

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
 Data File : VL041141.D
 Acq On : 5 Apr 2024 1:36
 Operator : SY/MD
 Sample : P1986-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2024
 Supervised By :Mahesh Dadoda 04/05/2024

Quant Time: Apr 05 05:16:01 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

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

QLast Update : Fri Apr 05 04:49:46 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1317714	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	3568468	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.490	117	3317902	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	2640322	9.896	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.742	85	24501	0.109	ppbv	92
10) Heptane	7.600	43	15237m	0.099	ppbv	
13) Ethanol	3.266	45	51534m	3.356	ppbv	
15) Acetone	3.484	43	506203	3.548	ppbv #	74
20) Methylene Chloride	3.944	84	27238m	0.463	ppbv	
26) Hexane	5.230	57	72799	0.605	ppbv #	35
34) 2-Butanone	4.806	43	1003277	6.644	ppbv	99
36) Benzene	6.388	78	16393m	0.063	ppbv	
51) 2-Hexanone	9.581	43	421487	2.288	ppbv #	99
52) Tetrachloroethene	10.642	164	13628m	0.163	ppbv	
53) Toluene	9.246	91	104220	0.378	ppbv	98
58) Ethyl Benzene	12.124	91	51565m	0.142	ppbv	
59) m/p-Xylene	12.371	91	151436m	0.462	ppbv	
60) o-Xylene	13.082	91	89196m	0.287	ppbv	
73) 1,3,5-Trimethylbenzene	15.381	105	45383m	0.148	ppbv	
74) 1,2,4-Trimethylbenzene	16.130	105	175922	0.502	ppbv #	69

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

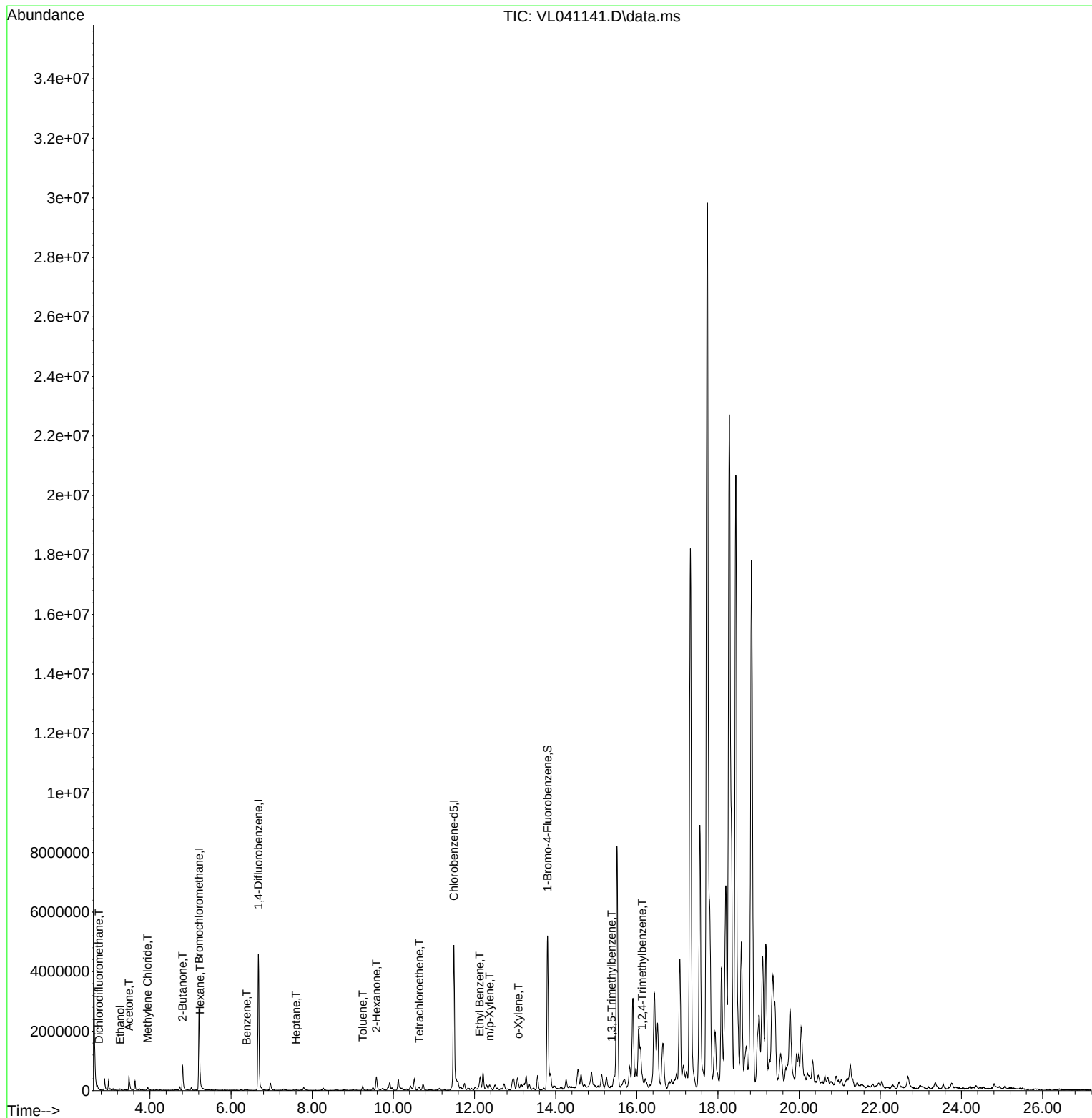
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
Data File : VL041141.D
Acq On : 5 Apr 2024 1:36
Operator : SY/MD
Sample : P1986-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

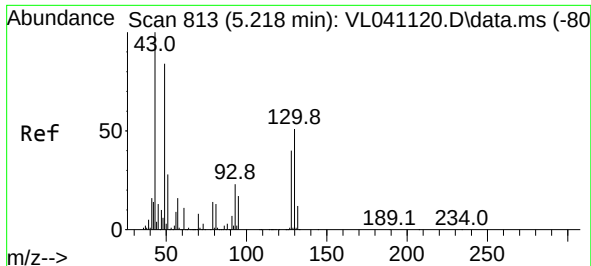
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 05 05:16:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 05 04:49:46 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

