

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061124\
 Data File : VL041344.D
 Acq On : 11 Jun 2024 12:55
 Operator : SY/MD
 Sample : P2837-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/12/2024
 Supervised By : Mahesh Dadoda 06/12/2024

Quant Time: Jun 12 01:22:37 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M

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

QLast Update : Wed Jun 12 01:18:29 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1042308	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2719316	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2530619	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1928819	9.872	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.761	85	43216	0.260	ppbv	96
4) Chloromethane	2.848	50	36880	0.595	ppbv	98
9) Propene	2.738	41	33356	0.569	ppbv	84
10) Heptane	7.593	43	62923m	0.452	ppbv	
11) Trichlorofluoromethane	3.587	101	34917	0.228	ppbv	99
13) Ethanol	3.262	45	1966735	128.850	ppbv	97
15) Acetone	3.494	43	1020378	8.574	ppbv	98
19) Isopropyl Alcohol	3.603	45	242255	3.240	ppbv #	95
20) Methylene Chloride	3.957	84	620578	14.347	ppbv	99
26) Hexane	5.230	57	1078412	10.186	ppbv #	42
29) Chloroform	5.291	83	18370	0.113	ppbv	91
30) Cyclohexane	6.619	84	26225	0.306	ppbv #	91
34) 2-Butanone	4.806	43	111444	0.855	ppbv	98
35) Carbon Tetrachloride	6.497	117	11071m	0.072	ppbv	
36) Benzene	6.381	78	52636	0.250	ppbv #	92
38) Trichloroethene	7.304	130	115905m	1.357	ppbv	
44) 2,2,4-Trimethylpentane	7.339	57	104241	0.288	ppbv #	74
52) Tetrachloroethene	10.619	164	146984	1.912	ppbv	92
53) Toluene	9.230	91	221767	0.915	ppbv	99
58) Ethyl Benzene	12.088	91	87416m	0.269	ppbv	
59) m/p-Xylene	12.346	91	233150	0.839	ppbv	96
60) o-Xylene	13.063	91	90557	0.342	ppbv	99
64) n-propylbenzene	14.918	120	12822m	0.124	ppbv	
72) 4-Ethyltoluene	15.204	105	72002m	0.233	ppbv	
73) 1,3,5-Trimethylbenzene	15.358	105	51619m	0.193	ppbv	
74) 1,2,4-Trimethylbenzene	16.114	105	191459	0.632	ppbv #	72
79) Naphthalene	21.400	128	36943m	0.141	ppbv	

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

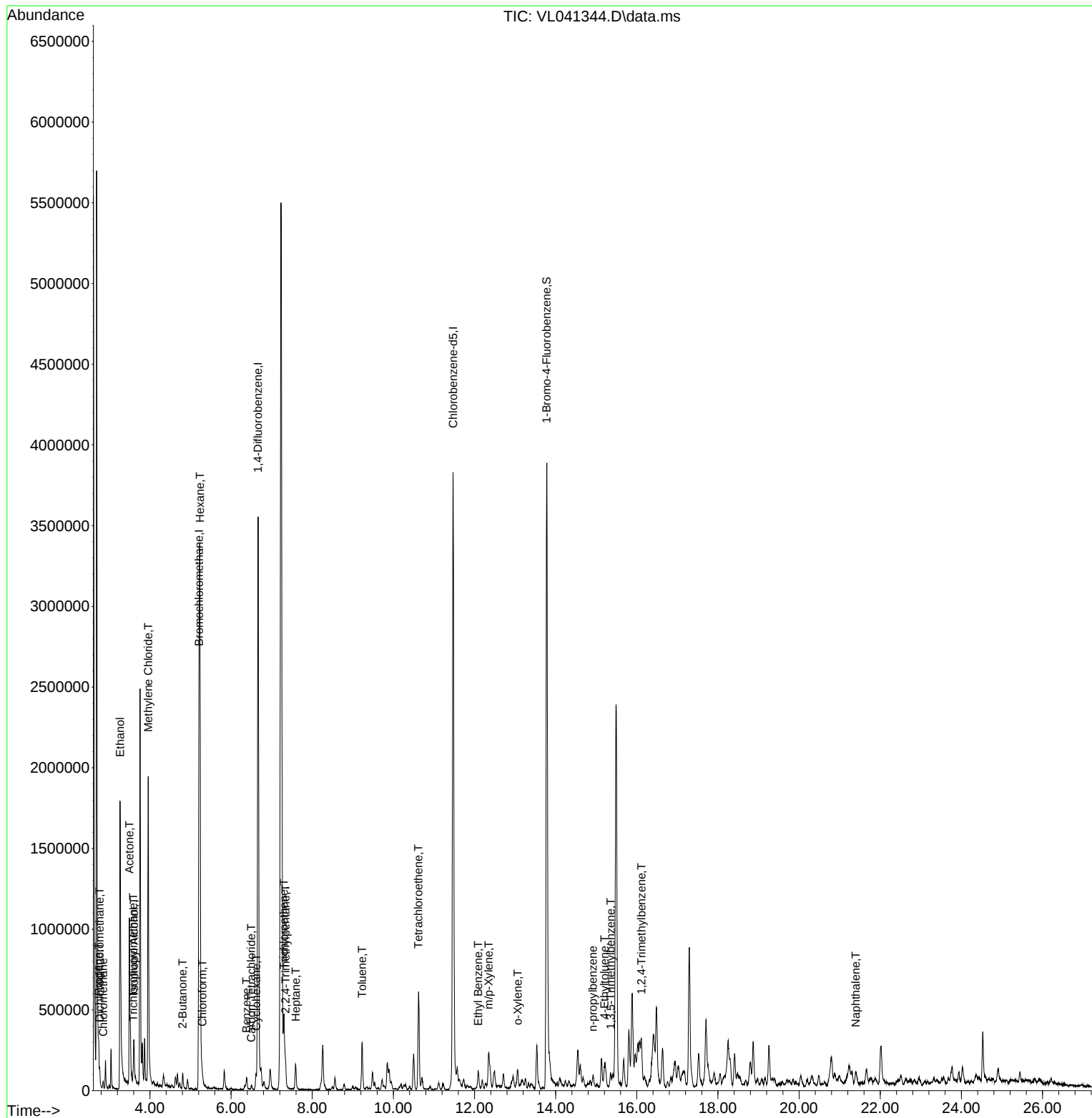
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061124\
Data File : VL041344.D
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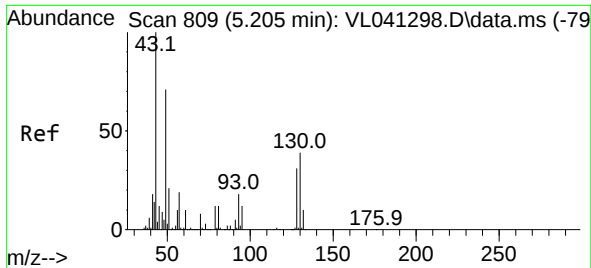
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jun 12 01:22:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jun 12 01:18:29 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 06/12/2024
Supervised By : Mahesh Dadoda 06/12/2024





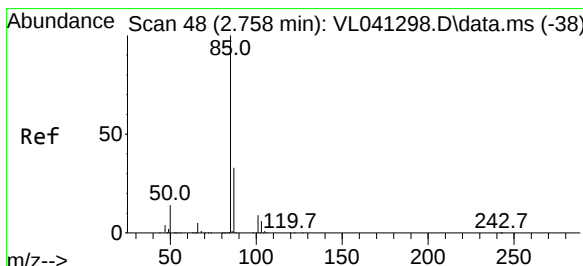
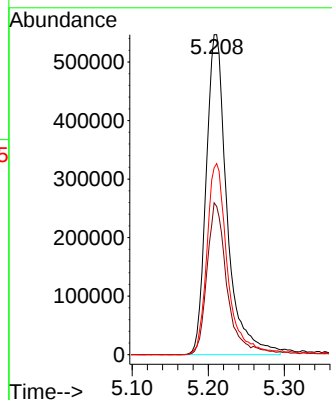
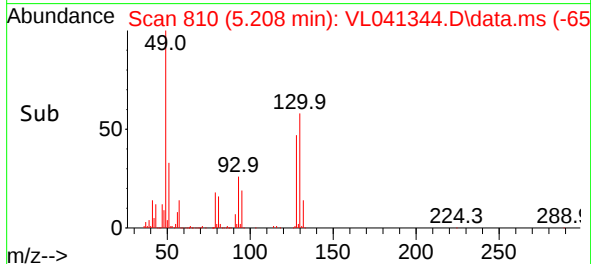
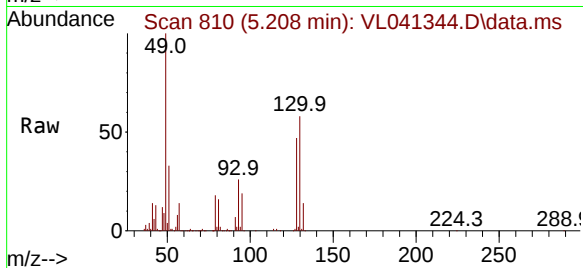
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 1042308
Ion Ratio Lower Upper
49 100
128 46.3 22.8 68.3
130 60.0 28.4 85.3

