

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042334.D
 Acq On : 15 Apr 2025 16:08
 Operator : SY/MD
 Sample : Q1802-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:33:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.809	49	179585	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	439918	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	393360	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	314181	9.726	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.508	85	9589	0.362	ppbv	100
3) Chlorodifluoromethane	1.486	51	6431m	0.237	ppbv	
4) Chloromethane	1.541	50	7061	0.652	ppbv	95
9) Propene	1.499	41	41747m	3.362	ppbv	
10) Heptane	5.036	43	11932m	0.361	ppbv	
11) Trichlorofluoromethane	1.890	101	4701	0.182	ppbv	84
13) Ethanol	1.735	45	174144	148.373	ppbv	83
15) Acetone	1.848	43	421840	16.796	ppbv #	79
19) Isopropyl Alcohol	1.900	45	40949	2.890	ppbv #	1
20) Methylene Chloride	2.078	84	3293	0.352	ppbv #	92
26) Hexane	2.852	57	32511	1.291	ppbv #	59
30) Cyclohexane	3.894	84	5523m	0.253	ppbv	
34) 2-Butanone	2.580	43	57155	1.792	ppbv	99
35) Carbon Tetrachloride	3.800	117	2261m	0.066	ppbv	
36) Benzene	3.687	78	30839	0.707	ppbv	95
41) Tetrahydrofuran	3.085	42	58119	3.164	ppbv	92
44) 2,2,4-Trimethylpentane	4.680	57	33305m	0.452	ppbv	
52) Tetrachloroethene	8.257	164	4514m	0.261	ppbv	
53) Toluene	6.985	91	105073	2.032	ppbv	98
58) Ethyl Benzene	9.390	91	14862	0.213	ppbv	93
59) m/p-Xylene	9.564	91	45628	0.818	ppbv	96
60) o-Xylene	9.995	91	15795	0.282	ppbv	95
74) 1,2,4-Trimethylbenzene	11.561	105	19209	0.274	ppbv #	69

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

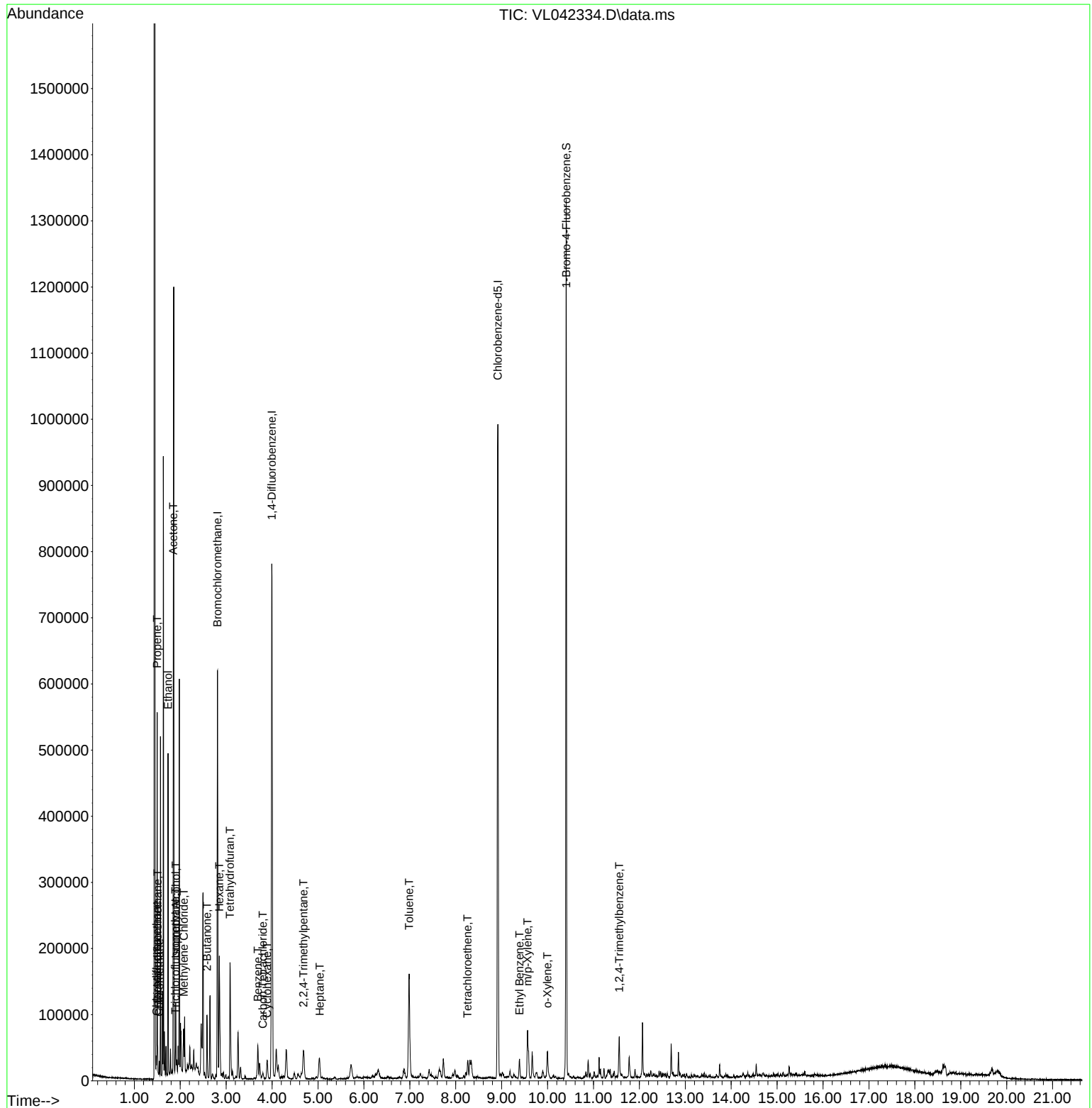
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
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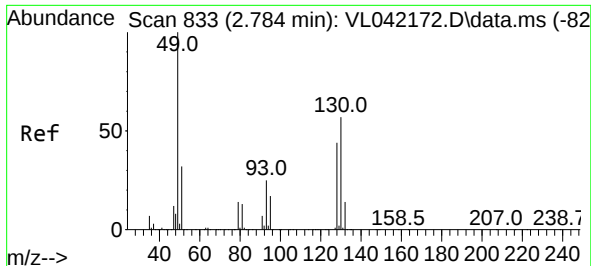
Instrument :
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Quant Time: Apr 16 01:33:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

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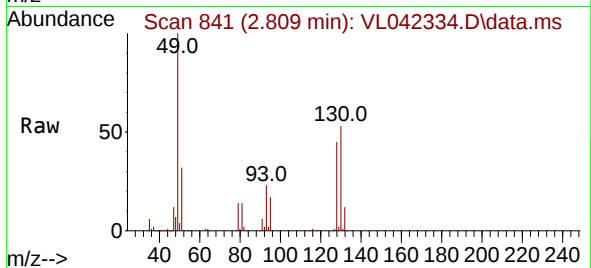
Reviewed By : Semsettin Yesilyurt 04/16/2025
Supervised By : Mahesh Dadoda 04/16/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.809 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

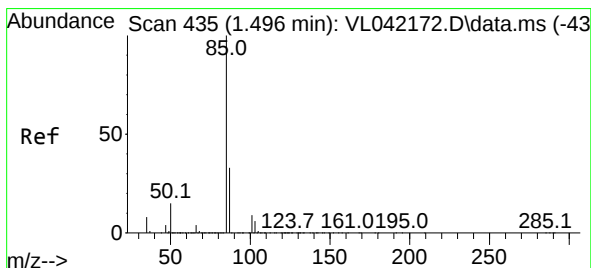
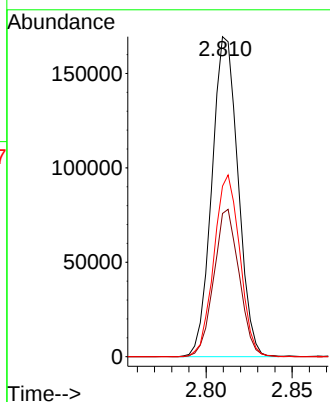
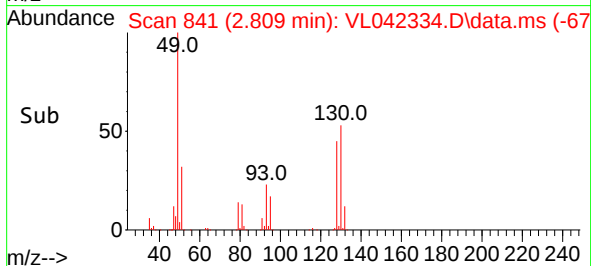
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