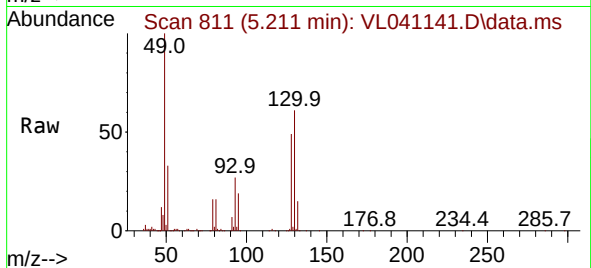
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

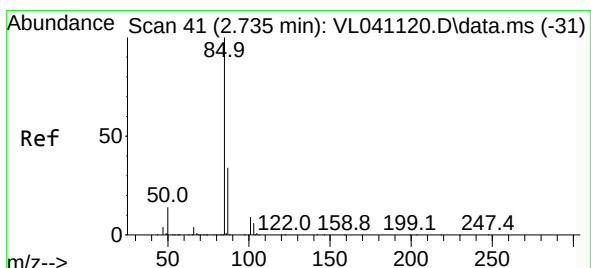
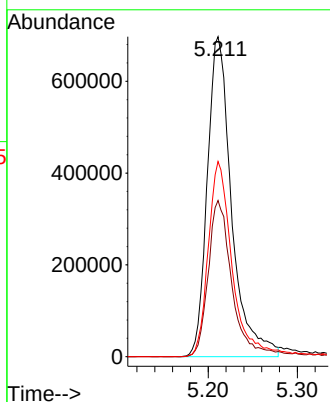
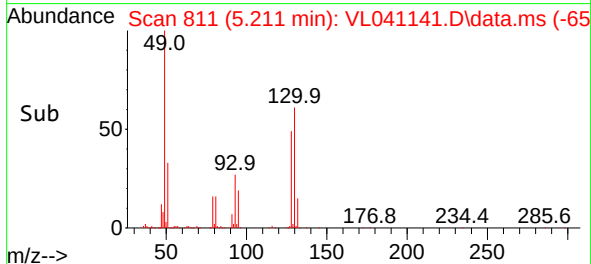
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 1317714
Ion Ratio Lower Upper
49 100
128 49.3 23.6 71.0
130 62.3 30.1 90.5

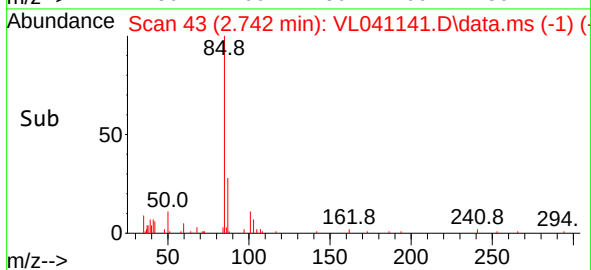
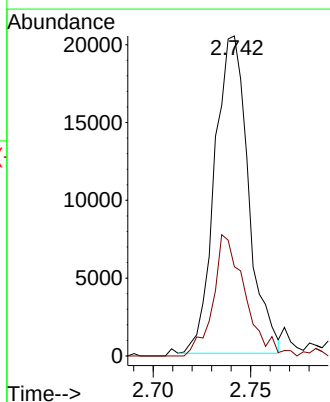
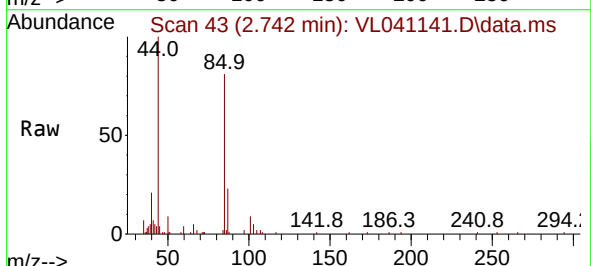
Manual Integrations
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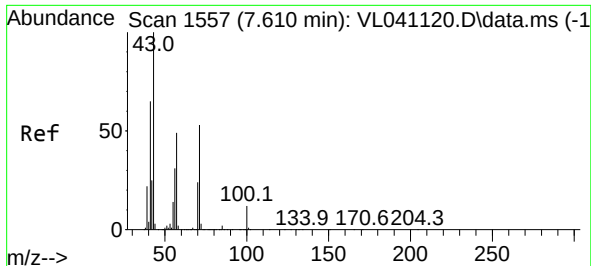
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#2
Dichlorodifluoromethane
Concen: 0.109 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

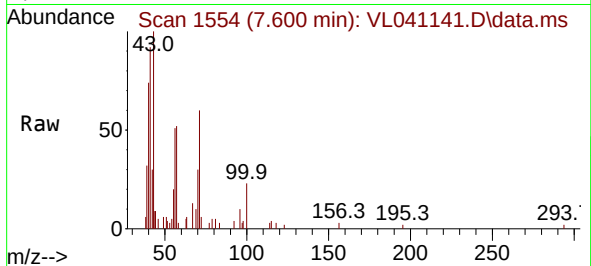
Tgt Ion: 85 Resp: 24501
Ion Ratio Lower Upper
85 100
87 29.4 27.0 40.6





#10
Heptane
Concen: 0.099 ppbv m
RT: 7.600 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

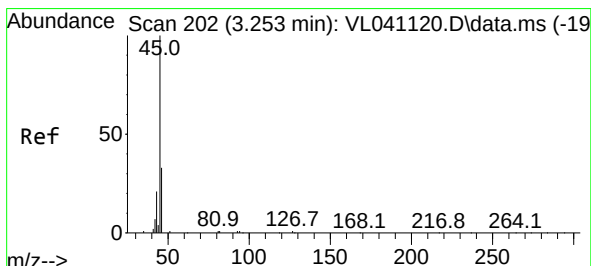
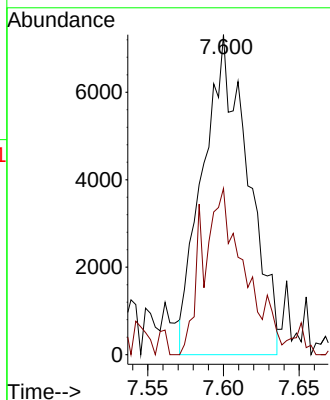
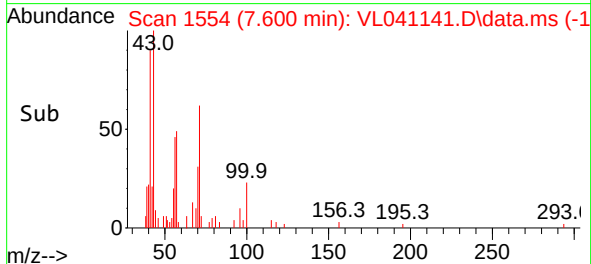
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 1523
Ion Ratio Lower Upper
43 100
57 50.8 39.9 59.9

