

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042402.D
 Acq On : 21 Apr 2025 13:38
 Operator : SY/MD
 Sample : Q1844-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

04/22/2025
 Supervised By : Mahesh
 Dadoda

Quant Time: Apr 22 02:53:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane	2.780	49	129429	10.000	ppbv	0.00	
33) 1,4-Difluorobenzene	3.949	114	363256	10.000	ppbv	0.00	
55) Chlorobenzene-d5	8.878	117	306838	10.000	ppbv	0.00	
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	266636	10.575	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%	
Target Compounds							
						Qvalue	
2) Dichlorodifluoromethane	1.495	85	9277	0.406	ppbv		99
4) Chloromethane	1.531	50	4494	0.497	ppbv		99
9) Propene	1.486	41	973005m	98.117	ppbv		
10) Heptane	4.978	43	9647m	0.346	ppbv		
11) Trichlorofluoromethane	1.871	101	4989m	0.229	ppbv		
13) Ethanol	1.751	45	6709644	4256.821	ppbv		85
15) Acetone	1.835	43	480705	22.688	ppbv	#	87
17) tert-Butyl alcohol	2.049	59	134017	5.104	ppbv		99
19) Isopropyl Alcohol	1.894	45	1797369	152.706	ppbv	#	42
20) Methylene Chloride	2.059	84	4958	0.598	ppbv	#	91
26) Hexane	2.822	57	14222	0.673	ppbv		88
30) Cyclohexane	3.842	84	3232m	0.189	ppbv		
34) 2-Butanone	2.560	43	19570	0.681	ppbv		94
35) Carbon Tetrachloride	3.761	117	2281m	0.069	ppbv		
36) Benzene	3.651	78	489138	12.484	ppbv		95
44) 2,2,4-Trimethylpentane	4.635	57	21675	0.320	ppbv	#	75
52) Tetrachloroethene	8.221	164	292573	19.319	ppbv		90
53) Toluene	6.923	91	91866	1.954	ppbv		100
58) Ethyl Benzene	9.347	91	17207	0.283	ppbv		91
59) m/p-Xylene	9.529	91	38575m	0.788	ppbv		
60) o-Xylene	9.962	91	15784	0.320	ppbv		99
61) Styrene	9.869	104	8361	0.355	ppbv		94
69) p-Isopropyltoluene	11.921	119	8280	0.103	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	14087	0.227	ppbv	#	65
79) Naphthalene	13.510	128	38319	0.515	ppbv		96

04/22/2025

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042402.D
Acq On : 21 Apr 2025 13:38
Operator : SY/MD
Sample : Q1844-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

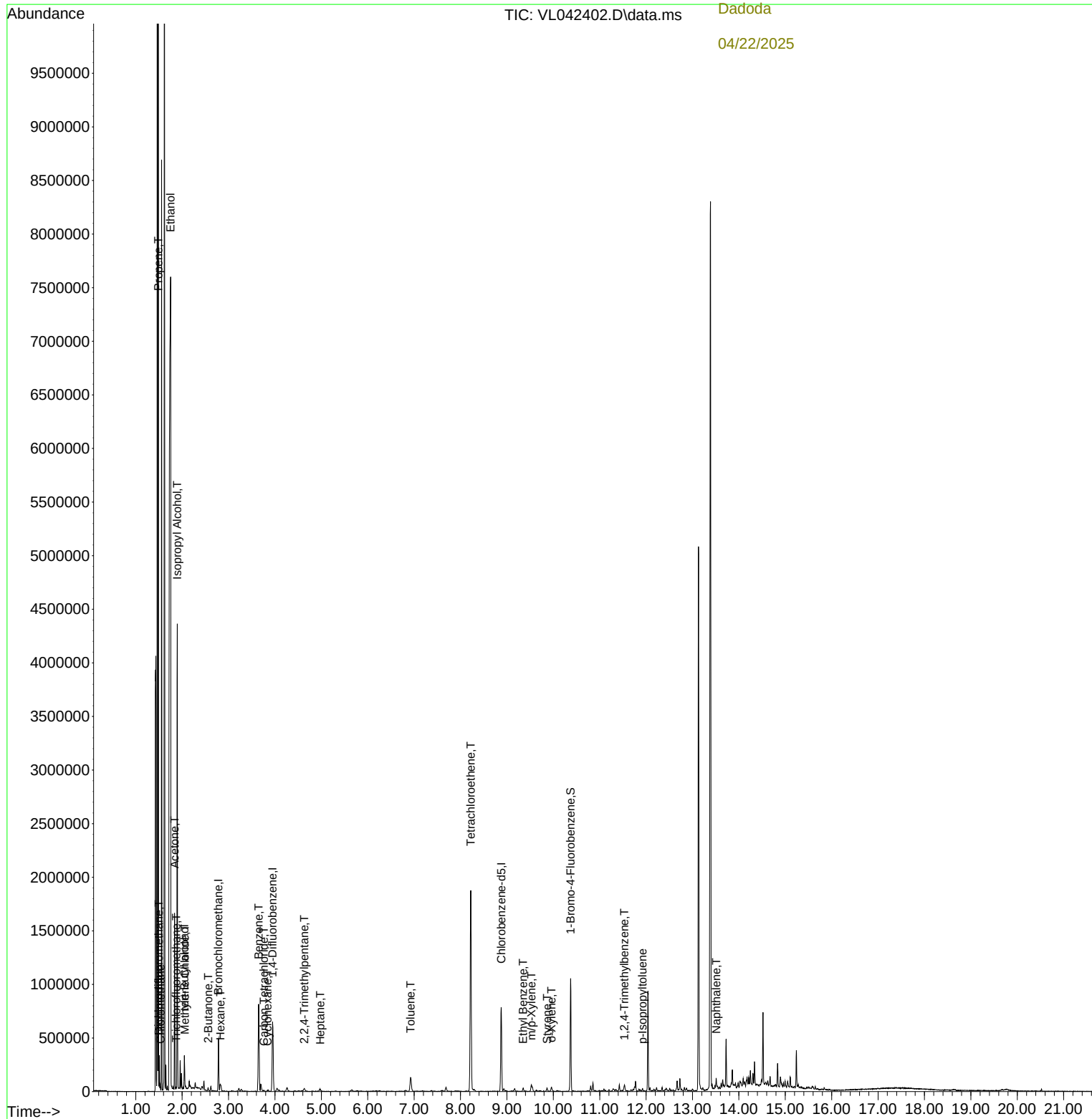
Instrument :
MSVOA_L
ClientSampleId :
IA1

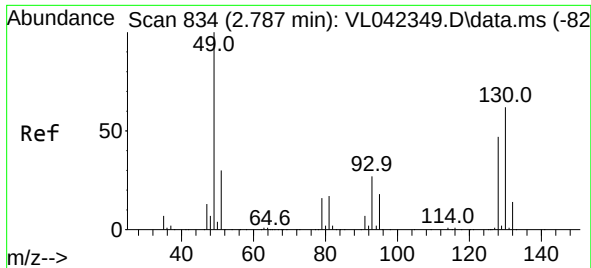
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

04/22/2025
Supervised By :Mahesh
Dadoda

04/22/2025





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.780 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 49	Resp: 129429
Ion Ratio	Lower Upper
49 100	
128 44.5	22.8 68.4
130 58.2	29.3 88.0

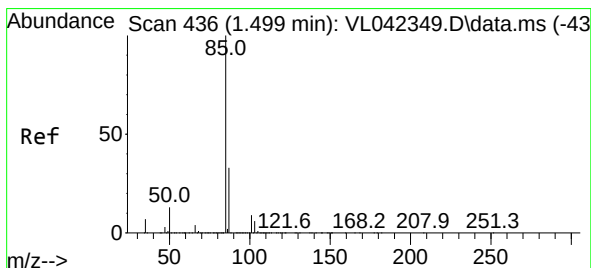
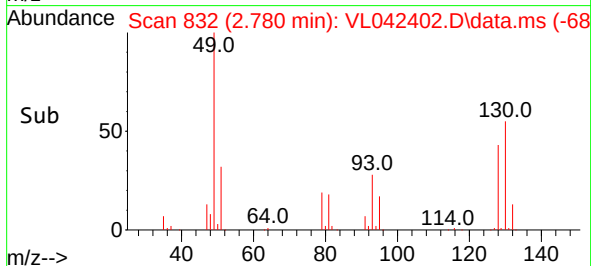
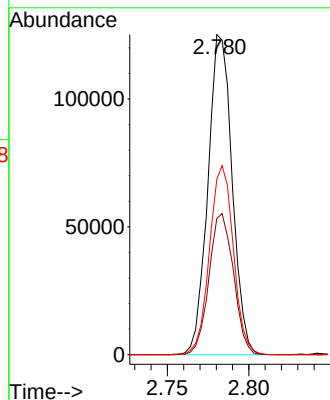
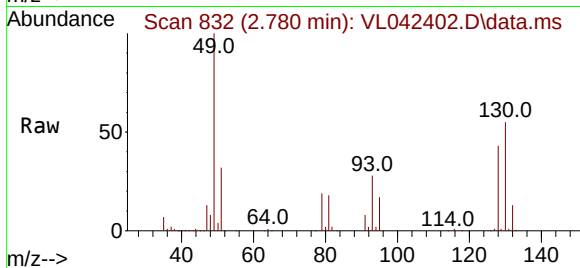
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

