

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040148.D
 Acq On : 6 Feb 2023 16:25
 Operator : SY/MD
 Sample : 01438-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2023
 Supervised By :Mahesh Dadoda 02/08/2023

Quant Time: Feb 07 05:56:39 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

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

QLast Update : Tue Jan 31 05:24:57 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	965103	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2513189	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2144395	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	1583830	8.887	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.900%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.716	85	58194	0.344	ppbv	94
3) Chlorodifluoromethane	2.661	51	52179m	0.451	ppbv	
4) Chloromethane	2.800	50	31292	0.437	ppbv	93
9) Propene	2.681	41	797324	16.578	ppbv	95
10) Heptane	7.571	43	155576	1.404	ppbv	99
11) Trichlorofluoromethane	3.549	101	77247	0.457	ppbv	86
13) Ethanol	3.253	45	2876316	649.764	ppbv	98
15) Acetone	3.456	43	594848	5.139	ppbv #	79
19) Isopropyl Alcohol	3.591	45	13522851	238.785	ppbv #	93
20) Methylene Chloride	3.922	84	176000	3.447	ppbv	89
26) Hexane	5.202	57	316369	3.545	ppbv #	39
30) Cyclohexane	6.594	84	64327	0.907	ppbv	90
34) 2-Butanone	4.780	43	62531m	0.526	ppbv	
35) Carbon Tetrachloride	6.484	117	8641m	0.061	ppbv	
36) Benzene	6.362	78	1145127	6.157	ppbv	98
44) 2,2,4-Trimethylpentane	7.317	57	403271	1.304	ppbv #	90
50) 4-Methyl-2-Pentanone	8.185	43	54128m	0.289	ppbv	
53) Toluene	9.214	91	1823865	9.195	ppbv	99
58) Ethyl Benzene	12.085	91	463517	1.937	ppbv	93
59) m/p-Xylene	12.339	91	1045784	4.860	ppbv	94
60) o-Xylene	13.056	91	401753	1.967	ppbv	98
61) Styrene	12.905	104	24404m	0.229	ppbv	
62) Isopropylbenzene	14.031	105	37236m	0.127	ppbv	
64) n-propylbenzene	14.912	120	20646m	0.283	ppbv	
70) n-Butylbenzene	17.886	91	41767m	0.138	ppbv	
72) 4-Ethyltoluene	15.188	105	155617m	0.687	ppbv	
73) 1,3,5-Trimethylbenzene	15.352	105	102472	0.502	ppbv	100
74) 1,2,4-Trimethylbenzene	16.108	105	393973m	1.743	ppbv	
79) Naphthalene	21.391	128	19392m	0.150	ppbv	

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

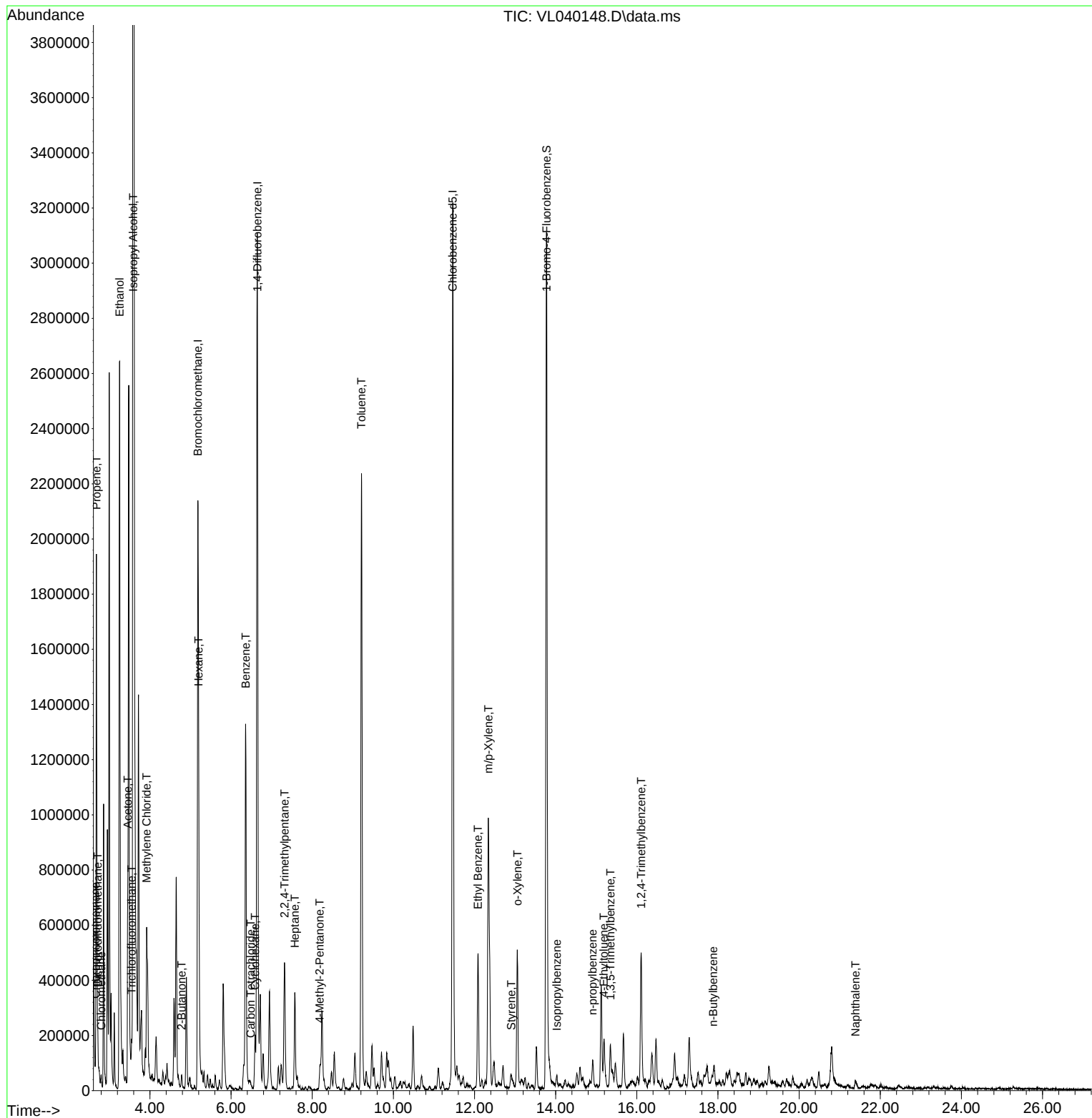
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
Data File : VL040148.D
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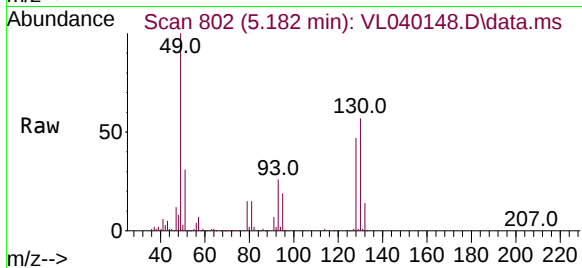
Reviewed By : Semsettin Yesilyurt 02/07/2023
Supervised By : Mahesh Dadoda 02/08/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

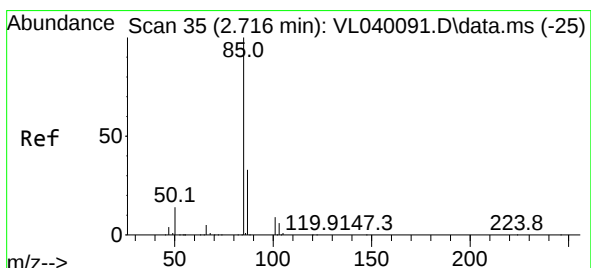
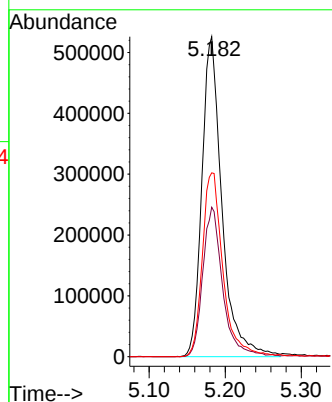
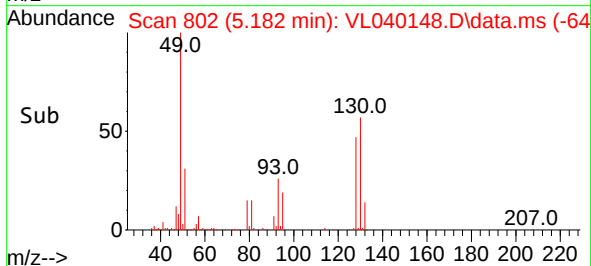
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 96510
Ion Ratio Lower Upper
49 100
128 46.9 23.6 71.0
130 59.8 29.8 89.3

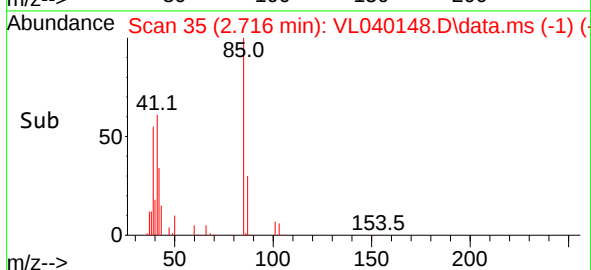
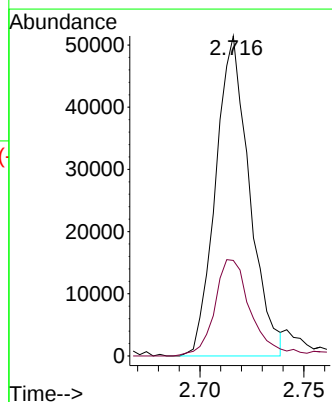
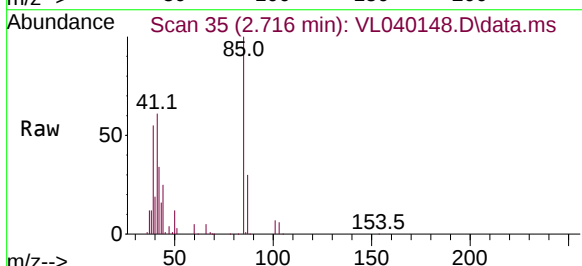
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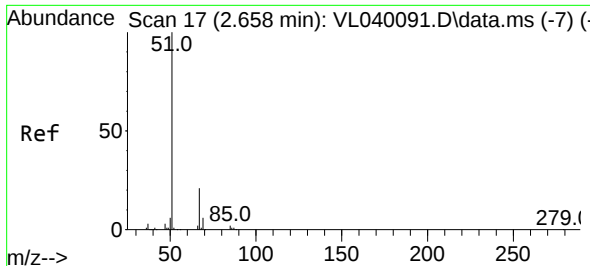
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#2
Dichlorodifluoromethane
Concen: 0.344 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Tgt Ion: 85 Resp: 58194
Ion Ratio Lower Upper
85 100
87 29.5 26.5 39.7