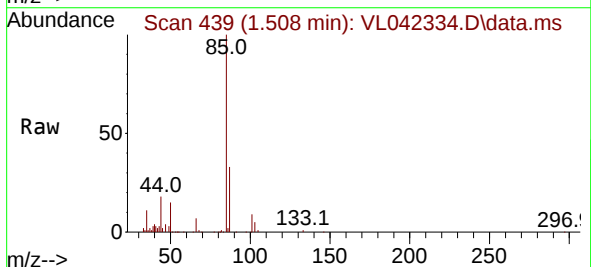
Tgt Ion: 49 Resp: 17958
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 56.2 28.8 86.4

Manual Integrations
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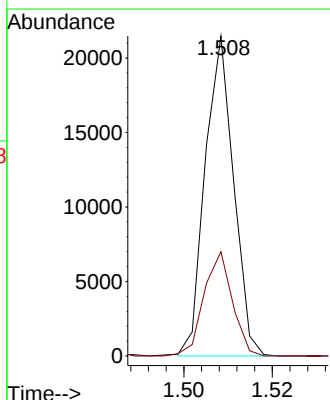
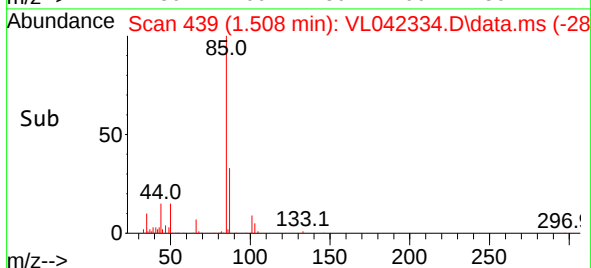
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

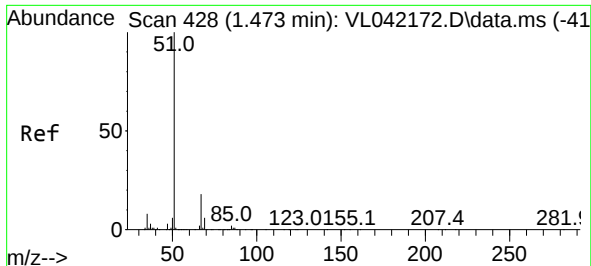


#2
Dichlorodifluoromethane
Concen: 0.362 ppbv
RT: 1.508 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08



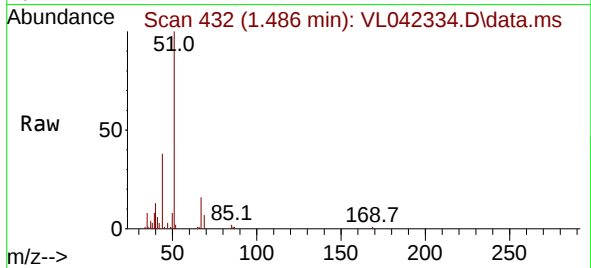
Tgt Ion: 85 Resp: 9589
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.237 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

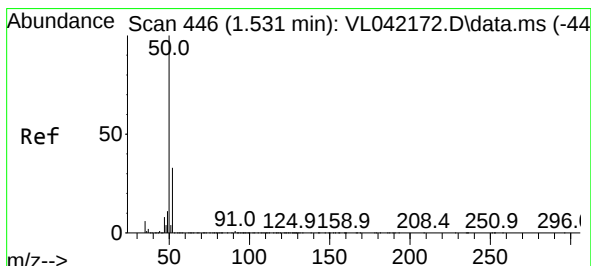
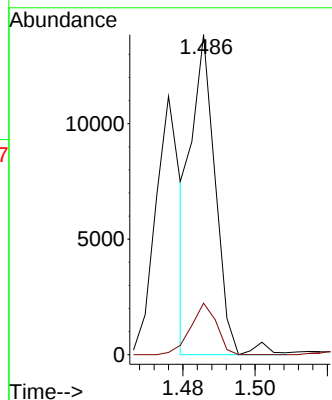
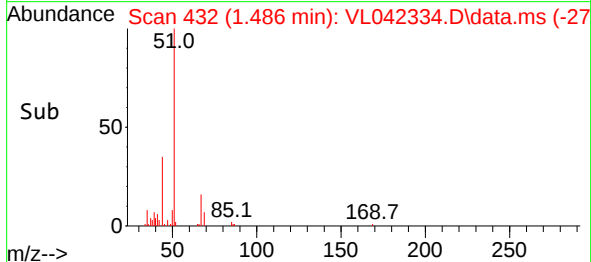
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



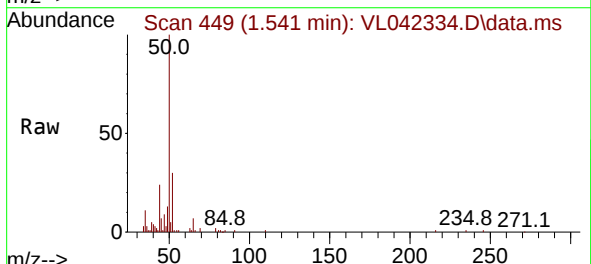
Tgt Ion: 51 Resp: 643
Ion Ratio Lower Upper
51 100
67 17.3 15.0 22.6

Manual Integrations
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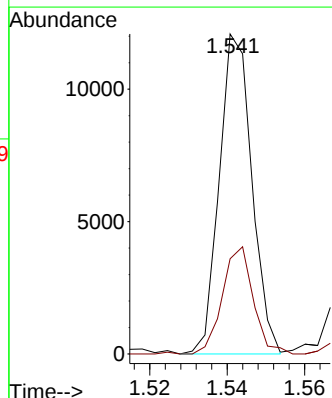
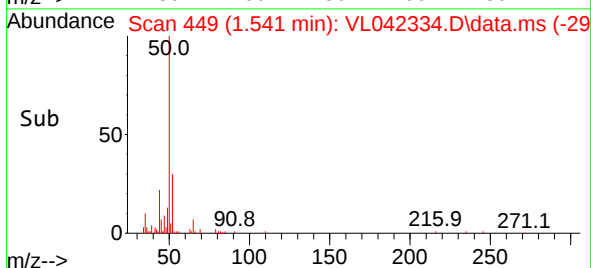
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

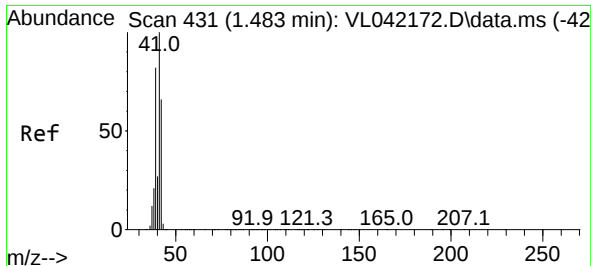


#4
Chloromethane
Concen: 0.652 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.009 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08



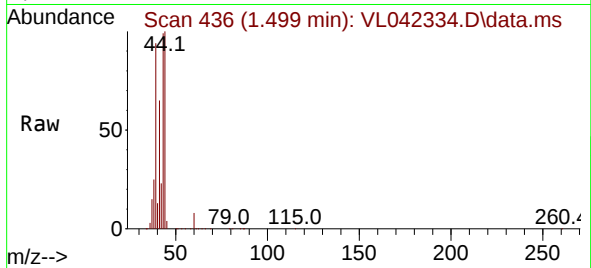
Tgt Ion: 50 Resp: 7061
Ion Ratio Lower Upper
50 100
52 29.9 26.1 39.1





#9
 Propene
 Concen: 3.362 ppbv m
 RT: 1.499 min Scan# 4174
 Delta R.T. 0.016 min
 Lab File: VL042334.D
 Acq: 15 Apr 2025 16:08