04/22/2025

Supervised By :Mahesh
Dadoda

04/22/2025



#2

Dichlorodifluoromethane

Concen: 0.406 ppbv

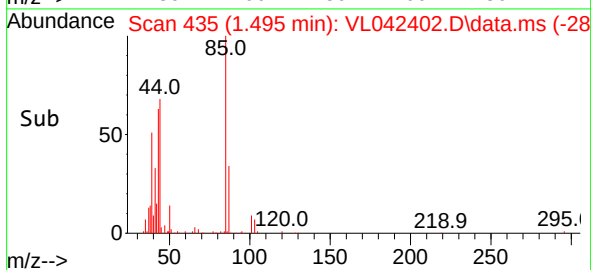
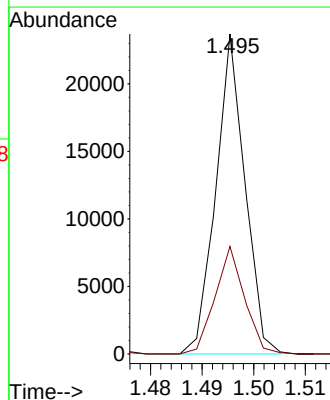
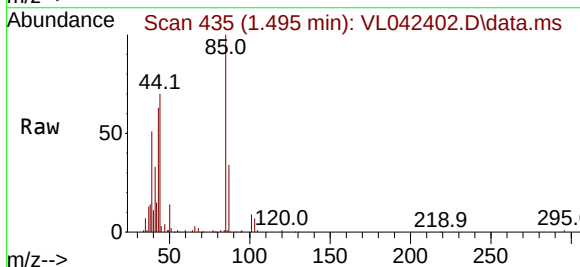
RT: 1.495 min Scan# 435

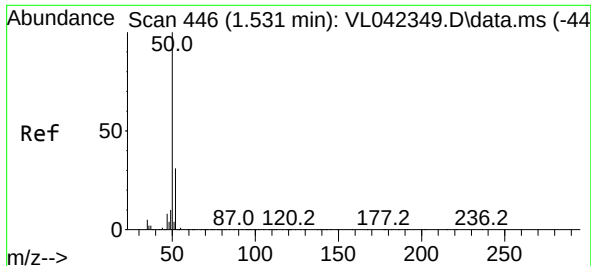
Delta R.T. -0.003 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

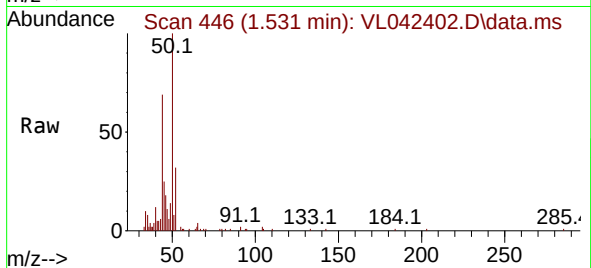
Tgt Ion: 85	Resp: 9277
Ion Ratio	Lower Upper
85 100	
87 33.6	26.6 39.8





#4
Chloromethane
Concen: 0.497 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



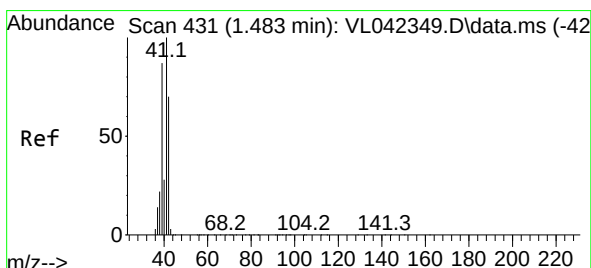
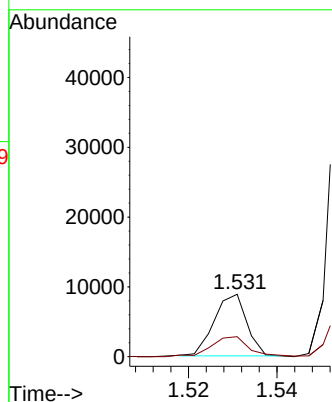
Tgt Ion: 50 Resp: 4494
Ion Ratio Lower Upper
50 100
52 30.1 24.7 37.1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

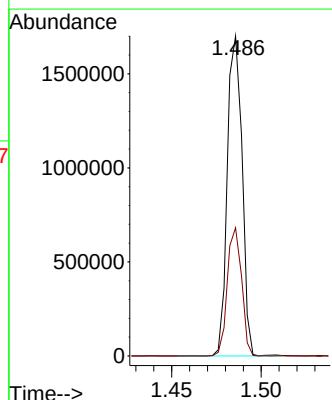
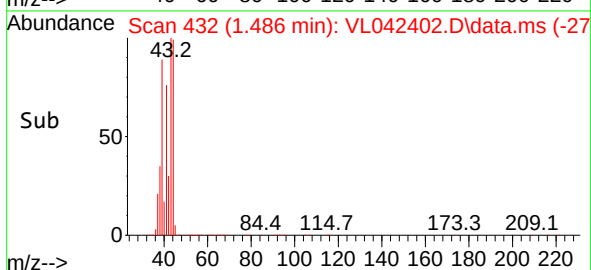
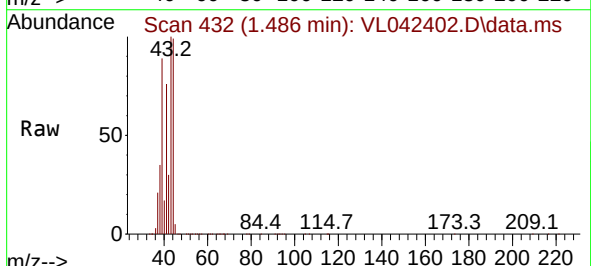
04/22/2025
Supervised By :Mahesh
Dadoda

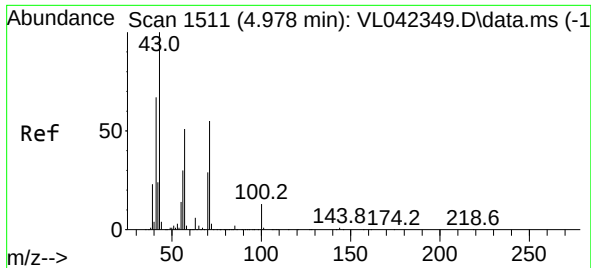
04/22/2025



#9
Propene
Concen: 98.117 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

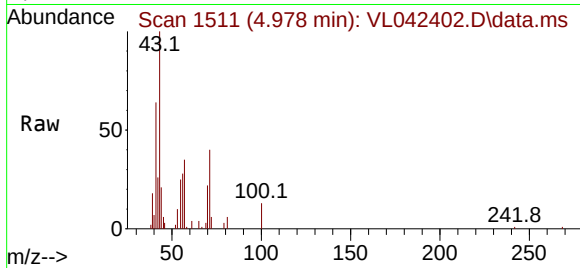
Tgt Ion: 41 Resp: 973005
Ion Ratio Lower Upper
41 100
42 86.1 56.2 84.4#





#10
Heptane
Concen: 0.346 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



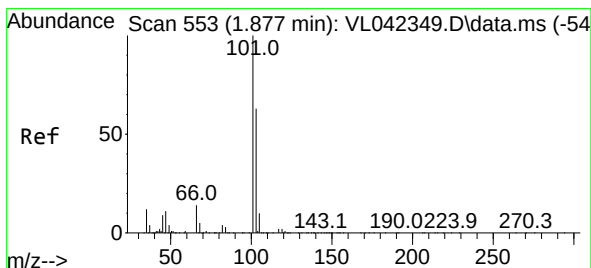
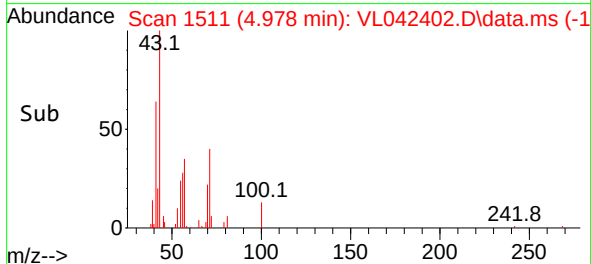
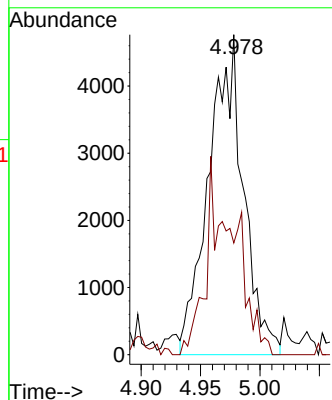
Tgt Ion: 43 Resp: 964
Ion Ratio Lower Upper
43 100
57 50.0 39.9 59.9

