

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041802.D
 Acq On : 18 Dec 2024 19:58
 Operator : SY/MD
 Sample : P5294-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:58:37 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	77034	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.971	114	192884	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	185181	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	150031	9.722	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	4687	0.342	ppbv	96
3) Chlorodifluoromethane	1.479	51	3166m	0.252	ppbv	
4) Chloromethane	1.534	50	2543	0.474	ppbv	96
9) Propene	1.492	41	9245m	1.698	ppbv	
10) Heptane	5.001	43	3400m	0.243	ppbv	
11) Trichlorofluoromethane	1.884	101	2709	0.186	ppbv	96
13) Ethanol	1.725	45	8754	19.416	ppbv	94
15) Acetone	1.842	43	46647	3.112	ppbv	93
17) tert-Butyl alcohol	2.049	59	7709	0.518	ppbv	96
19) Isopropyl Alcohol	1.890	45	11560	1.285	ppbv #	30
20) Methylene Chloride	2.068	84	1379	0.323	ppbv #	76
25) Ethyl Acetate	2.852	43	11451	0.411	ppbv #	92
30) Cyclohexane	3.878	84	1918m	0.213	ppbv	
34) 2-Butanone	2.570	43	10728	0.691	ppbv	96
35) Carbon Tetrachloride	3.784	117	734m	0.054	ppbv	
36) Benzene	3.670	78	4321	0.217	ppbv	93
41) Tetrahydrofuran	3.075	42	5402	0.621	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	3553m	0.104	ppbv	
50) 4-Methyl-2-Pentanone	5.797	43	4749m	0.225	ppbv	
53) Toluene	6.956	91	82132	3.631	ppbv	99
57) Chlorobenzene	8.937	112	2231m	0.118	ppbv	
58) Ethyl Benzene	9.367	91	11534	0.346	ppbv	95
59) m/p-Xylene	9.545	91	34427m	1.284	ppbv	
60) o-Xylene	9.979	91	13407	0.499	ppbv	96
61) Styrene	9.882	104	3334	0.287	ppbv	99

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

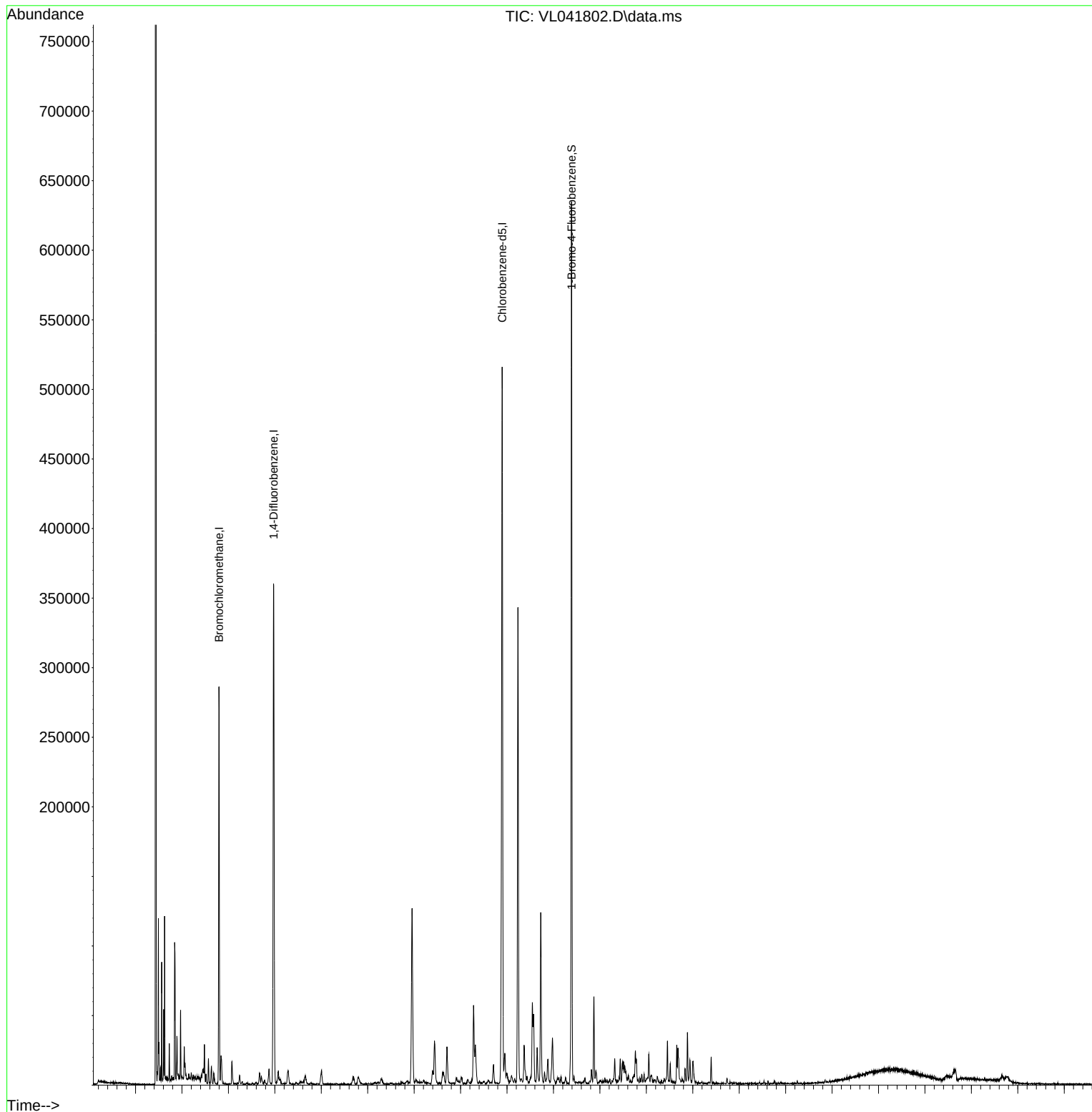
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041802.D
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Operator : SY/MD
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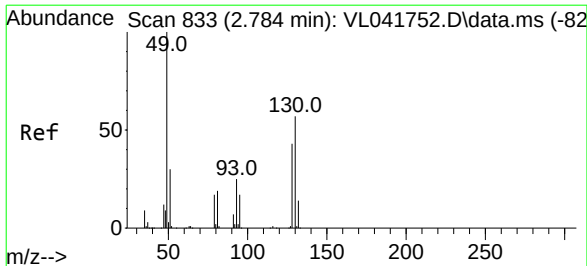
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

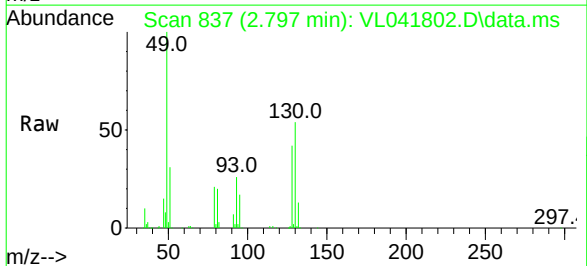
Quant Time: Dec 19 07:58:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

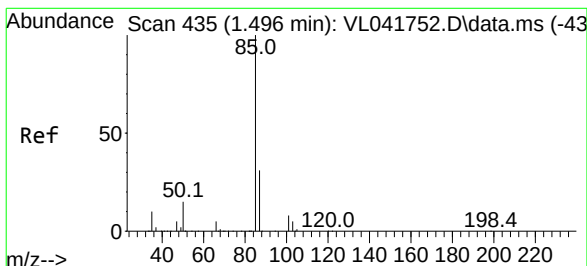
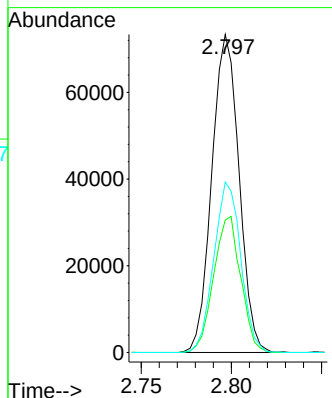
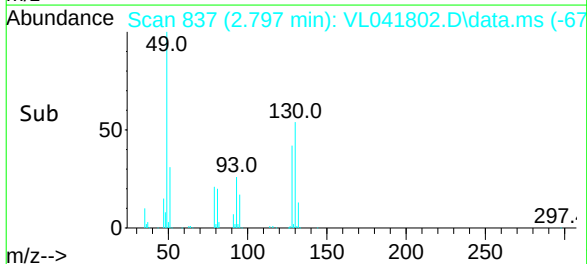
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 49 Resp: 77034
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.6
130 53.1 28.3 85.0