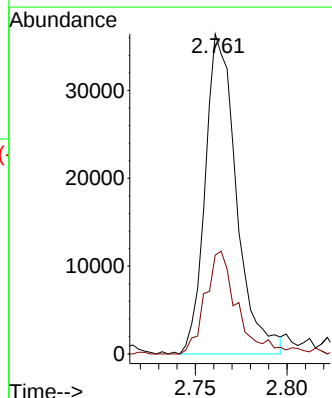
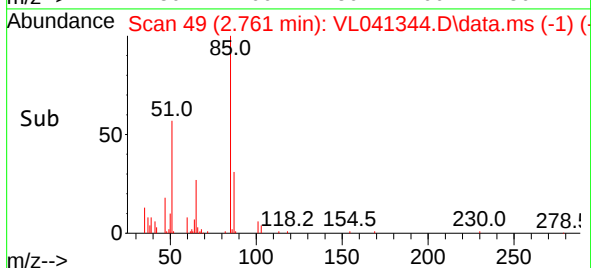
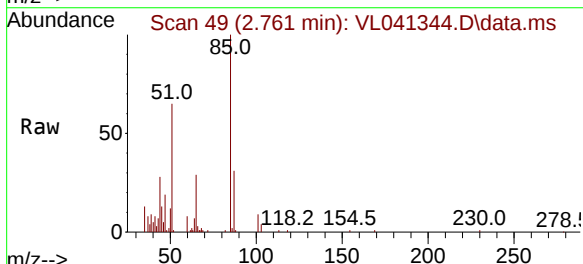
Manual Integrations
APPROVED

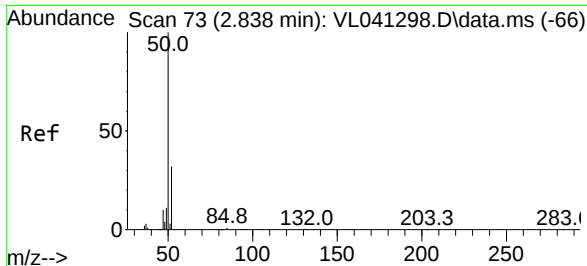
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#2
Dichlorodifluoromethane
Concen: 0.260 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

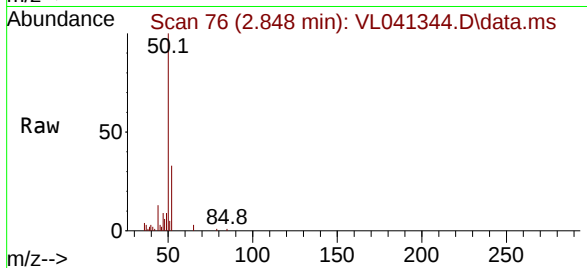
Tgt Ion: 85 Resp: 43216
Ion Ratio Lower Upper
85 100
87 30.9 26.5 39.7





#4
Chloromethane
Concen: 0.595 ppbv
RT: 2.848 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

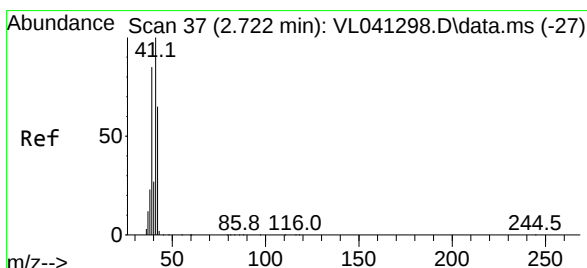
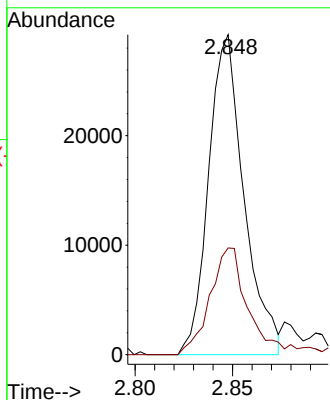
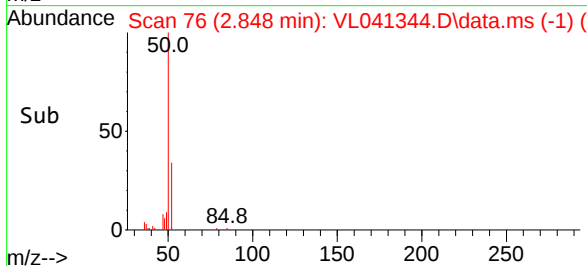
Instrument :
MSVOA_L
ClientSampleId :
IA1



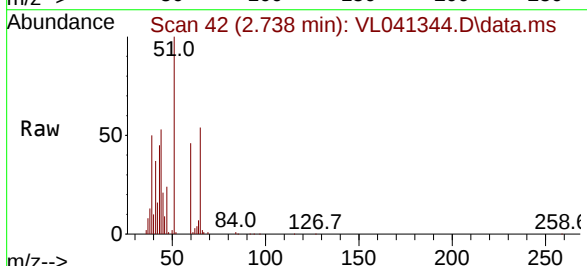
Tgt Ion: 50 Resp: 36880
Ion Ratio Lower Upper
50 100
52 33.3 25.6 38.4

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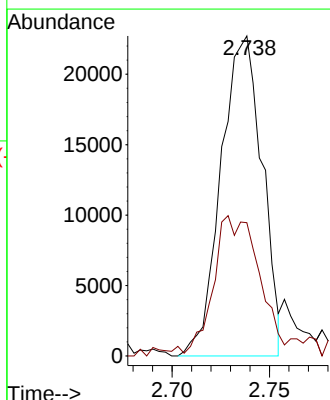
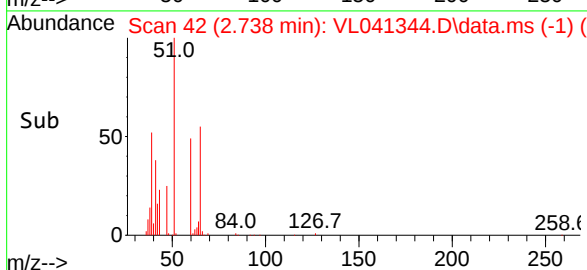
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

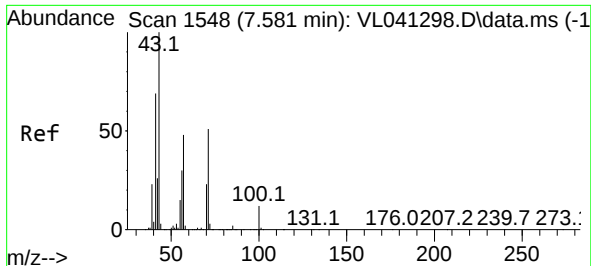


#9
Propene
Concen: 0.569 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.013 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55



Tgt Ion: 41 Resp: 33356
Ion Ratio Lower Upper
41 100
42 56.3 55.2 82.8





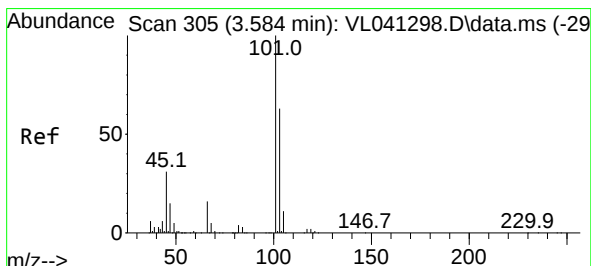
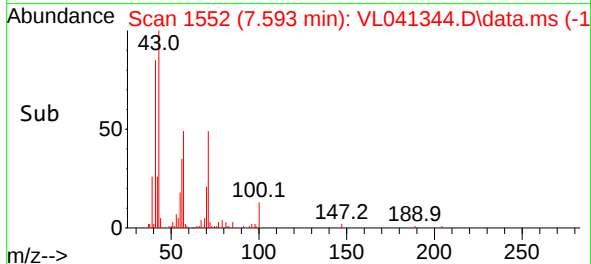
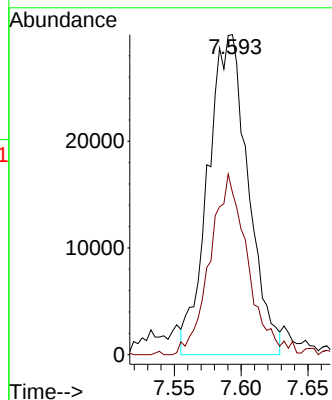
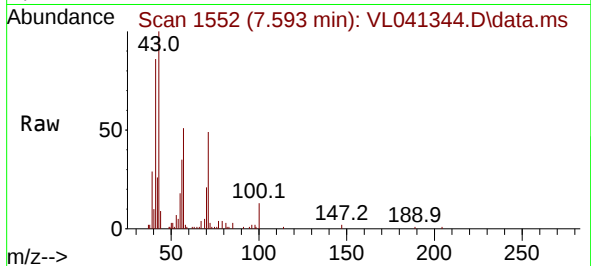
#10
Heptane
Concen: 0.452 ppbv m
RT: 7.593 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 6292
Ion Ratio Lower Upper
43 100
57 52.7 39.0 58.4

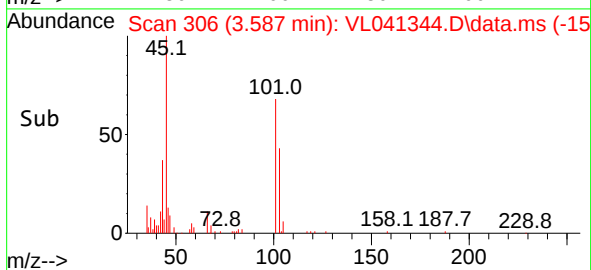
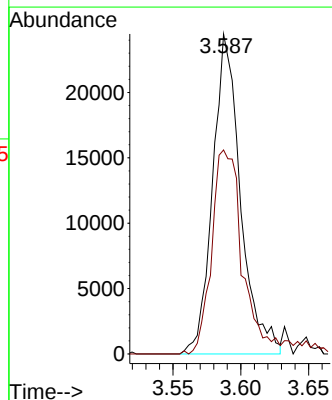
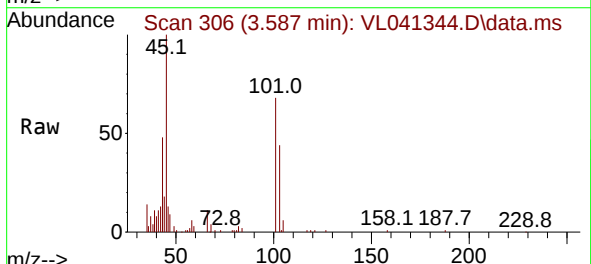
Manual Integrations
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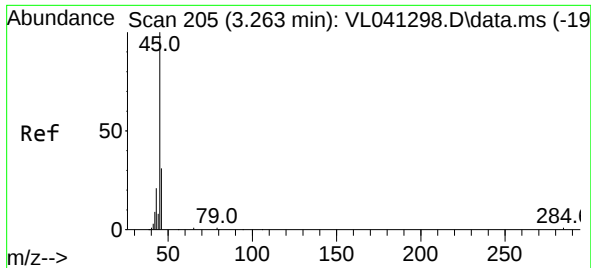
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