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

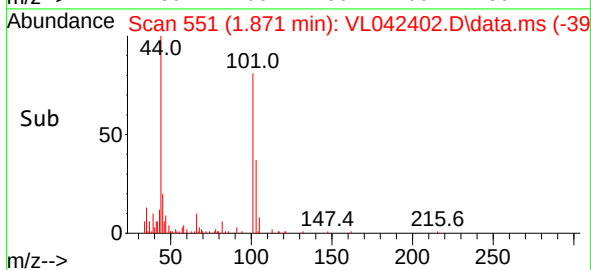
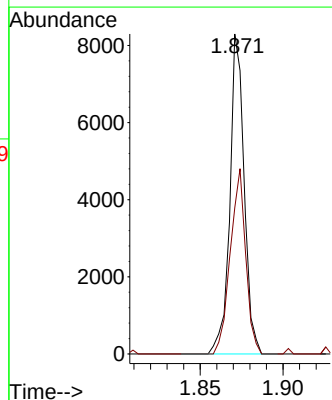
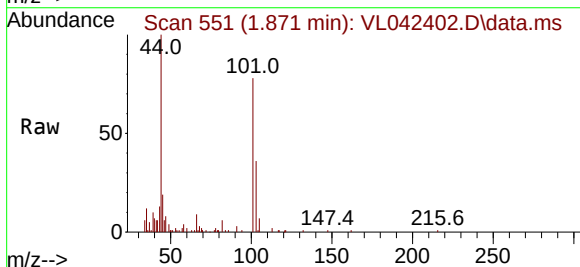
04/22/2025
Supervised By :Mahesh
Dadoda

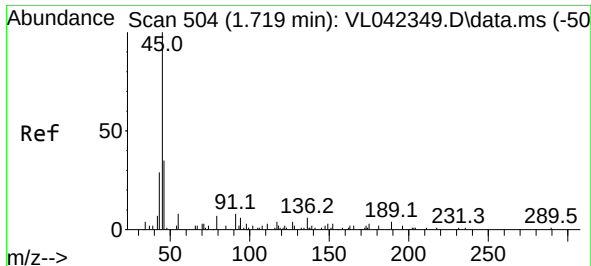
04/22/2025



#11
Trichlorofluoromethane
Concen: 0.229 ppbv m
RT: 1.871 min Scan# 551
Delta R.T. -0.007 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

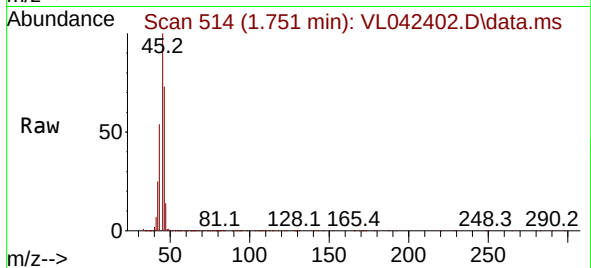
Tgt Ion:101 Resp: 4989
Ion Ratio Lower Upper
101 100
103 45.7 50.1 75.1#





#13
Ethanol
Concen: 4256.821 ppbv
RT: 1.751 min Scan# 514
Delta R.T. 0.032 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



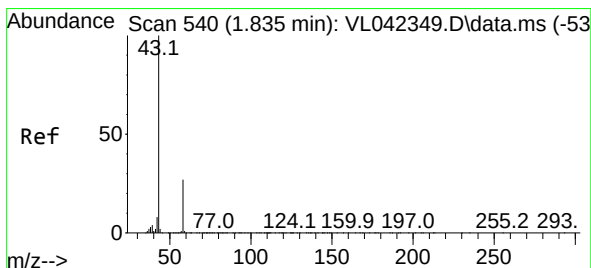
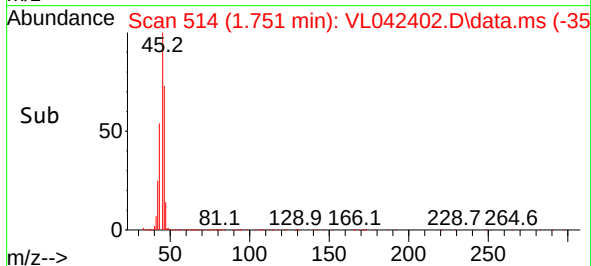
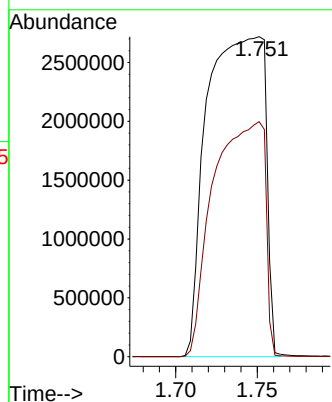
Tgt Ion: 45 Resp: 6709644
Ion Ratio Lower Upper
45 100
46 65.6 21.9 87.7

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

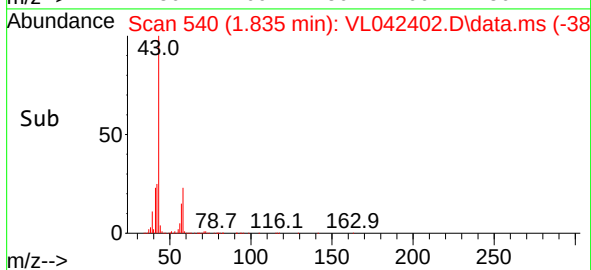
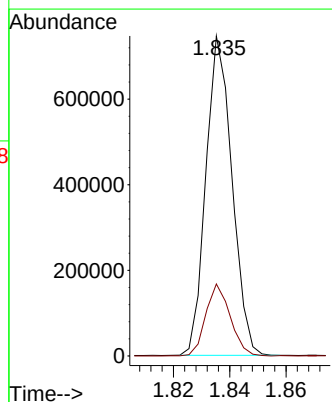
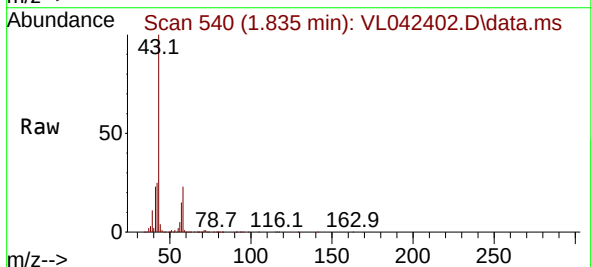
04/22/2025
Supervised By :Mahesh
Dadoda

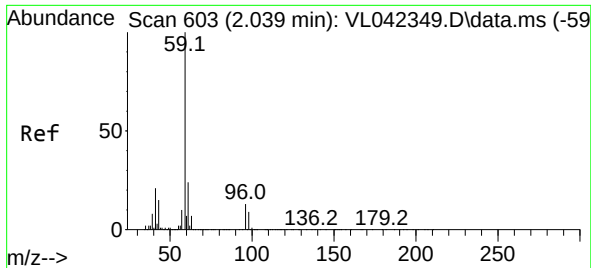
04/22/2025



#15
Acetone
Concen: 22.688 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Tgt Ion: 43 Resp: 480705
Ion Ratio Lower Upper
43 100
58 21.3 22.4 33.6#





#17
tert-Butyl alcohol
Concen: 5.104 ppbv
RT: 2.049 min Scan# 603
Delta R.T. 0.010 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1

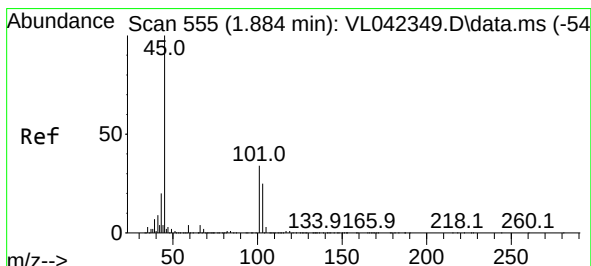
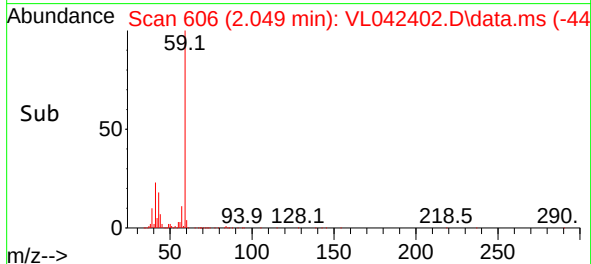
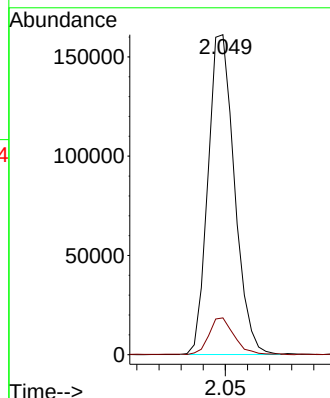
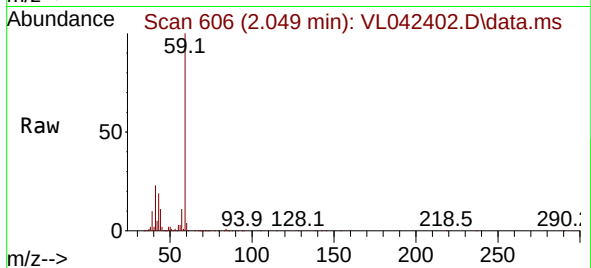
Tgt Ion: 59 Resp: 13401
Ion Ratio Lower Upper
59 100
57 11.1 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