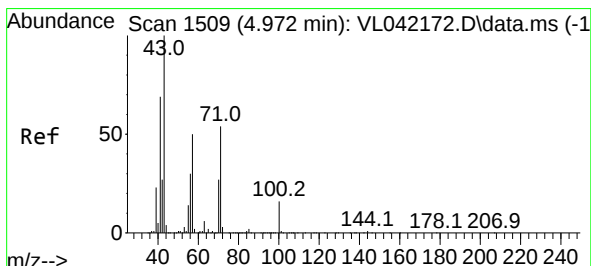
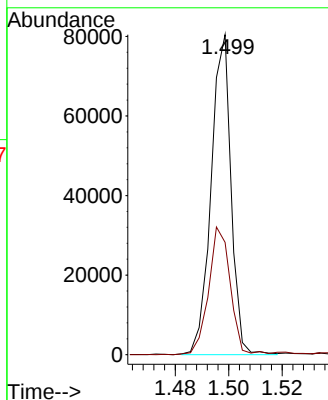
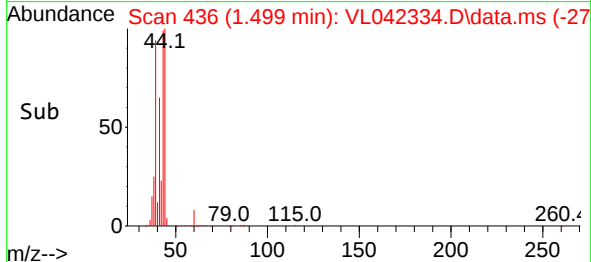
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion: 41 Resp: 4174
 Ion Ratio Lower Upper
 41 100
 42 85.6 55.4 83.2

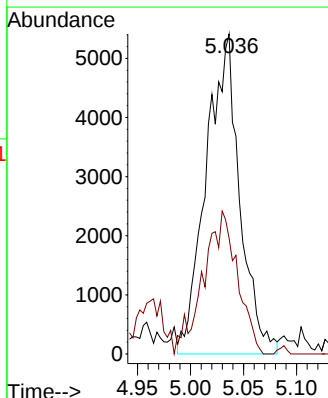
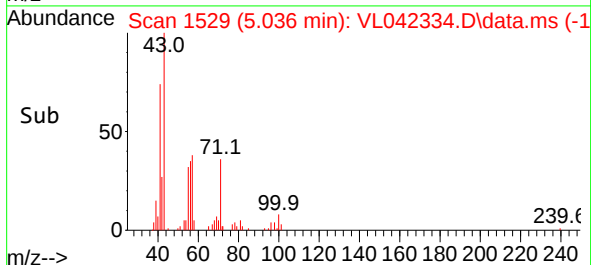
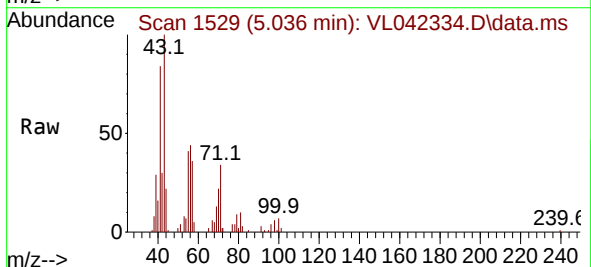
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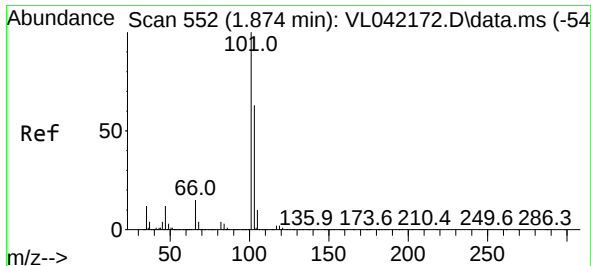
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#10
 Heptane
 Concen: 0.361 ppbv m
 RT: 5.036 min Scan# 1529
 Delta R.T. 0.064 min
 Lab File: VL042334.D
 Acq: 15 Apr 2025 16:08

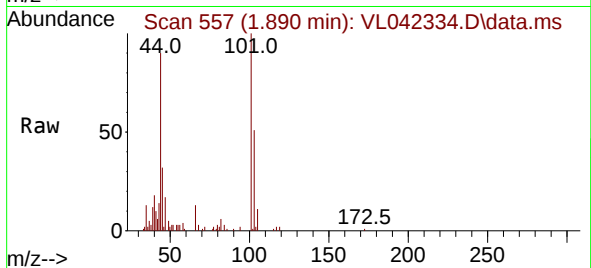
Tgt Ion: 43 Resp: 11932
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2





#11
Trichlorofluoromethane
Concen: 0.182 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.016 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

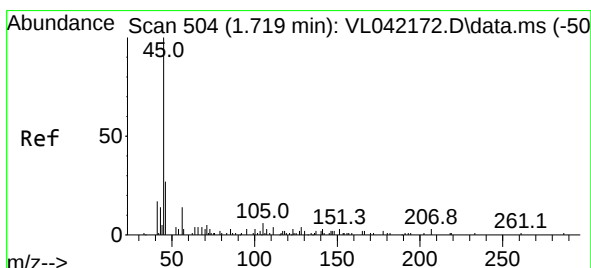
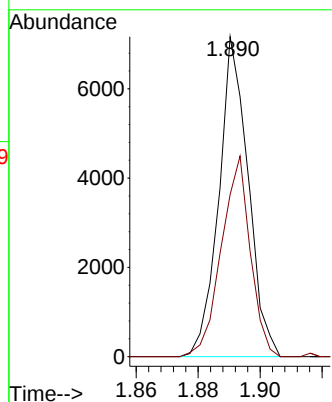
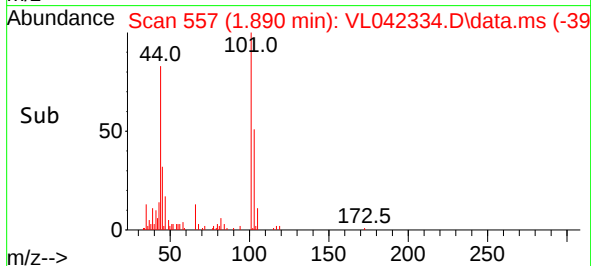
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 470
Ion Ratio Lower Upper
101 100
103 50.6 50.2 75.2

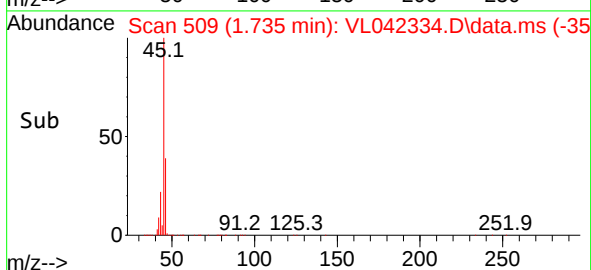
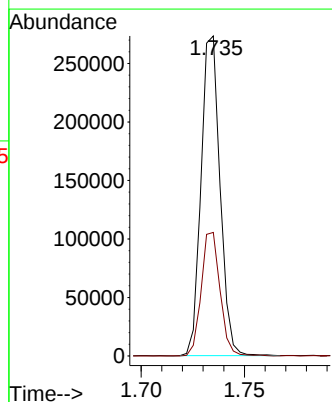
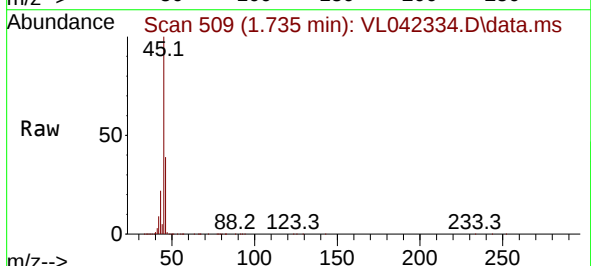
Manual Integrations
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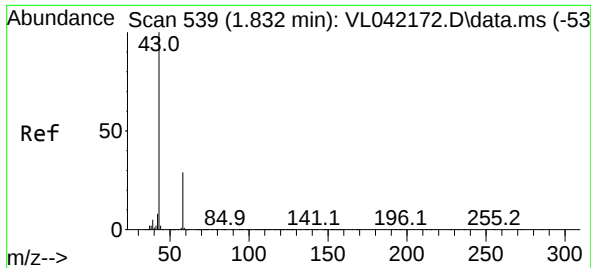
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#13
Ethanol
Concen: 148.373 ppbv
RT: 1.735 min Scan# 509
Delta R.T. 0.016 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

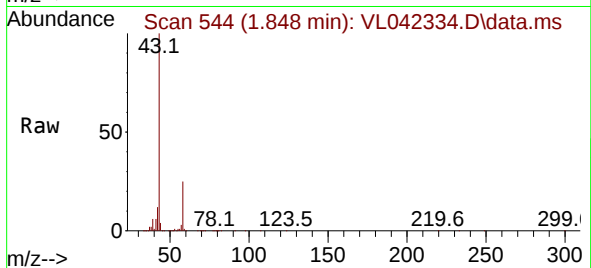
Tgt Ion: 45 Resp: 174144
Ion Ratio Lower Upper
45 100
46 38.5 20.2 80.8