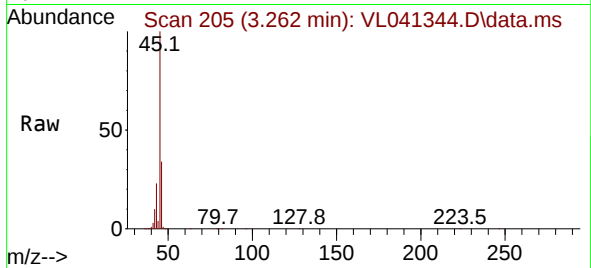
Tgt Ion:101 Resp: 34917
Ion Ratio Lower Upper
101 100
103 63.8 50.6 76.0





#13
Ethanol
Concen: 128.850 ppbv
RT: 3.262 min Scan# 205
Delta R.T. -0.006 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

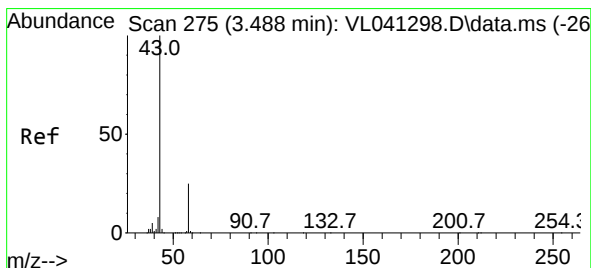
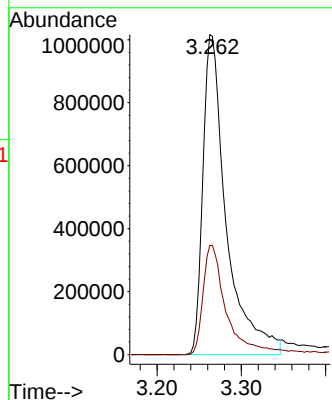
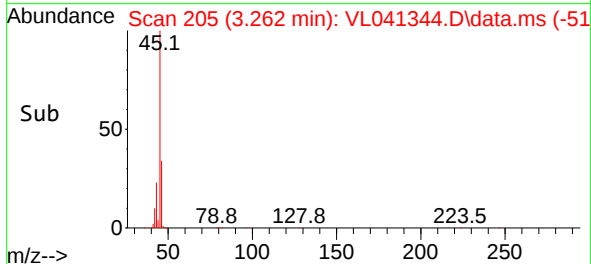
Instrument :
MSVOA_L
ClientSampleId :
IA1



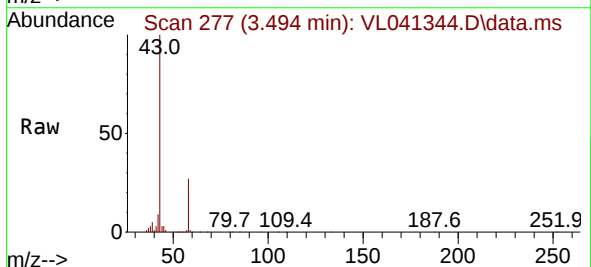
Tgt Ion: 45 Resp: 1966738
Ion Ratio Lower Upper
45 100
46 37.0 14.2 56.6

Manual Integrations
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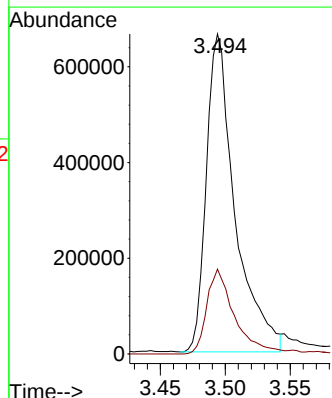
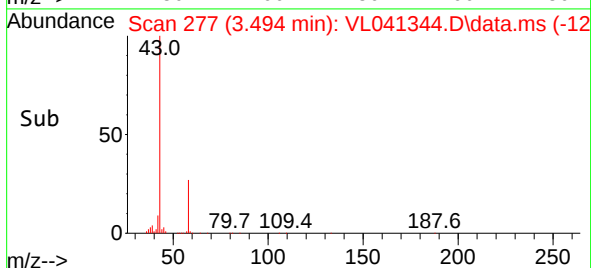
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

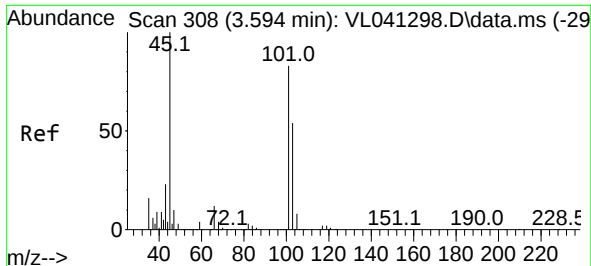


#15
Acetone
Concen: 8.574 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55



Tgt Ion: 43 Resp: 1020378
Ion Ratio Lower Upper
43 100
58 26.7 20.6 31.0





#19

Isopropyl Alcohol

Concen: 3.240 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.006 min

Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 45 Resp: 24225

Ion Ratio Lower Upper

45 100

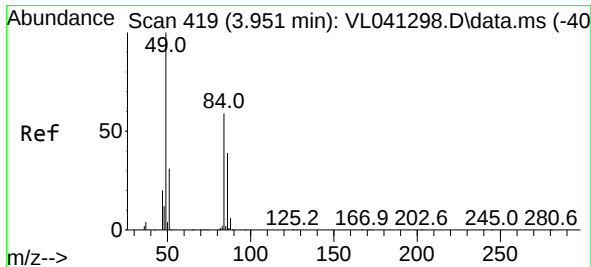
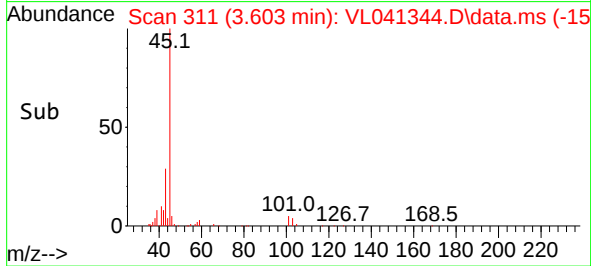
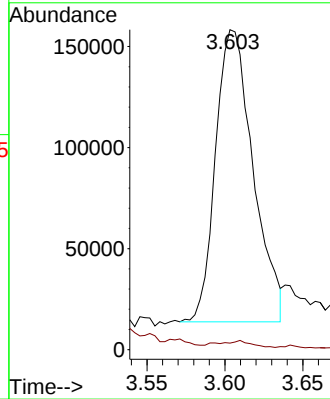
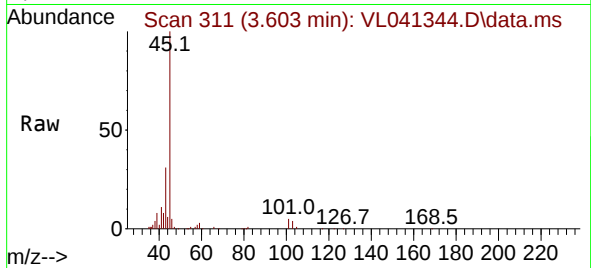
58 3.8 1.4 2.2

Manual Integrations

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Supervised By :Mahesh Dadoda 06/12/2024



#20

Methylene Chloride

Concen: 14.347 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.003 min

Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Tgt Ion: 84 Resp: 620578

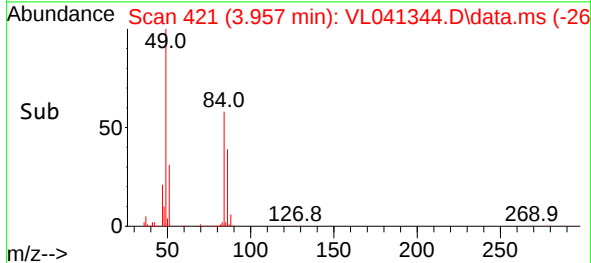
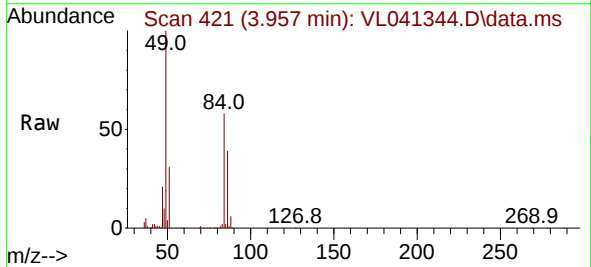
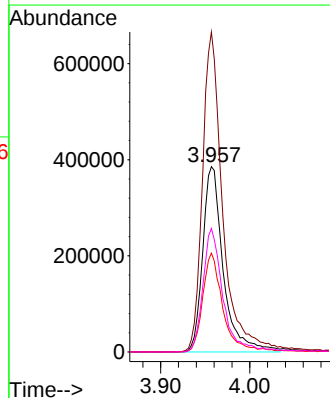
Ion Ratio Lower Upper