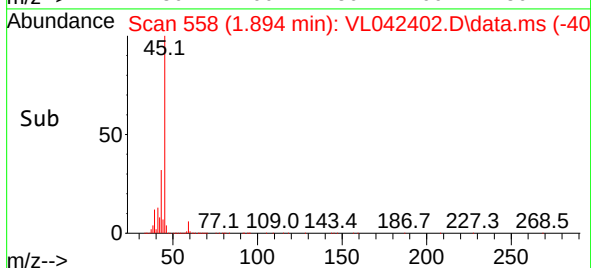
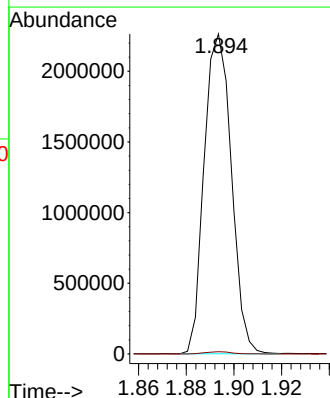
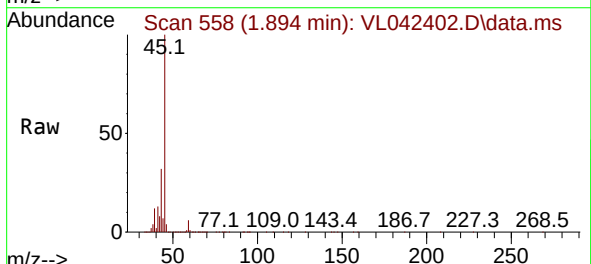
04/22/2025
Supervised By :Mahesh
Dadoda

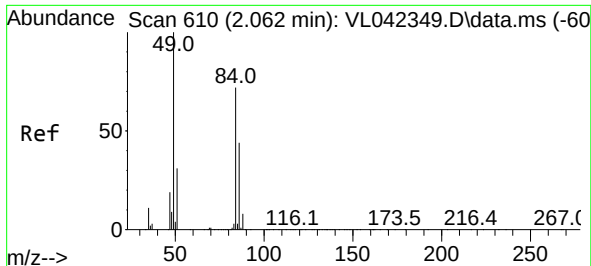
04/22/2025



#19
Isopropyl Alcohol
Concen: 152.706 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

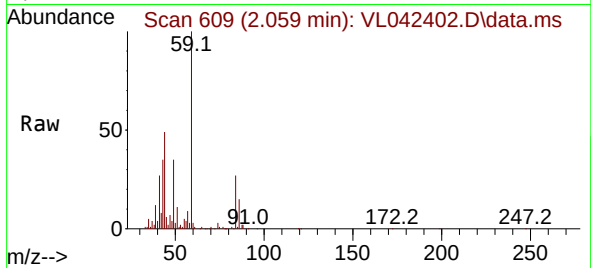
Tgt Ion: 45 Resp: 1797369
Ion Ratio Lower Upper
45 100
58 5.7 34.5 51.7#





#20
Methylene Chloride
Concen: 0.598 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



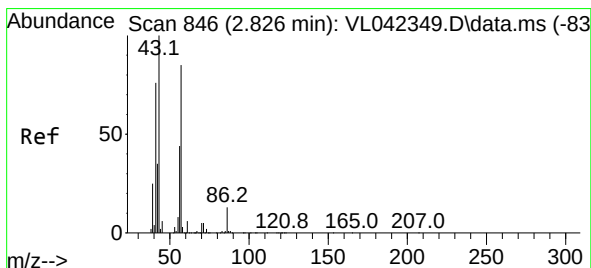
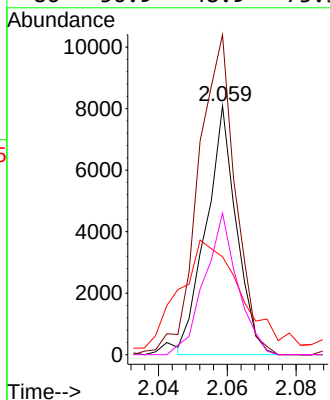
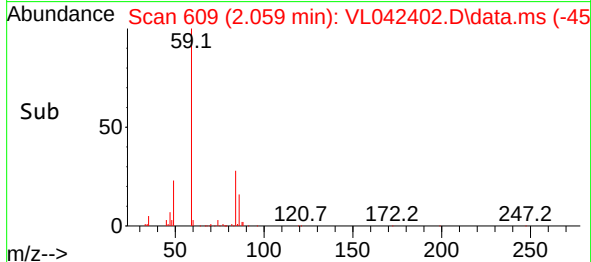
Tgt Ion: 84 Resp: 4958
Ion Ratio Lower Upper
84 100
49 128.6 111.6 167.4
51 33.7 35.1 52.7
86 56.9 48.9 73.3

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

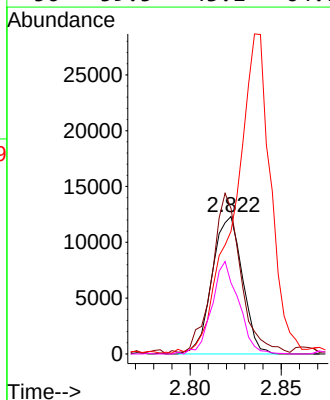
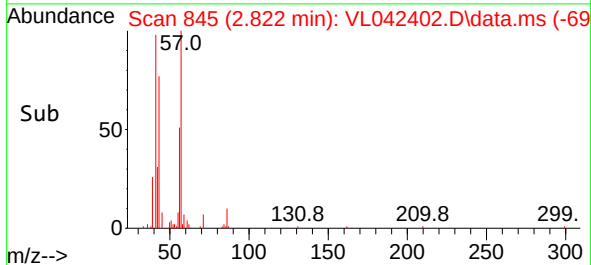
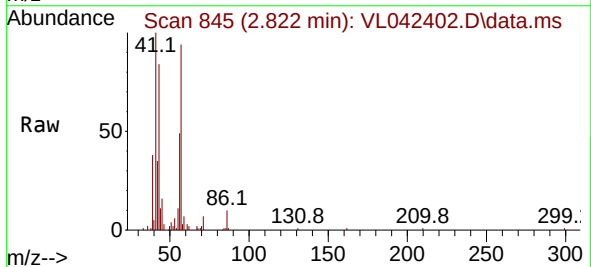
04/22/2025
Supervised By :Mahesh
Dadoda

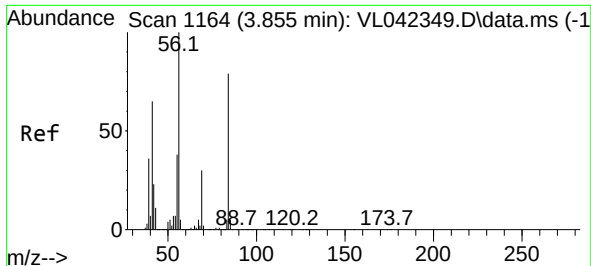
04/22/2025



#26
Hexane
Concen: 0.673 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

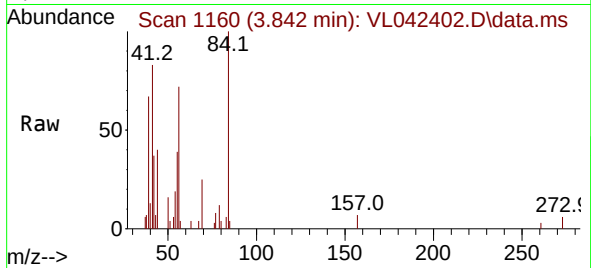
Tgt Ion: 57 Resp: 14222
Ion Ratio Lower Upper
57 100
41 112.1 77.9 116.9
43 281.7 208.4 312.6
56 59.5 43.1 64.7





#30
Cyclohexane
Concen: 0.189 ppbv m
RT: 3.842 min Scan# 1160
Delta R.T. -0.013 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



