

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042222.D
 Acq On : 04 Apr 2025 13:20
 Operator : SY/MD
 Sample : Q1691-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:02:50 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

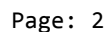
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

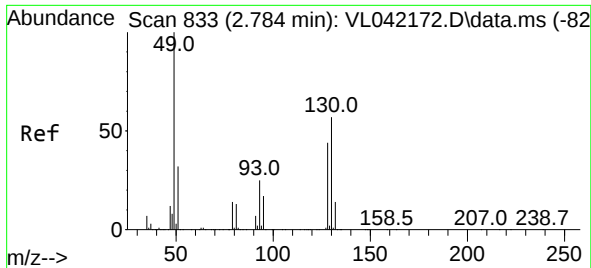
Internal Standards						
1) Bromochloromethane	2.787	49	190677	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	525113	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	459228	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	373558	9.905	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11629	0.413	ppbv #	85
3) Chlorodifluoromethane	1.476	51	9158m	0.318	ppbv	
4) Chloromethane	1.532	50	11024	0.958	ppbv	100
9) Propene	1.486	41	7874	0.597	ppbv	93
11) Trichlorofluoromethane	1.878	101	6192	0.226	ppbv	99
13) Ethanol	1.722	45	80444	64.552	ppbv	80
15) Acetone	1.836	43	258037	9.676	ppbv	95
19) Isopropyl Alcohol	1.888	45	32145	2.136	ppbv #	1
20) Methylene Chloride	2.062	84	10300	1.037	ppbv	91
23) Vinyl Acetate	2.457	43	37490	3.248	ppbv #	84
26) Hexane	2.826	57	11149	0.417	ppbv #	40
29) Chloroform	2.849	83	32730	0.837	ppbv	98
34) 2-Butanone	2.564	43	41009	1.077	ppbv	96
35) Carbon Tetrachloride	3.765	117	4649	0.113	ppbv	94
36) Benzene	3.661	78	9467	0.182	ppbv	94
40) 1,4-Dioxane	4.626	88	1888m	0.188	ppbv	
41) Tetrahydrofuran	3.072	42	2203m	0.100	ppbv	
51) 2-Hexanone	7.458	43	5534m	0.112	ppbv	
52) Tetrachloroethene	8.228	164	5477m	0.265	ppbv	
53) Toluene	6.937	91	17461m	0.283	ppbv	
59) m/p-Xylene	9.532	91	10747m	0.165	ppbv	

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

Manual Integrations

Quant Time: Apr 05 02:02:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





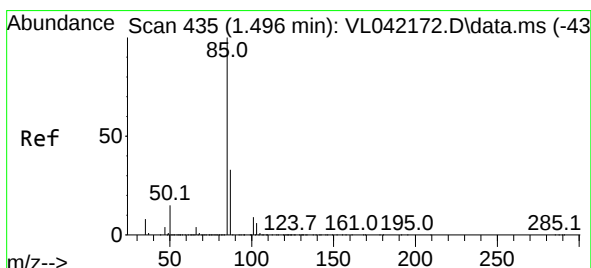
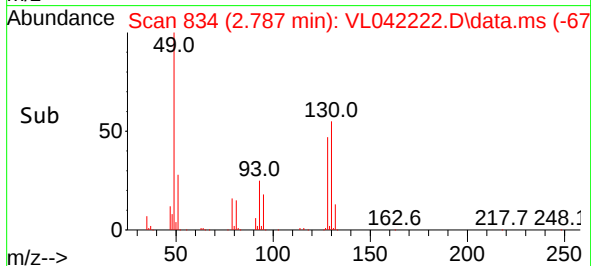
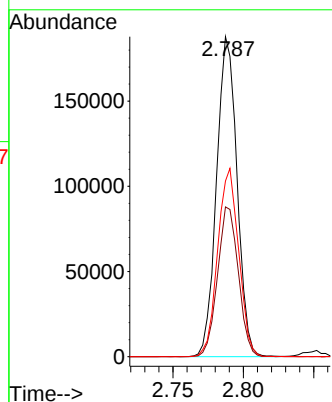
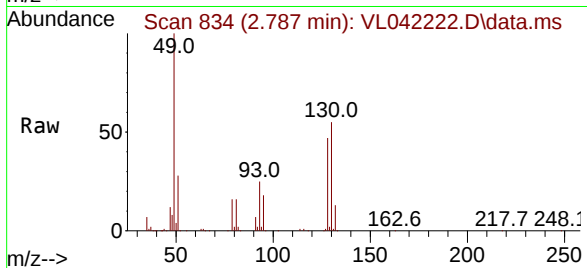
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion: 49 Resp: 19067
Ion Ratio Lower Upper
49 100
128 47.6 22.9 68.5
130 60.3 28.8 86.4