#15
Acetone
Concen: 16.796 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

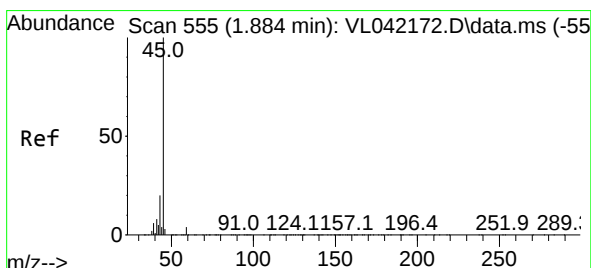
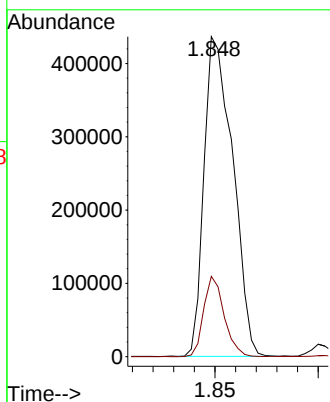
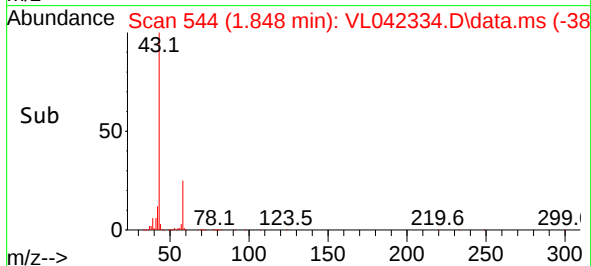
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



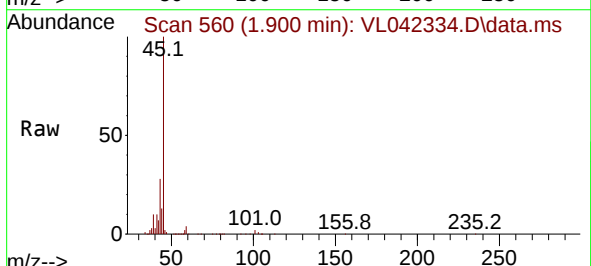
Tgt Ion: 43 Resp: 421840
Ion Ratio Lower Upper
43 100
58 18.0 23.2 34.8

Manual Integrations
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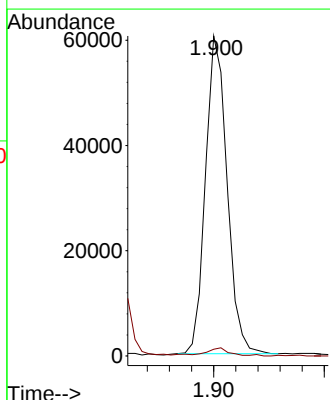
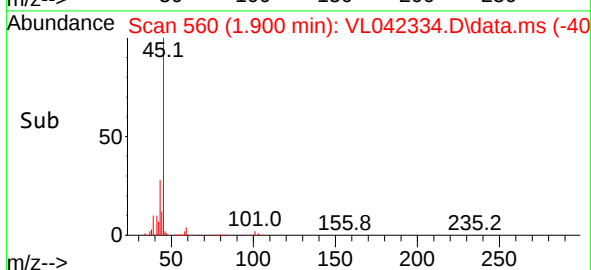
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

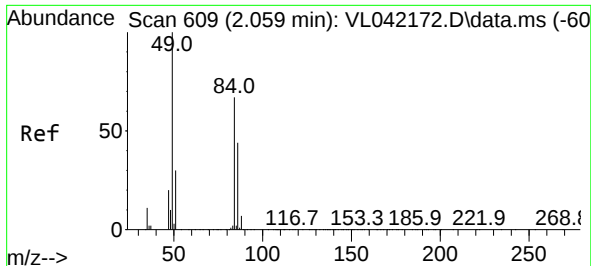


#19
Isopropyl Alcohol
Concen: 2.890 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08



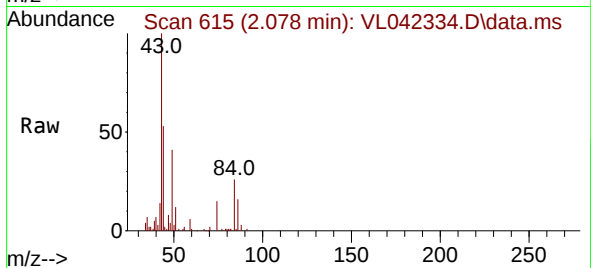
Tgt Ion: 45 Resp: 40949
Ion Ratio Lower Upper
45 100
58 185.6 36.9 55.3





#20
Methylene Chloride
Concen: 0.352 ppbv
RT: 2.078 min Scan# 615
Delta R.T. 0.019 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

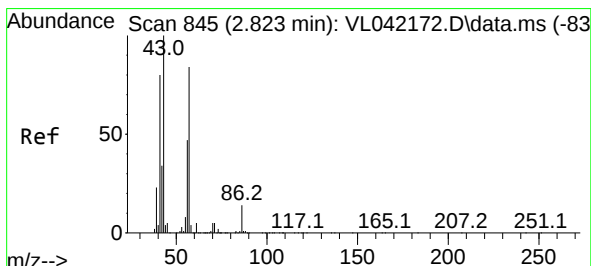
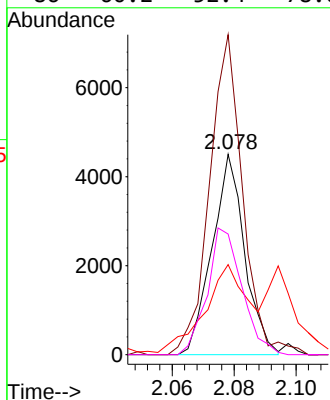
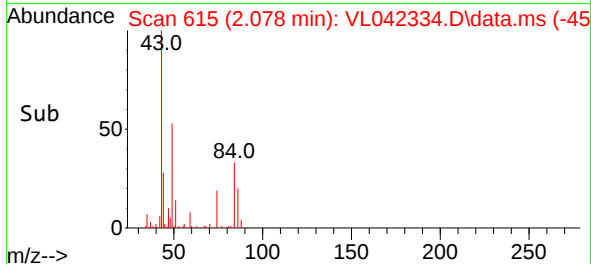
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Tgt Ion: 84 Resp: 329
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 33.4 37.4 56.0
86 60.2 52.4 78.6

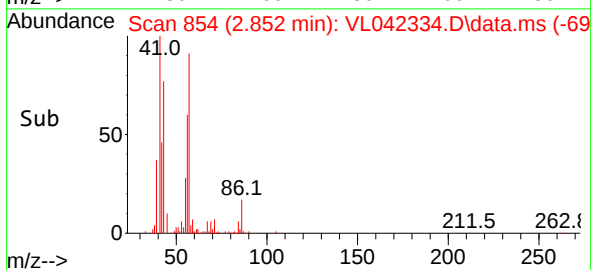
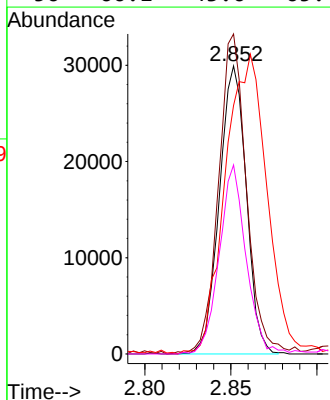
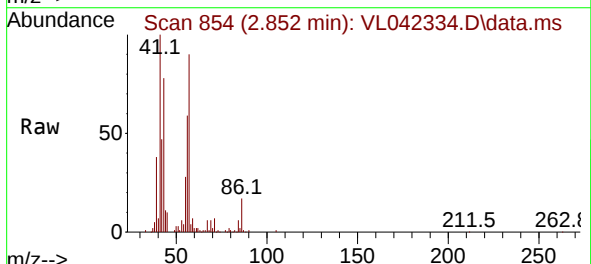
Manual Integrations
APPROVED