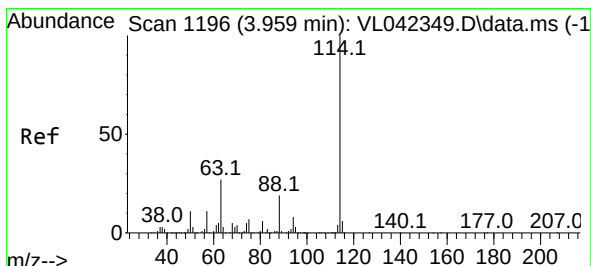
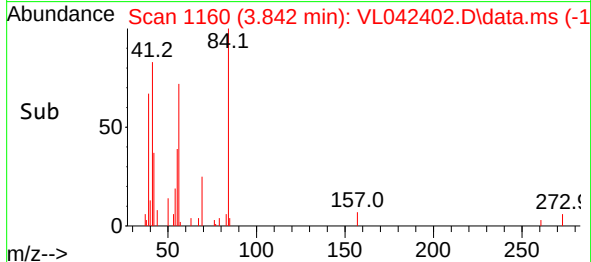
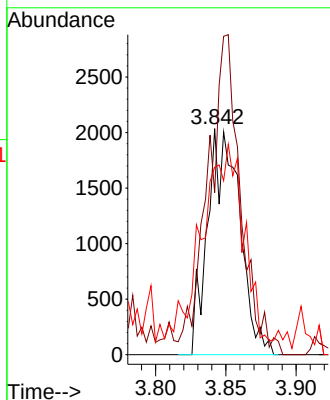
Tgt Ion: 84 Resp: 3232
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4
41 0.0 67.4 101.0

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

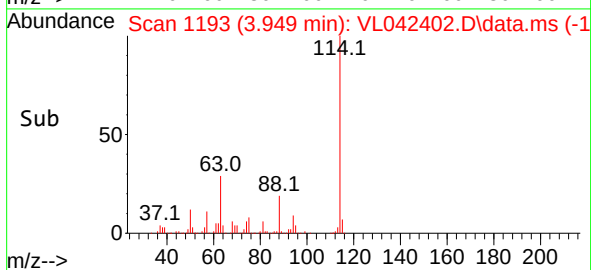
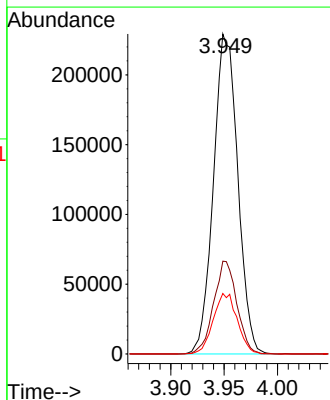
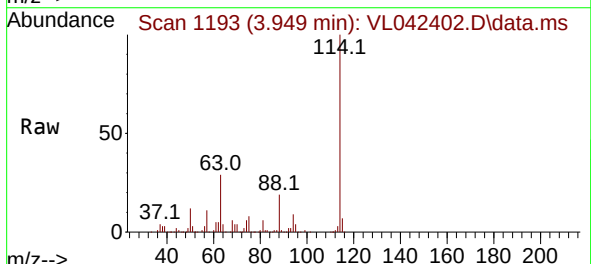
04/22/2025
Supervised By :Mahesh
Dadoda

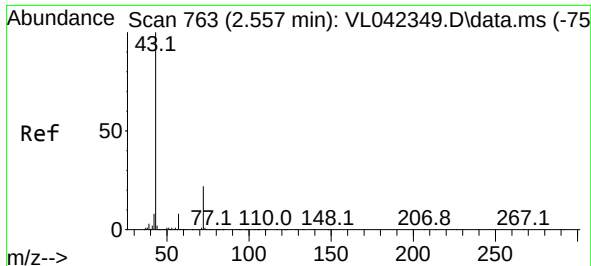
04/22/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.010 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

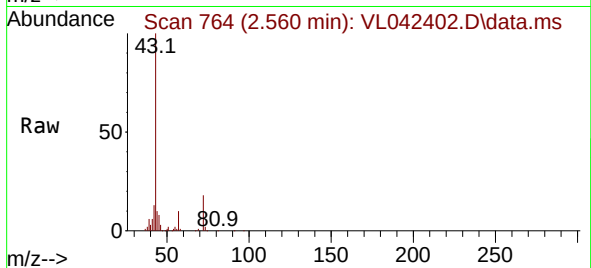
Tgt Ion:114 Resp: 363256
Ion Ratio Lower Upper
114 100
63 27.7 21.8 32.6
88 18.7 15.5 23.3





#34
2-Butanone
Concen: 0.681 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



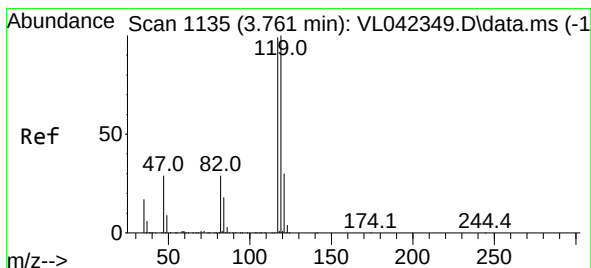
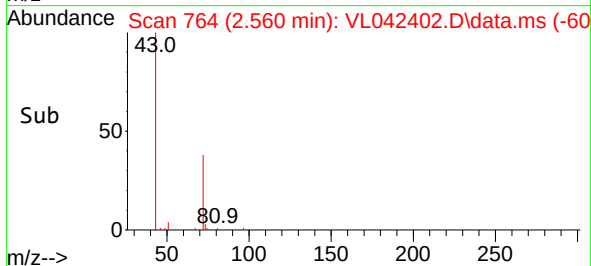
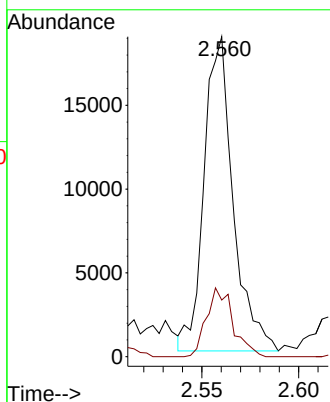
Tgt Ion: 43 Resp: 19570
Ion Ratio Lower Upper
43 100
72 20.0 18.2 27.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

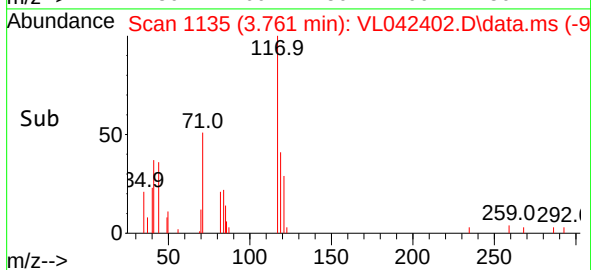
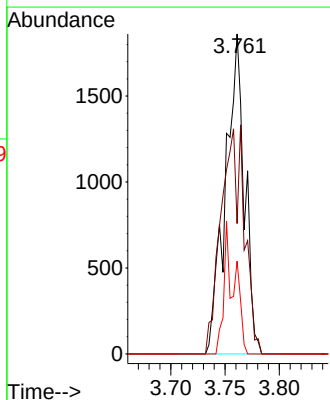
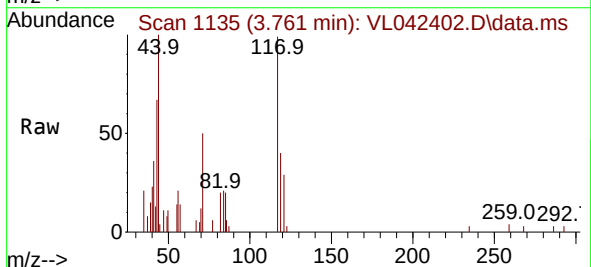
04/22/2025
Supervised By :Mahesh
Dadoda

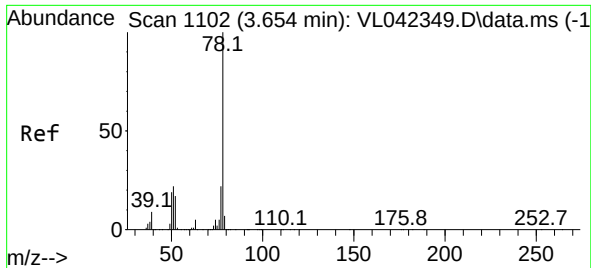
04/22/2025



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

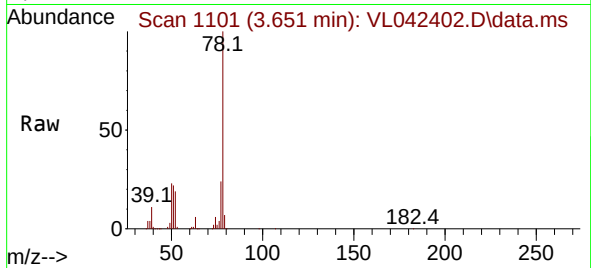
Tgt Ion:117 Resp: 2281
Ion Ratio Lower Upper
117 100
119 40.7 80.5 120.7#
121 29.0 24.2 36.2