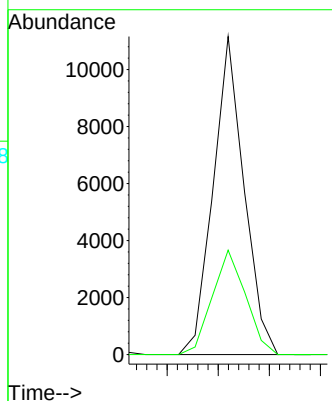
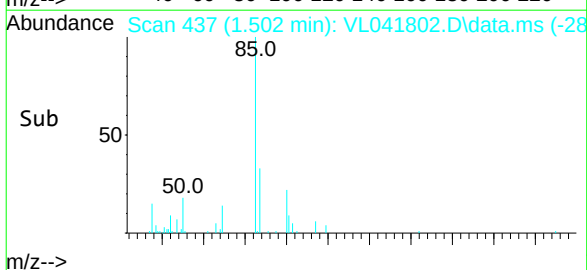
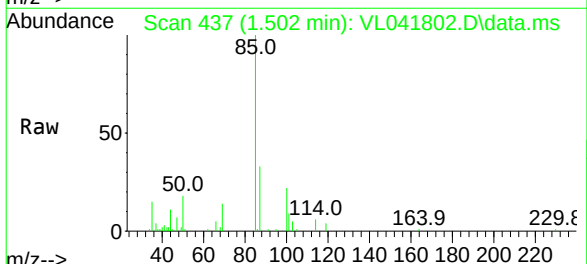
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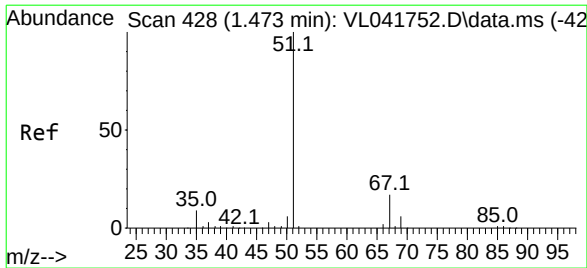
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 0.342 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

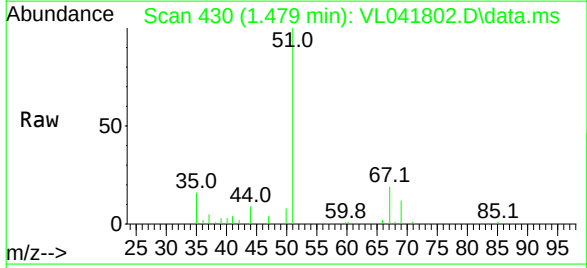
Tgt Ion: 85 Resp: 4687
Ion Ratio Lower Upper
85 100
87 32.8 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.252 ppbv m
RT: 1.479 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

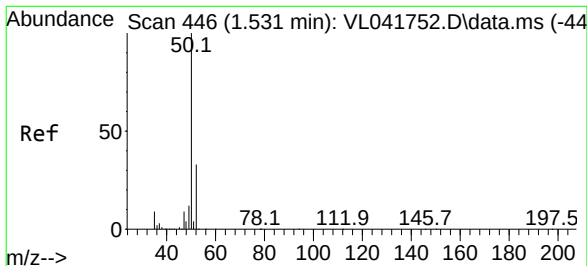
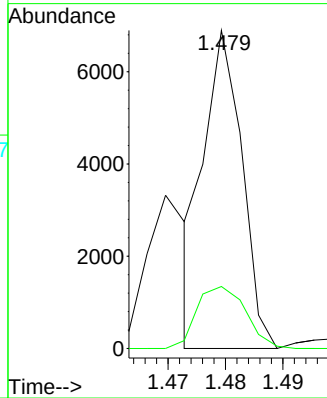
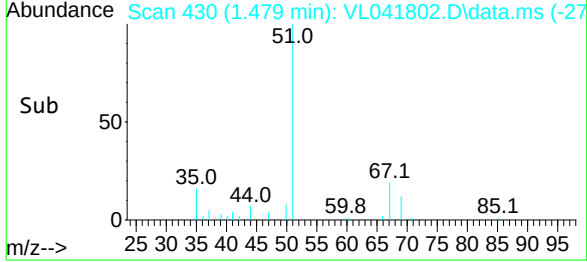
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 51 Resp: 3166
Ion Ratio Lower Upper
51 100
67 3.3 15.0 22.4#

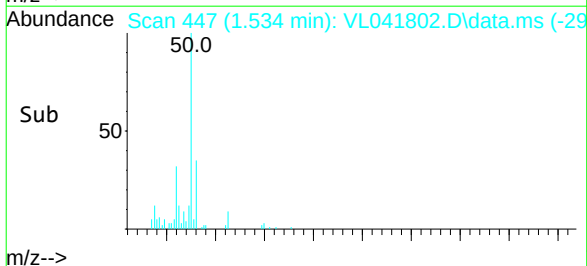
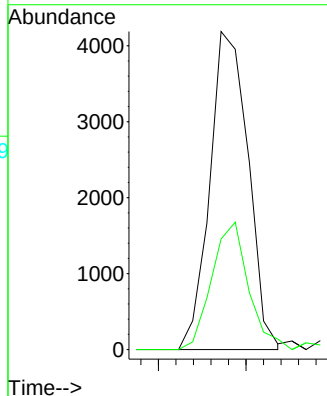
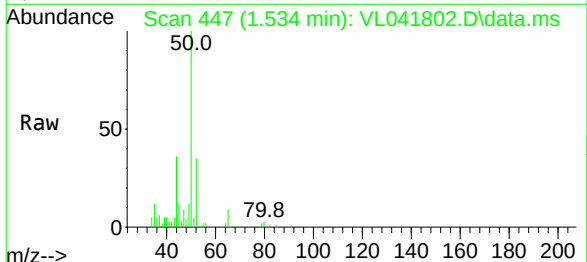
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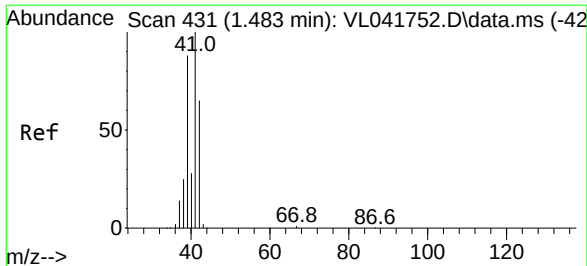
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#4
Chloromethane
Concen: 0.474 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

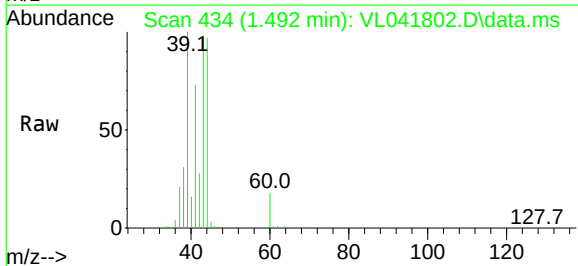
Tgt Ion: 50 Resp: 2543
Ion Ratio Lower Upper
50 100
52 34.8 26.2 39.2





#9
Propene
Concen: 1.698 ppbv m
RT: 1.492 min Scan# 431
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

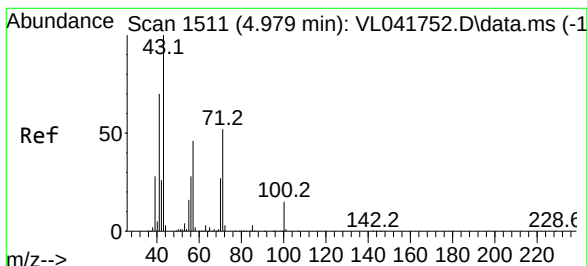
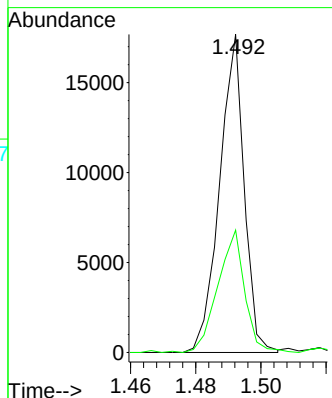
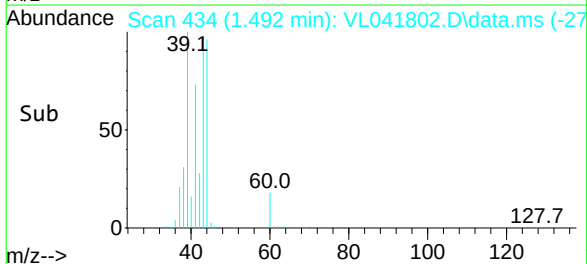
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