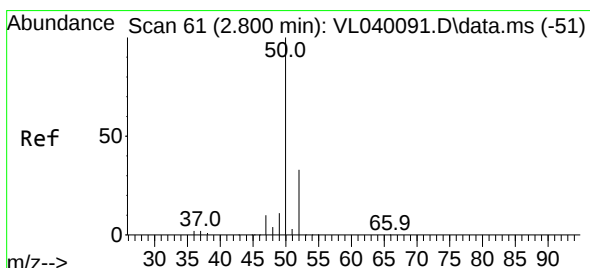
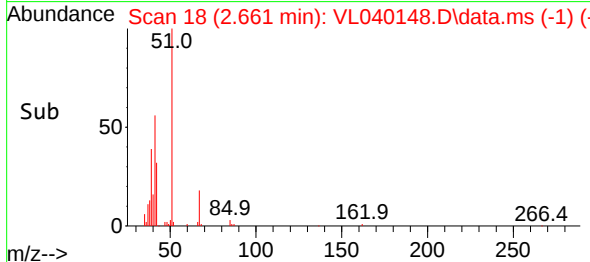
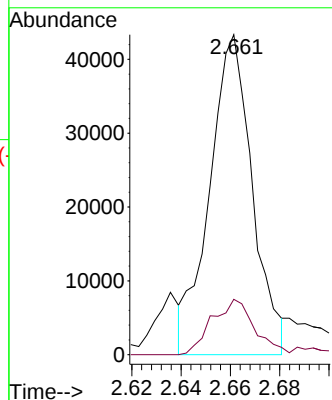
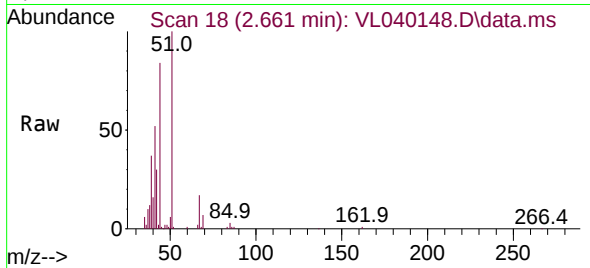
#3
Chlorodifluoromethane
Concen: 0.451 ppbv m
RT: 2.661 min Scan# 18
Delta R.T. 0.007 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Instrument :
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Tgt Ion: 51 Resp: 52179
Ion Ratio Lower Upper
51 100
67 18.8 16.4 24.6

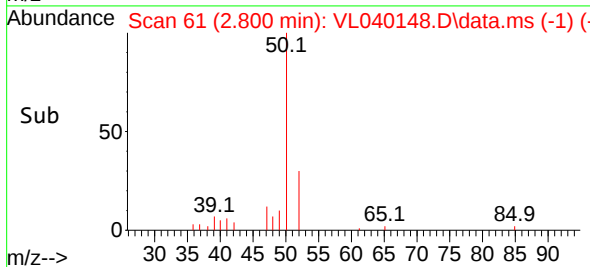
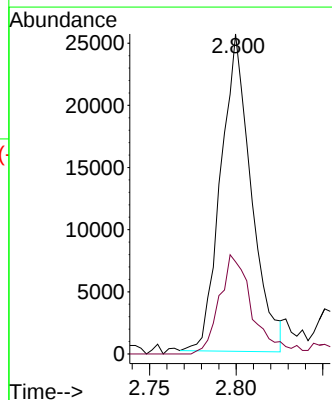
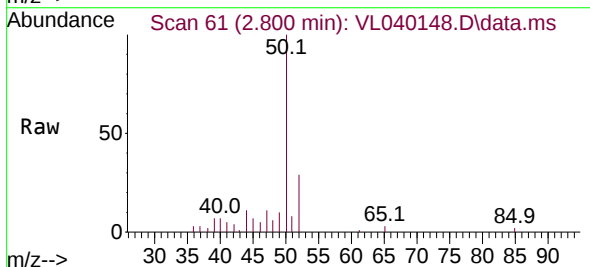
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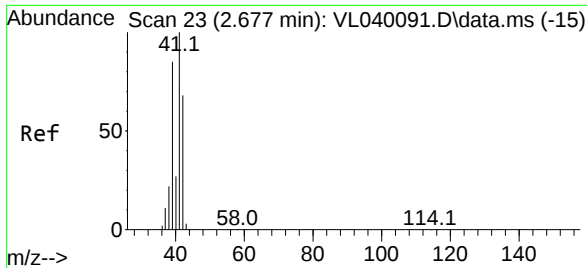
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#4
Chloromethane
Concen: 0.437 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

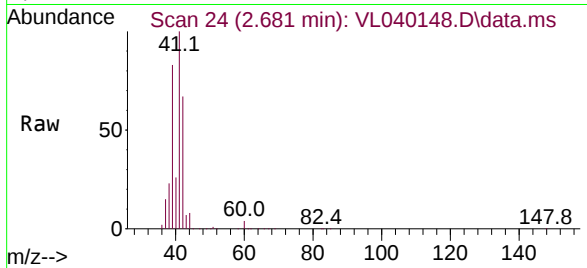
Tgt Ion: 50 Resp: 31292
Ion Ratio Lower Upper
50 100
52 29.1 26.5 39.7





#9
 Propene
 Concen: 16.578 ppbv
 RT: 2.681 min Scan# 24
 Delta R.T. 0.007 min
 Lab File: VL040148.D
 Acq: 6 Feb 2023 16:25

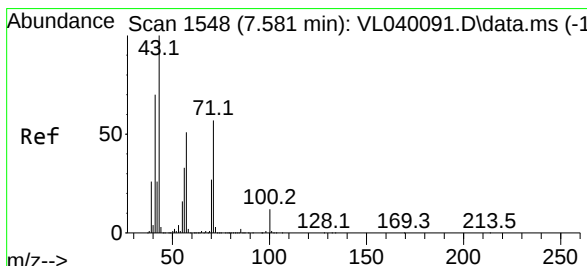
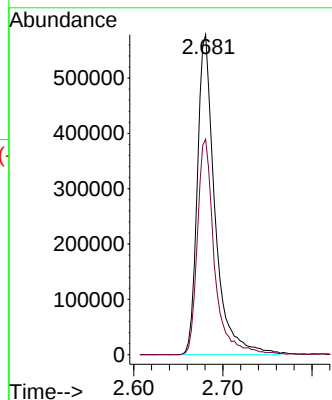
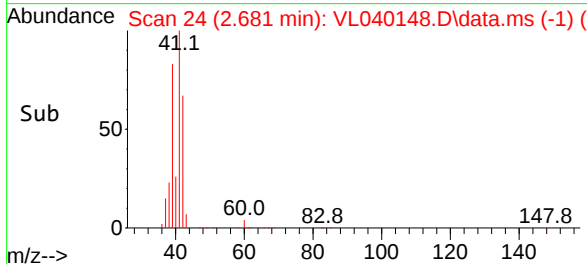
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



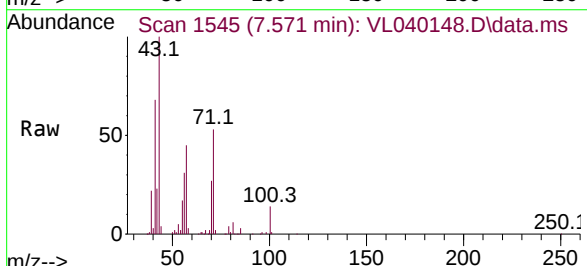
Tgt Ion: 41 Resp: 797324
 Ion Ratio Lower Upper
 41 100
 42 65.6 55.6 83.4

Manual Integrations
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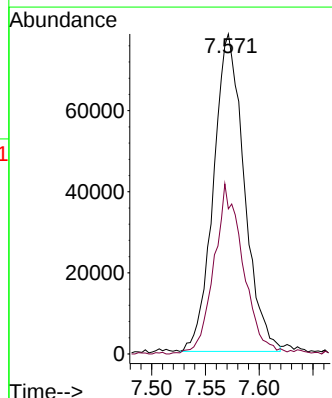
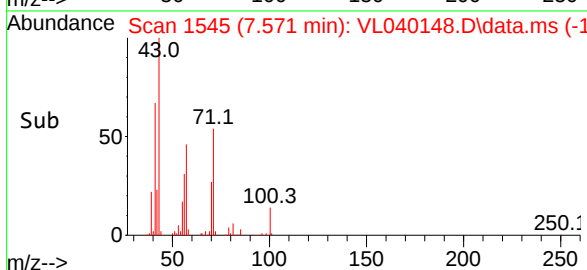
Reviewed By :Semsettin Yesilyurt 02/07/2023
 Supervised By :Mahesh Dadoda 02/08/2023

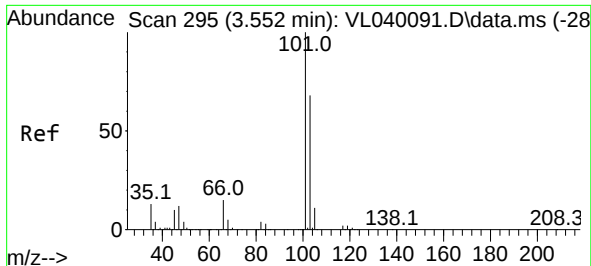


#10
 Heptane
 Concen: 1.404 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. 0.003 min
 Lab File: VL040148.D
 Acq: 6 Feb 2023 16:25