#36
Benzene
Concen: 12.484 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



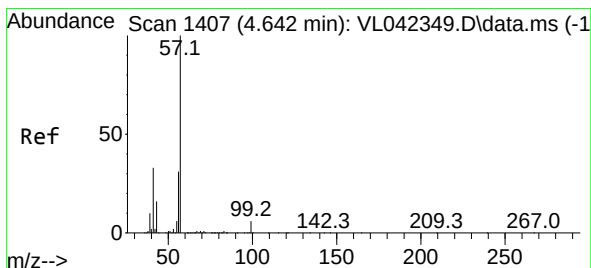
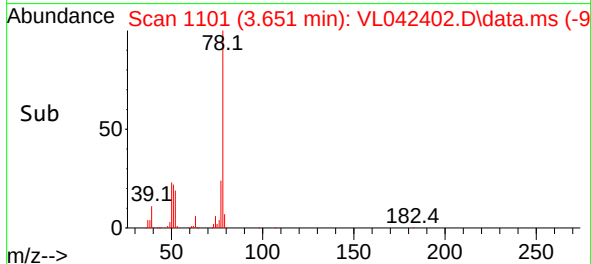
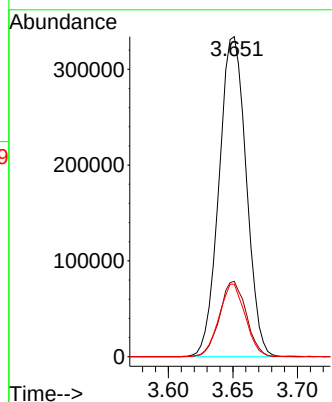
Tgt Ion: 78 Resp: 489138
Ion Ratio Lower Upper
78 100
77 23.5 17.4 26.0
50 22.6 15.5 23.3

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

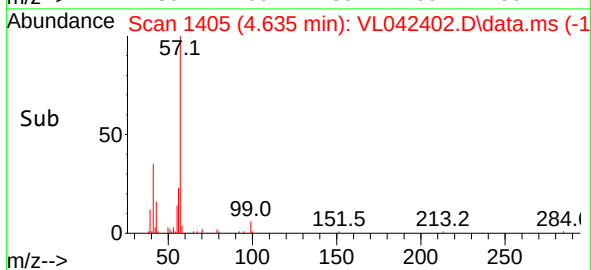
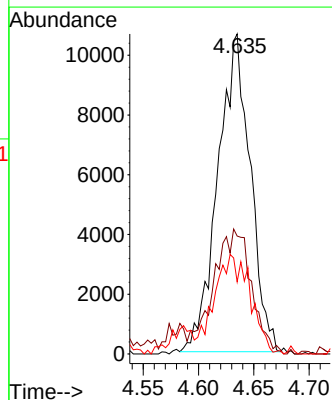
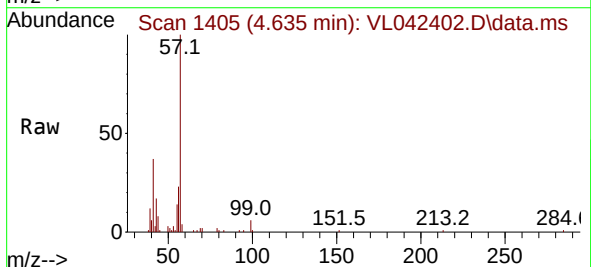
04/22/2025
Supervised By :Mahesh
Dadoda

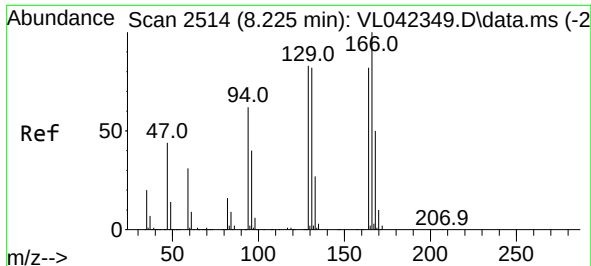
04/22/2025



#44
2,2,4-Trimethylpentane
Concen: 0.320 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.007 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

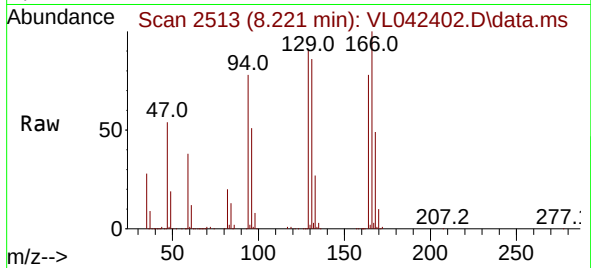
Tgt Ion: 57 Resp: 21675
Ion Ratio Lower Upper
57 100
41 53.1 27.2 40.8#
56 41.0 25.7 38.5#





#52
Tetrachloroethene
Concen: 19.319 ppbv
RT: 8.221 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



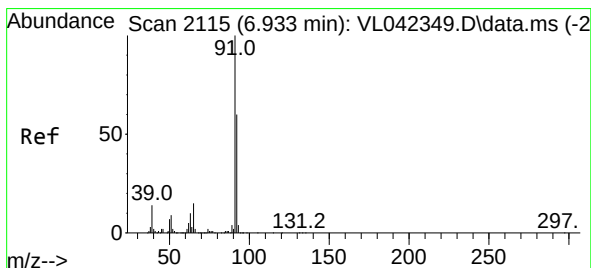
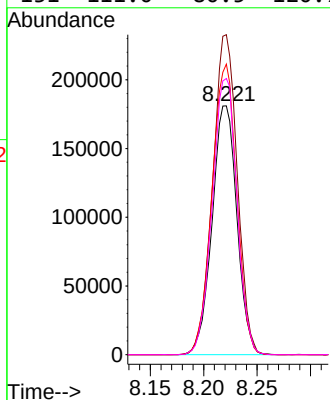
Tgt Ion:164 Resp: 29257
Ion Ratio Lower Upper
164 100
166 128.6 98.2 147.2
129 116.8 81.8 122.8
131 111.0 80.5 120.7

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

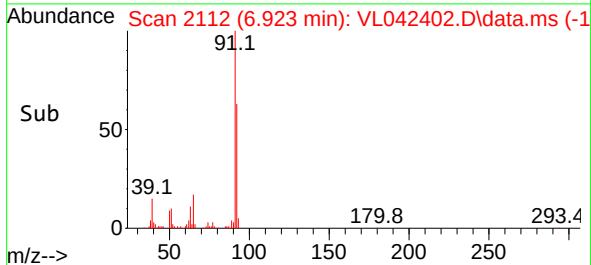
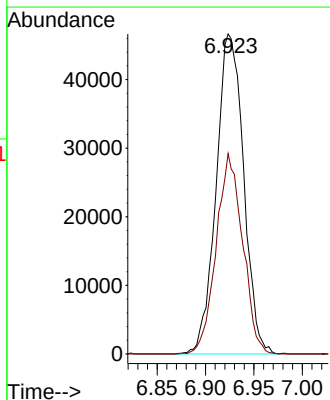
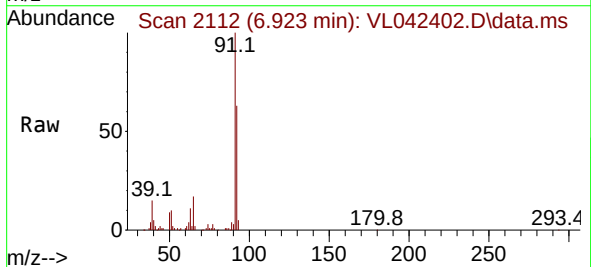
04/22/2025
Supervised By :Mahesh
Dadoda

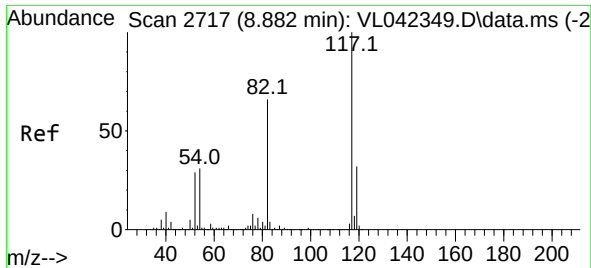
04/22/2025



#53
Toluene
Concen: 1.954 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

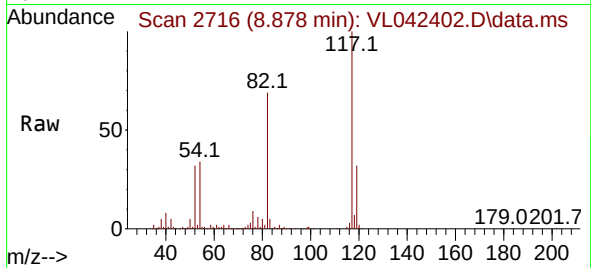
Tgt Ion: 91 Resp: 91866
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