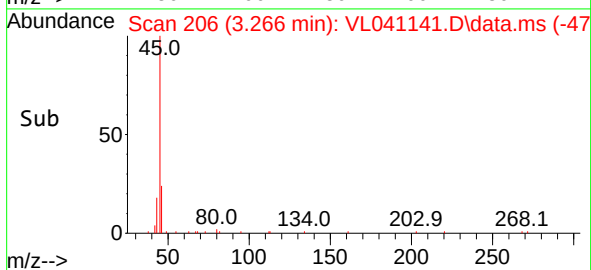
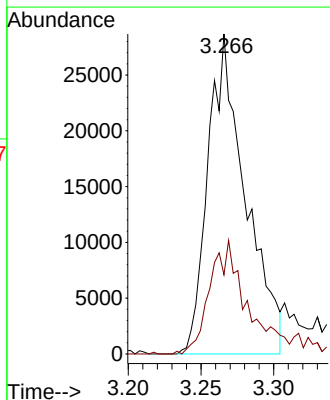
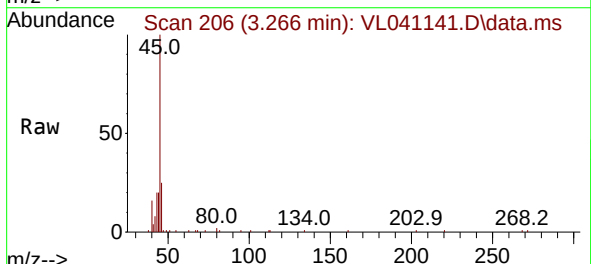
Manual Integrations
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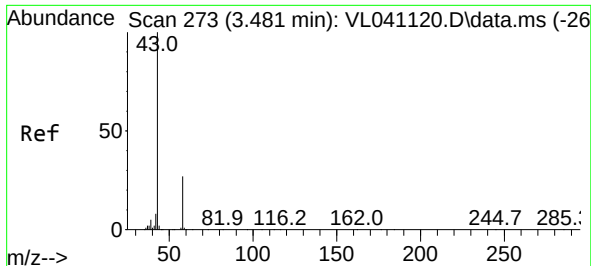
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#13
Ethanol
Concen: 3.356 ppbv m
RT: 3.266 min Scan# 206
Delta R.T. 0.013 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 45 Resp: 51534
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8#





#15

Acetone

Concen: 3.548 ppbv

RT: 3.484 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 50620

Ion Ratio Lower Upper

43 100

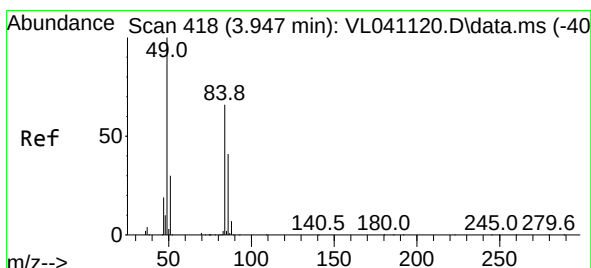
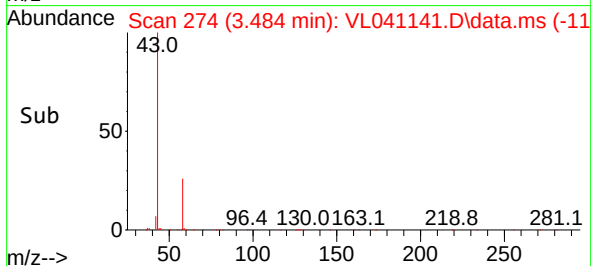
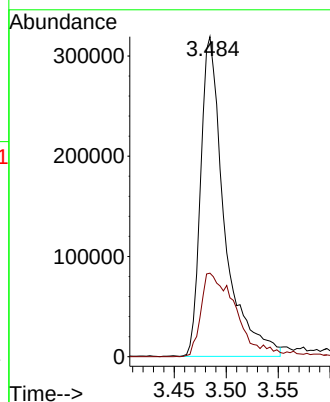
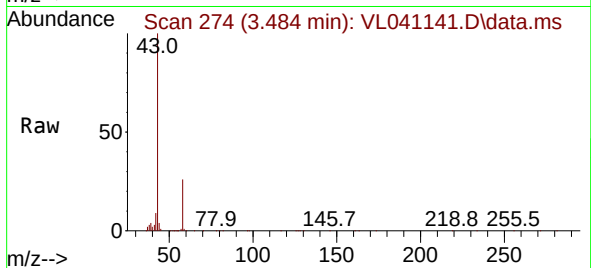
58 39.9 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2024

Supervised By :Mahesh Dadoda 04/05/2024



#20

Methylene Chloride

Concen: 0.463 ppbv m

RT: 3.944 min Scan# 417

Delta R.T. -0.003 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Tgt Ion: 84 Resp: 27238

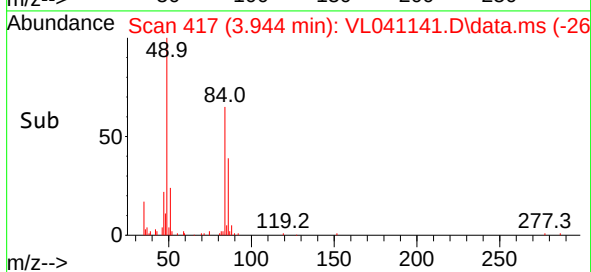
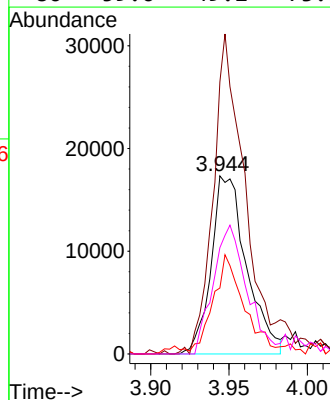
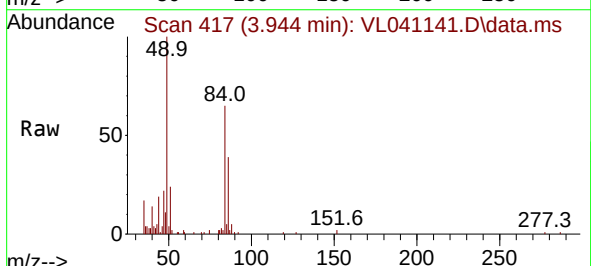
Ion Ratio Lower Upper