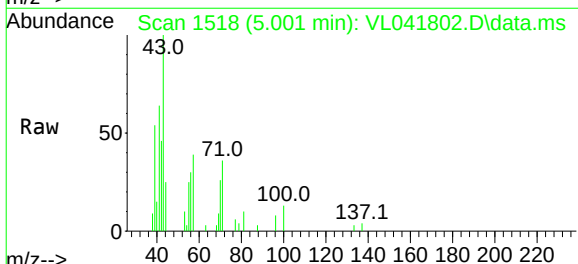
Tgt Ion: 41 Resp: 9245
Ion Ratio Lower Upper
41 100
42 5.4 52.4 78.6#

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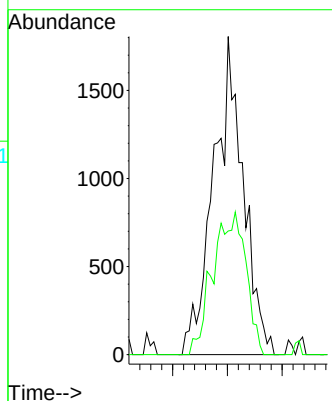
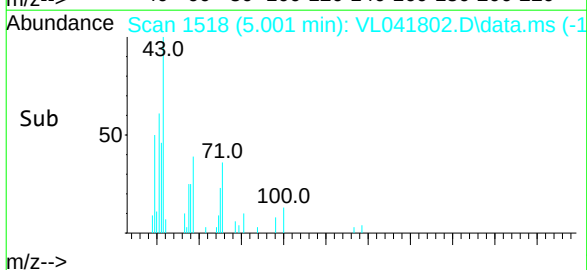
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

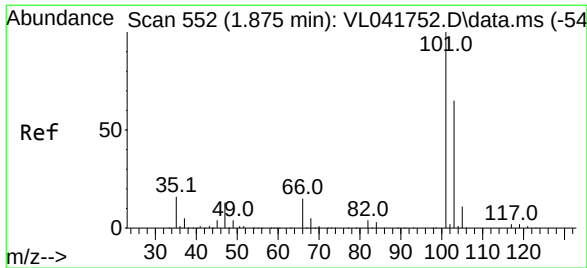


#10
Heptane
Concen: 0.243 ppbv m
RT: 5.001 min Scan# 1518
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



Tgt Ion: 43 Resp: 3400
Ion Ratio Lower Upper
43 100
57 49.9 38.5 57.7





#11

Trichlorofluoromethane

Concen: 0.186 ppbv

RT: 1.884 min Scan# 55

Delta R.T. 0.009 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

Tgt Ion:101 Resp: 2709

Ion Ratio Lower Upper

101 100

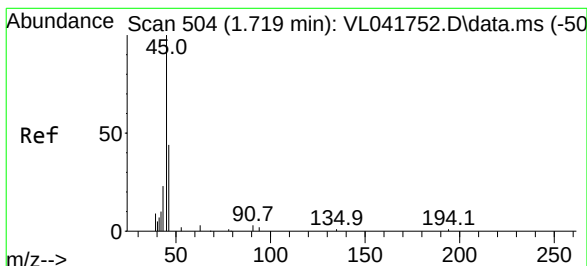
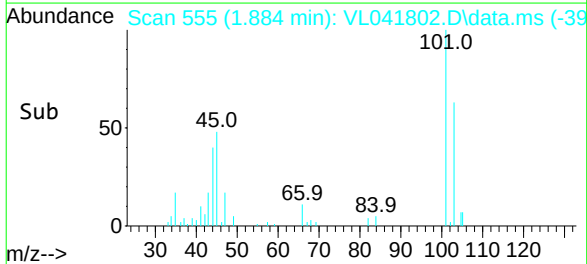
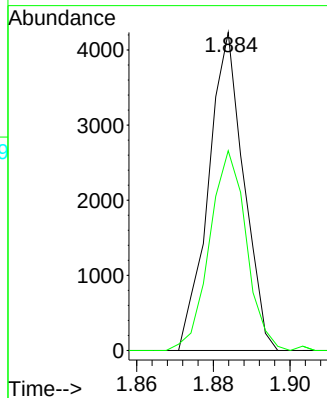
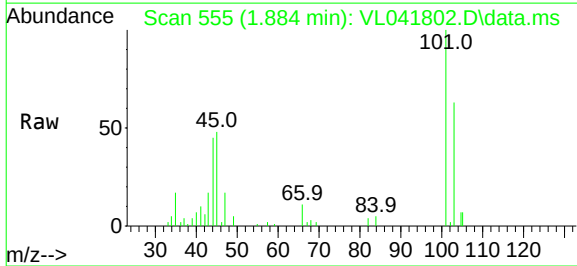
103 61.5 51.8 77.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#13

Ethanol

Concen: 19.416 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041802.D

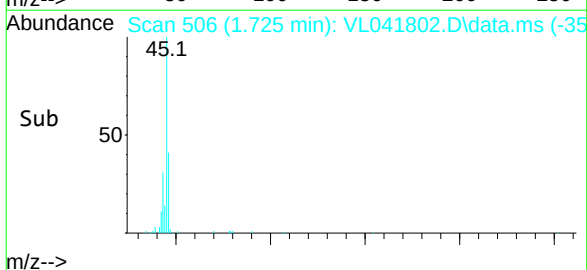
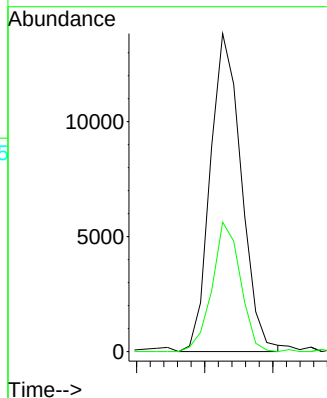
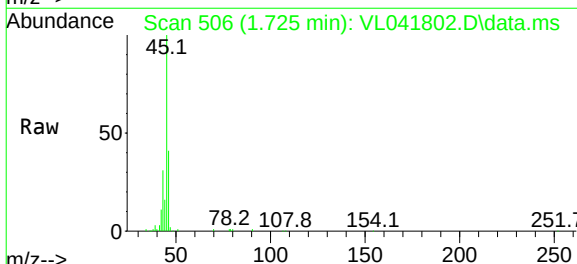
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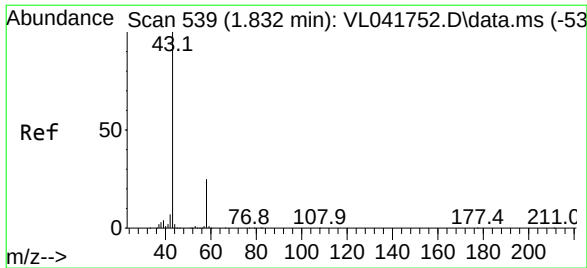
Tgt Ion: 45 Resp: 8754

Ion Ratio Lower Upper

45 100

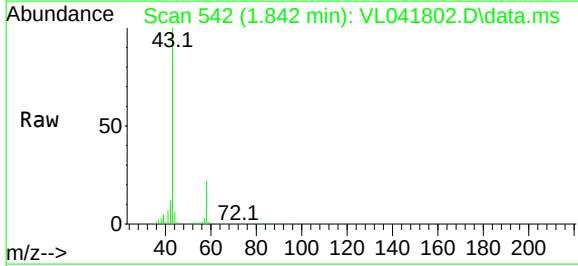
46 37.5 16.4 65.8





#15
Acetone
Concen: 3.112 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

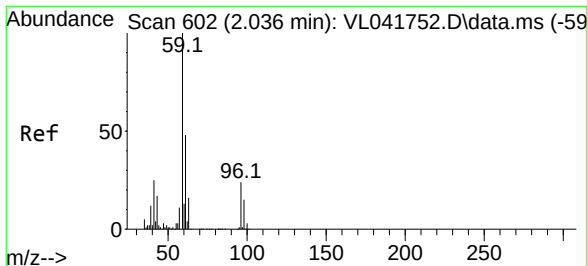
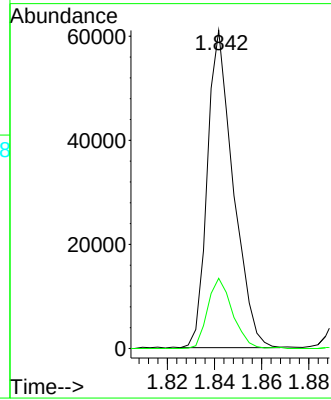
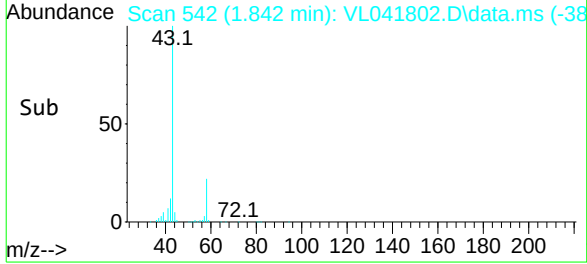
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 43 Resp: 46647
Ion Ratio Lower Upper
43 100
58 21.2 19.7 29.5