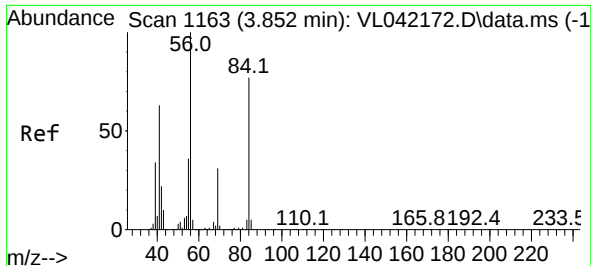
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#26
Hexane
Concen: 1.291 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.029 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

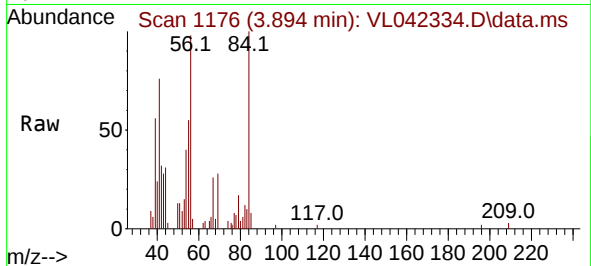
Tgt Ion: 57 Resp: 32511
Ion Ratio Lower Upper
57 100
41 116.2 76.6 114.8#
43 162.9 207.8 311.8#
56 66.1 43.6 65.4#





#30
Cyclohexane
Concen: 0.253 ppbv m
RT: 3.894 min Scan# 1163
Delta R.T. 0.042 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

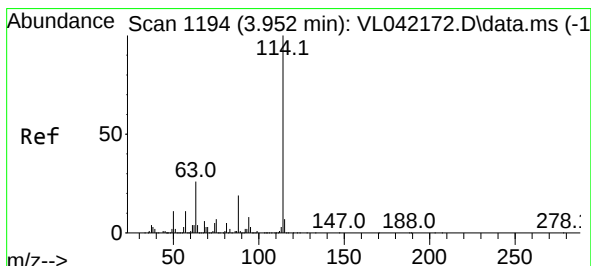
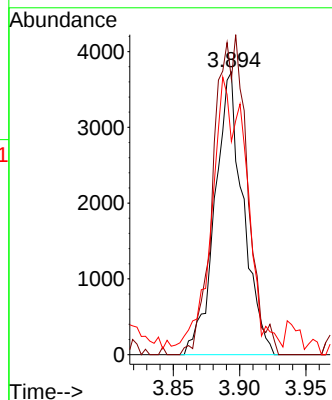
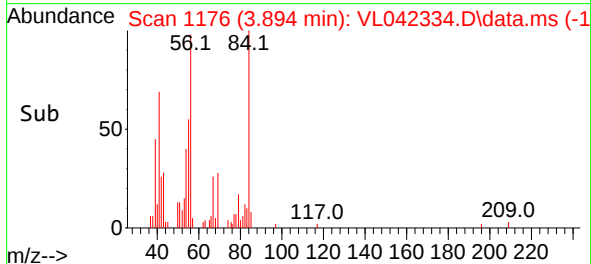
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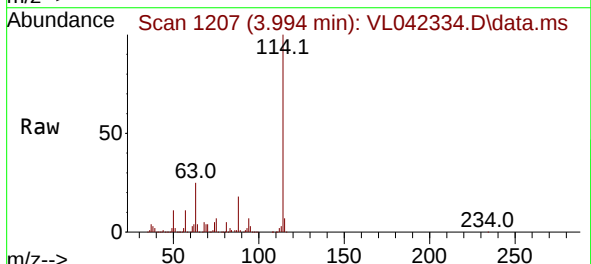
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Ion Ratio Lower Upper
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41 113.7 66.5 99.7

Manual Integrations
APPROVED

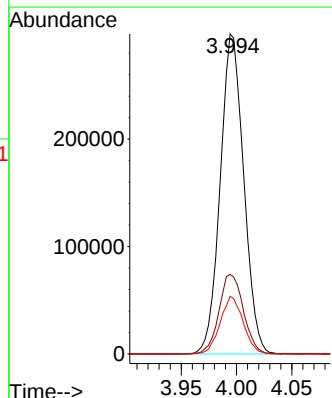
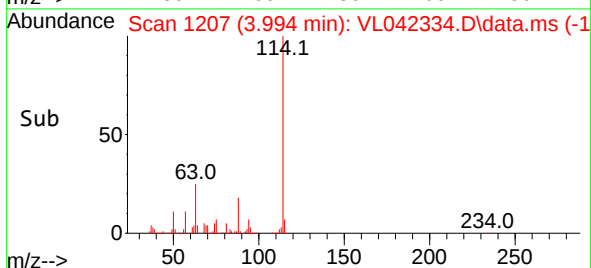
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

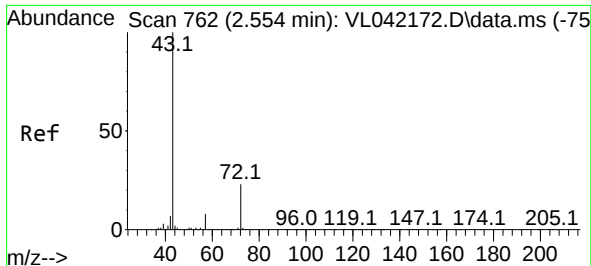


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.042 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08



Tgt Ion:114 Resp: 439918
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 17.6 15.0 22.4





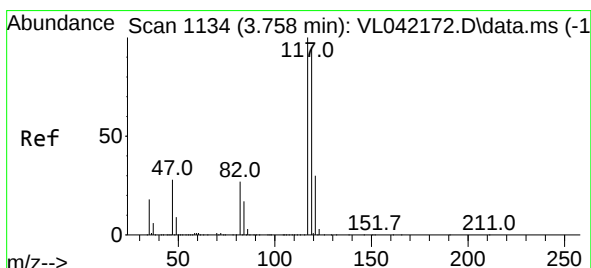
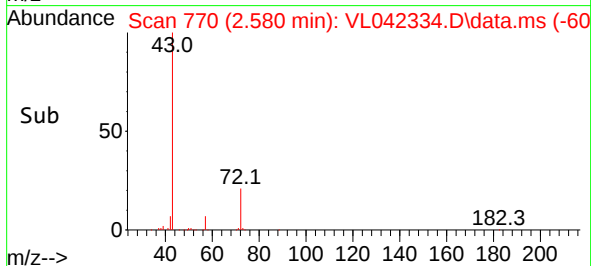
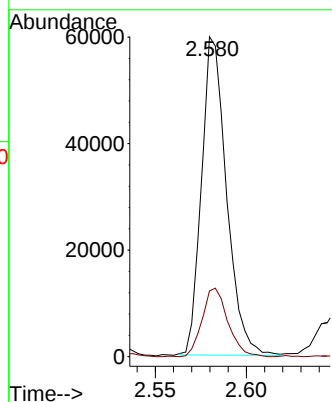
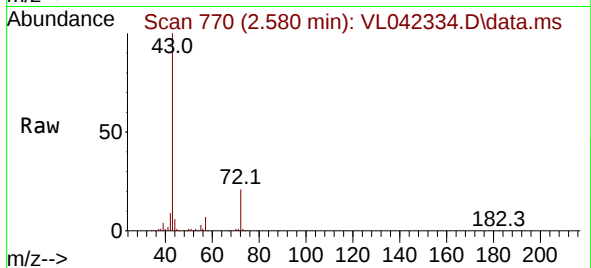
#34
2-Butanone
Concen: 1.792 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 5715
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2