Tgt Ion: 43 Resp: 155576
 Ion Ratio Lower Upper
 43 100
 57 51.9 40.9 61.3





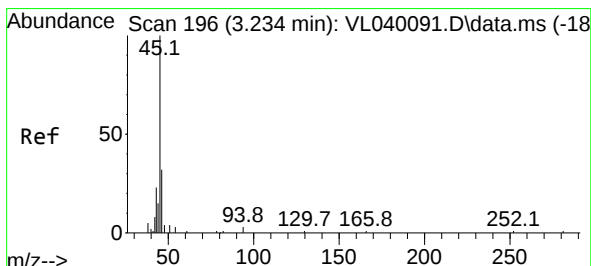
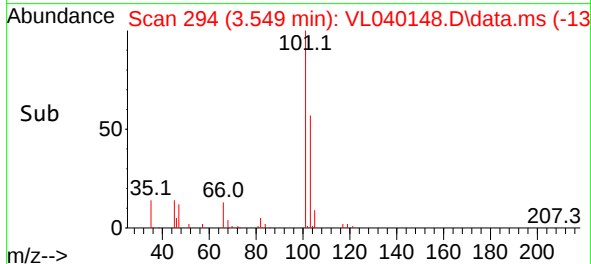
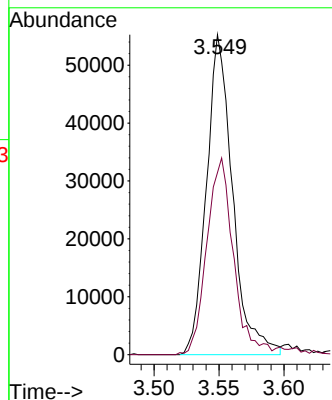
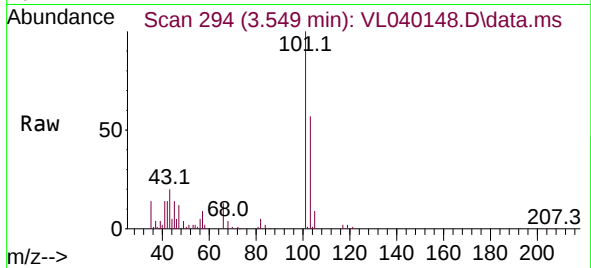
#11
Trichlorofluoromethane
Concen: 0.457 ppbv
RT: 3.549 min Scan# 294
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:101 Resp: 7724
Ion Ratio Lower Upper
101 100
103 56.2 54.0 81.0

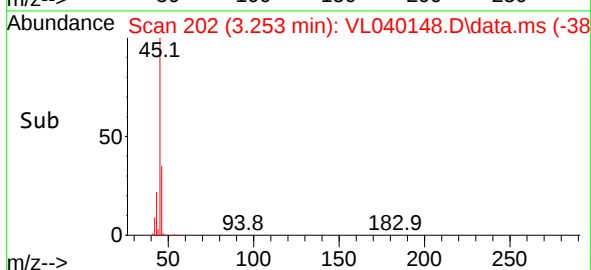
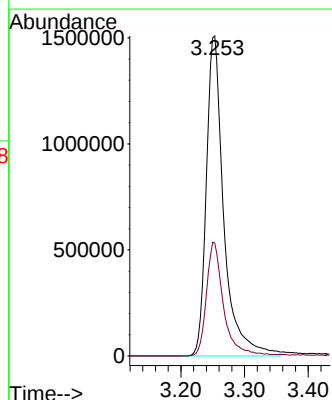
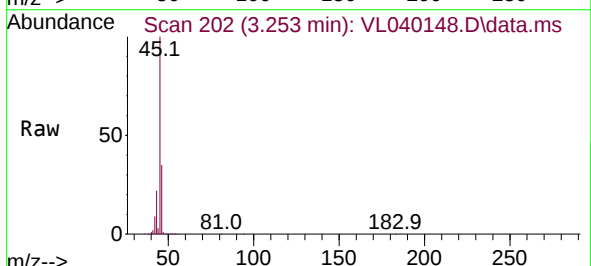
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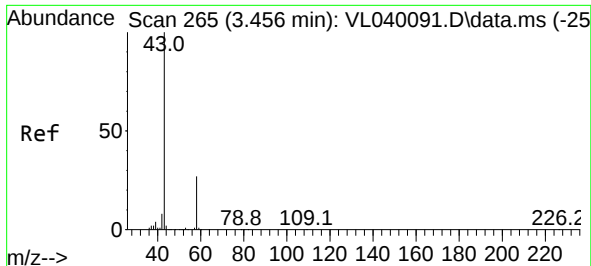
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#13
Ethanol
Concen: 649.764 ppbv
RT: 3.253 min Scan# 202
Delta R.T. 0.026 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

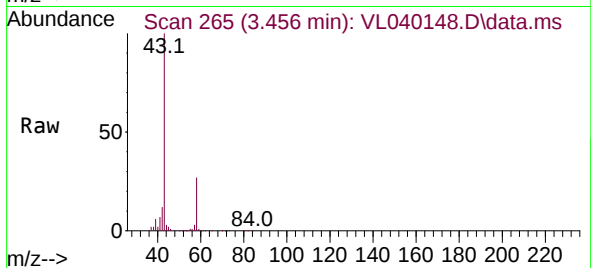
Tgt Ion: 45 Resp: 2876316
Ion Ratio Lower Upper
45 100
46 35.9 14.8 59.2





#15
Acetone
Concen: 5.139 ppbv
RT: 3.456 min Scan# 207
Delta R.T. 0.007 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

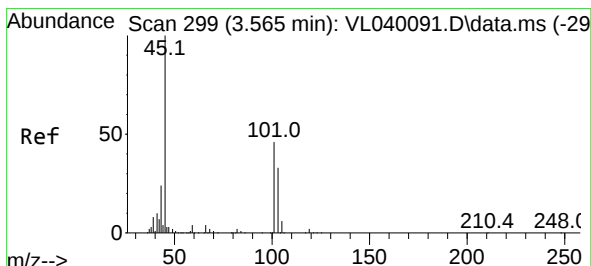
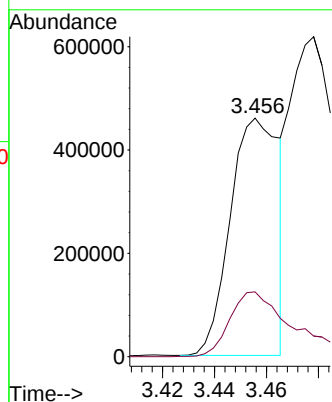
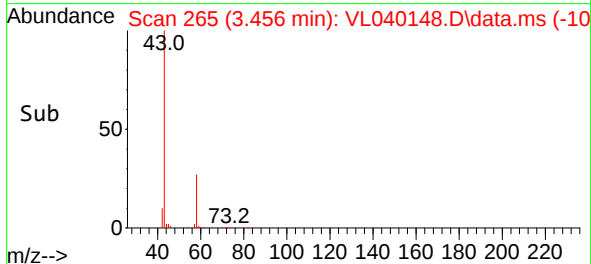
Instrument :
MSVOA_L
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IA1DUP



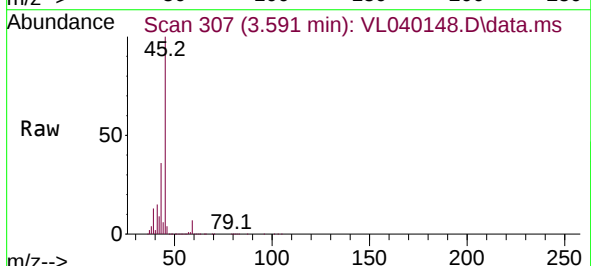
Tgt Ion: 43 Resp: 594848
Ion Ratio Lower Upper
43 100
58 38.1 21.8 32.8

Manual Integrations
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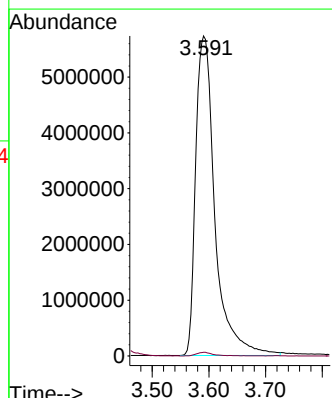
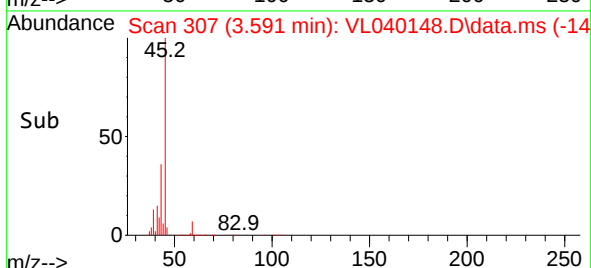
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

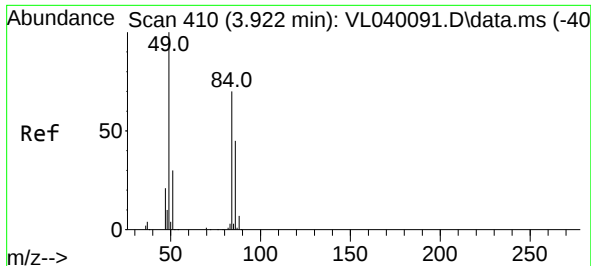


#19
Isopropyl Alcohol
Concen: 238.785 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.032 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25



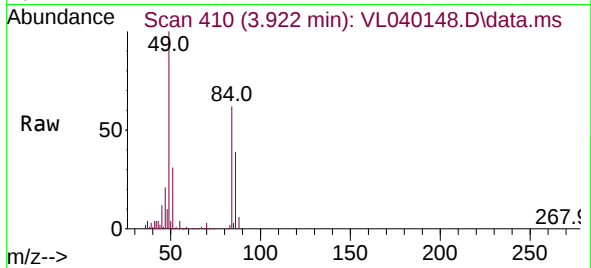
Tgt Ion: 45 Resp:13522851
Ion Ratio Lower Upper
45 100
58 1.1 2.6 4.0





#20
Methylene Chloride
Concen: 3.447 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.007 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