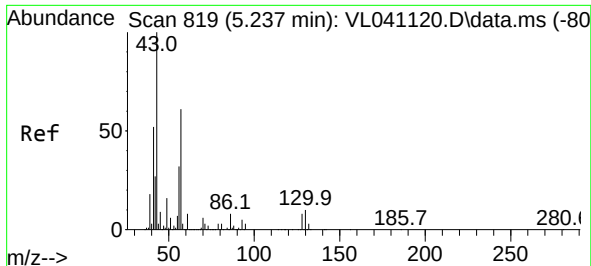
84 100

49 152.7 120.7 181.1

51 37.0 36.6 54.8

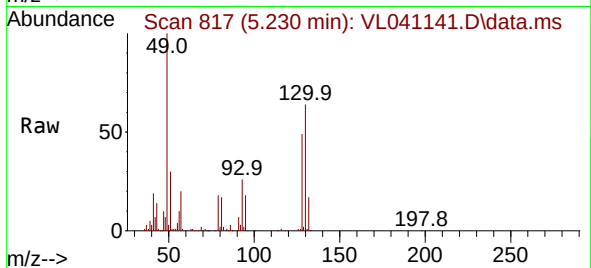
86 59.6 49.2 73.8





#26
Hexane
Concen: 0.605 ppbv
RT: 5.230 min Scan# 819
Delta R.T. -0.007 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

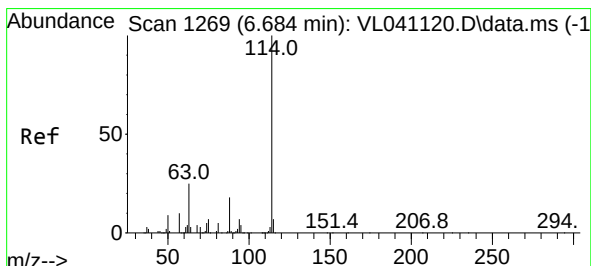
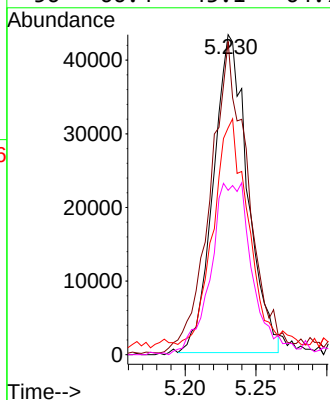
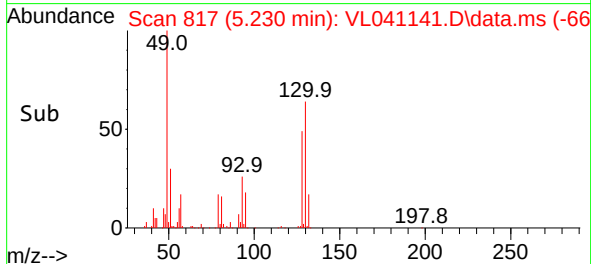
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 72799
Ion Ratio Lower Upper
57 100
41 110.4 73.8 110.8
43 76.1 186.2 279.2
56 66.4 43.1 64.7#

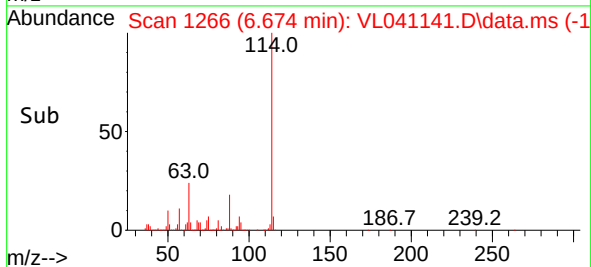
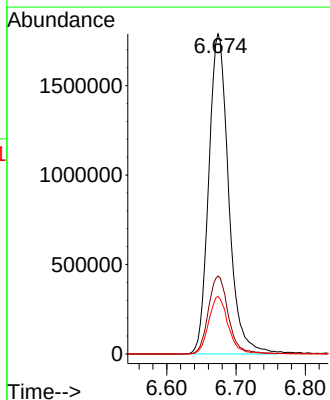
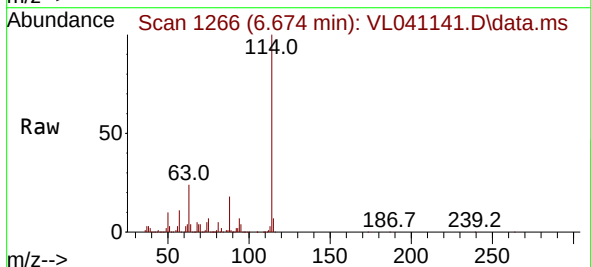
Manual Integrations
APPROVED

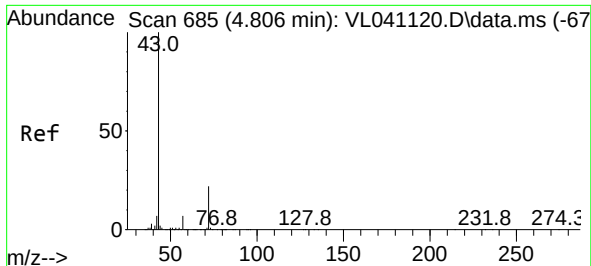
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.010 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

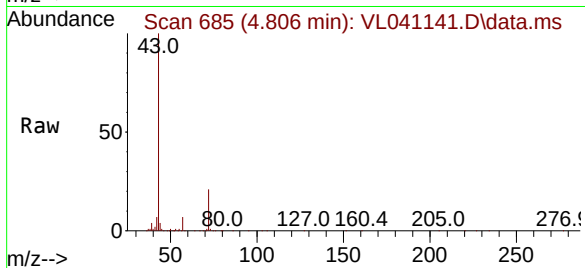
Tgt Ion:114 Resp: 3568468
Ion Ratio Lower Upper
114 100
63 24.6 20.9 31.3
88 17.8 14.5 21.7





#34
2-Butanone
Concen: 6.644 ppbv
RT: 4.806 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