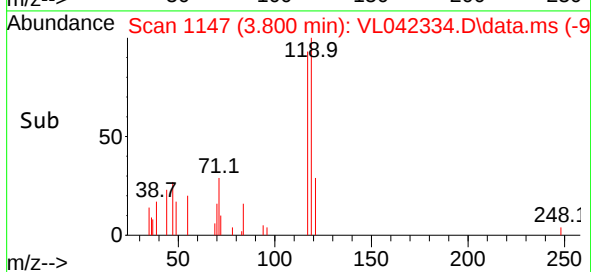
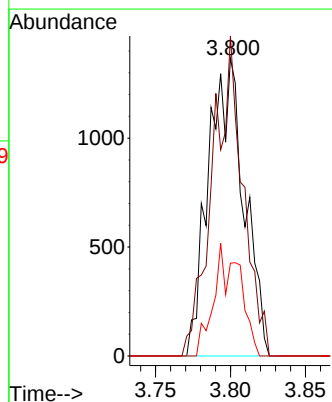
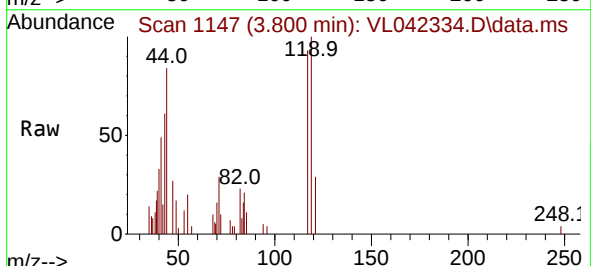
Manual Integrations
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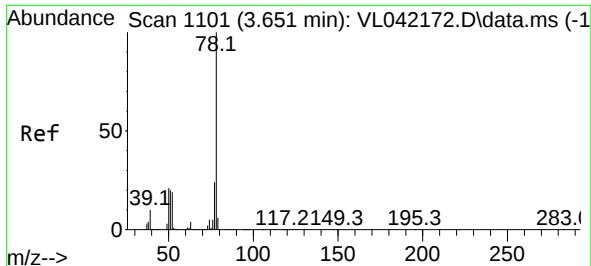
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.800 min Scan# 1147
Delta R.T. 0.042 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Tgt Ion:117 Resp: 2261
Ion Ratio Lower Upper
117 100
119 107.5 76.2 114.2
121 31.2 24.2 36.4





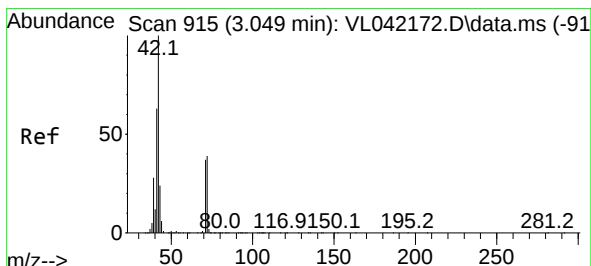
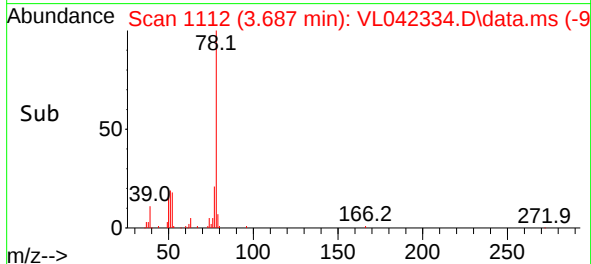
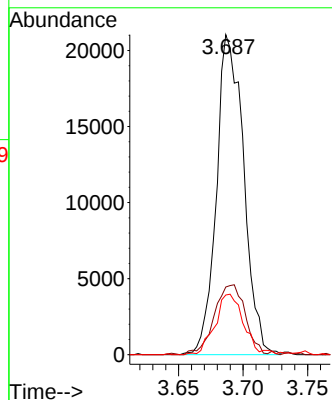
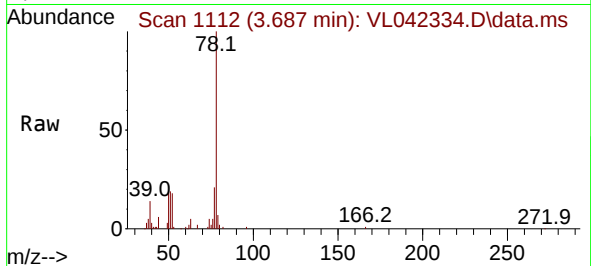
#36
Benzene
Concen: 0.707 ppbv
RT: 3.687 min Scan# 1112
Delta R.T. 0.035 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 78 Resp: 30839
Ion Ratio Lower Upper
78 100
77 21.2 19.1 28.7
50 18.7 16.6 24.8

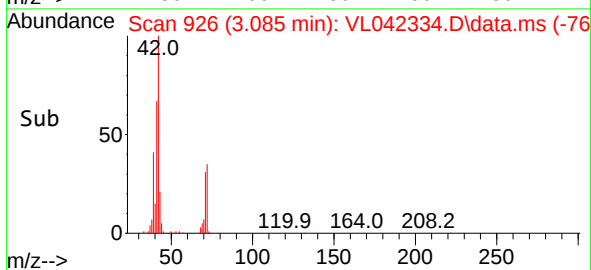
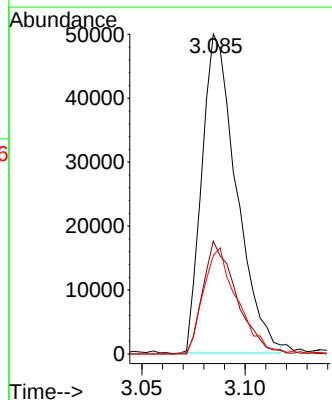
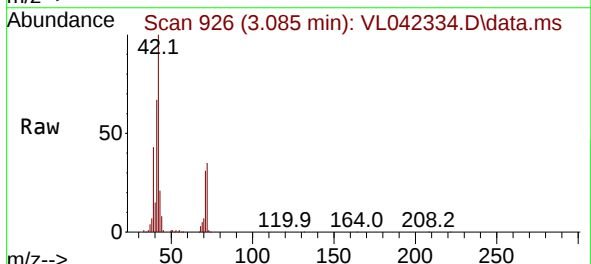
Manual Integrations
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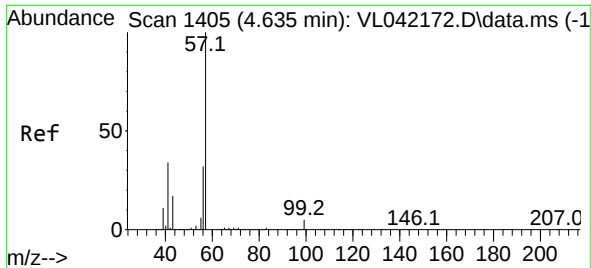
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#41
Tetrahydrofuran
Concen: 3.164 ppbv
RT: 3.085 min Scan# 926
Delta R.T. 0.035 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

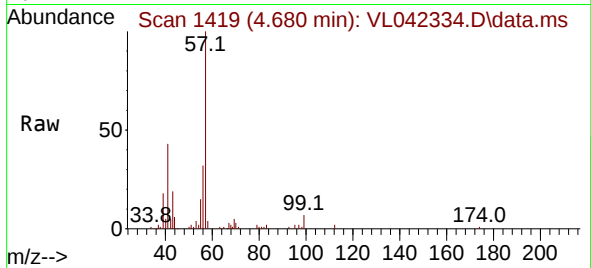
Tgt Ion: 42 Resp: 58119
Ion Ratio Lower Upper
42 100
72 34.5 31.4 47.0
71 33.2 30.2 45.4





#44
2,2,4-Trimethylpentane
Concen: 0.452 ppbv m
RT: 4.680 min Scan# 1419
Delta R.T. 0.045 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

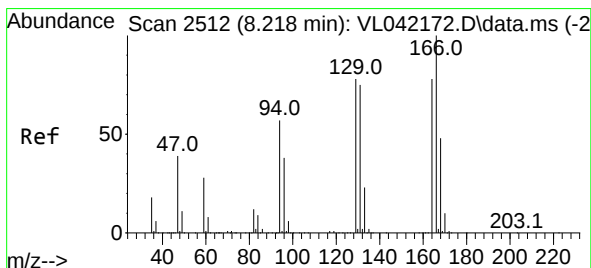
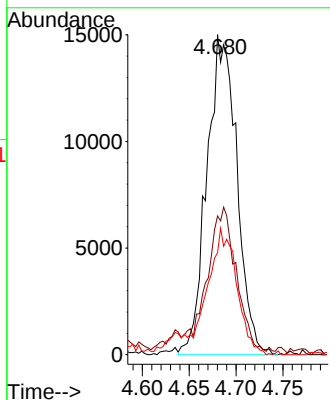
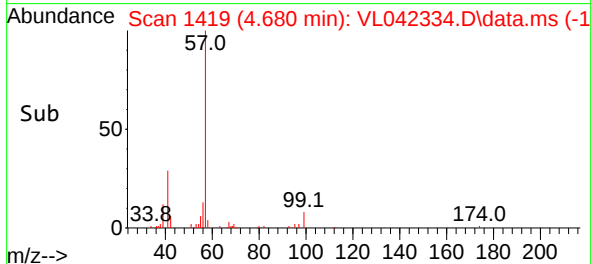
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 57 Resp: 3330
Ion Ratio Lower Upper
57 100
41 0.0 26.8 40.2
56 43.0 25.6 38.4