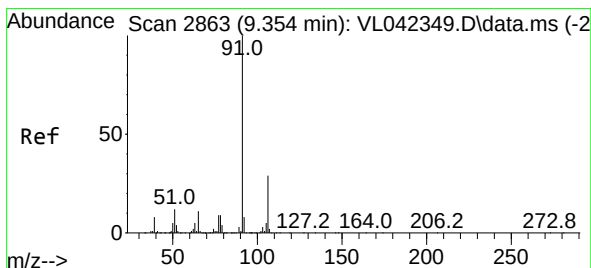
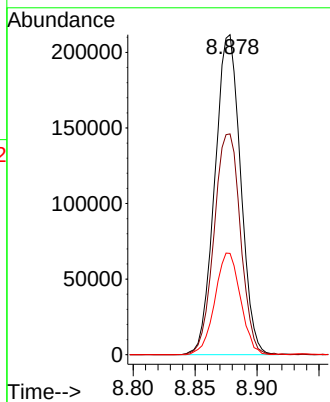
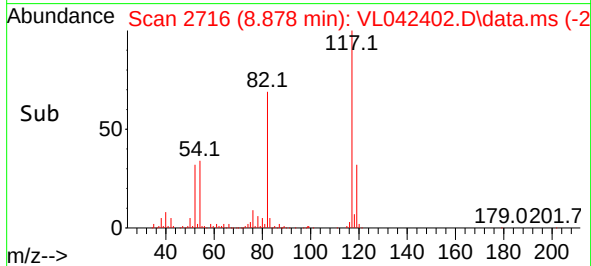
Tgt Ion: 117 Resp: 306838
Ion Ratio Lower Upper
117 100
82 70.7 57.8 86.6
119 31.6 25.2 37.8

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

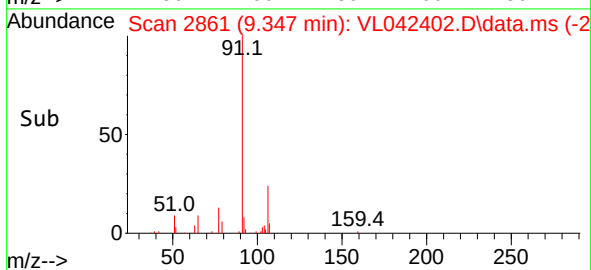
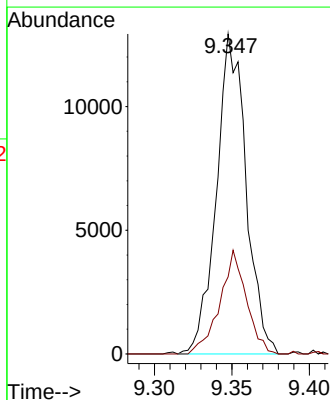
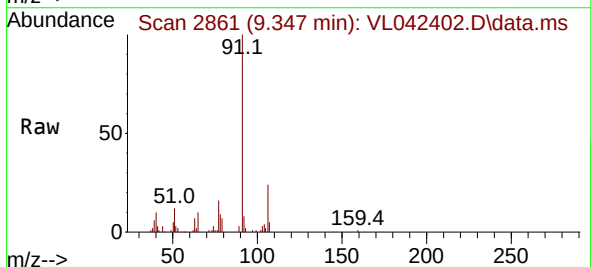
04/22/2025
Supervised By :Mahesh
Dadoda

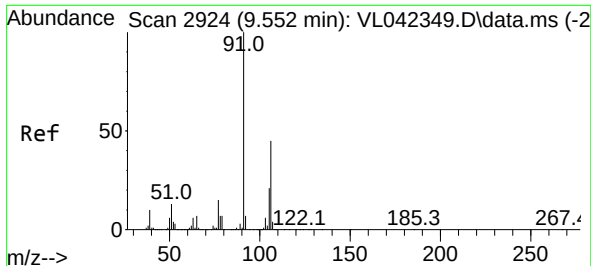
04/22/2025



#58
Ethyl Benzene
Concen: 0.283 ppbv
RT: 9.347 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Tgt Ion: 91 Resp: 17207
Ion Ratio Lower Upper
91 100
106 24.1 23.0 34.4





#59

m/p-Xylene

Concen: 0.788 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 3857
 Ion Ratio Lower Upper
 91 100
 106 0.0 35.4 53.2

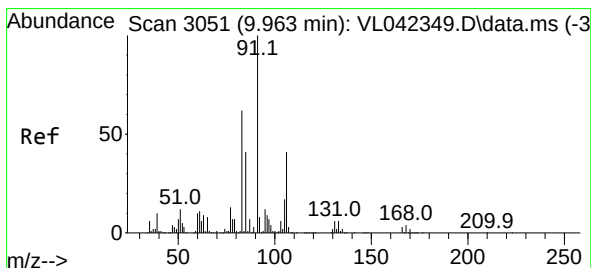
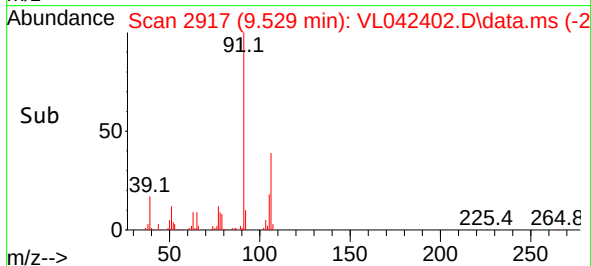
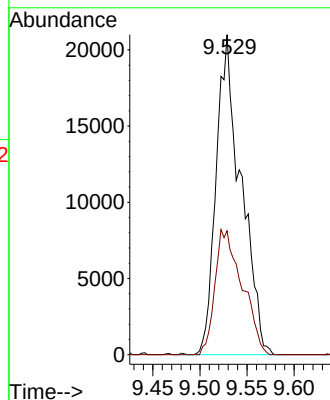
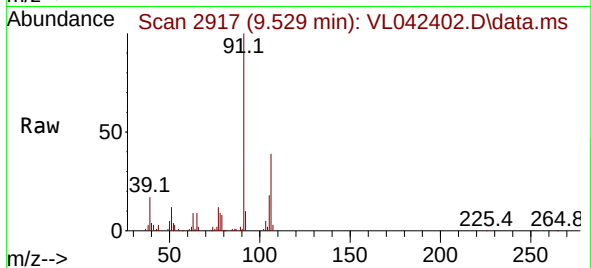
Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt

04/22/2025

Supervised By :Mahesh
 Dadoda

04/22/2025



#60

o-Xylene

Concen: 0.320 ppbv

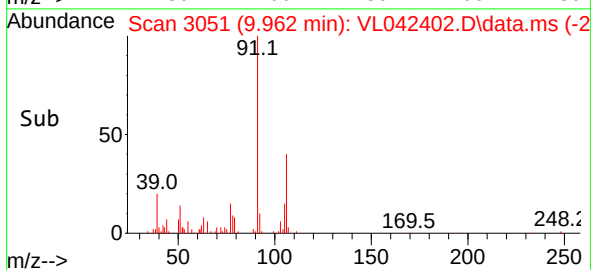
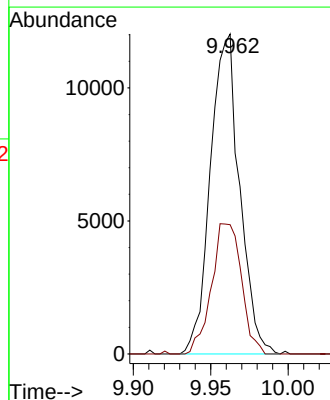
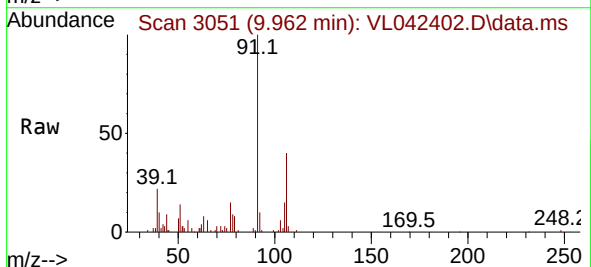
RT: 9.962 min Scan# 3051

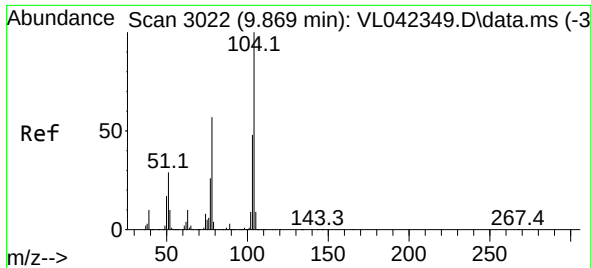
Delta R.T. -0.000 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