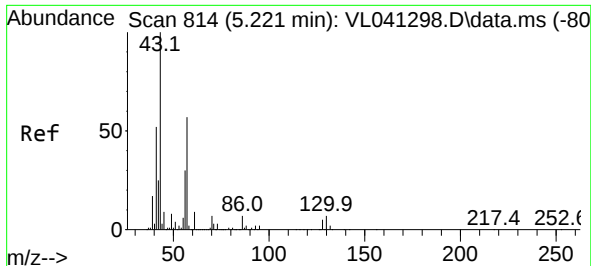
84 100

49 172.5 136.2 204.2

51 53.1 41.9 62.9

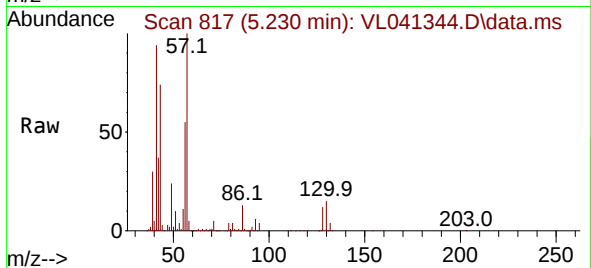
86 66.6 52.6 78.8





#26
Hexane
Concen: 10.186 ppbv
RT: 5.230 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

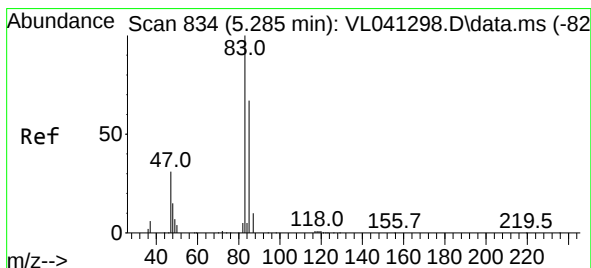
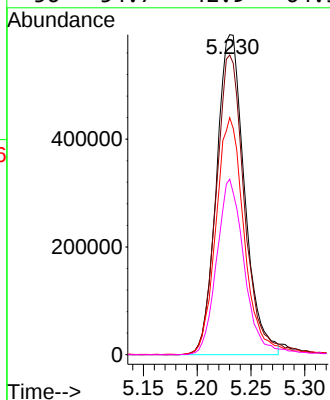
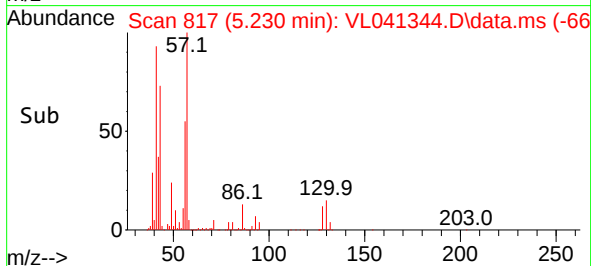
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 107841
Ion Ratio Lower Upper
57 100
41 95.7 77.1 115.7
43 75.8 186.1 279.1
56 54.7 42.9 64.3

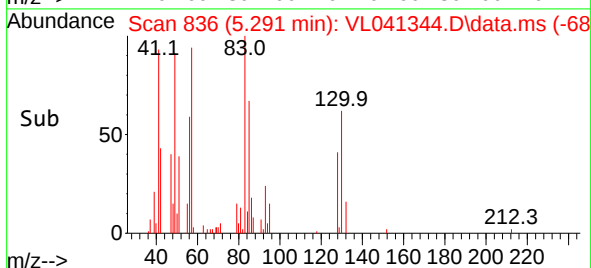
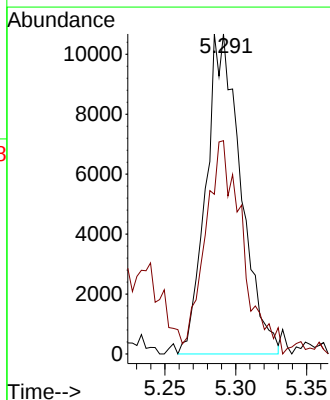
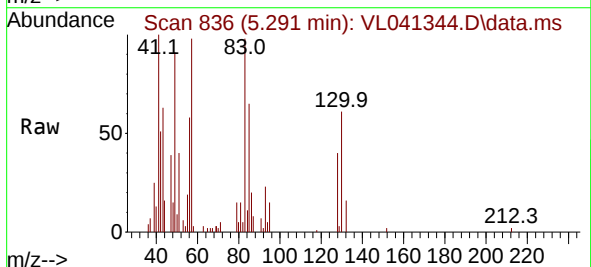
Manual Integrations
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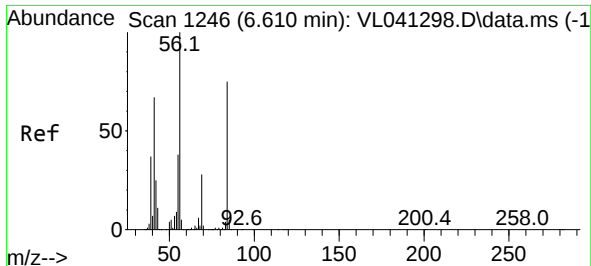
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#29
Chloroform
Concen: 0.113 ppbv
RT: 5.291 min Scan# 836
Delta R.T. 0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

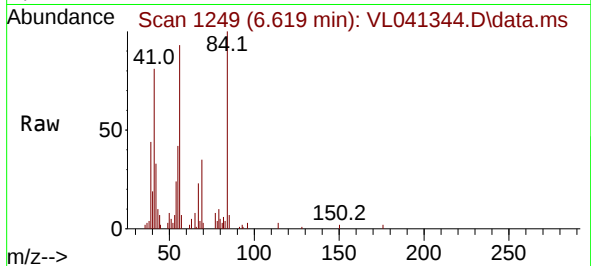
Tgt Ion: 83 Resp: 18370
Ion Ratio Lower Upper
83 100
85 59.0 53.3 79.9





#30
Cyclohexane
Concen: 0.306 ppbv
RT: 6.619 min Scan# 1246
Delta R.T. 0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

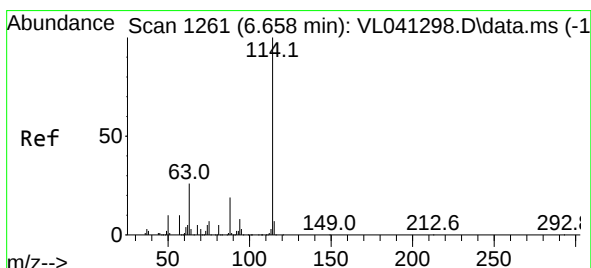
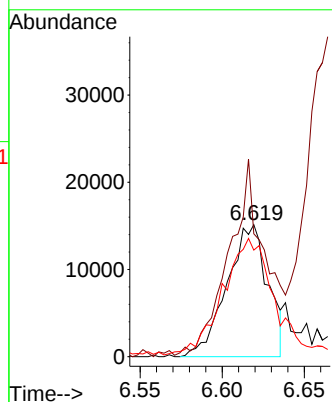
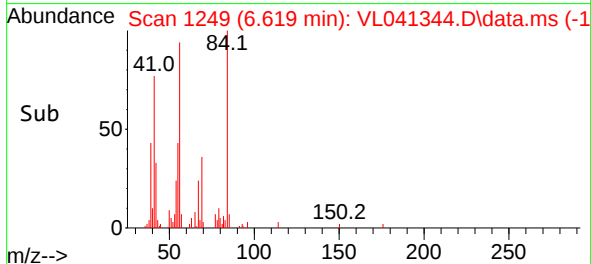
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 26225
Ion Ratio Lower Upper
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56 143.1 114.9 172.3
41 114.9 74.4 111.6

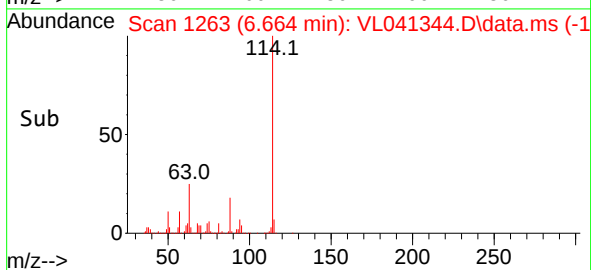
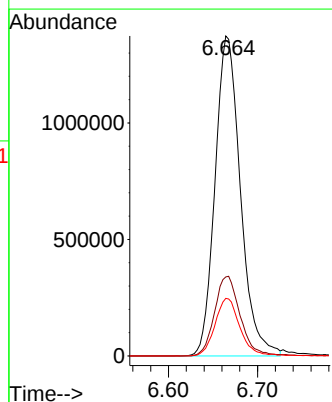
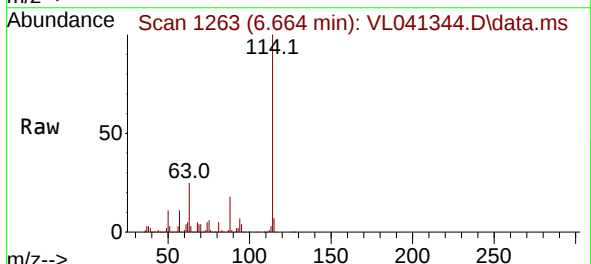
Manual Integrations
APPROVED

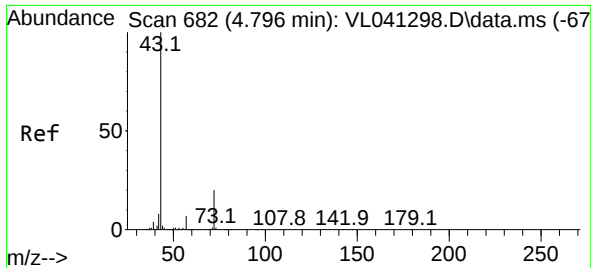
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Tgt Ion:114 Resp: 2719316
Ion Ratio Lower Upper
114 100
63 25.4 20.6 30.8
88 17.8 14.5 21.7