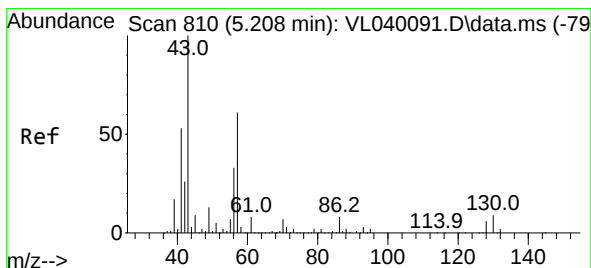
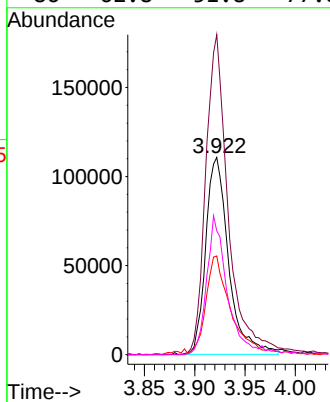
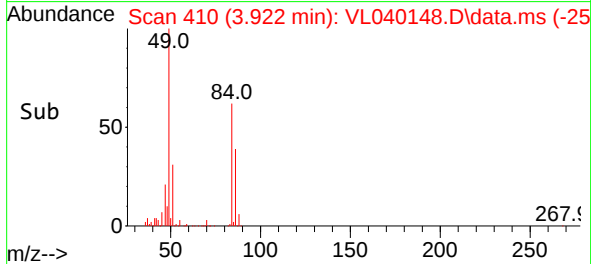
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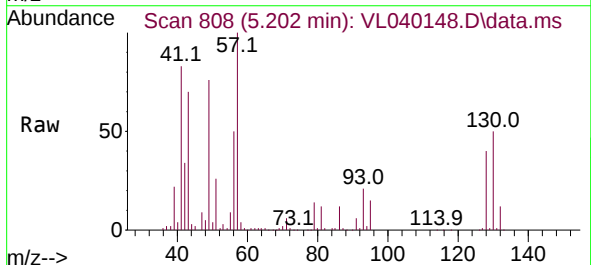
Tgt Ion: 84 Resp: 176000
Ion Ratio Lower Upper
84 100
49 162.4 114.6 171.8
51 48.5 34.3 51.5
86 62.8 51.8 77.8

Manual Integrations
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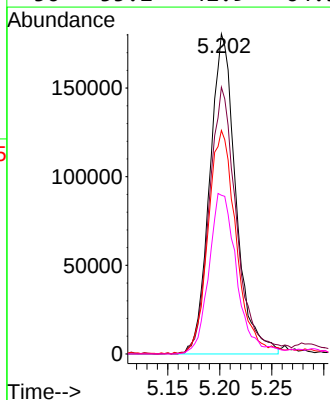
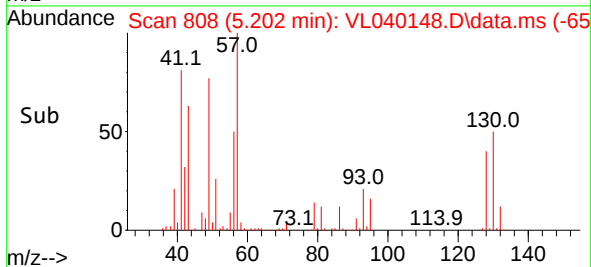
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

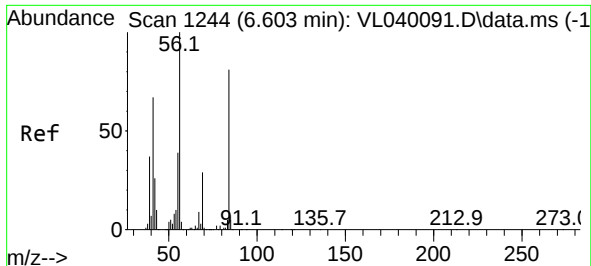


#26
Hexane
Concen: 3.545 ppbv
RT: 5.202 min Scan# 808
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25



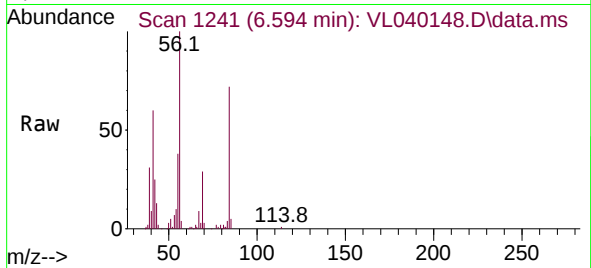
Tgt Ion: 57 Resp: 316369
Ion Ratio Lower Upper
57 100
41 87.7 72.2 108.4
43 75.9 192.1 288.1#
56 55.2 42.9 64.3





#30
Cyclohexane
Concen: 0.907 ppbv
RT: 6.594 min Scan# 1241
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

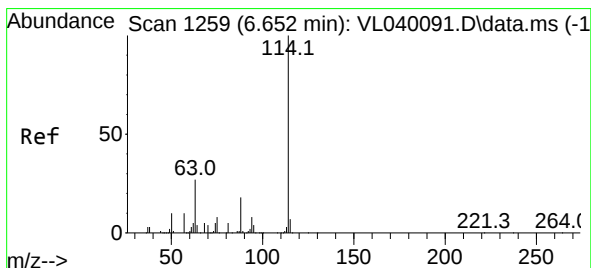
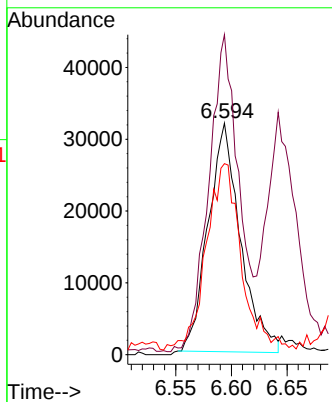
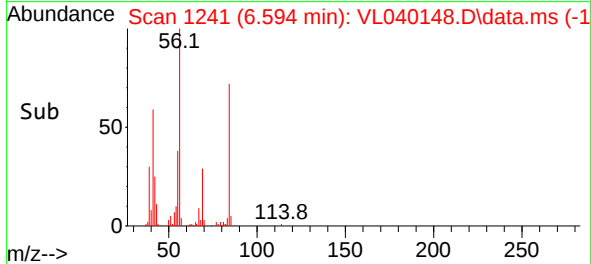
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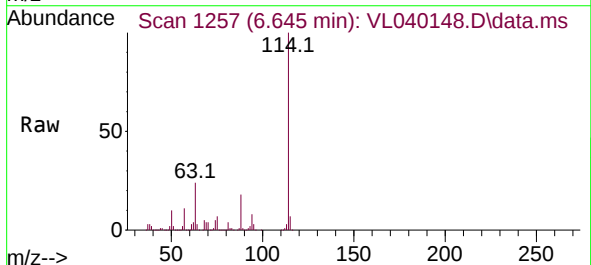
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Ion Ratio Lower Upper
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41 91.9 71.4 107.0

Manual Integrations
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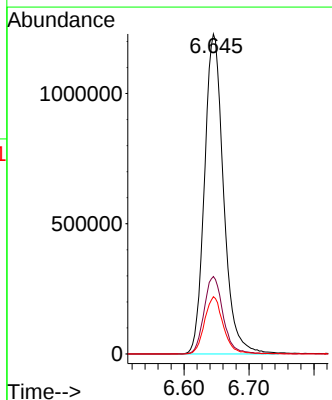
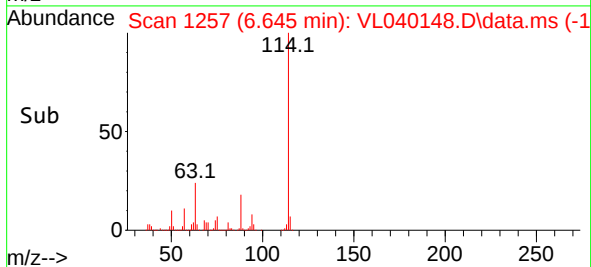
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

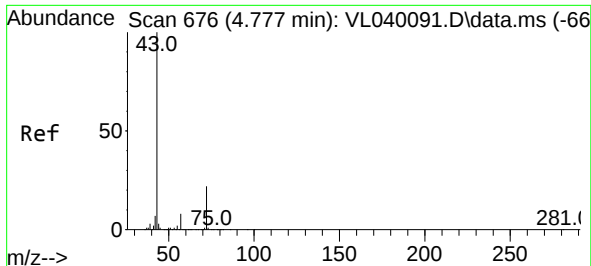


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25



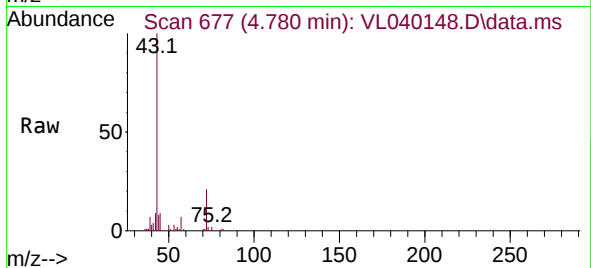
Tgt Ion:114 Resp: 2513189
Ion Ratio Lower Upper
114 100
63 24.4 21.8 32.8
88 17.7 14.8 22.2





#34
2-Butanone
Concen: 0.526 ppbv m
RT: 4.780 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

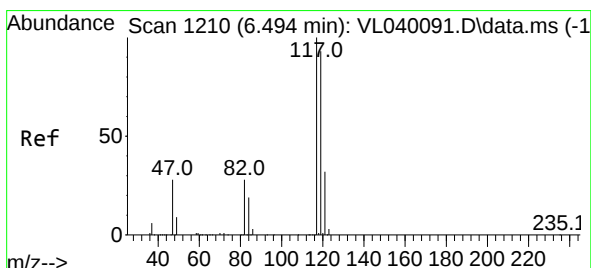
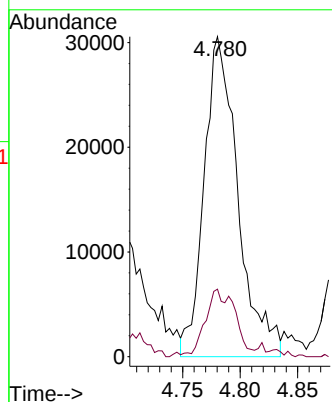
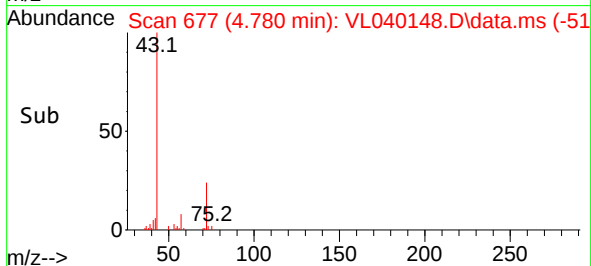
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 6253
Ion Ratio Lower Upper
43 100
72 20.6 18.4 27.6