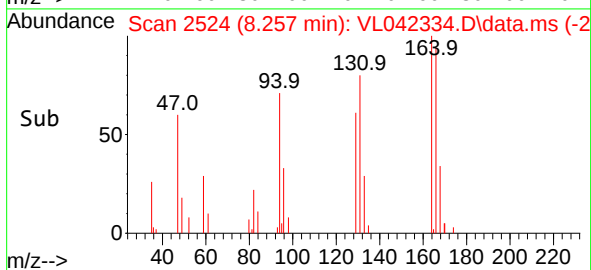
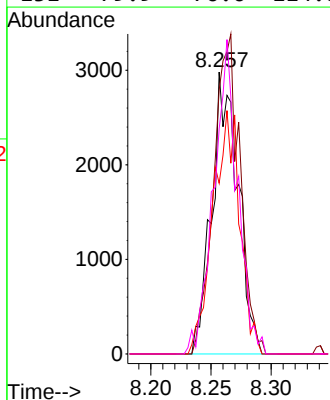
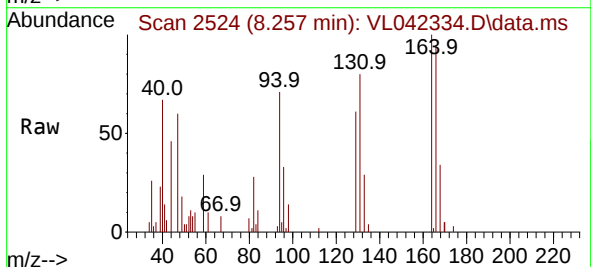
Manual Integrations
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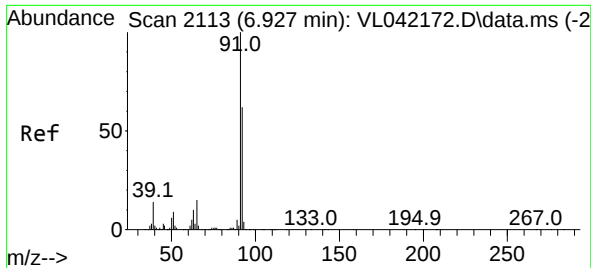
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#52
Tetrachloroethene
Concen: 0.261 ppbv m
RT: 8.257 min Scan# 2524
Delta R.T. 0.038 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Tgt Ion:164 Resp: 4514
Ion Ratio Lower Upper
164 100
166 93.6 102.5 153.7#
129 60.6 79.8 119.8#
131 79.9 76.6 114.8





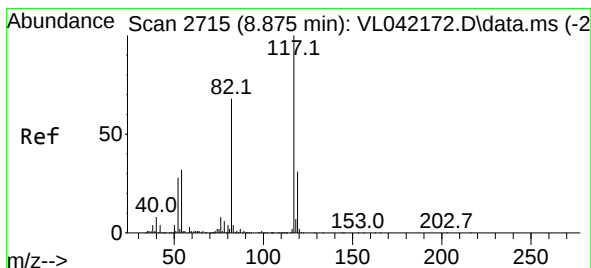
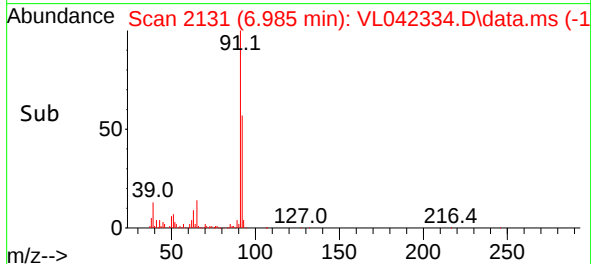
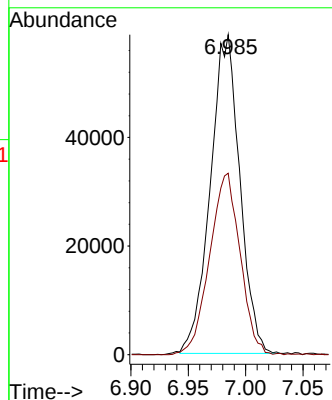
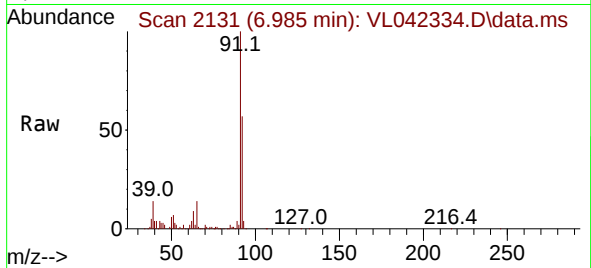
#53
Toluene
Concen: 2.032 ppbv
RT: 6.985 min Scan# 2113
Delta R.T. 0.058 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 105073
Ion Ratio Lower Upper
91 100
92 59.0 48.4 72.6

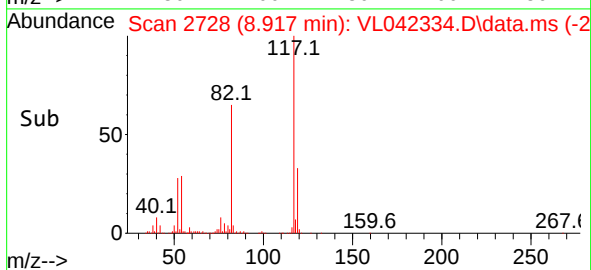
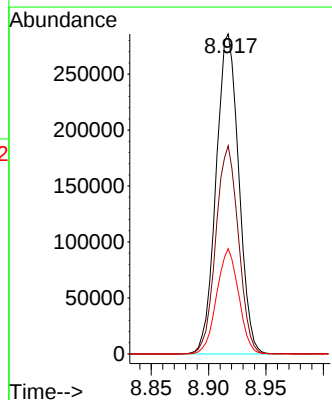
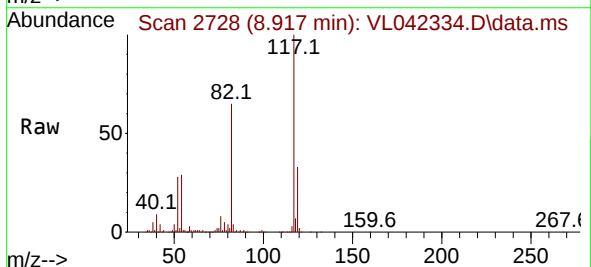
Manual Integrations
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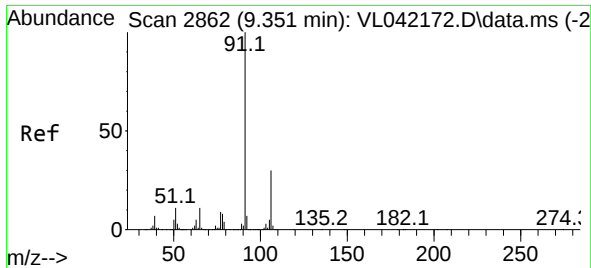
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.042 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Tgt Ion:117 Resp: 393360
Ion Ratio Lower Upper
117 100
82 64.8 55.8 83.6
119 32.0 25.5 38.3





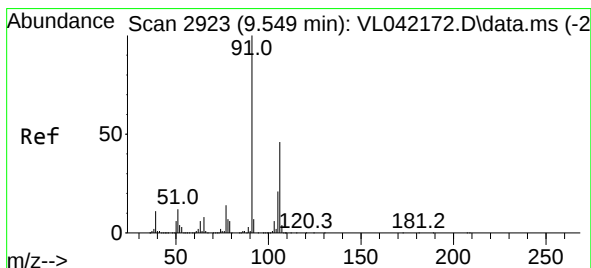
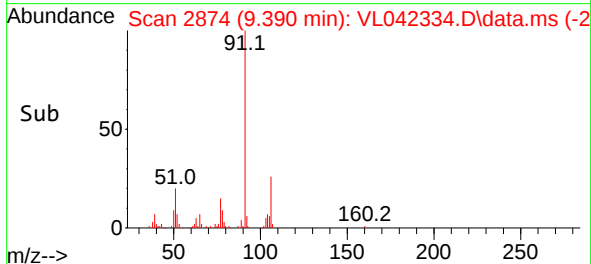
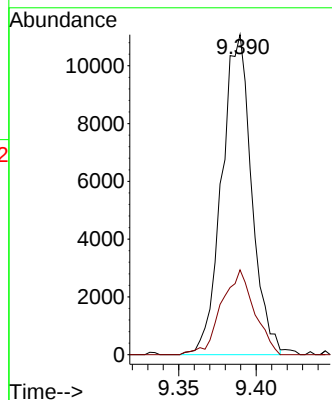
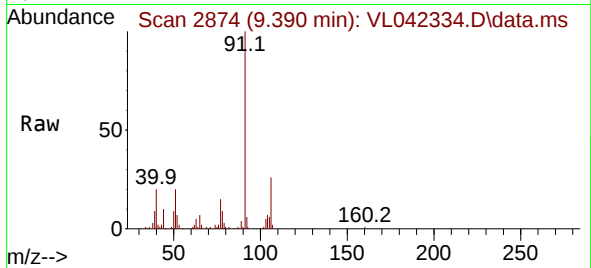
#58
Ethyl Benzene
Concen: 0.213 ppbv
RT: 9.390 min Scan# 21
Delta R.T. 0.038 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 1486
Ion Ratio Lower Upper
91 100
106 26.5 24.2 36.2