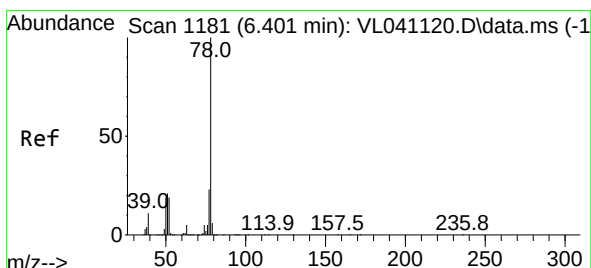
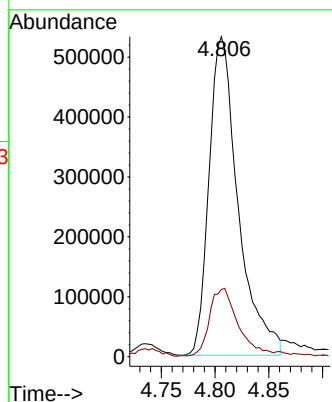
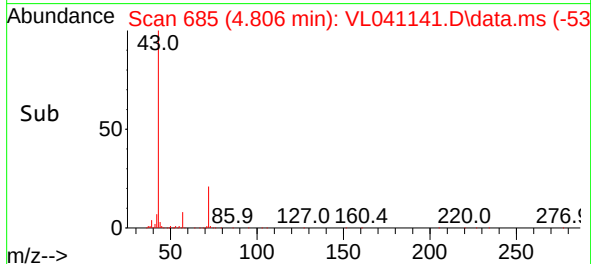
Instrument :
MSVOA_L
ClientSampleId :
SV1



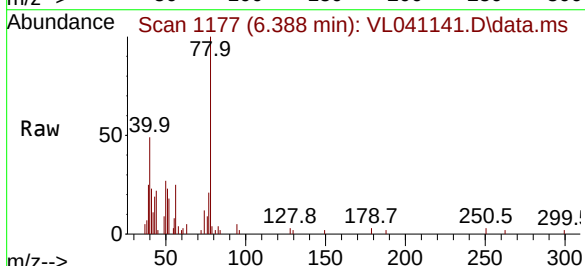
Tgt Ion: 43 Resp: 100327
Ion Ratio Lower Upper
43 100
72 22.3 17.6 26.4

Manual Integrations
APPROVED

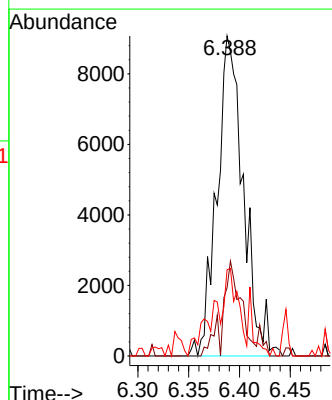
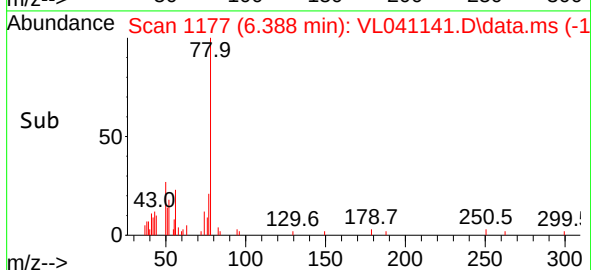
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

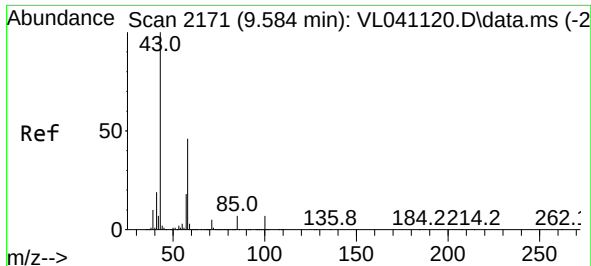


#36
Benzene
Concen: 0.063 ppbv m
RT: 6.388 min Scan# 1177
Delta R.T. -0.013 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36



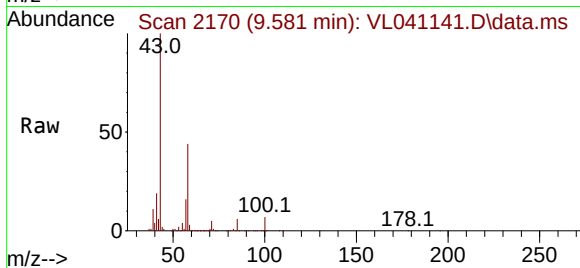
Tgt Ion: 78 Resp: 16393
Ion Ratio Lower Upper
78 100
77 21.4 18.2 27.4
50 27.0 15.4 23.2#





#51
2-Hexanone
Concen: 2.288 ppbv
RT: 9.581 min Scan# 2171
Delta R.T. -0.003 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

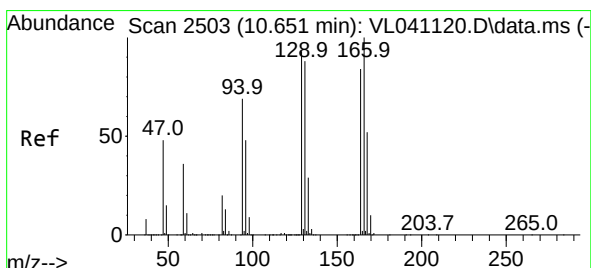
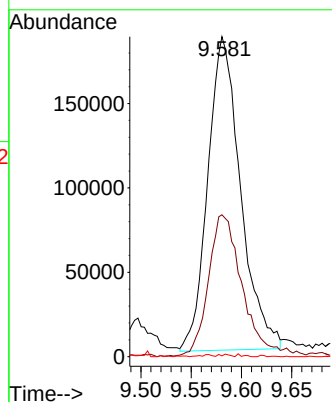
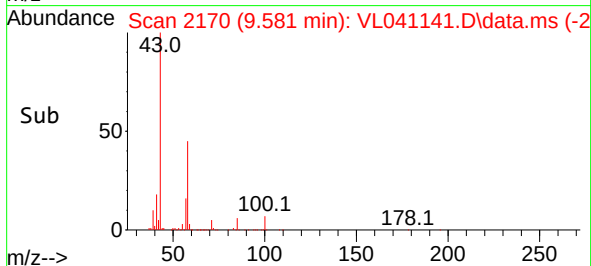
Instrument : MSVOA_L
ClientSampleId : SV1



Tgt Ion: 43 Resp: 42148
Ion Ratio Lower Upper
43 100
58 47.0 37.3 55.9
98 0.7 0.3 0.5