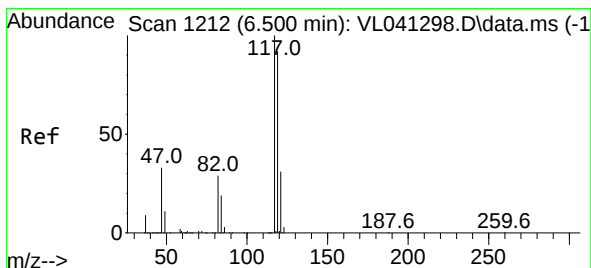
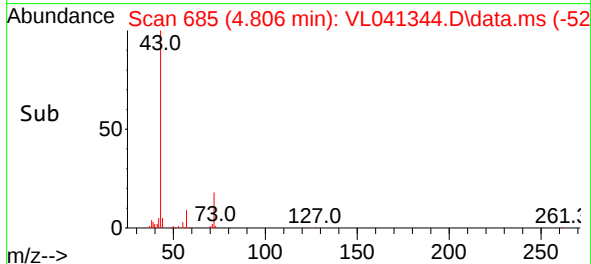
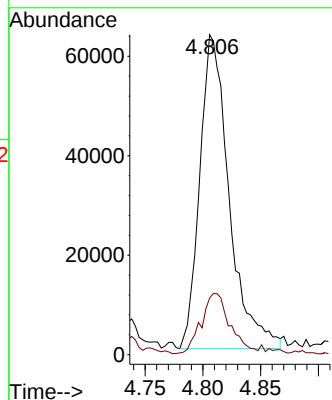
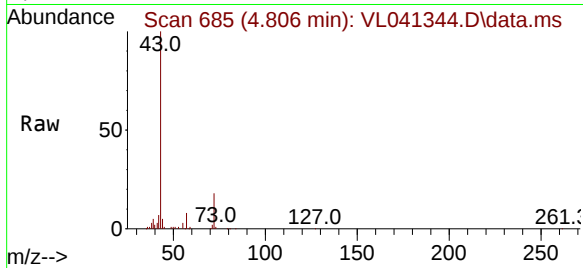
#34
2-Butanone
Concen: 0.855 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 11144
Ion Ratio Lower Upper
43 100
72 20.6 17.4 26.0

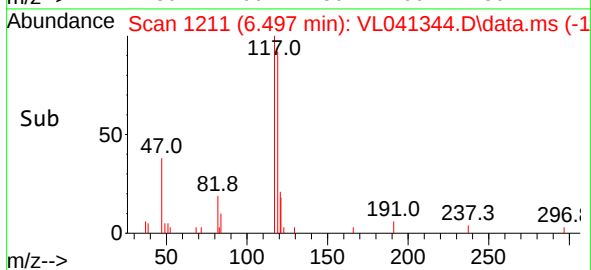
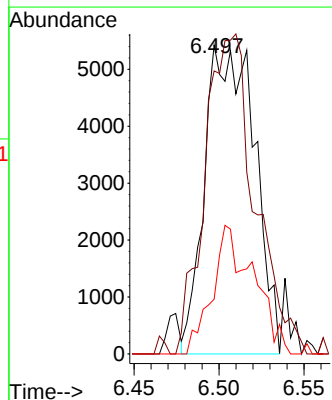
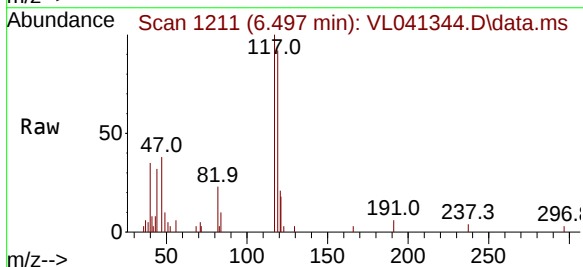
Manual Integrations
APPROVED

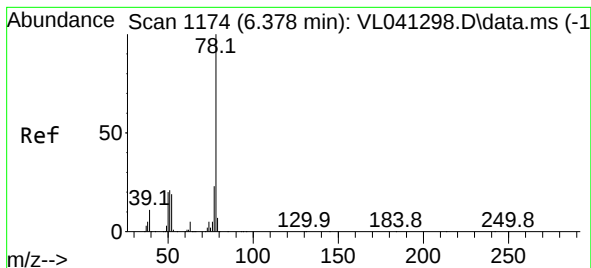
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. -0.013 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Tgt Ion:117 Resp: 11071
Ion Ratio Lower Upper
117 100
119 91.6 74.0 111.0
121 17.7 24.8 37.2#





#36

Benzene

Concen: 0.250 ppbv

RT: 6.381 min Scan# 1175

Delta R.T. -0.003 min

Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Instrument :

MSVOA_L

ClientSampleId :

IA1

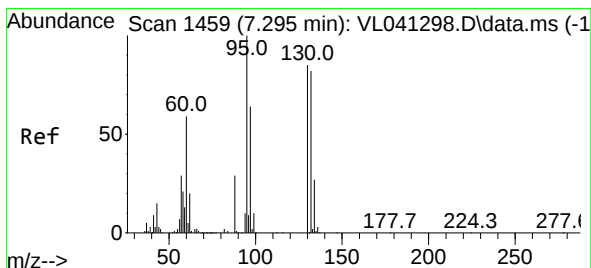
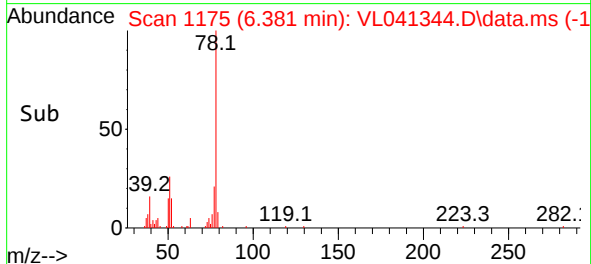
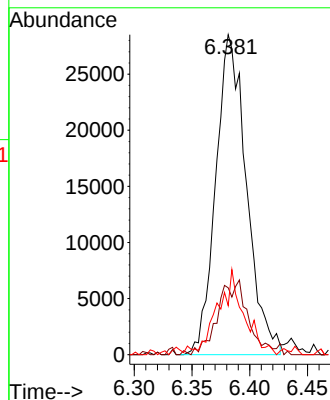
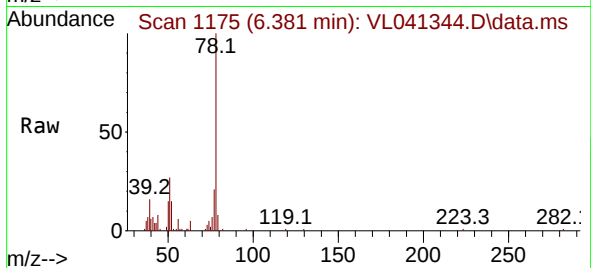
Tgt Ion: 78 Resp: 52630

Ion	Ratio	Lower	Upper
78	100		
77	20.9	18.6	28.0
50	14.2	16.0	24.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#38

Trichloroethene

Concen: 1.357 ppbv m

RT: 7.304 min Scan# 1462

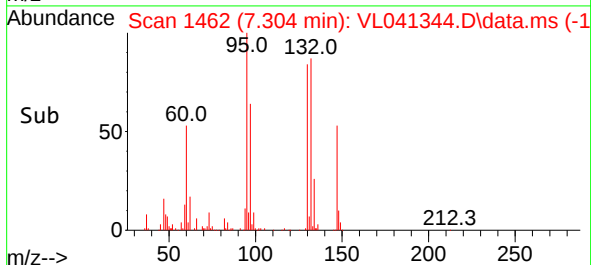
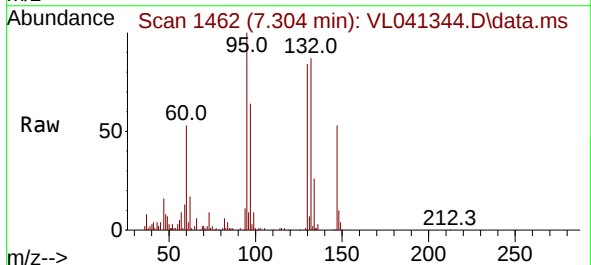
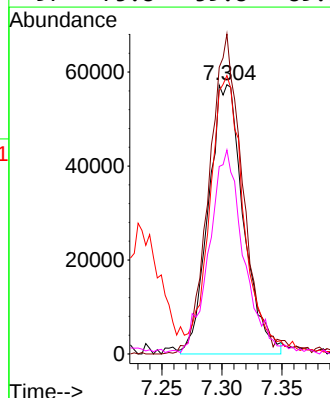
Delta R.T. -0.000 min

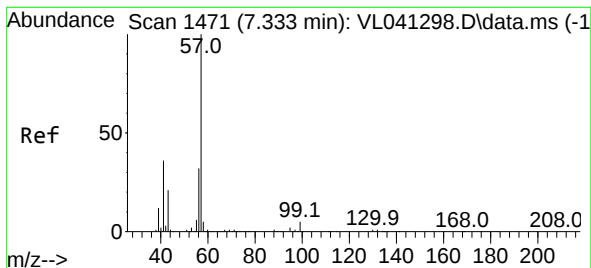
Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Tgt Ion:130 Resp: 115905

Ion	Ratio	Lower	Upper
130	100		
95	118.8	94.0	141.0
132	103.4	76.7	115.1
97	75.8	59.8	89.8