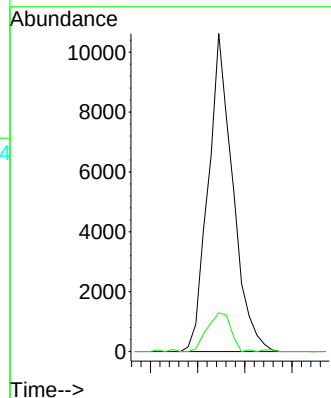
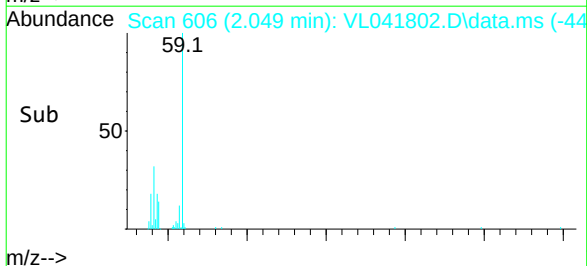
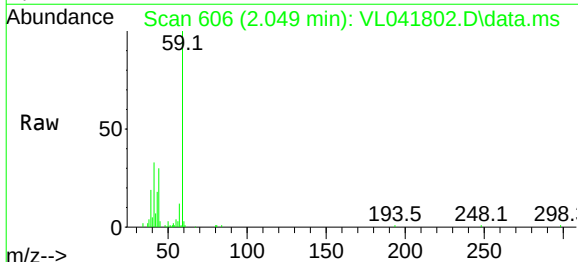
Manual Integrations
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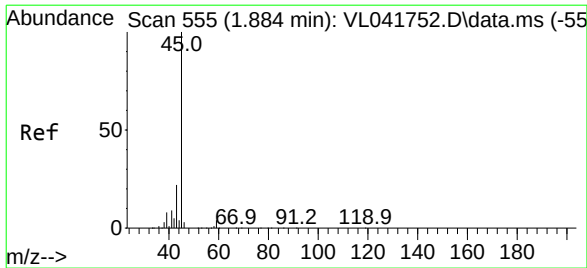
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#17
tert-Butyl alcohol
Concen: 0.518 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 59 Resp: 7709
Ion Ratio Lower Upper
59 100
57 12.4 8.6 13.0





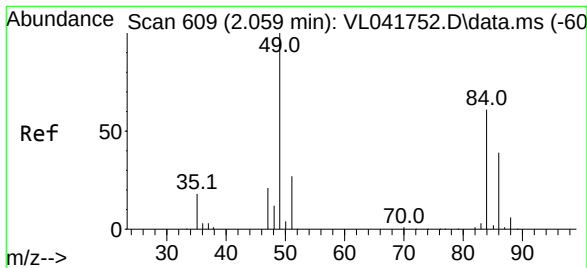
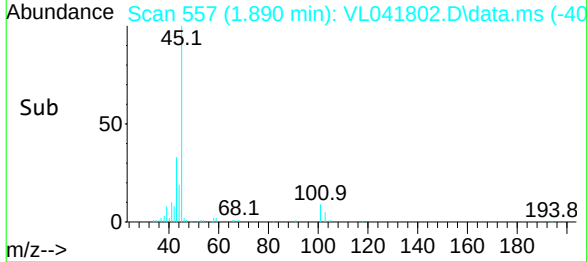
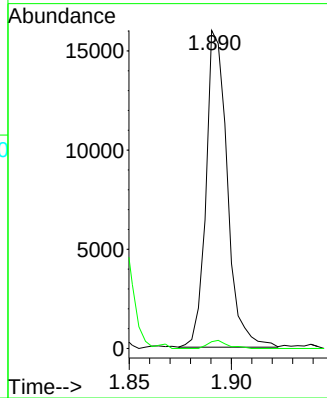
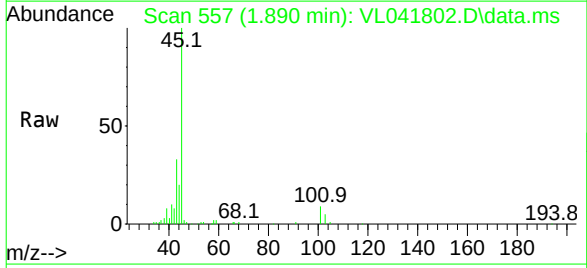
#19
Isopropyl Alcohol
Concen: 1.285 ppbv
RT: 1.890 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :
C0AB6

Tgt Ion: 45 Resp: 11560
Ion Ratio Lower Upper
45 100
58 85.6 33.3 49.9#

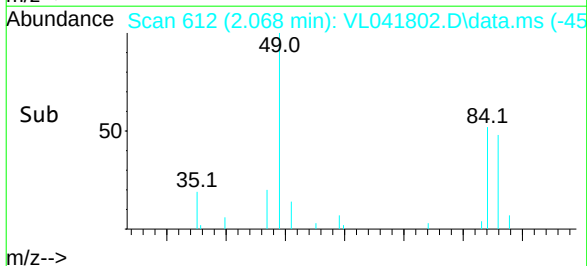
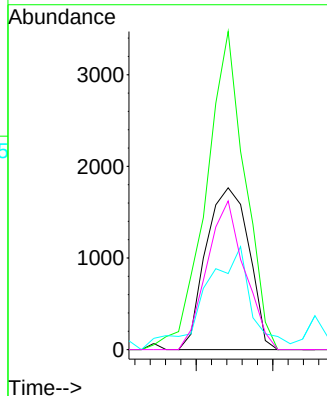
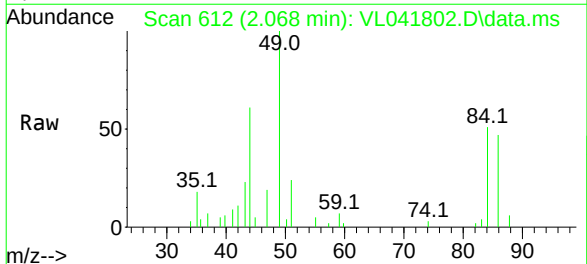
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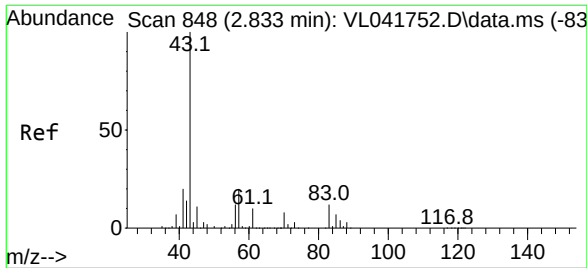
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#20
Methylene Chloride
Concen: 0.323 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

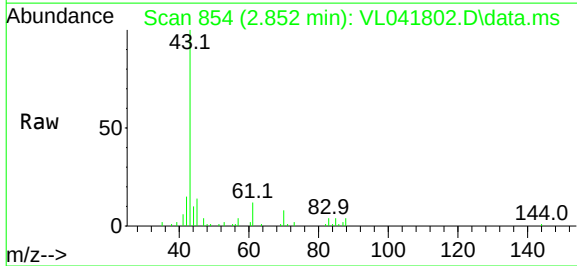
Tgt Ion: 84 Resp: 1379
Ion Ratio Lower Upper
84 100
49 196.6 132.6 198.8
51 38.9 37.6 56.4
86 91.9 51.4 77.0#





#25
Ethyl Acetate
Concen: 0.411 ppbv
RT: 2.852 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

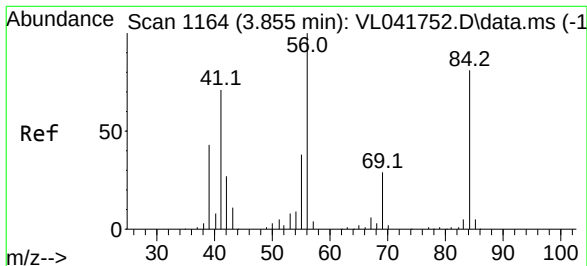
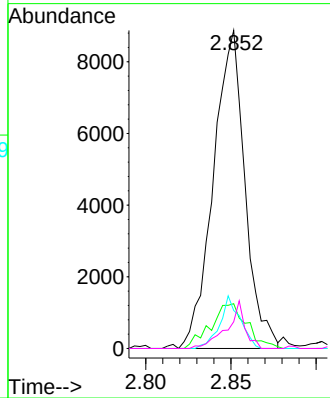
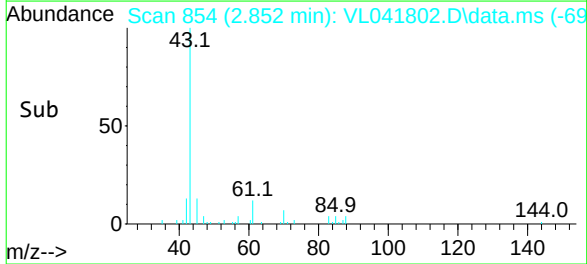
Instrument :
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ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
43	100		
45	16.1	8.1	12.1
61	10.7	7.0	10.6
70	8.5	6.5	9.7

