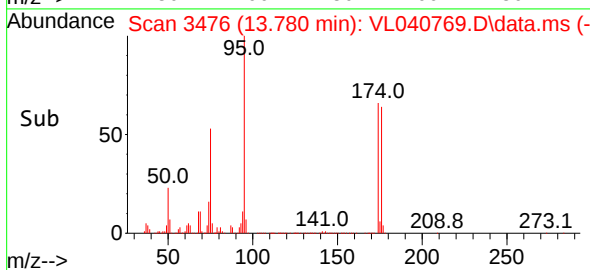
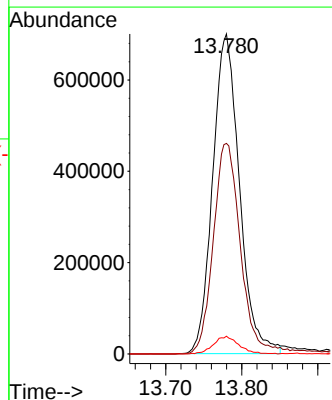
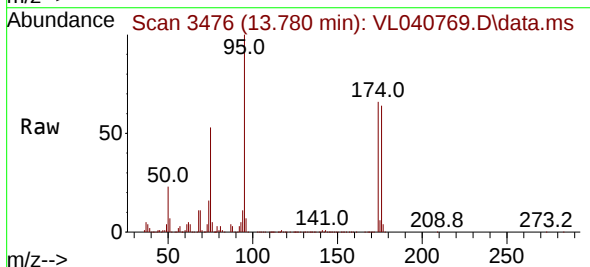
Manual Integrations
APPROVED

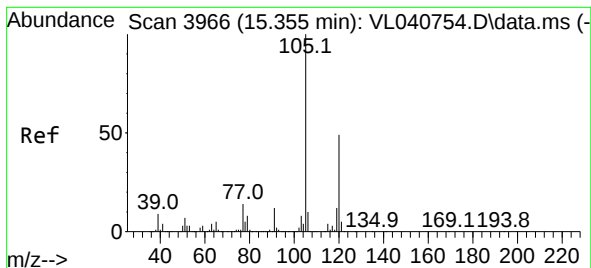
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.120 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 95 Resp: 1710333
Ion Ratio Lower Upper
95 100
174 68.4 54.7 82.1
175 5.3 4.2 6.4





#73

1,3,5-Trimethylbenzene

Concen: 0.478 ppbv

RT: 15.352 min Scan# 3966

Delta R.T. -0.003 min

Lab File: VL040769.D

Acq: 11 Oct 2023 23:53

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion:105 Resp: 11171

Ion Ratio Lower Upper

105 100

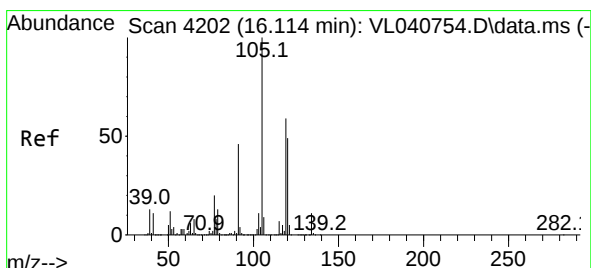
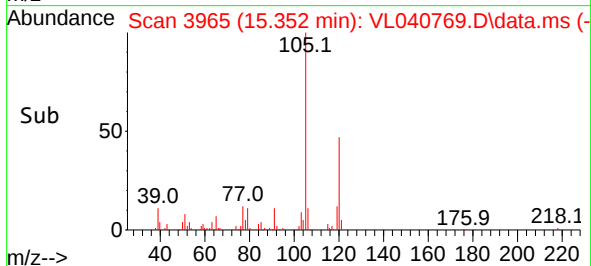
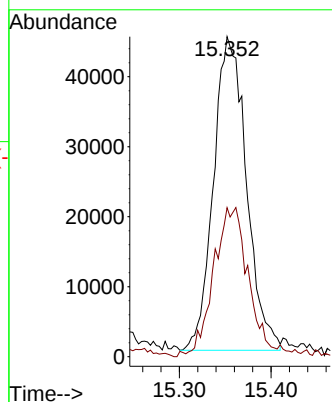
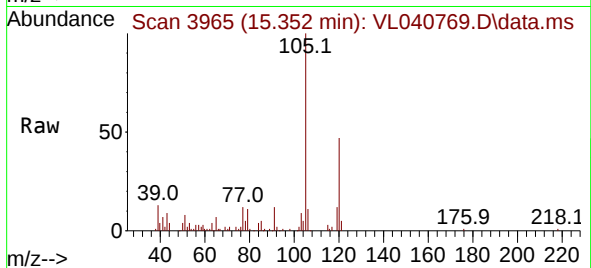
120 45.8 39.4 59.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2023

Supervised By :Mahesh Dadoda 10/16/2023



#74

1,2,4-Trimethylbenzene

Concen: 1.168 ppbv m

RT: 16.108 min Scan# 4200

Delta R.T. -0.007 min

Lab File: VL040769.D

Acq: 11 Oct 2023 23:53

Tgt Ion:105 Resp: 298308

Ion Ratio Lower Upper

105 100

120 45.3 39.4 59.2

91 11.2 38.6 58.0#

77 15.2 16.6 25.0#