#44

2,2,4-Trimethylpentane

Concen: 0.288 ppbv

RT: 7.339 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 57 Resp: 10424

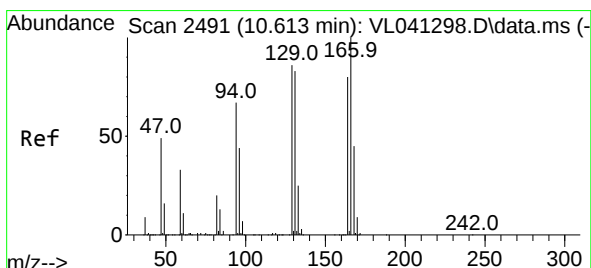
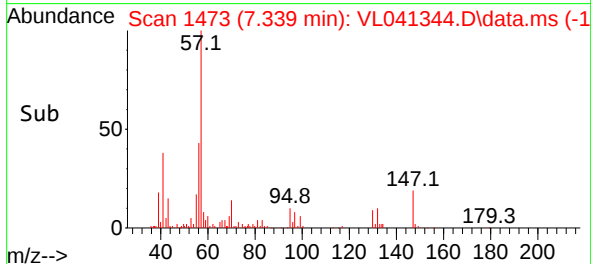
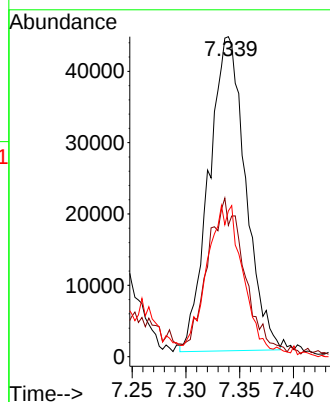
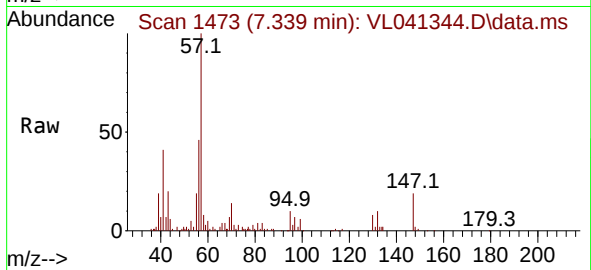
Ion	Ratio	Lower	Upper
57	100		
41	48.7	29.4	44.2
56	49.8	25.0	37.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024

Supervised By :Mahesh Dadoda 06/12/2024



#52

Tetrachloroethene

Concen: 1.912 ppbv

RT: 10.619 min Scan# 2493

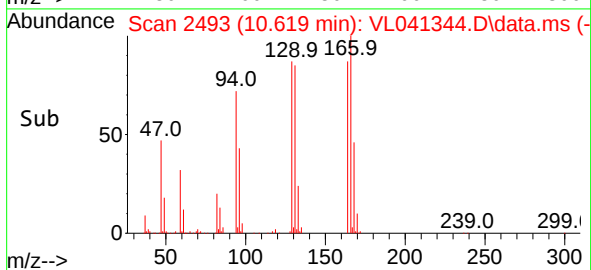
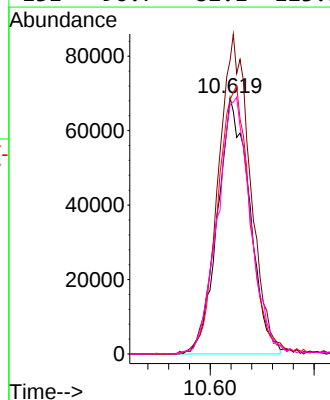
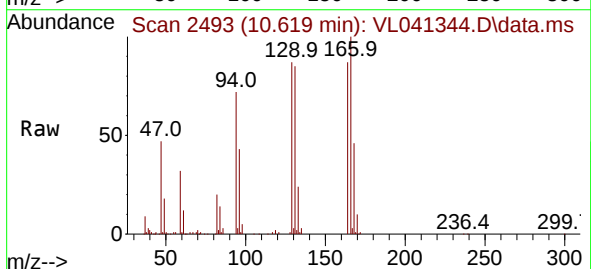
Delta R.T. -0.006 min

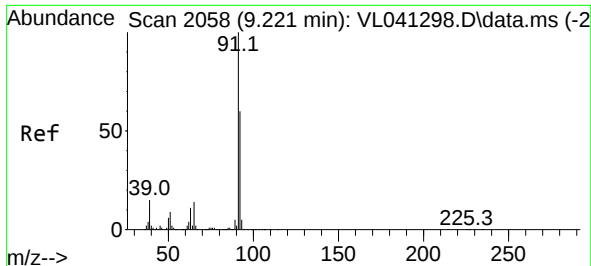
Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Tgt Ion:164 Resp: 146984

Ion	Ratio	Lower	Upper
164	100		
166	113.6	99.4	149.0
129	98.9	85.4	128.2
131	96.7	82.1	123.1





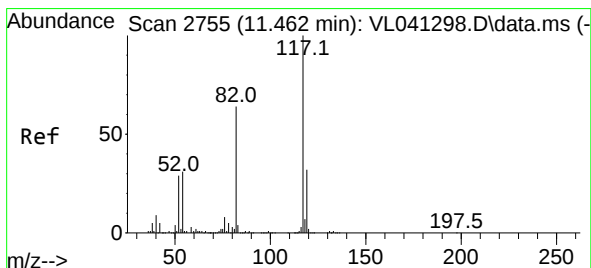
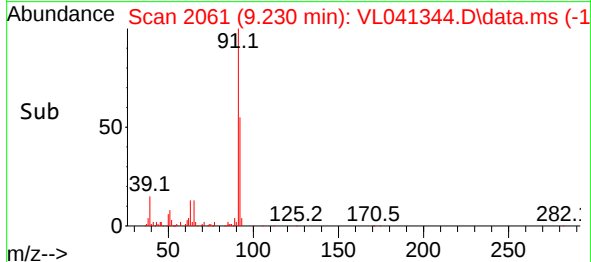
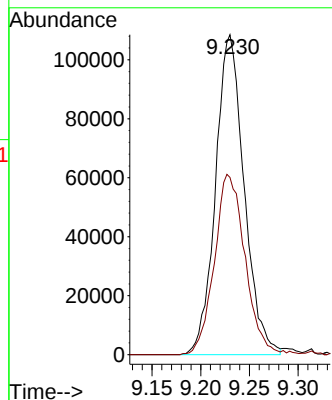
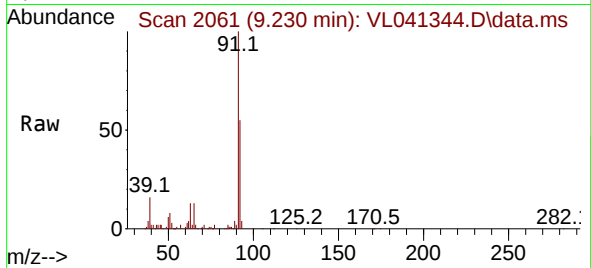
#53
Toluene
Concen: 0.915 ppbv
RT: 9.230 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 22176
Ion Ratio Lower Upper
91 100
92 60.4 49.2 73.8

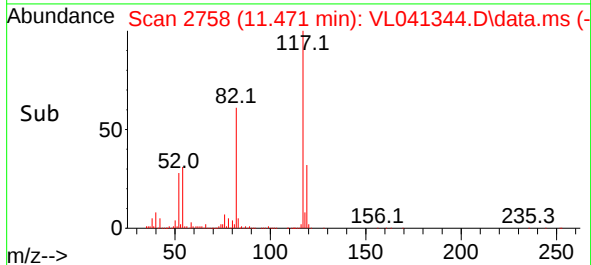
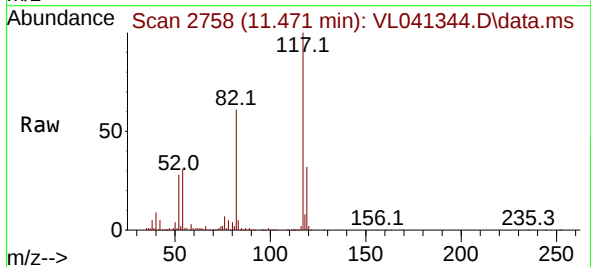
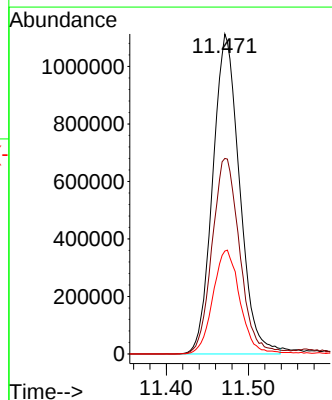
Manual Integrations
APPROVED

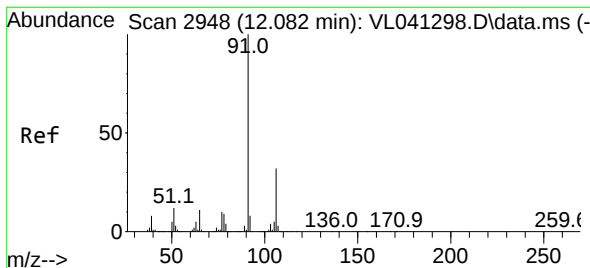
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

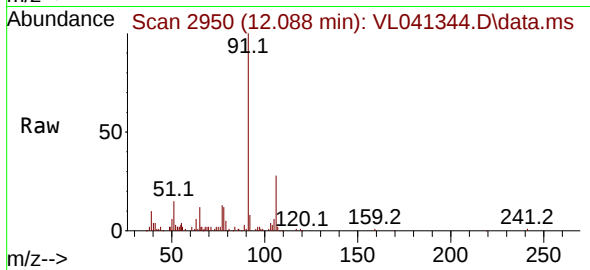
Tgt Ion:117 Resp: 2530619
Ion Ratio Lower Upper
117 100
82 63.4 52.3 78.5
119 33.1 26.2 39.2