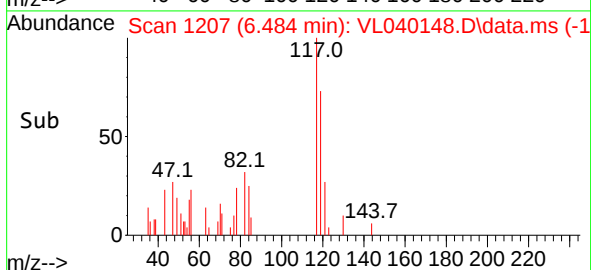
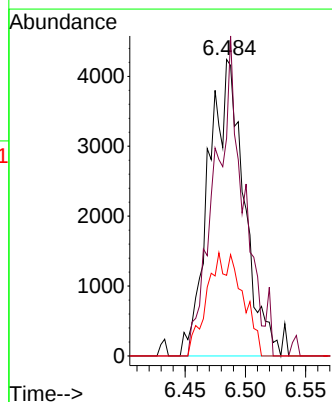
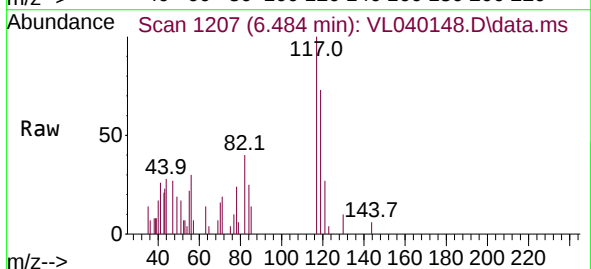
Manual Integrations
APPROVED

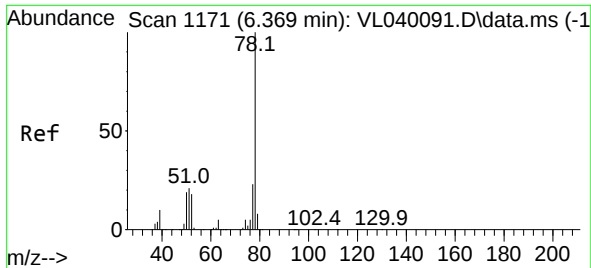
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 6.484 min Scan# 1207
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

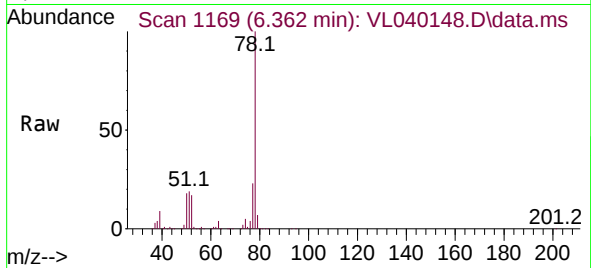
Tgt Ion:117 Resp: 8641
Ion Ratio Lower Upper
117 100
119 73.4 74.5 111.7#
121 27.2 25.4 38.0





#36
Benzene
Concen: 6.157 ppbv
RT: 6.362 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

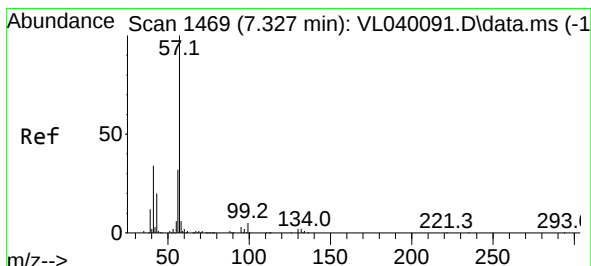
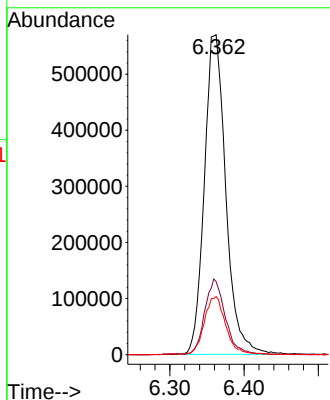
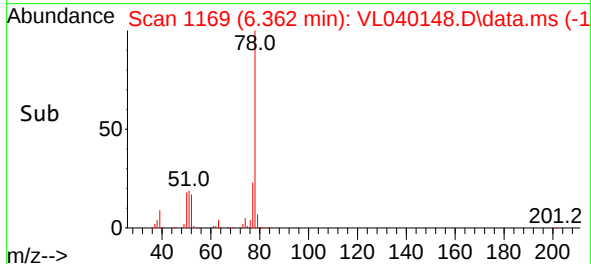
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



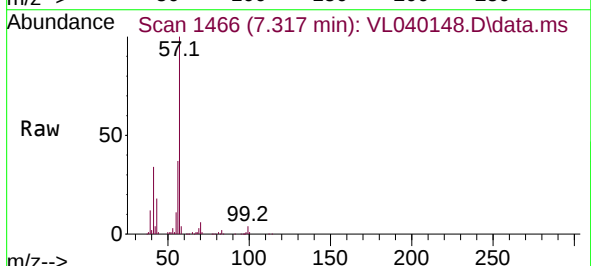
Tgt Ion: 78 Resp: 114512
Ion Ratio Lower Upper
78 100
77 22.7 18.1 27.1
50 18.1 15.6 23.4

Manual Integrations
APPROVED

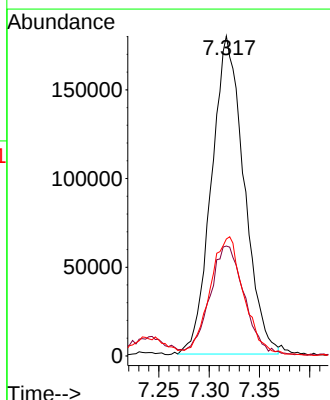
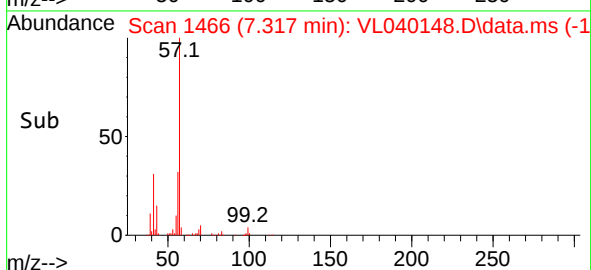
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

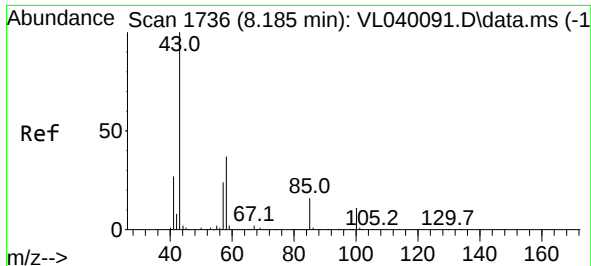


#44
2,2,4-Trimethylpentane
Concen: 1.304 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25



Tgt Ion: 57 Resp: 403271
Ion Ratio Lower Upper
57 100
41 36.9 27.1 40.7
56 39.2 25.0 37.4





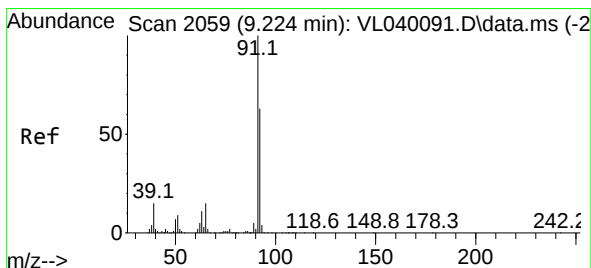
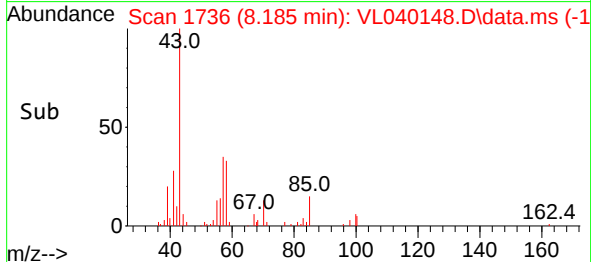
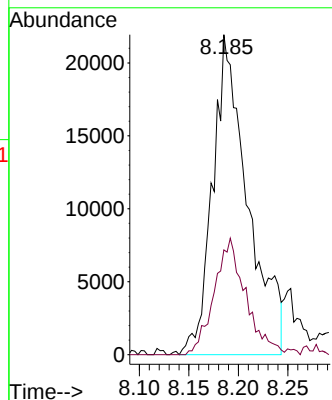
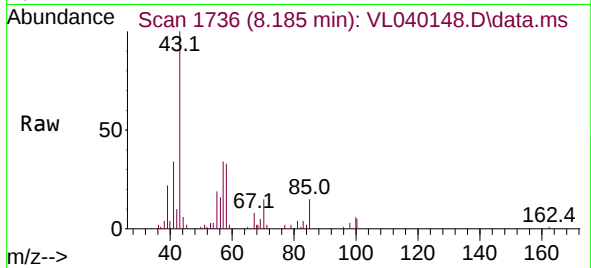
#50
4-Methyl-2-Pentanone
Concen: 0.289 ppbv m
RT: 8.185 min Scan# 1736
Delta R.T. 0.016 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 54128
Ion Ratio Lower Upper
43 100
58 33.0 28.8 43.2

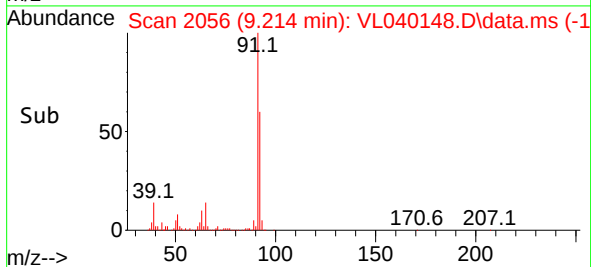
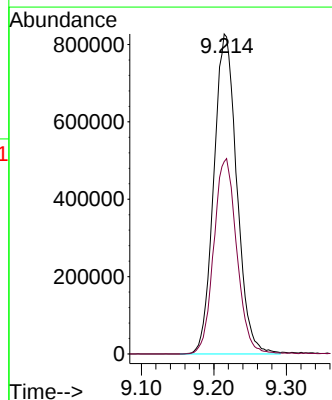
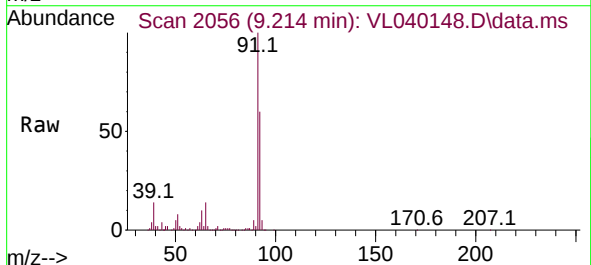
Manual Integrations
APPROVED