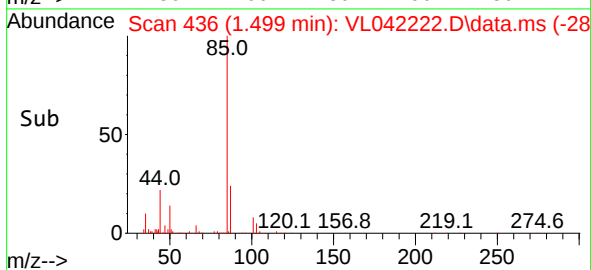
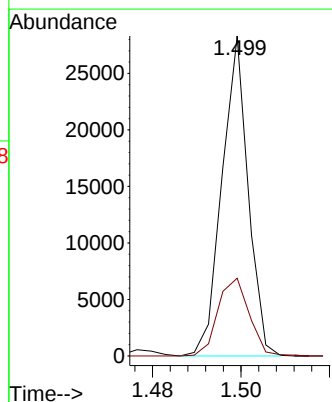
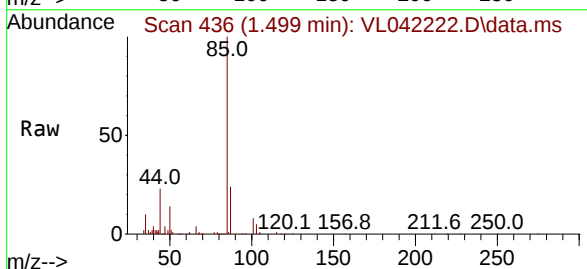
Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.413 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

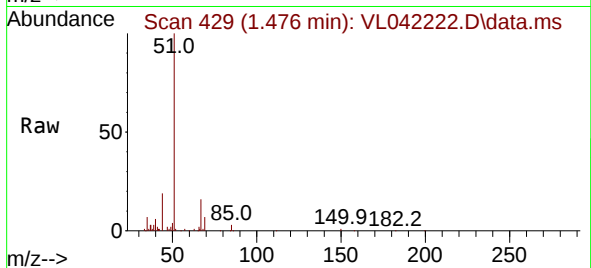
Tgt Ion: 85 Resp: 11629
Ion Ratio Lower Upper
85 100
87 24.3 26.1 39.1#





#3
Chlorodifluoromethane
Concen: 0.318 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

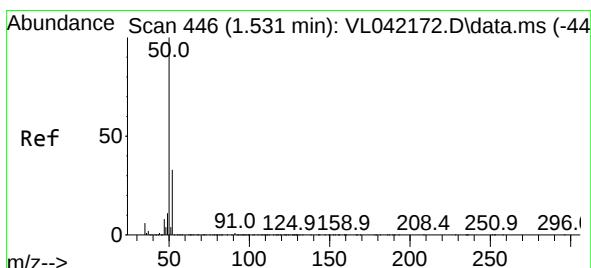
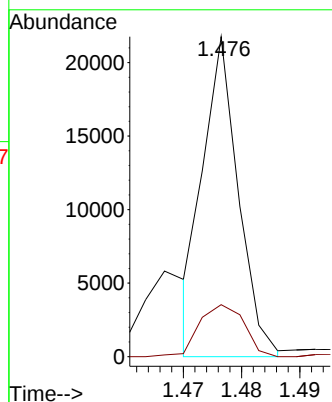
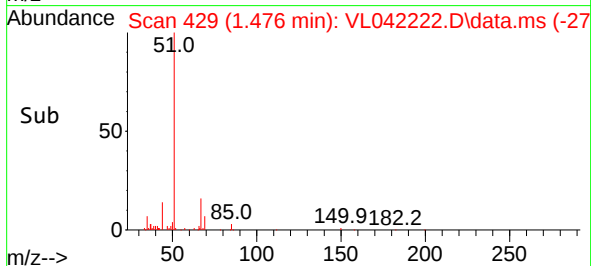
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