#58
Ethyl Benzene
Concen: 0.269 ppbv m
RT: 12.088 min Scan# 2948
Delta R.T. -0.006 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

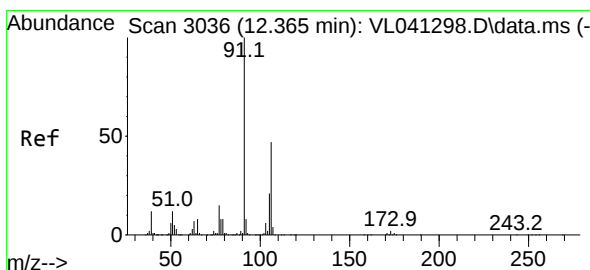
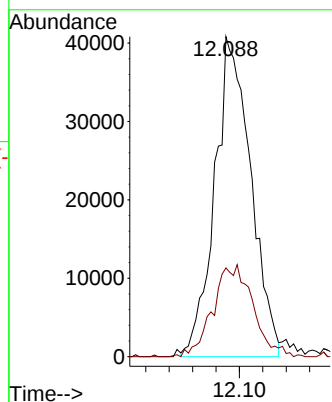
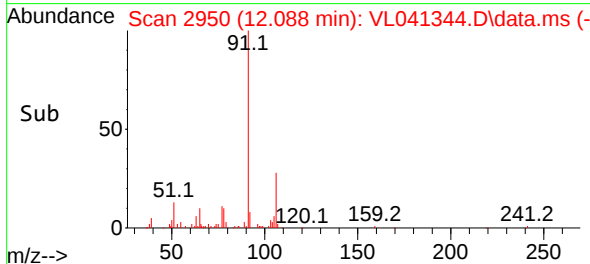
Instrument :
MSVOA_L
ClientSampleId :
IA1



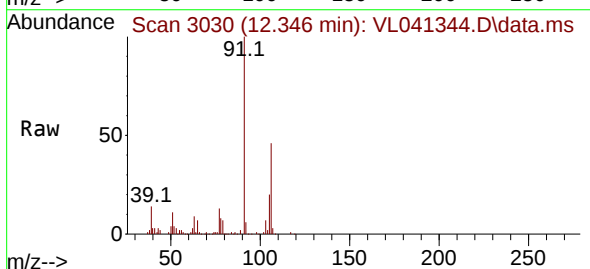
Tgt Ion: 91 Resp: 87410
Ion Ratio Lower Upper
91 100
106 27.7 25.5 38.3

Manual Integrations
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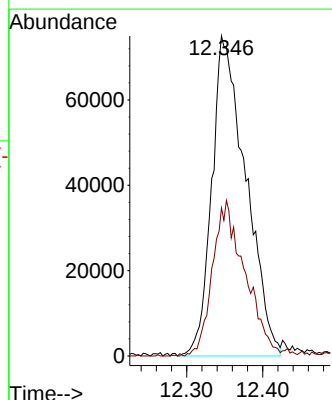
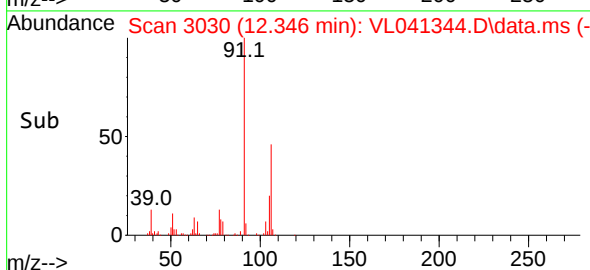
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

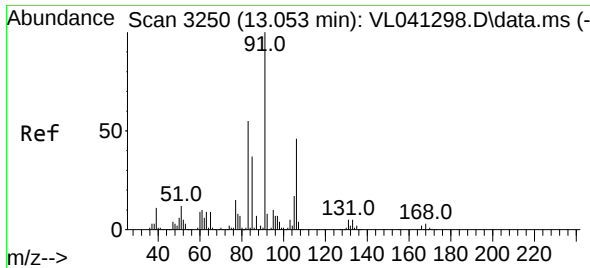


#59
m/p-Xylene
Concen: 0.839 ppbv
RT: 12.346 min Scan# 3030
Delta R.T. -0.032 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55



Tgt Ion: 91 Resp: 233150
Ion Ratio Lower Upper
91 100
106 47.2 35.7 53.5





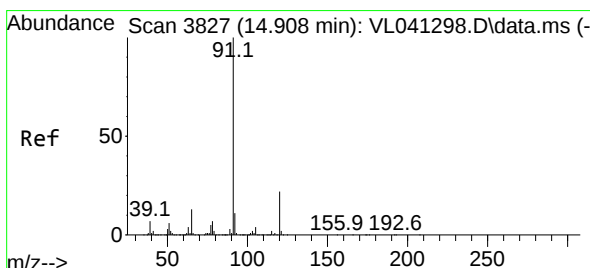
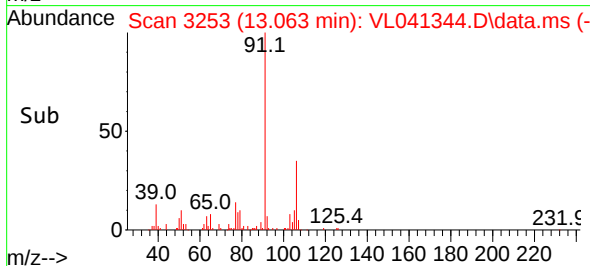
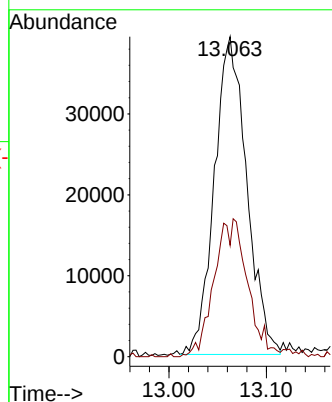
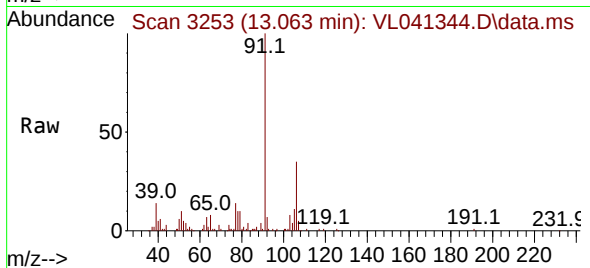
#60
o-Xylene
Concen: 0.342 ppbv
RT: 13.063 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 9055
Ion Ratio Lower Upper
91 100
106 46.2 22.8 68.4

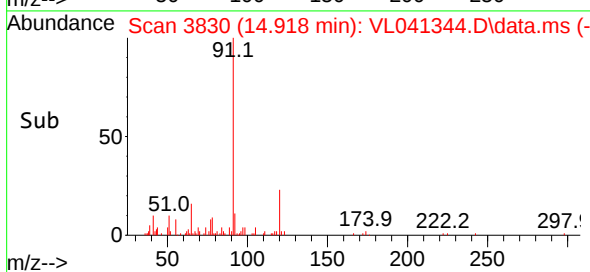
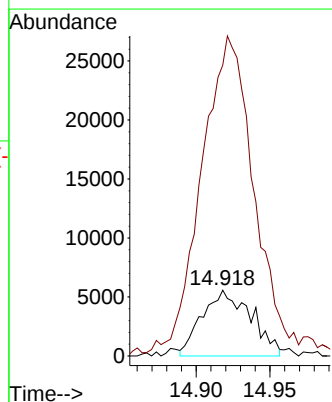
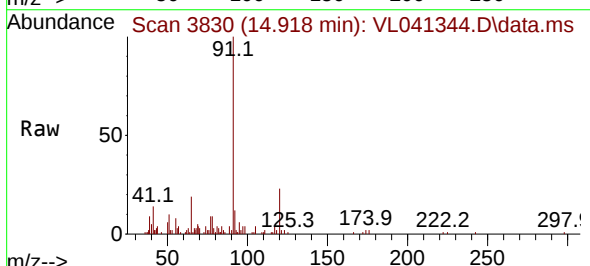
Manual Integrations
APPROVED

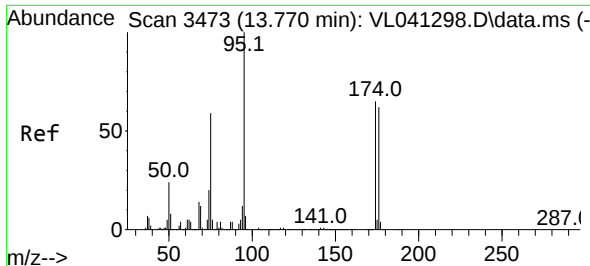
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#64
n-propylbenzene
Concen: 0.124 ppbv m
RT: 14.918 min Scan# 3830
Delta R.T. -0.003 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

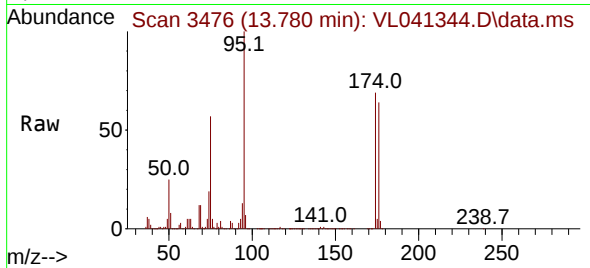
Tgt Ion:120 Resp: 12822
Ion Ratio Lower Upper
120 100
91 511.8 374.2 561.2





#68
1-Bromo-4-Fluorobenzene
Concen: 9.872 ppbv
RT: 13.780 min Scan# 3473
Delta R.T. 0.000 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