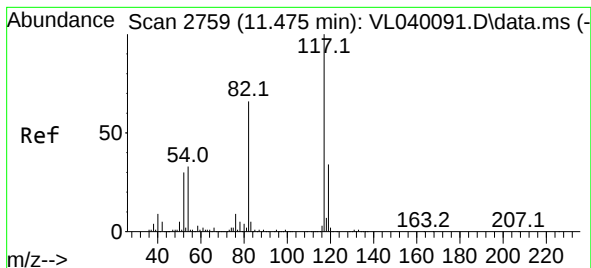
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#53
Toluene
Concen: 9.195 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

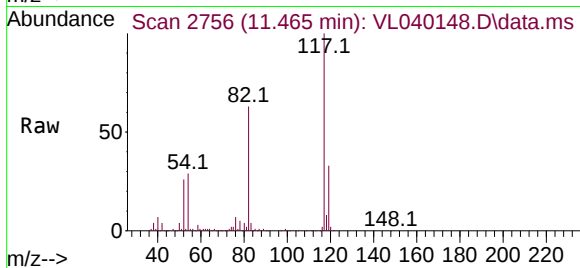
Tgt Ion: 91 Resp: 1823865
Ion Ratio Lower Upper
91 100
92 61.2 48.3 72.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 214439
Delta R.T. 0.007 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

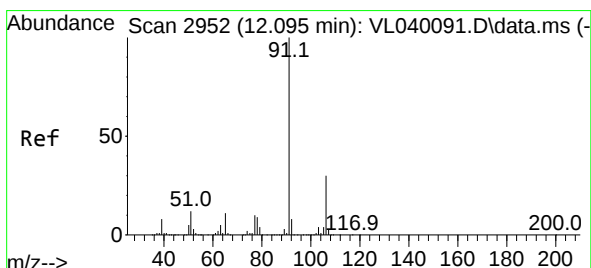
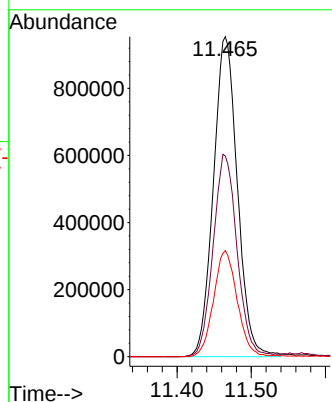
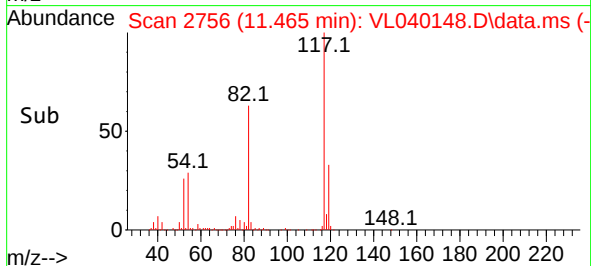
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 214439
Ion Ratio Lower Upper
117 100
82 63.3 54.4 81.6
119 33.0 26.8 40.2

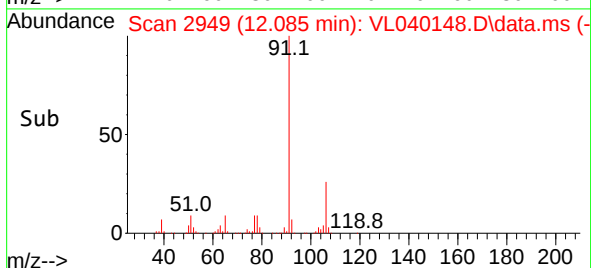
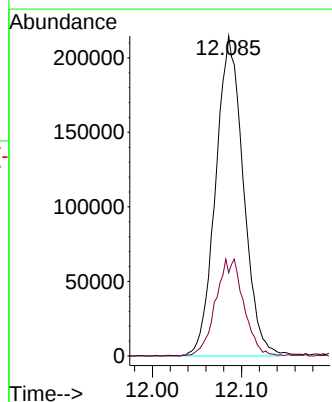
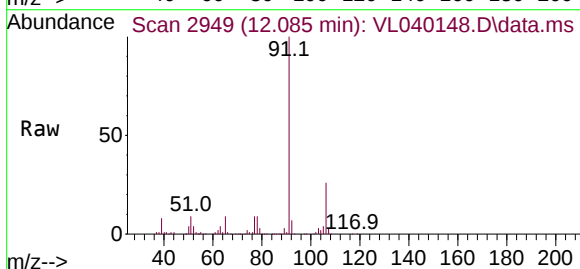
Manual Integrations
APPROVED

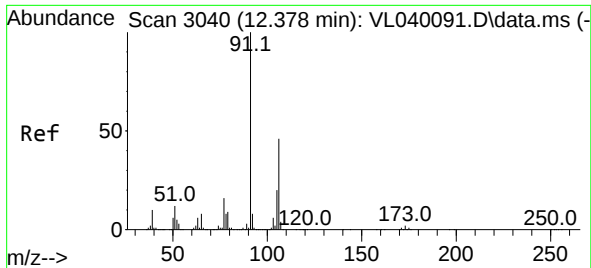
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#58
Ethyl Benzene
Concen: 1.937 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Tgt Ion: 91 Resp: 463517
Ion Ratio Lower Upper
91 100
106 26.0 23.7 35.5





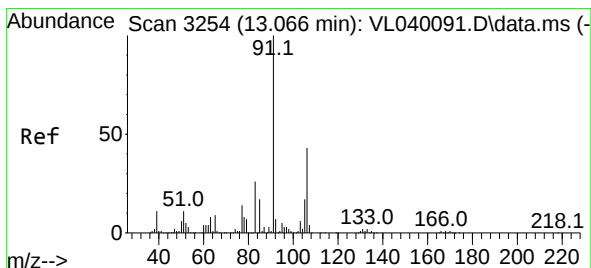
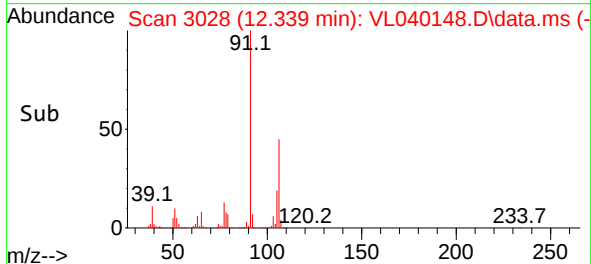
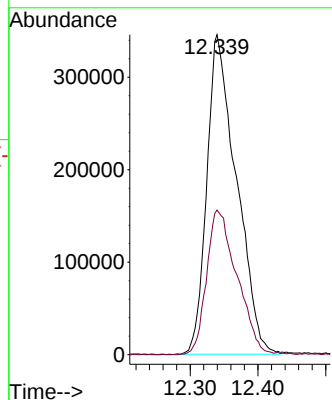
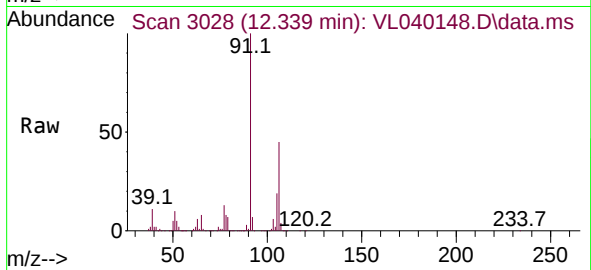
#59
m/p-Xylene
Concen: 4.860 ppbv
RT: 12.339 min Scan# 3040
Delta R.T. -0.026 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Instrument : MSVOA_L
ClientSampleId : IA1DUP

Tgt Ion: 91 Resp: 1045784
Ion Ratio Lower Upper
91 100
106 46.6 34.2 51.4

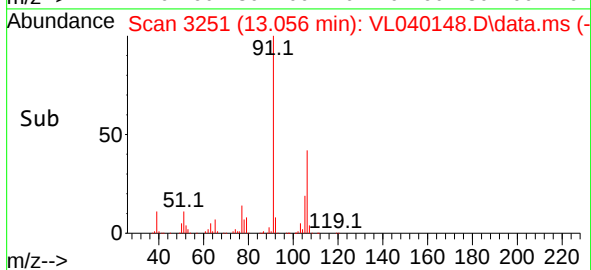
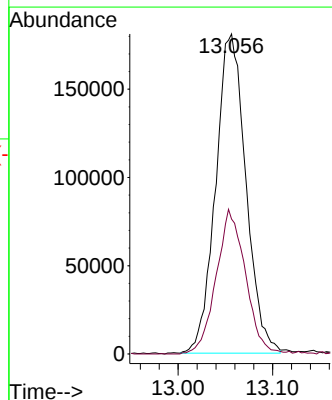
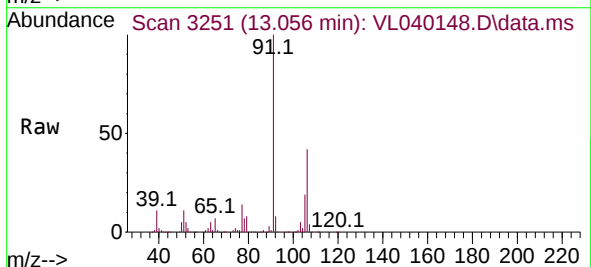
Manual Integrations
APPROVED