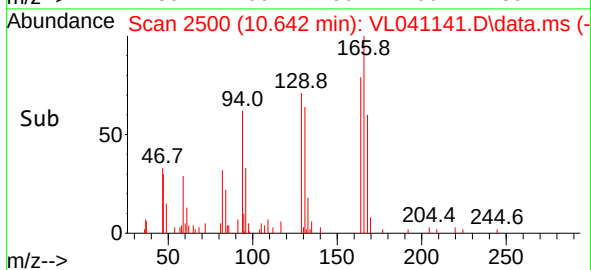
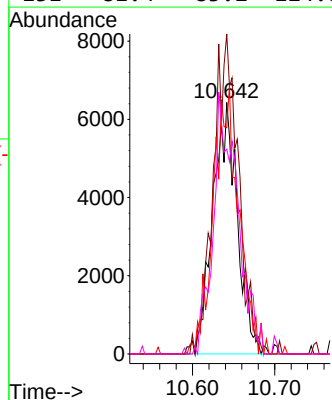
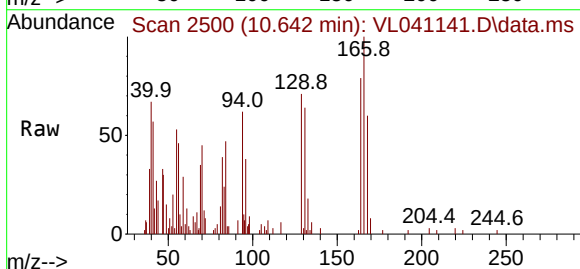
Manual Integrations
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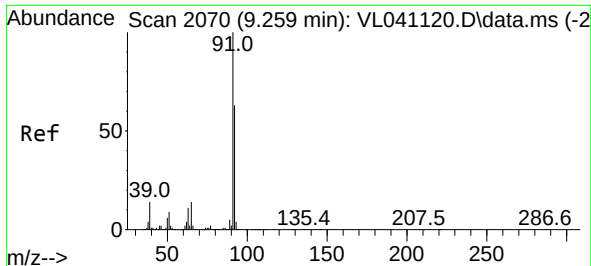
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#52
Tetrachloroethene
Concen: 0.163 ppbv m
RT: 10.642 min Scan# 2500
Delta R.T. -0.010 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion:164 Resp: 13628
Ion Ratio Lower Upper
164 100
166 127.2 95.0 142.6
129 90.0 88.7 133.1
131 81.4 83.2 124.8





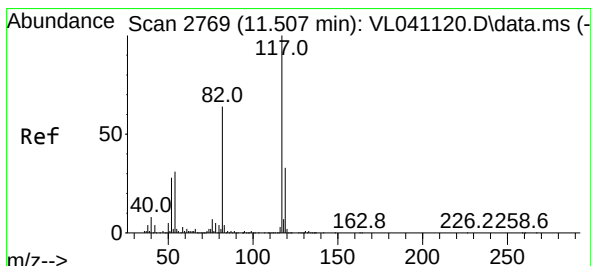
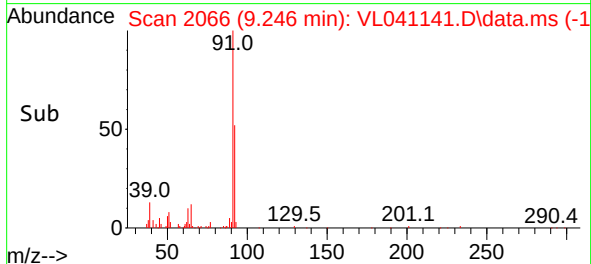
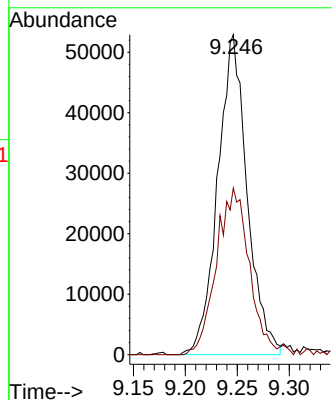
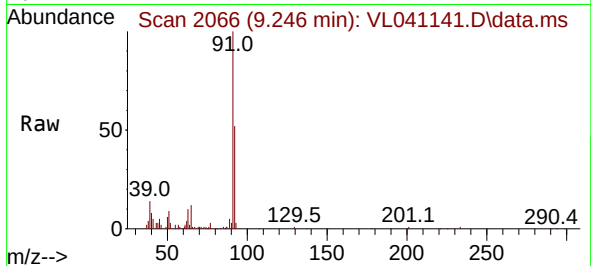
#53
Toluene
Concen: 0.378 ppbv
RT: 9.246 min Scan# 2070
Delta R.T. -0.013 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 104220
Ion Ratio Lower Upper
91 100
92 59.6 49.0 73.4

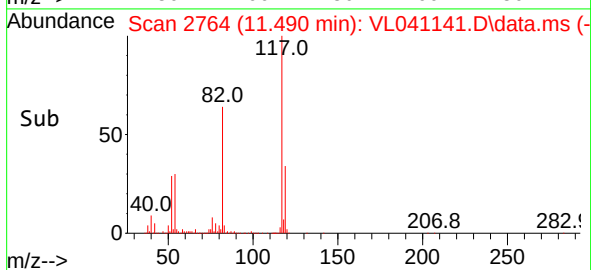
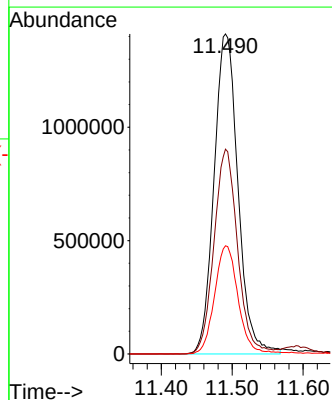
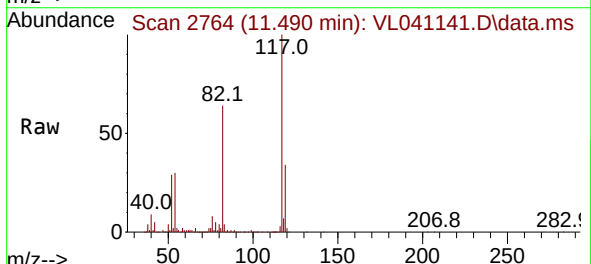
Manual Integrations
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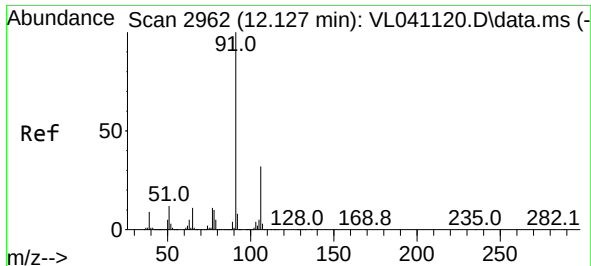
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.490 min Scan# 2764
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion:117 Resp: 3317902
Ion Ratio Lower Upper
117 100
82 63.2 51.0 76.6
119 33.8 25.2 37.8