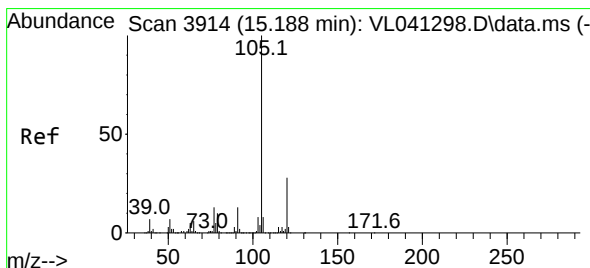
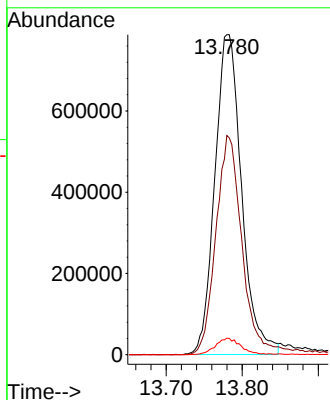
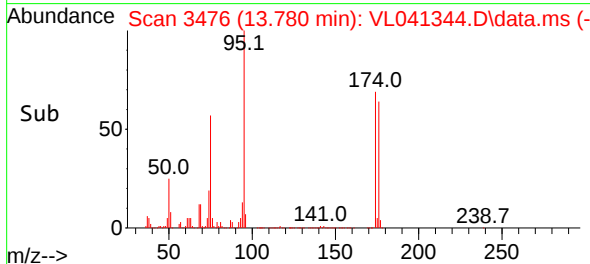
Instrument :
MSVOA_L
ClientSampleId :
IA1



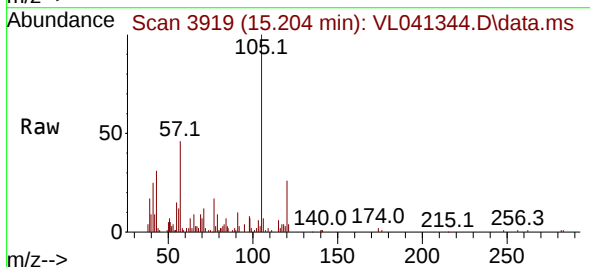
Tgt Ion: 95 Resp: 1928819
Ion Ratio Lower Upper
95 100
174 69.1 52.2 78.2
175 5.1 4.1 6.1

Manual Integrations
APPROVED

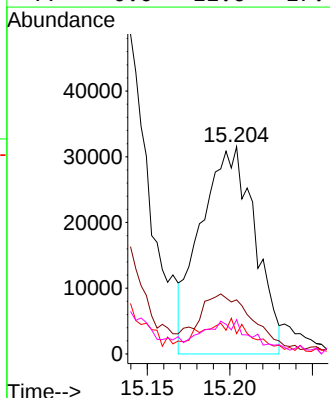
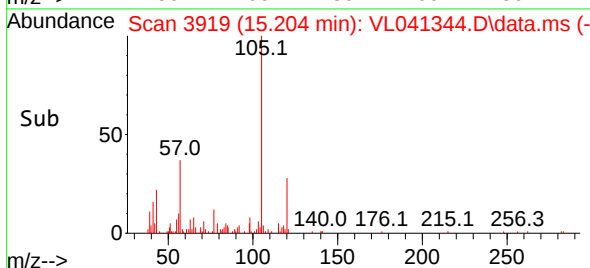
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

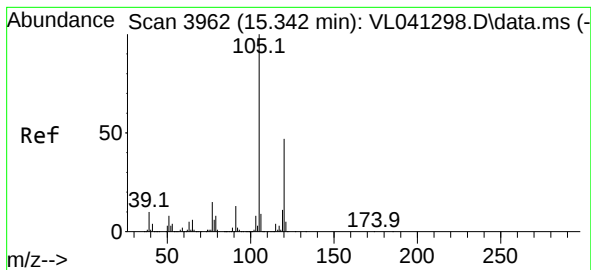


#72
4-Ethyltoluene
Concen: 0.233 ppbv m
RT: 15.204 min Scan# 3919
Delta R.T. 0.006 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55



Tgt Ion:105 Resp: 72002
Ion Ratio Lower Upper
105 100
120 29.8 23.7 35.5
91 0.0 10.6 16.0#
77 0.0 11.6 17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.193 ppbv

RT: 15.358 min Scan# 3962

Delta R.T. 0.000 min

Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 51619

Ion Ratio Lower Upper

105 100

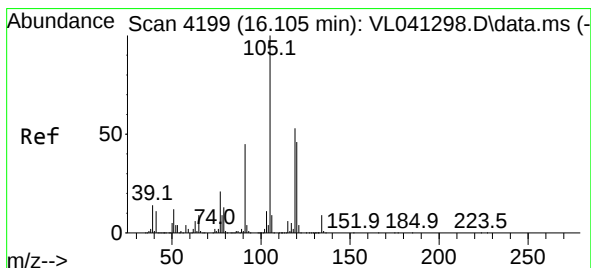
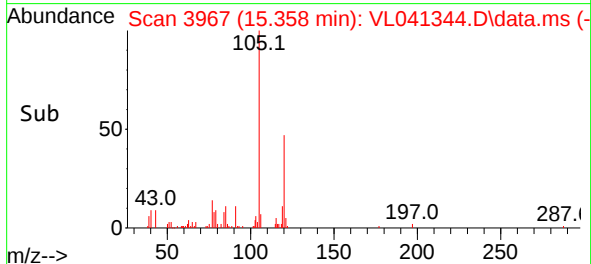
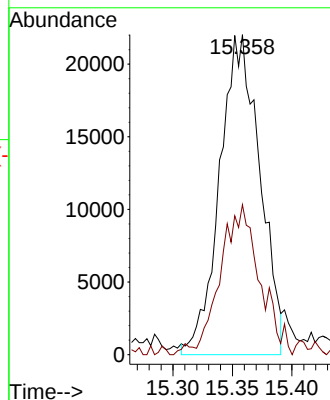
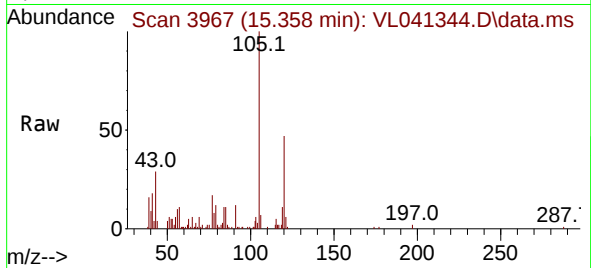
120 46.9 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024

Supervised By :Mahesh Dadoda 06/12/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.632 ppbv

RT: 16.114 min Scan# 4202

Delta R.T. 0.003 min

Lab File: VL041344.D

Acq: 11 Jun 2024 12:55

Tgt Ion:105 Resp: 191459

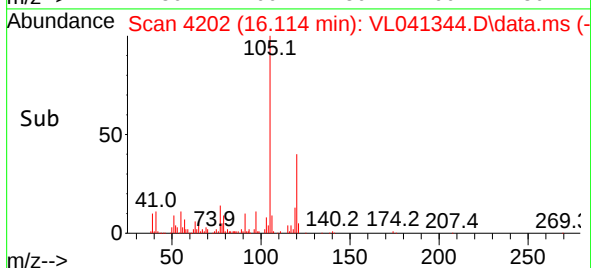
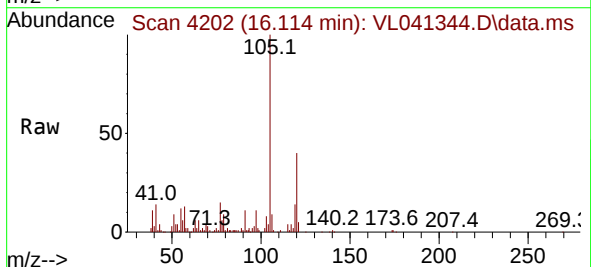
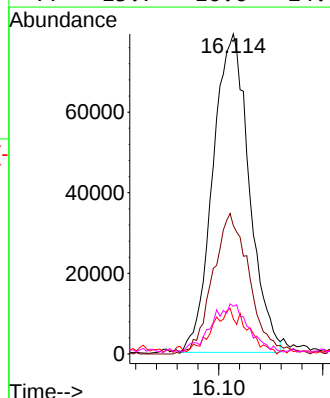
Ion Ratio Lower Upper

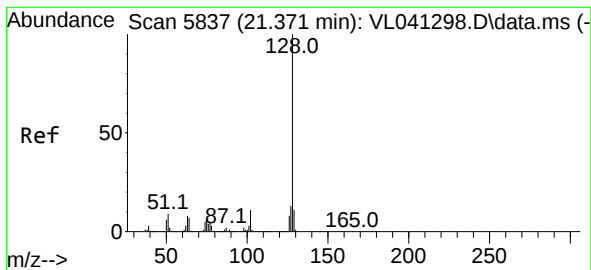
105 100

120 40.2 37.0 55.6

91 10.1 36.2 54.4#

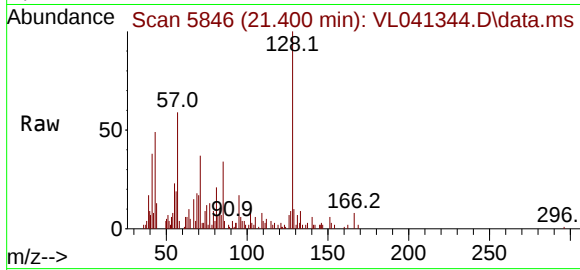
77 13.7 16.6 24.8#





#79
Naphthalene
Concen: 0.141 ppbv m
RT: 21.400 min Scan# 5846
Delta R.T. 0.013 min
Lab File: VL041344.D
Acq: 11 Jun 2024 12:55

Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:128 Resp: 3694
Ion Ratio Lower Upper
128 100
127 9.1 10.5 15.7
129 9.7 9.1 13.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