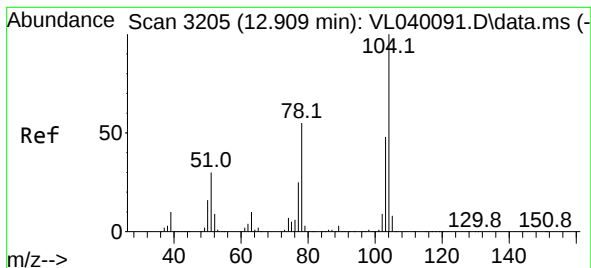
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#60
o-Xylene
Concen: 1.967 ppbv
RT: 13.056 min Scan# 3251
Delta R.T. 0.007 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Tgt Ion: 91 Resp: 401753
Ion Ratio Lower Upper
91 100
106 44.2 21.6 64.8





#61

Styrene

Concen: 0.229 ppbv m

RT: 12.905 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040148.D

Acq: 6 Feb 2023 16:25

Instrument :

MSVOA_L

ClientSampleId :

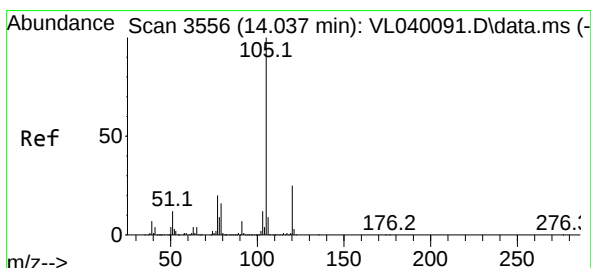
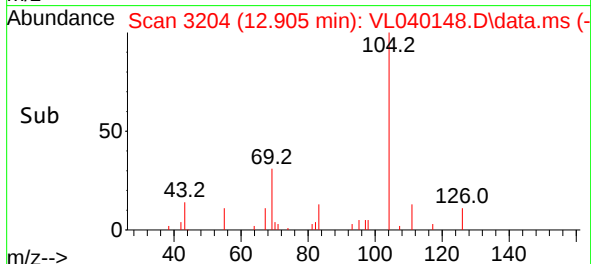
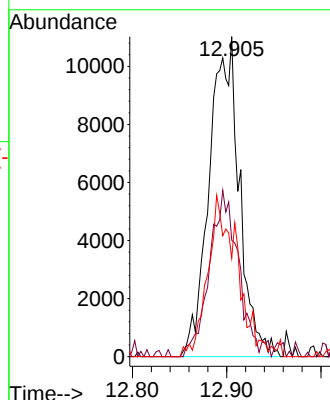
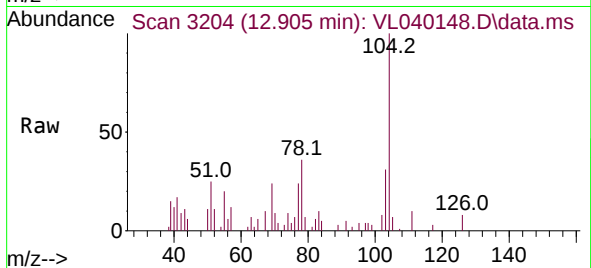
IA1DUP

Tgt Ion:104 Resp: 24404
 Ion Ratio Lower Upper
 104 100
 78 0.0 44.0 66.0
 103 0.0 37.8 56.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2023
 Supervised By :Mahesh Dadoda 02/08/2023



#62

Isopropylbenzene

Concen: 0.127 ppbv m

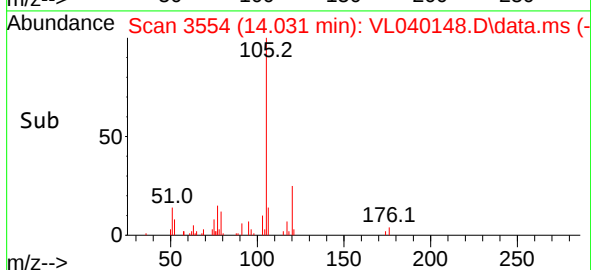
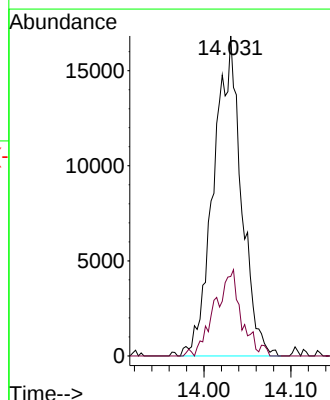
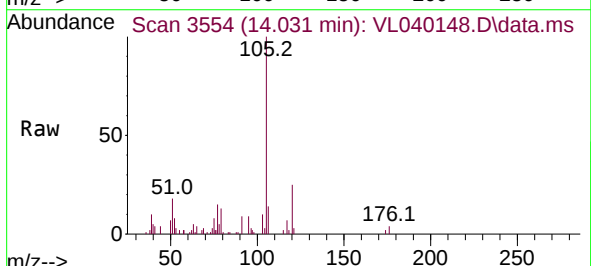
RT: 14.031 min Scan# 3554

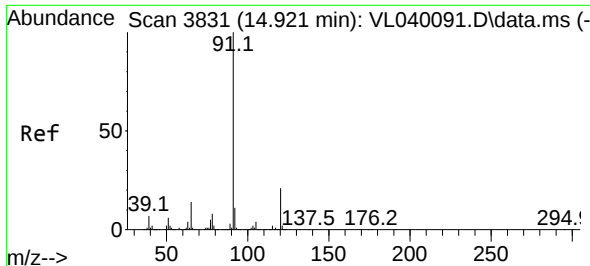
Delta R.T. 0.007 min

Lab File: VL040148.D

Acq: 6 Feb 2023 16:25

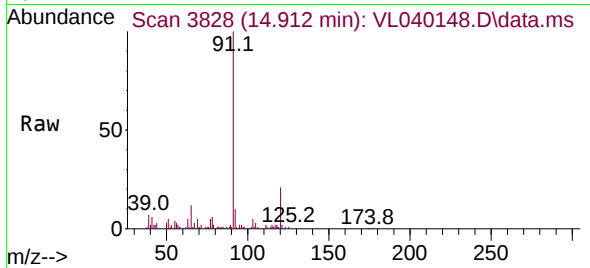
Tgt Ion:105 Resp: 37236
 Ion Ratio Lower Upper
 105 100
 120 25.9 20.2 30.2





#64
n-propylbenzene
Concen: 0.283 ppbv m
RT: 14.912 min Scan# 3828
Delta R.T. 0.000 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

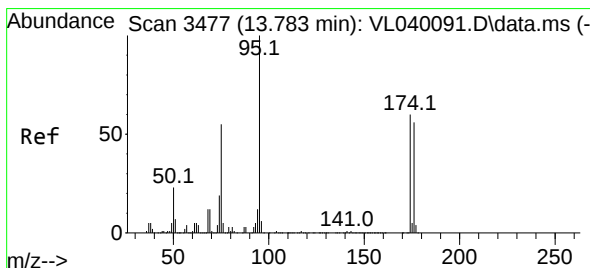
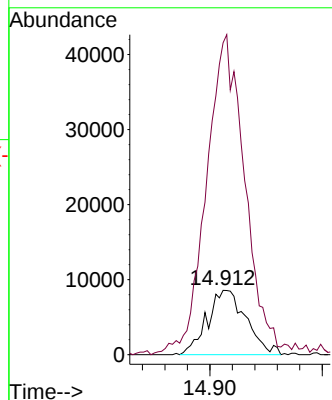
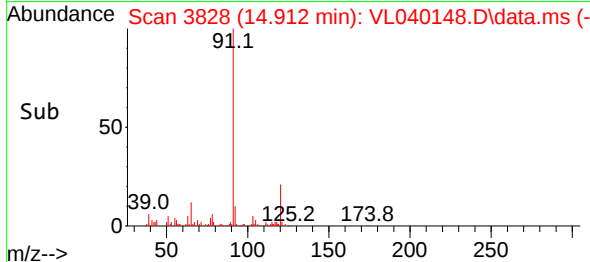
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:120 Resp: 20640
Ion Ratio Lower Upper
120 100
91 495.3 397.0 595.4

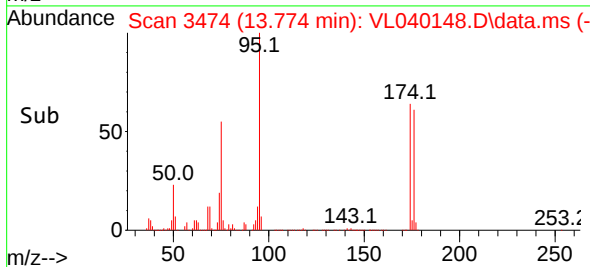
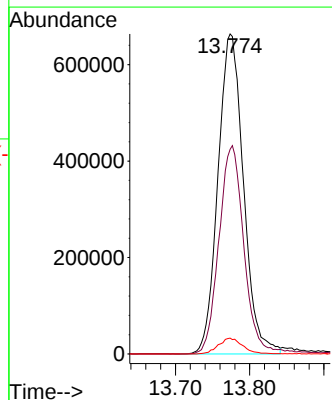
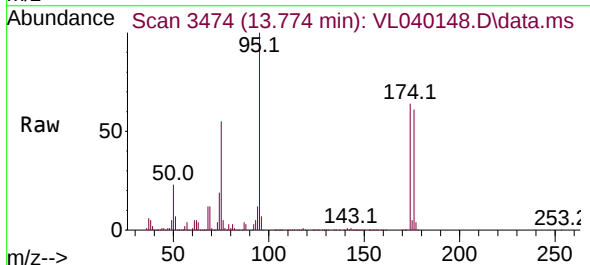
Manual Integrations
APPROVED

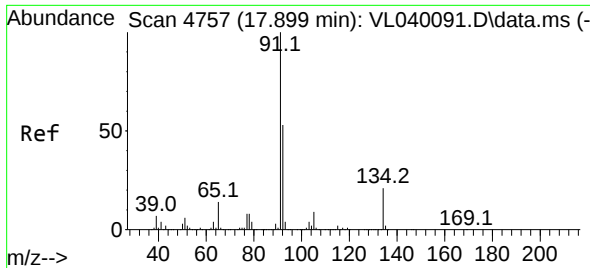
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 8.887 ppbv
RT: 13.774 min Scan# 3474
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Tgt Ion: 95 Resp: 1583830
Ion Ratio Lower Upper
95 100
174 64.1 47.7 71.5
175 4.7 3.4 5.2