#58

Ethyl Benzene

Concen: 0.142 ppbv m

RT: 12.124 min Scan# 2961

Delta R.T. -0.003 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 5156

Ion Ratio Lower Upper

91 100

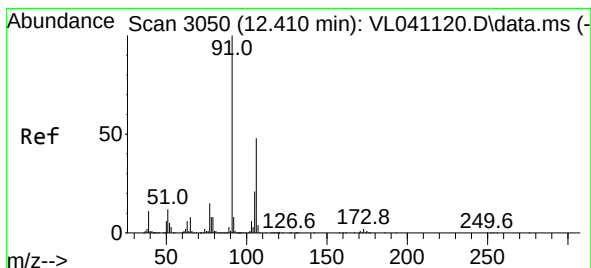
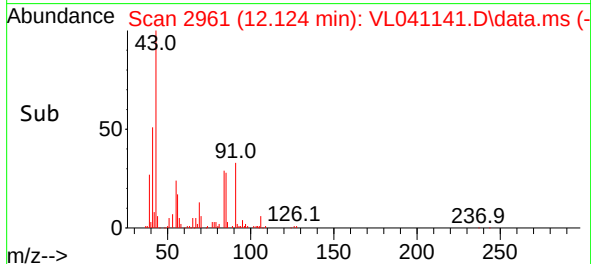
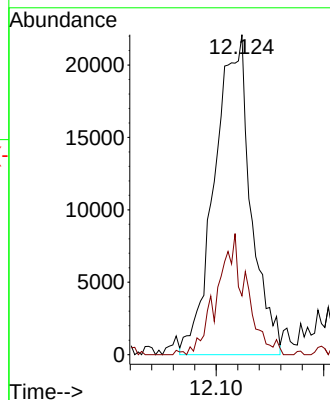
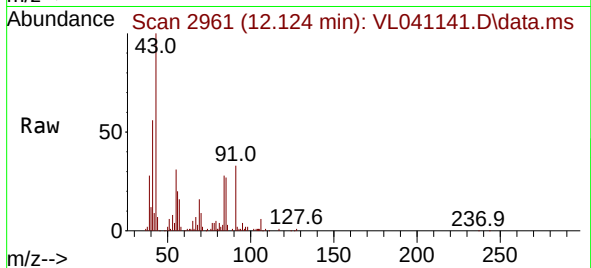
106 18.4 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2024

Supervised By :Mahesh Dadoda 04/05/2024



#59

m/p-Xylene

Concen: 0.462 ppbv m

RT: 12.371 min Scan# 3038

Delta R.T. -0.039 min

Lab File: VL041141.D

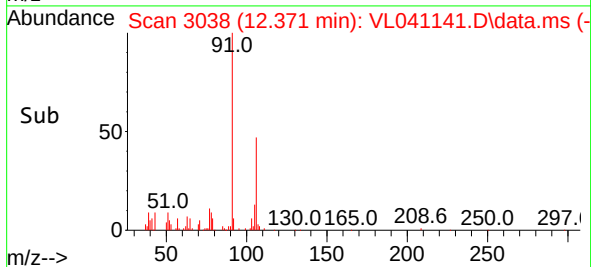
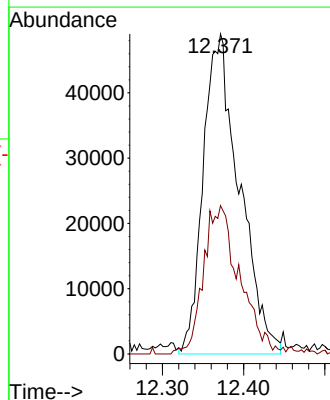
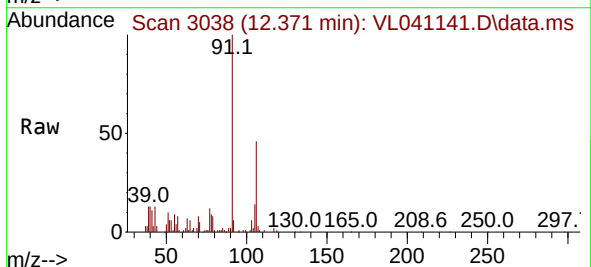
Acq: 5 Apr 2024 1:36

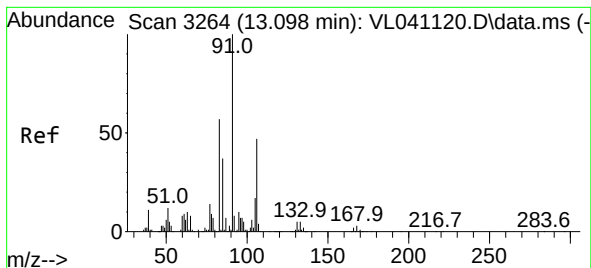
Tgt Ion: 91 Resp: 151436

Ion Ratio Lower Upper

91 100

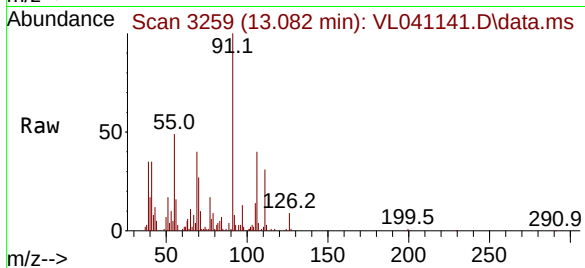
106 0.0 35.4 53.2





#60
o-Xylene
Concen: 0.287 ppbv m
RT: 13.082 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