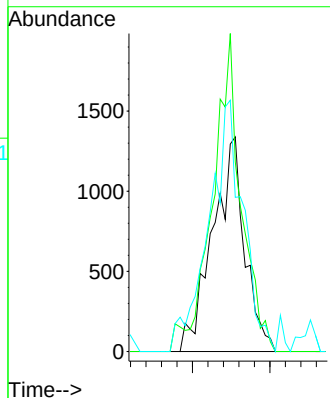
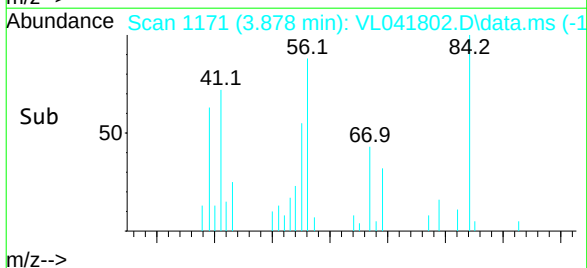
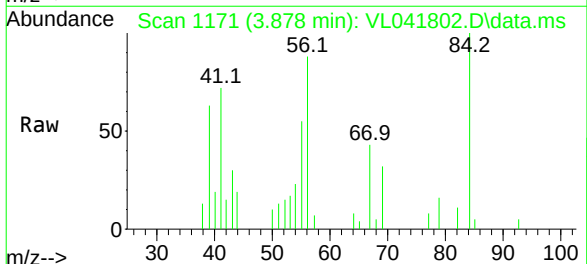
Manual Integrations
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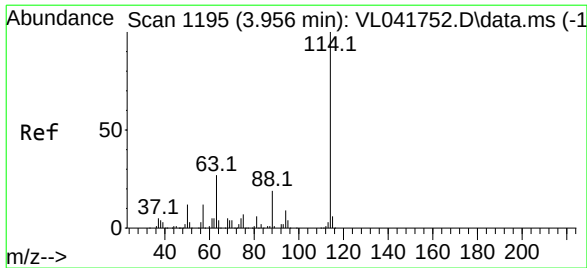
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#30
Cyclohexane
Concen: 0.213 ppbv m
RT: 3.878 min Scan# 1171
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

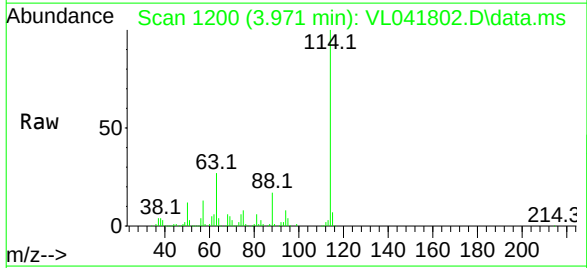
Tgt Ion	Ratio	Lower	Upper
84	100		
56	132.7	102.3	153.5
41	128.6	74.0	111.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 12
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

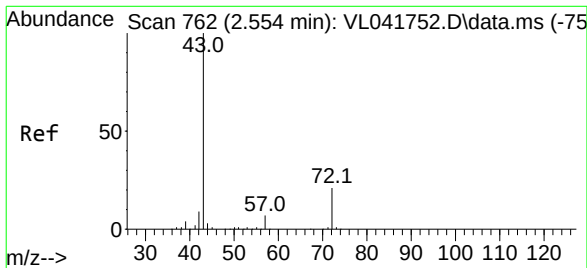
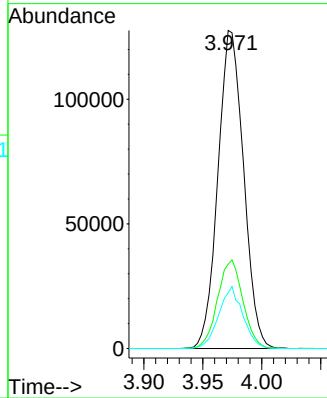
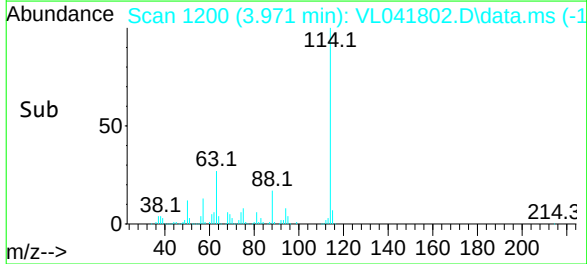
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 114 Resp: 192884
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.8
88 18.2 14.8 22.2

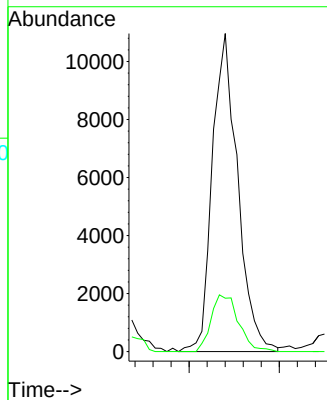
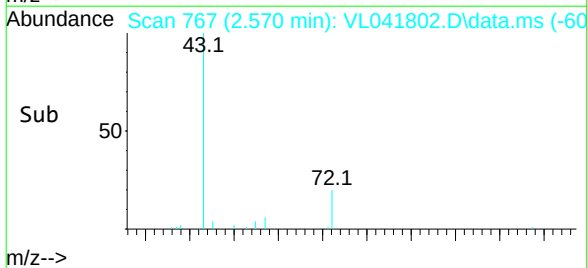
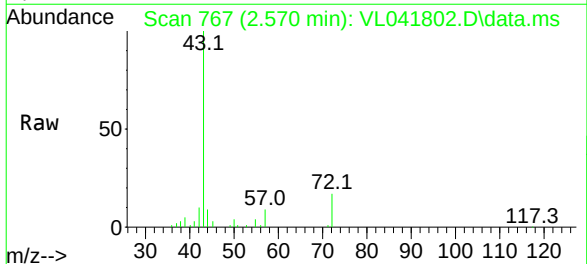
Manual Integrations
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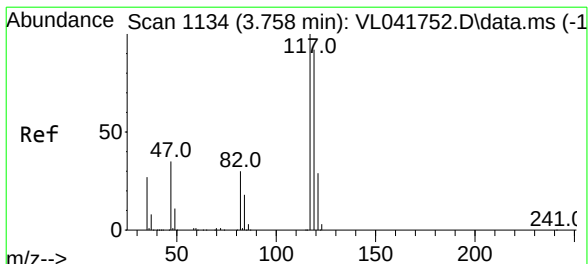
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 0.691 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

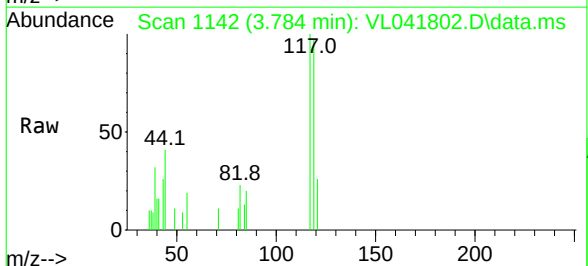
Tgt Ion: 43 Resp: 10728
Ion Ratio Lower Upper
43 100
72 19.2 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 3.784 min Scan# 11
Delta R.T. 0.025 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

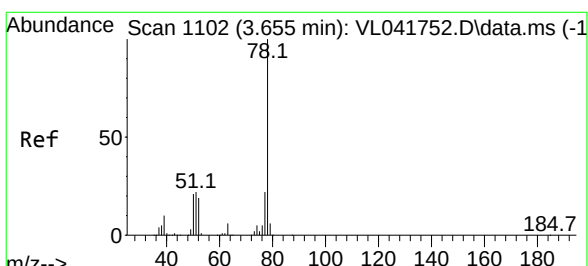
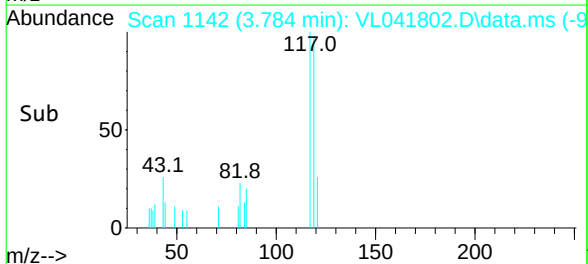
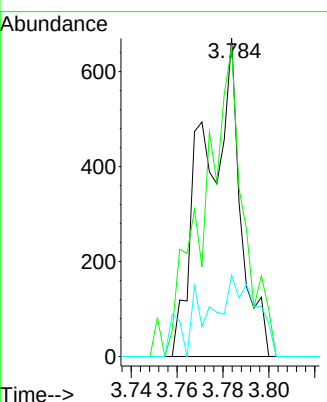
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion:	117	Resp:	734
Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.7	110.5
121	25.5	23.0	34.4