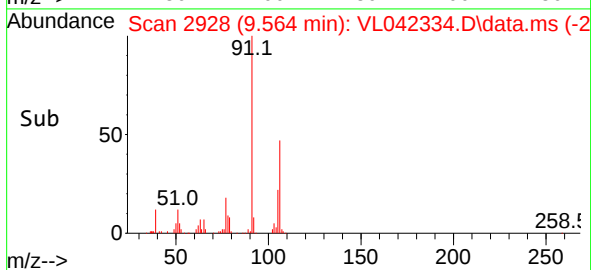
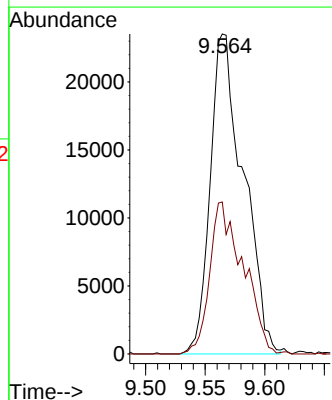
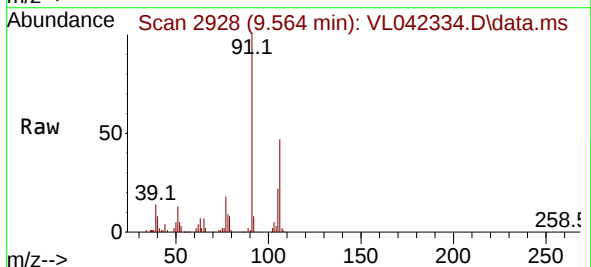
Manual Integrations
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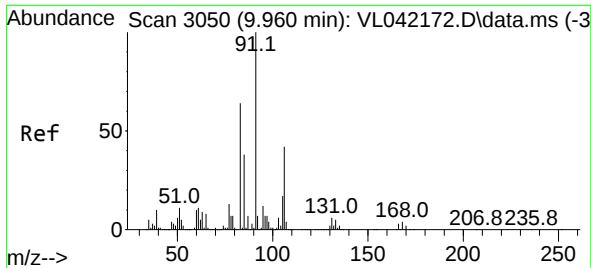
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#59
m/p-Xylene
Concen: 0.818 ppbv
RT: 9.564 min Scan# 2928
Delta R.T. 0.016 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Tgt Ion: 91 Resp: 45628
Ion Ratio Lower Upper
91 100
106 48.1 36.4 54.6





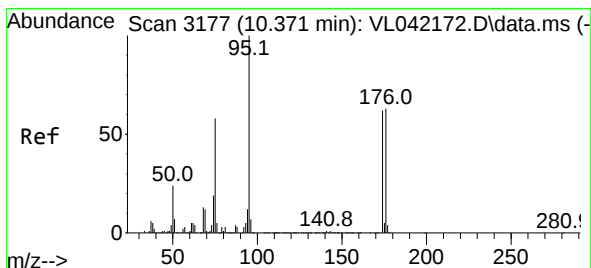
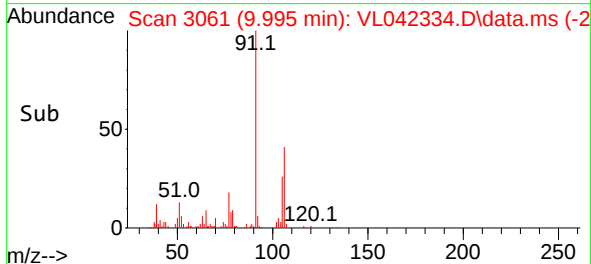
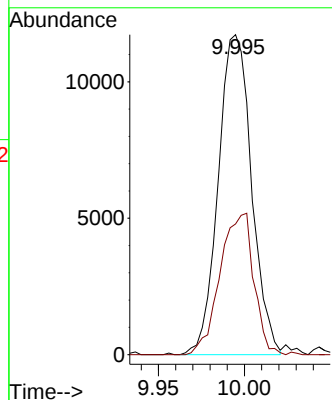
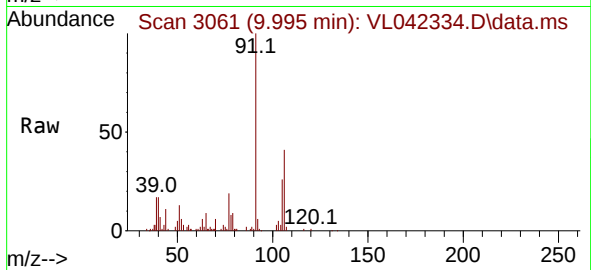
#60
o-Xylene
Concen: 0.282 ppbv
RT: 9.995 min Scan# 3050
Delta R.T. 0.035 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 15795
Ion Ratio Lower Upper
91 100
106 44.8 20.8 62.5

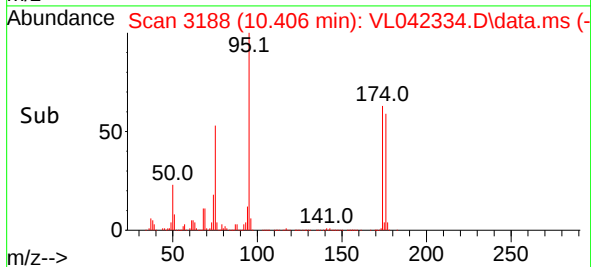
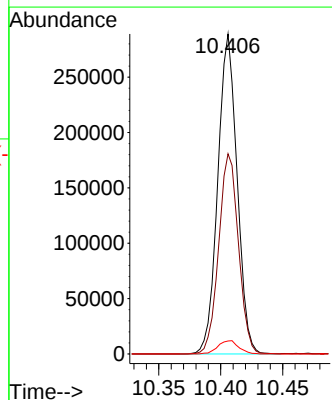
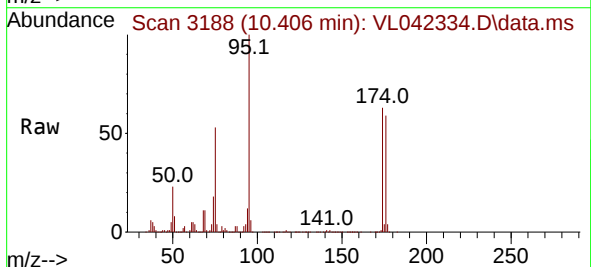
Manual Integrations
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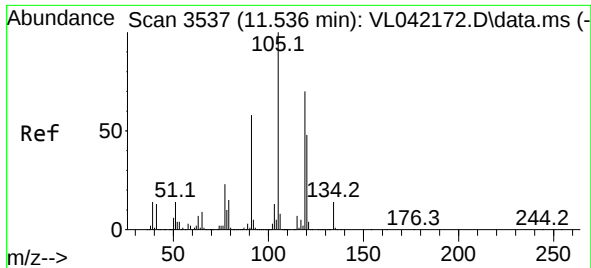
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.726 ppbv
RT: 10.406 min Scan# 3188
Delta R.T. 0.035 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Tgt Ion: 95 Resp: 314181
Ion Ratio Lower Upper
95 100
174 63.9 50.6 76.0
175 4.5 3.8 5.6





#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv
RT: 11.561 min Scan# 3545
Delta R.T. 0.026 min
Lab File: VL042334.D
Acq: 15 Apr 2025 16:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:	105	Resp:	19209
Ion	Ratio	Lower	Upper
105	100		
120	52.4	38.6	58.0
91	13.3	46.2	69.2
77	18.6	18.6	27.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