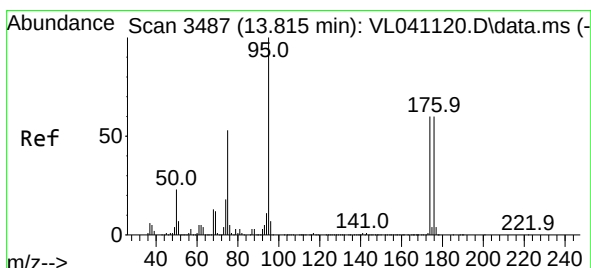
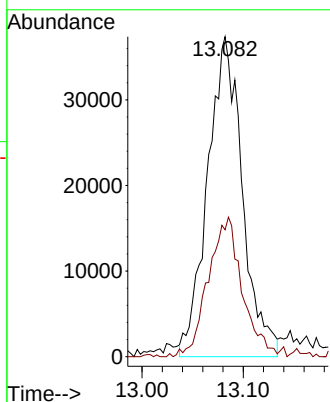
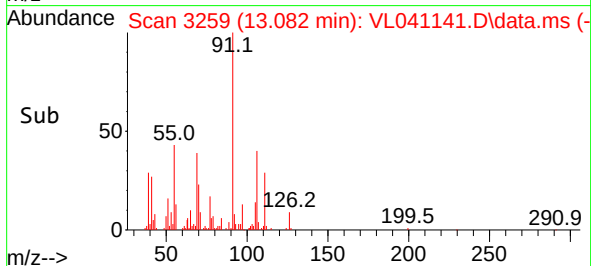
Instrument :
MSVOA_L
ClientSampleId :
SV1



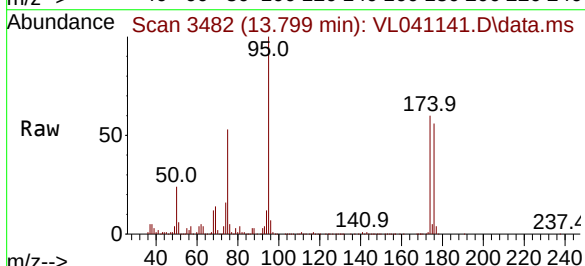
Tgt Ion: 91 Resp: 89190
Ion Ratio Lower Upper
91 100
106 43.7 22.9 68.5

Manual Integrations
APPROVED

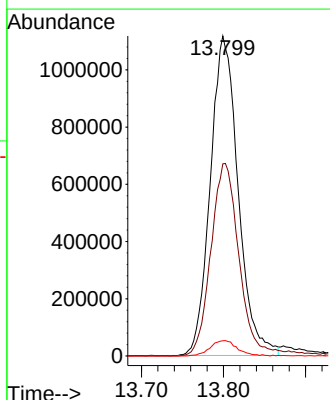
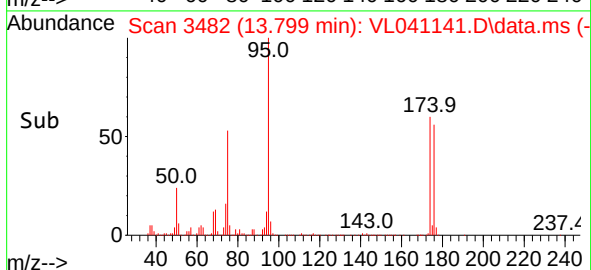
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

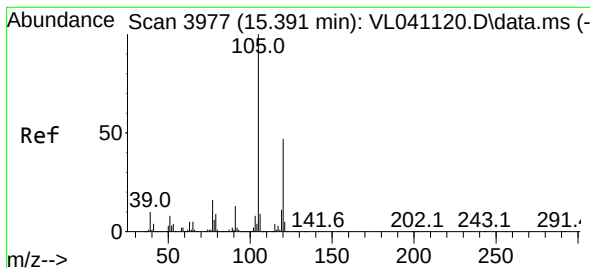


#68
1-Bromo-4-Fluorobenzene
Concen: 9.896 ppbv
RT: 13.799 min Scan# 3482
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36



Tgt Ion: 95 Resp: 2640322
Ion Ratio Lower Upper
95 100
174 62.7 49.3 73.9
175 4.8 3.6 5.4





#73

1,3,5-Trimethylbenzene

Concen: 0.148 ppbv m

RT: 15.381 min Scan# 3974

Delta R.T. -0.010 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 4538

Ion Ratio Lower Upper

105 100

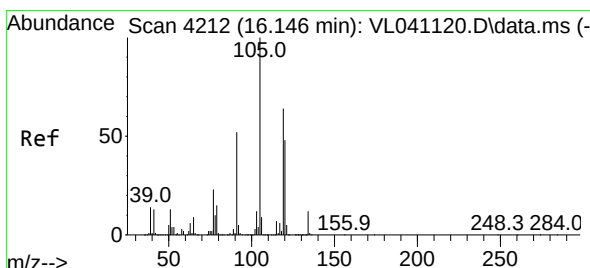
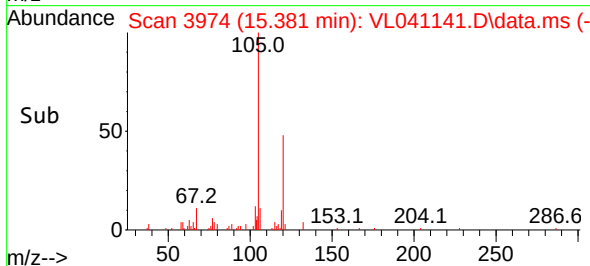
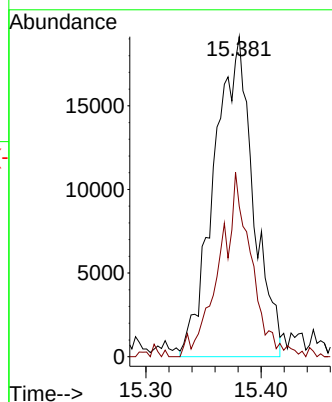
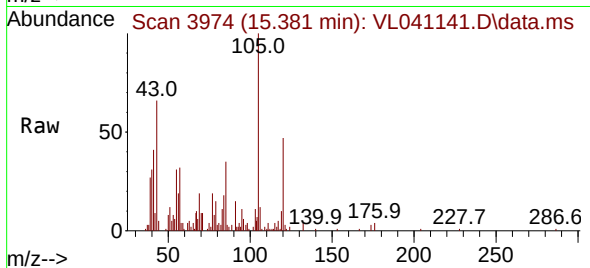
120 47.0 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2024

Supervised By :Mahesh Dadoda 04/05/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.502 ppbv

RT: 16.130 min Scan# 4207

Delta R.T. -0.016 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Tgt Ion:105 Resp: 175922

Ion Ratio Lower Upper

105 100

120 46.3 38.9 58.3

91 9.4 43.0 64.6#

77 15.7 18.6 28.0#