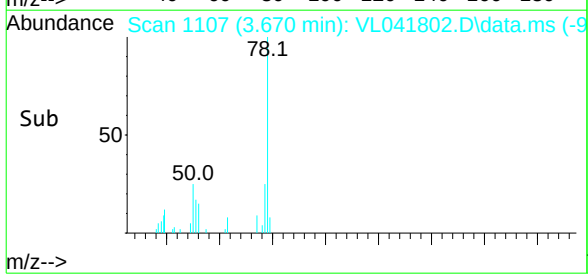
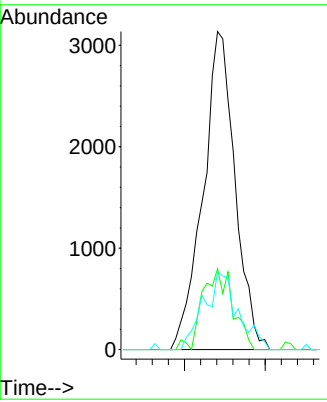
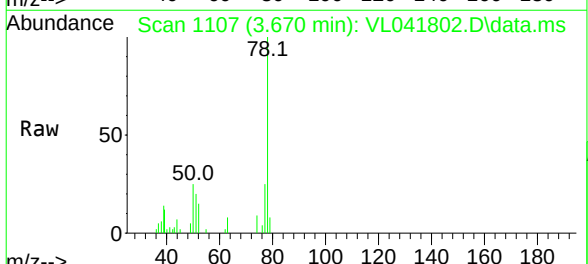
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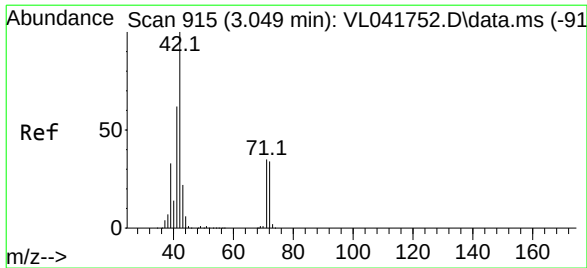
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#36
Benzene
Concen: 0.217 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

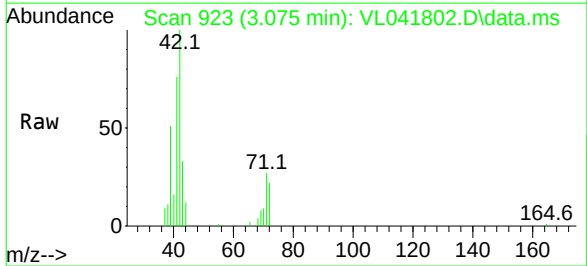
Tgt Ion:	78	Resp:	4321
Ion	Ratio	Lower	Upper
78	100		
77	25.4	17.8	26.6
50	24.7	17.2	25.8





#41
Tetrahydrofuran
Concen: 0.621 ppbv
RT: 3.075 min Scan# 921
Delta R.T. 0.025 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

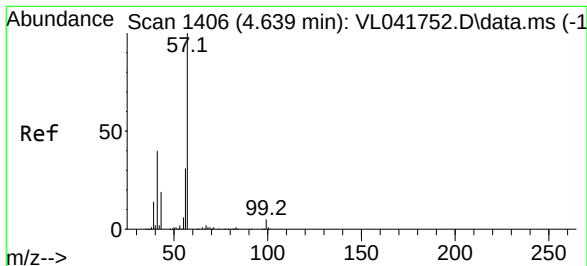
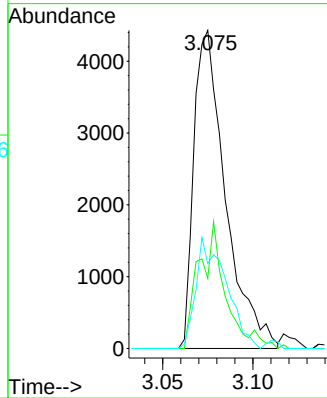
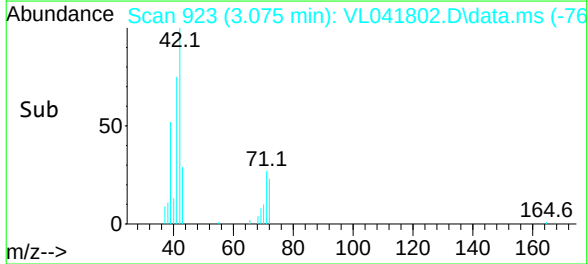
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion:	42	Resp:	5402
Ion	Ratio	Lower	Upper
42	100		
72	33.8	29.1	43.7
71	34.3	28.4	42.6

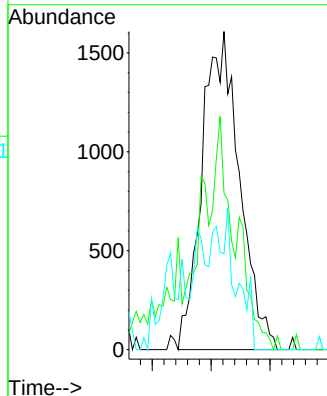
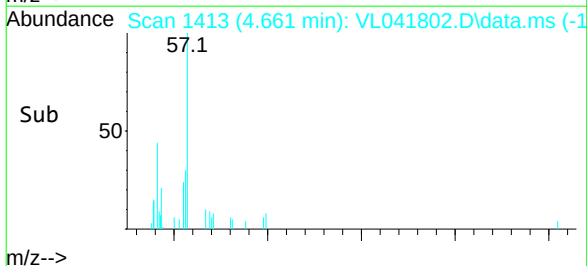
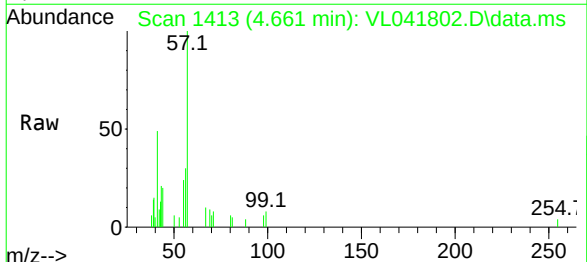
Manual Integrations
APPROVED

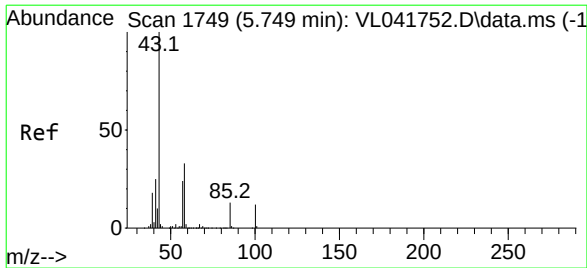
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#44
2,2,4-Trimethylpentane
Concen: 0.104 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion:	57	Resp:	3553
Ion	Ratio	Lower	Upper
57	100		
41	81.1	30.7	46.1#
56	56.3	25.4	38.0#





#50

4-Methyl-2-Pentanone

Concen: 0.225 ppbv m

RT: 5.797 min Scan# 17

Delta R.T. 0.048 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

Tgt Ion: 43 Resp: 4749

Ion Ratio Lower Upper

43 100

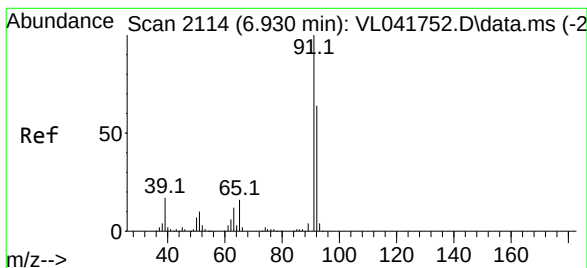
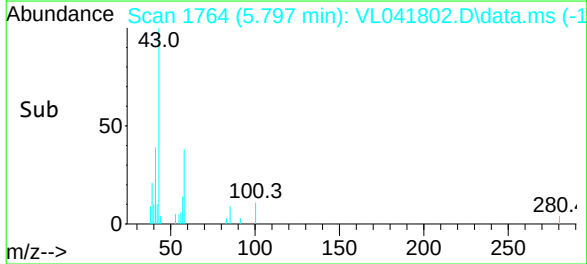
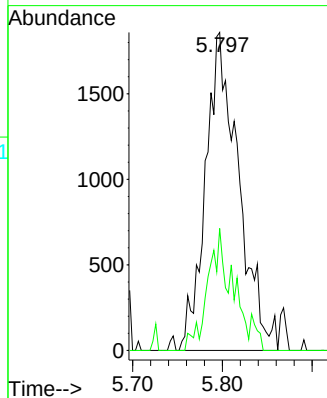
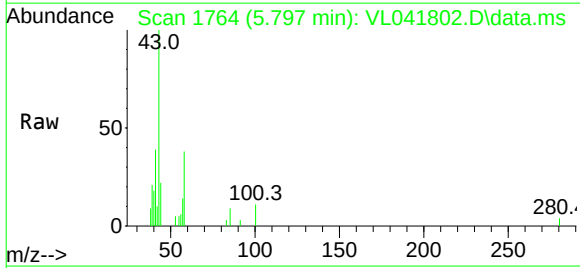
58 0.0 26.8 40.2#