Tgt Ion: 91 Resp: 15784
 Ion Ratio Lower Upper
 91 100
 106 41.6 21.1 63.4





#61
Styrene
Concen: 0.355 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1

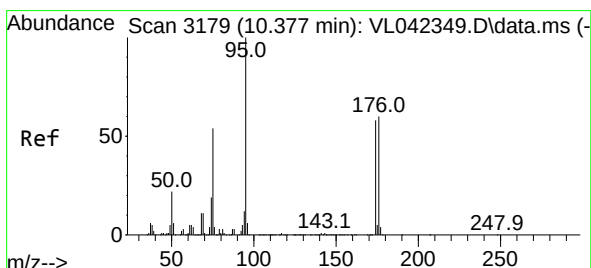
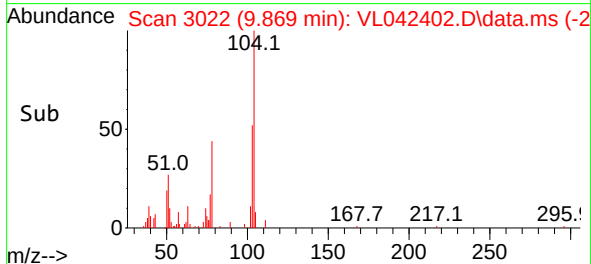
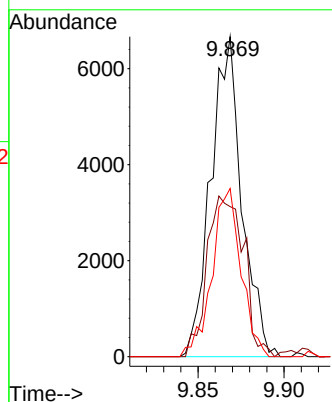
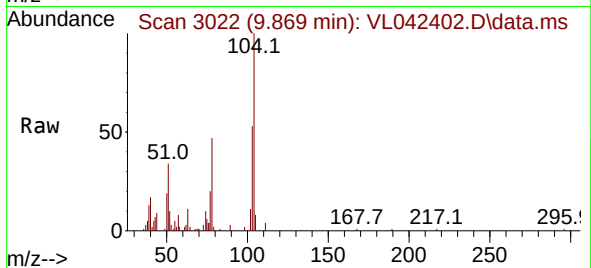
Tgt Ion:104 Resp: 836
Ion Ratio Lower Upper
104 100
78 61.2 44.6 66.8
103 49.2 37.4 56.0

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

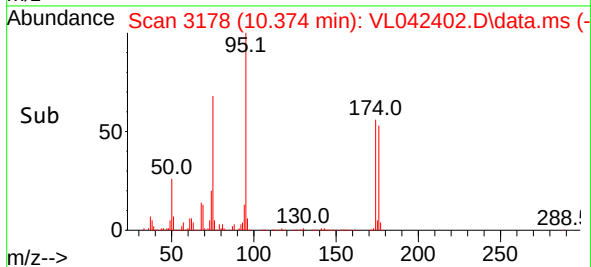
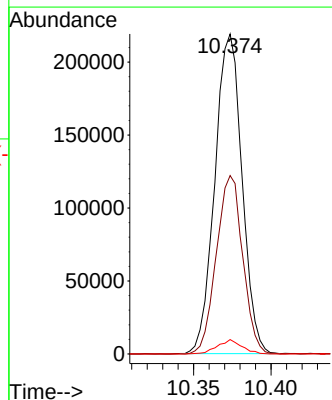
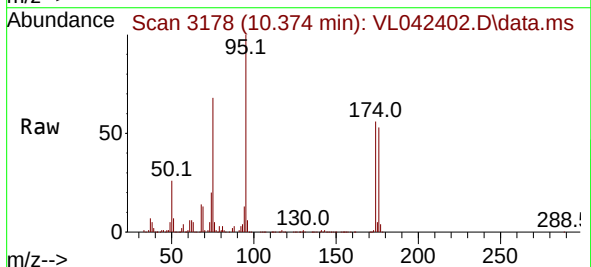
04/22/2025
Supervised By :Mahesh
Dadoda

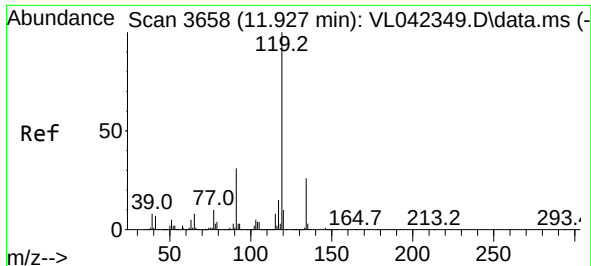
04/22/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.575 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

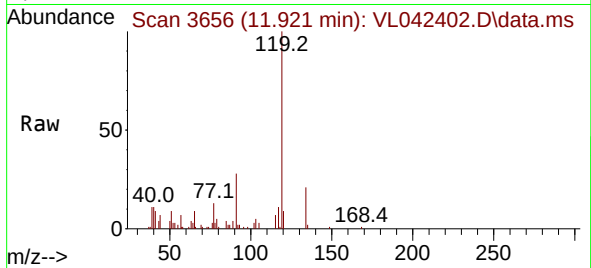
Tgt Ion: 95 Resp: 266636
Ion Ratio Lower Upper
95 100
174 54.2 48.5 72.7
175 4.0 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.103 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.007 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1



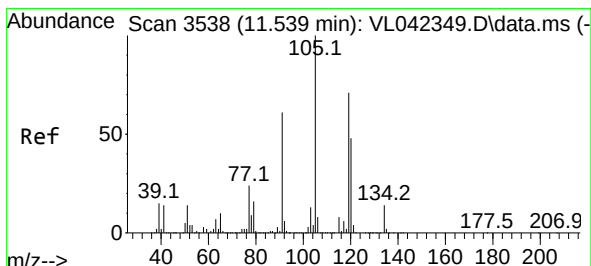
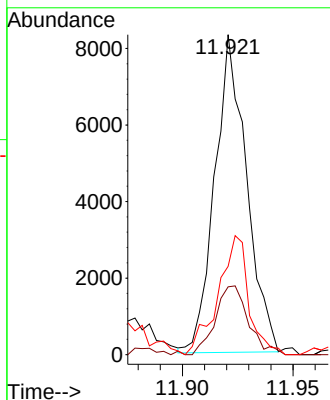
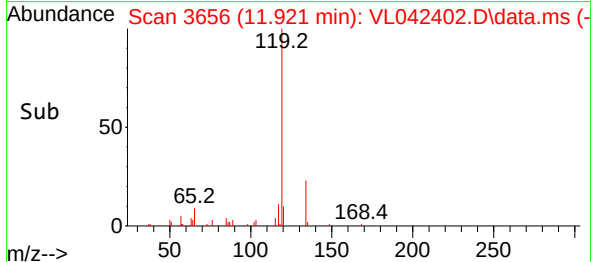
Tgt Ion:119 Resp: 8280
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 33.3 24.4 36.6

Manual Integrations
APPROVED

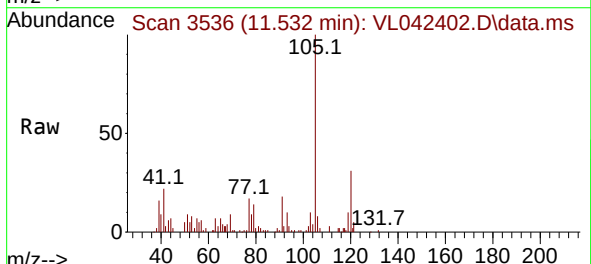
Reviewed By :Semsettin
Yesilyurt

04/22/2025
Supervised By :Mahesh
Dadoda

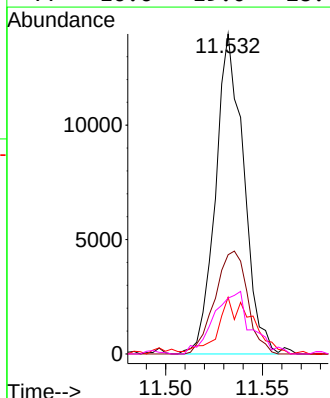
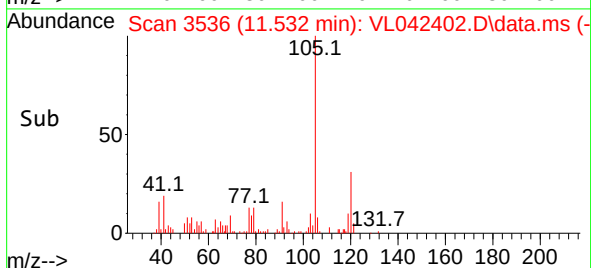
04/22/2025

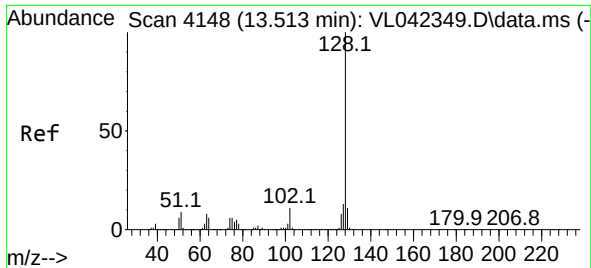


#74
1,2,4-Trimethylbenzene
Concen: 0.227 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38



Tgt Ion:105 Resp: 14087
Ion Ratio Lower Upper
105 100
120 33.1 38.1 57.1#
91 20.1 48.8 73.2#
77 16.6 19.0 28.4#





#79
Naphthalene
Concen: 0.515 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042402.D
Acq: 21 Apr 2025 13:38

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:128 Resp: 38319
Ion Ratio Lower Upper
128 100
127 14.5 10.6 15.8
129 9.1 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

04/22/2025
Supervised By :Mahesh
Dadoda

04/22/2025