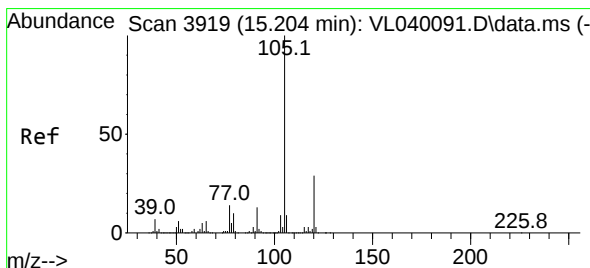
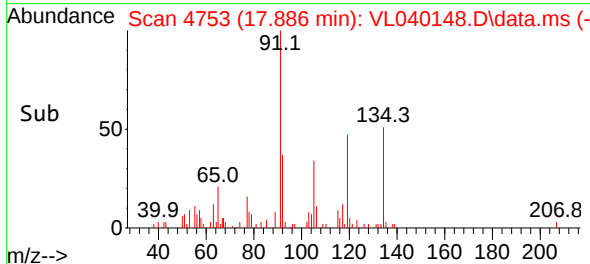
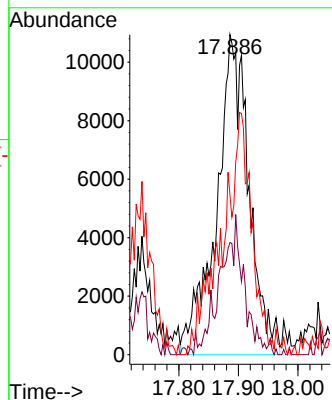
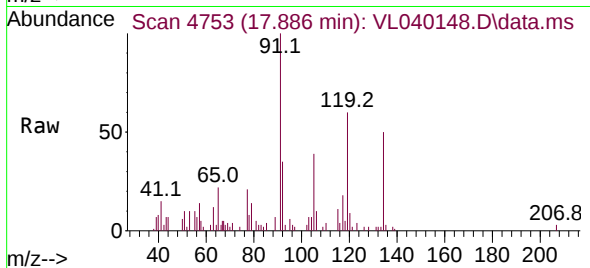
#70
n-Butylbenzene
Concen: 0.138 ppbv m
RT: 17.886 min Scan# 4176
Delta R.T. 0.003 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 4176
Ion Ratio Lower Upper
91 100
92 32.6 42.8 64.2
134 0.0 16.9 25.3

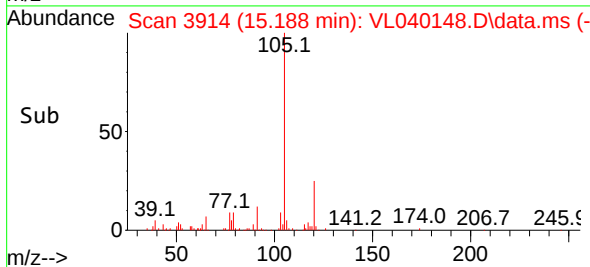
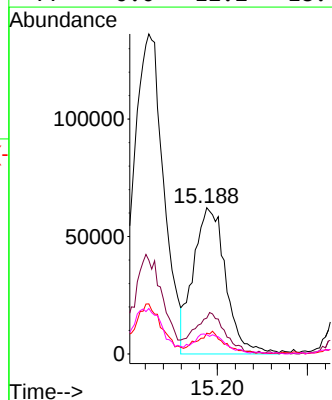
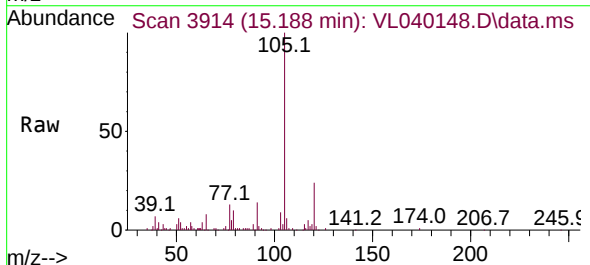
Manual Integrations
APPROVED

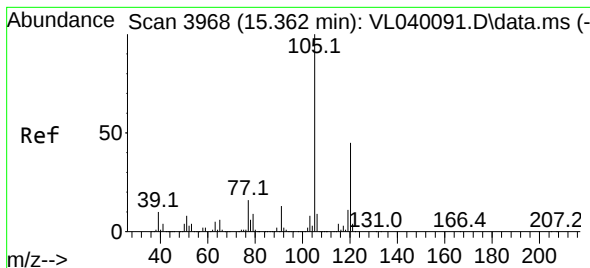
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#72
4-Ethyltoluene
Concen: 0.687 ppbv m
RT: 15.188 min Scan# 3914
Delta R.T. 0.000 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Tgt Ion:105 Resp: 155617
Ion Ratio Lower Upper
105 100
120 0.0 23.1 34.7#
91 0.0 11.2 16.8#
77 0.0 12.2 18.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.502 ppbv

RT: 15.352 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VL040148.D

Acq: 6 Feb 2023 16:25

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:105 Resp: 102472

Ion Ratio Lower Upper

105 100

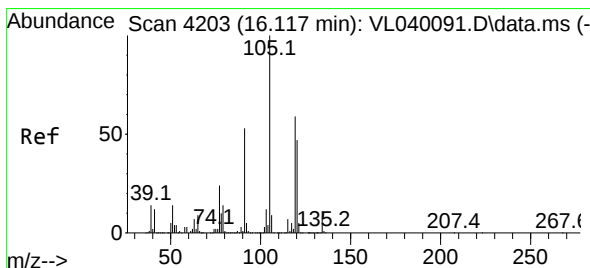
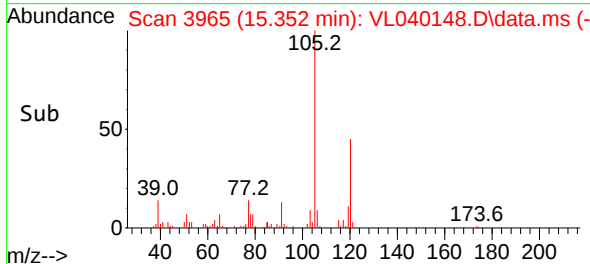
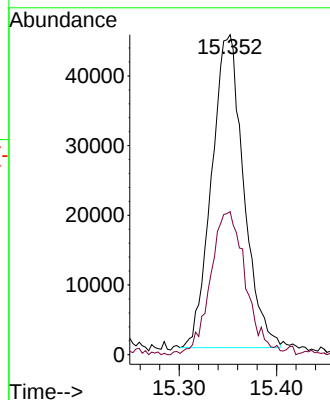
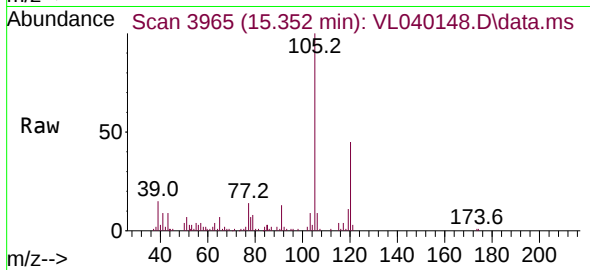
120 45.3 36.2 54.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2023

Supervised By :Mahesh Dadoda 02/08/2023



#74

1,2,4-Trimethylbenzene

Concen: 1.743 ppbv m

RT: 16.108 min Scan# 4200

Delta R.T. 0.007 min

Lab File: VL040148.D

Acq: 6 Feb 2023 16:25

Tgt Ion:105 Resp: 393973

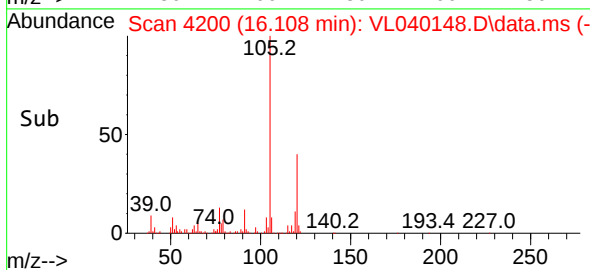
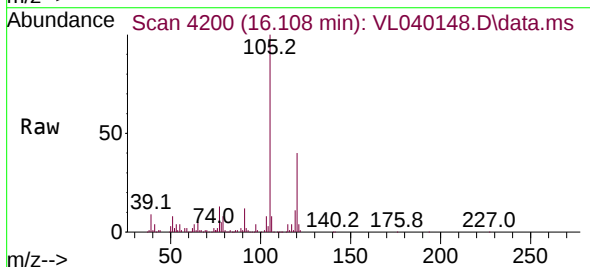
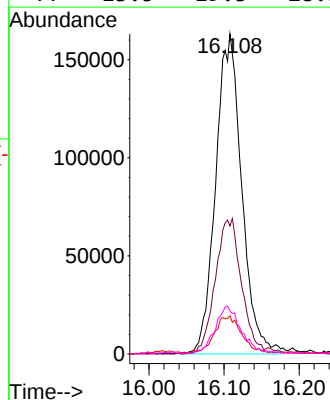
Ion Ratio Lower Upper

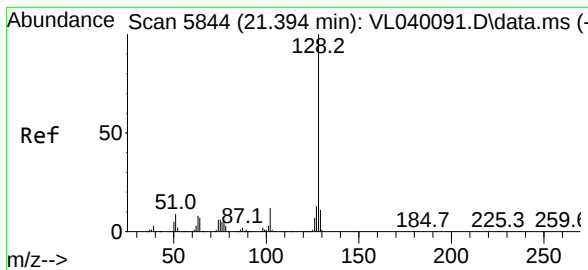
105 100

120 40.0 38.0 57.0

91 11.9 42.1 63.1#

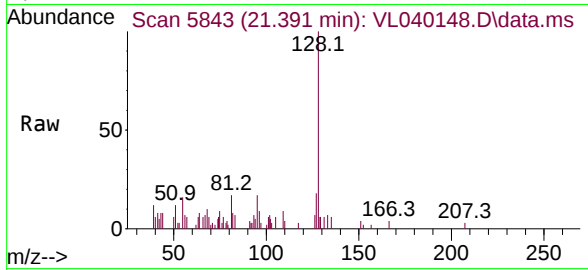
77 13.5 19.3 28.9#





#79
Naphthalene
Concen: 0.150 ppbv m
RT: 21.391 min Scan# 5843
Delta R.T. 0.013 min
Lab File: VL040148.D
Acq: 6 Feb 2023 16:25

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:128 Resp: 19392
Ion Ratio Lower Upper
128 100
127 17.7 10.3 15.5
129 6.1 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