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Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#53

Toluene

Concen: 3.631 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.025 min

Lab File: VL041802.D

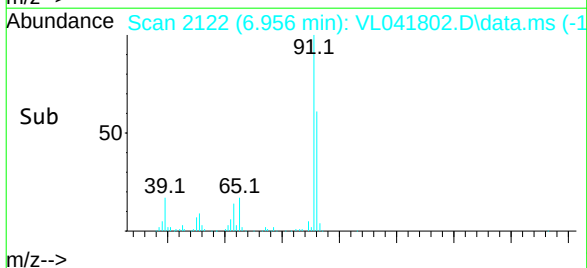
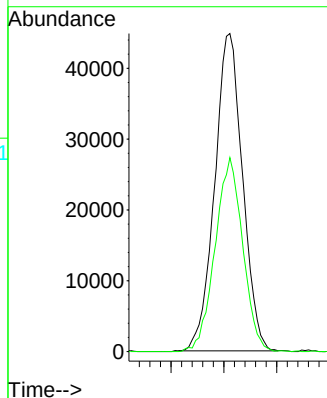
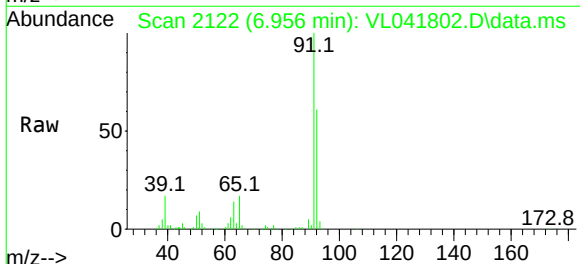
Acq: 18 Dec 2024 19:58

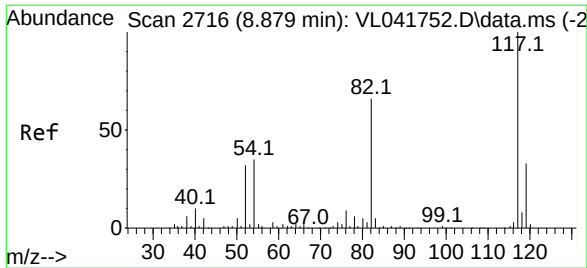
Tgt Ion: 91 Resp: 82132

Ion Ratio Lower Upper

91 100

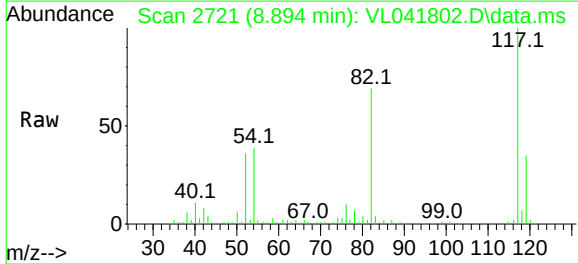
92 60.6 47.9 71.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2716
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

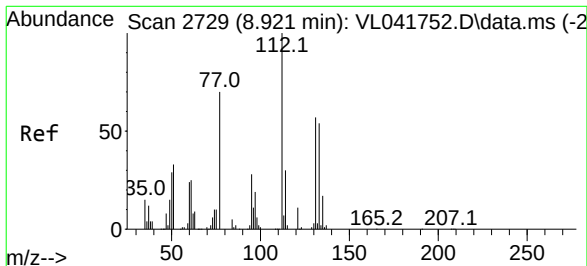
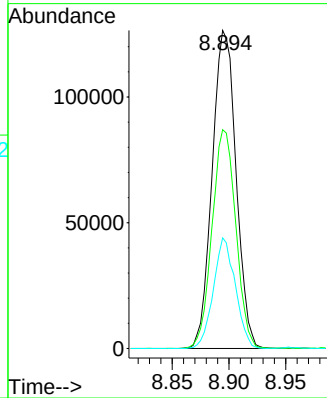
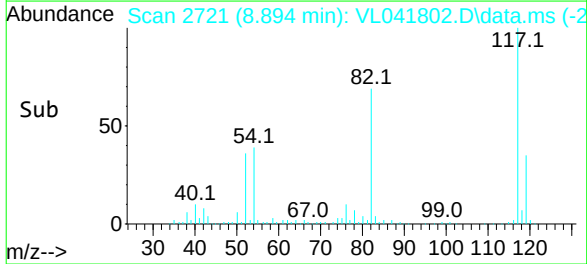
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



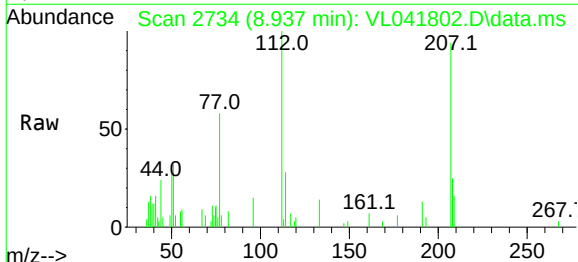
Tgt Ion:117 Resp: 185181
Ion Ratio Lower Upper
117 100
82 68.5 53.8 80.8
119 32.1 26.7 40.1

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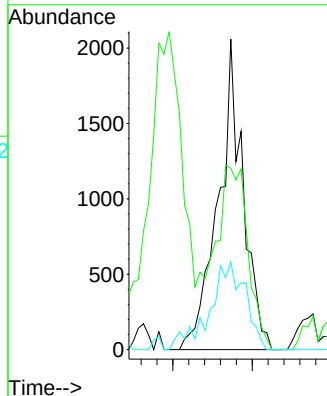
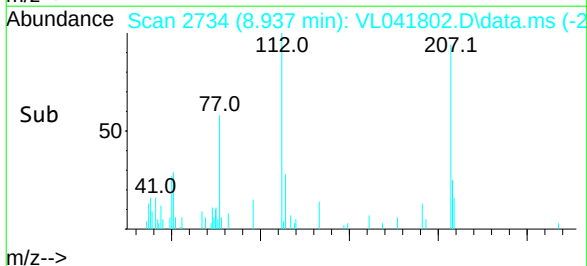
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

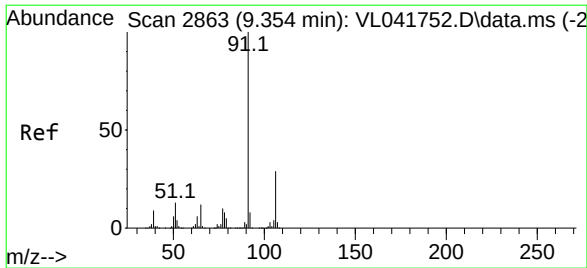


#57
Chlorobenzene
Concen: 0.118 ppbv m
RT: 8.937 min Scan# 2734
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



Tgt Ion:112 Resp: 2231
Ion Ratio Lower Upper
112 100
77 58.4 57.4 86.0
114 28.2 27.4 33.4





#58

Ethyl Benzene

Concen: 0.346 ppbv

RT: 9.367 min Scan# 2863

Delta R.T. 0.013 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

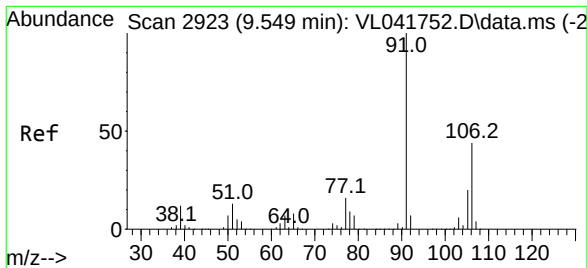
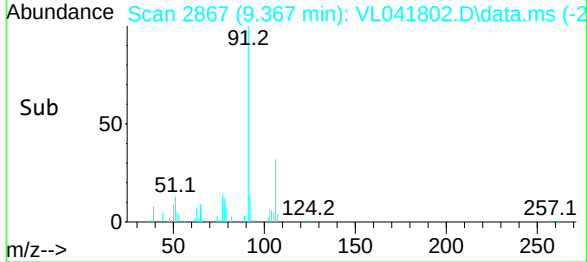
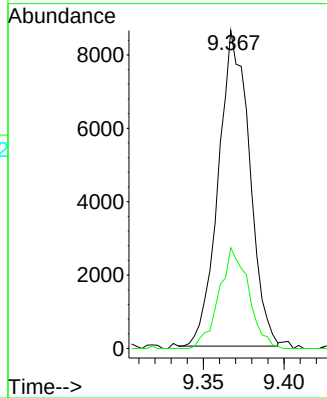
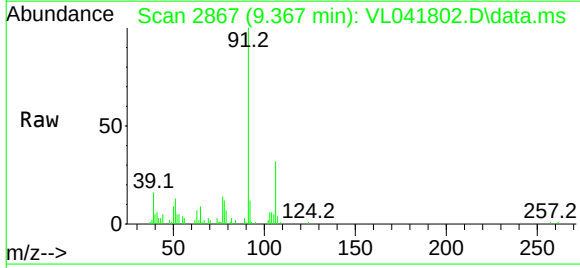
ClientSampleId :

C0AB6

Tgt Ion: 91 Resp: 11534
 Ion Ratio Lower Upper
 91 100
 106 31.9 23.5 35.3

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Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#59

m/p-Xylene

Concen: 1.284 ppbv m

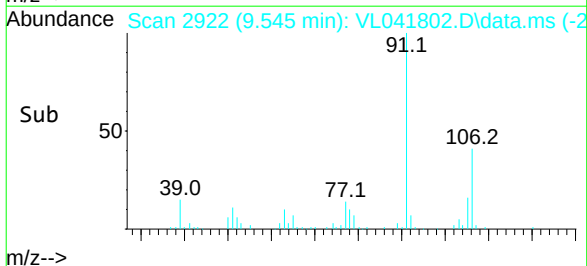
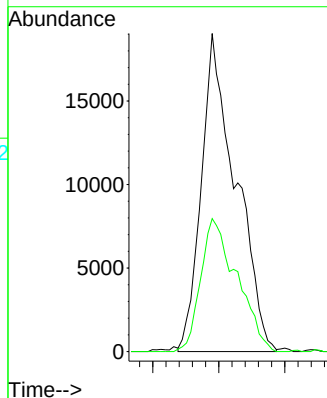
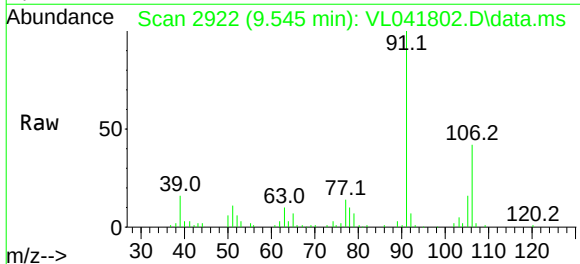
RT: 9.545 min Scan# 2922

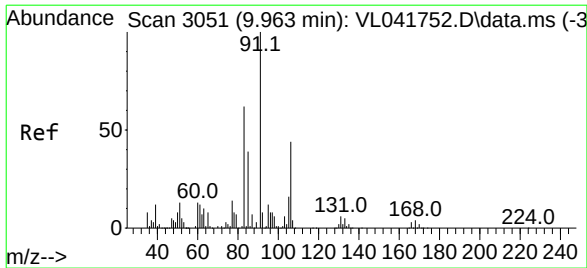
Delta R.T. -0.004 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

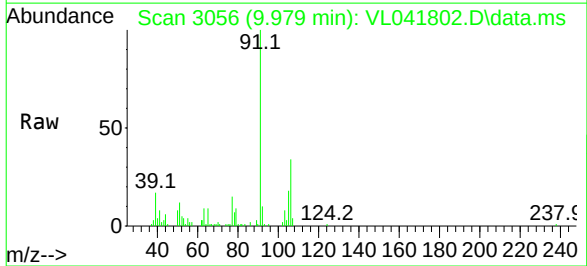
Tgt Ion: 91 Resp: 34427
 Ion Ratio Lower Upper
 91 100
 106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.499 ppbv
RT: 9.979 min Scan# 3051
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

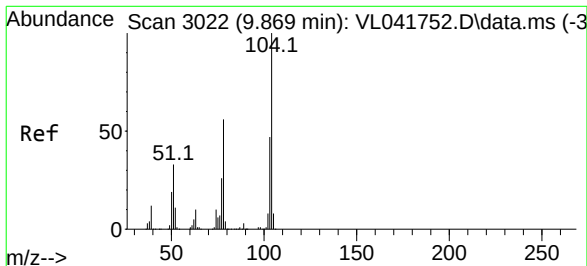
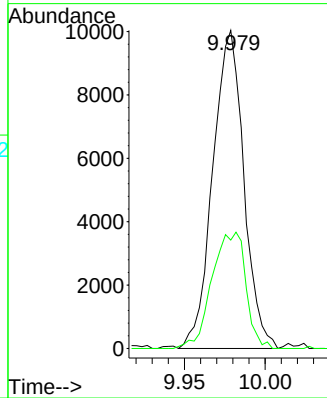
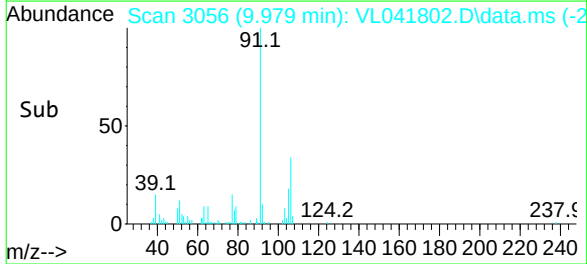
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



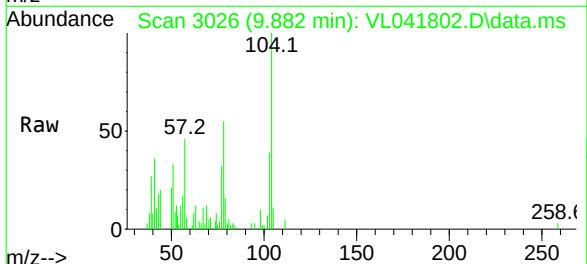
Tgt Ion: 91 Resp: 13407
Ion Ratio Lower Upper
91 100
106 39.9 21.1 63.4

Manual Integrations
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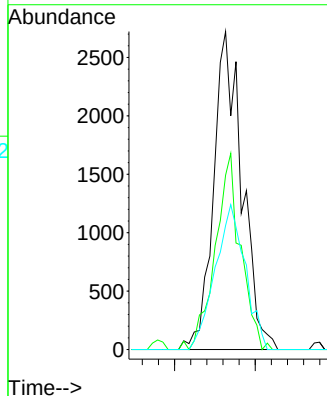
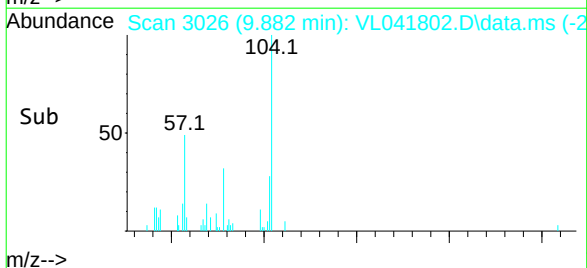
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

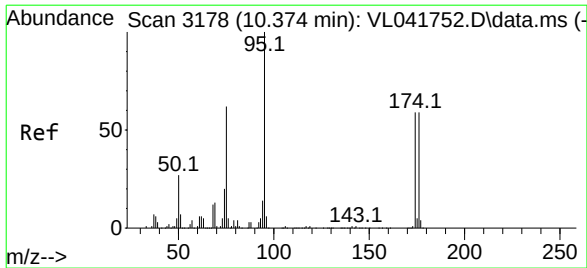


#61
Styrene
Concen: 0.287 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



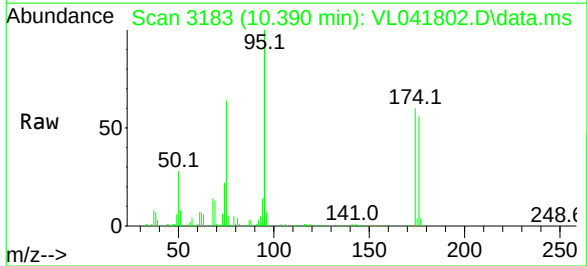
Tgt Ion:104 Resp: 3334
Ion Ratio Lower Upper
104 100
78 55.8 43.8 65.6
103 48.0 37.8 56.6





#68
1-Bromo-4-Fluorobenzene
Concen: 9.722 ppbv
RT: 10.390 min Scan# 3178
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt	Ion	Ratio	Lower	Upper
95	95	100		
174	174	58.6	47.6	71.4
175	175	4.4	3.7	5.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