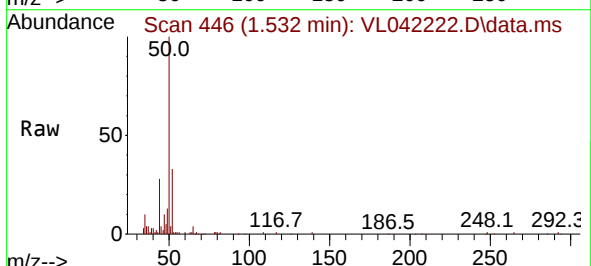
Tgt Ion: 51 Resp: 9158
Ion Ratio Lower Upper
51 100
67 21.9 15.0 22.6

Manual Integrations
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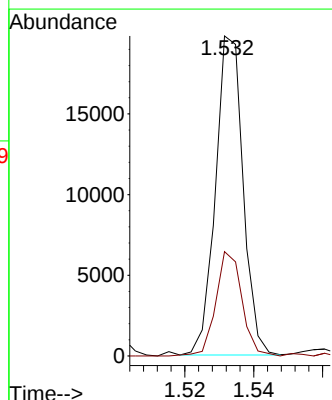
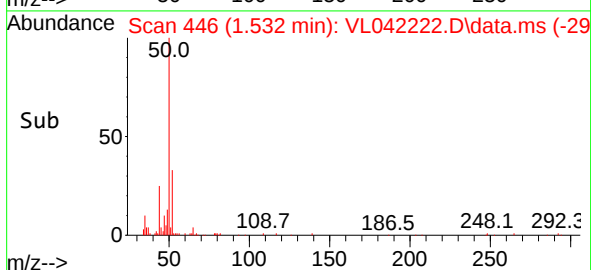
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

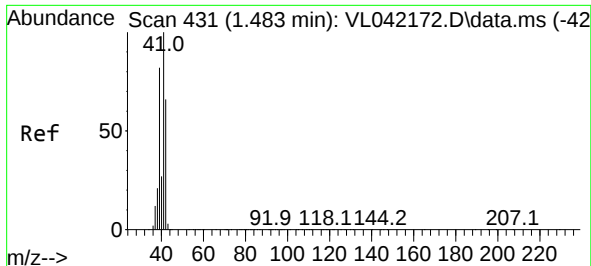


#4
Chloromethane
Concen: 0.958 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20



Tgt Ion: 50 Resp: 11024
Ion Ratio Lower Upper
50 100
52 32.7 26.1 39.1





#9

Propene

Concen: 0.597 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042222.D

Acq: 04 Apr 2025 13:20

Instrument :

MSVOA_L

ClientSampleId :

IA2RDUP

Tgt Ion: 41 Resp: 7874

Ion Ratio Lower Upper

41 100

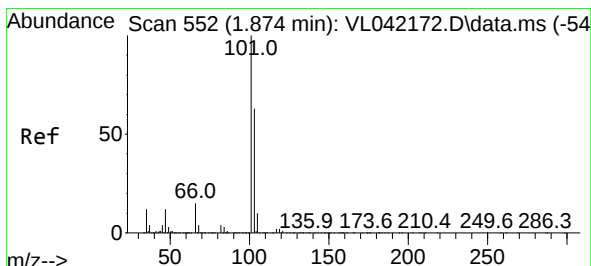
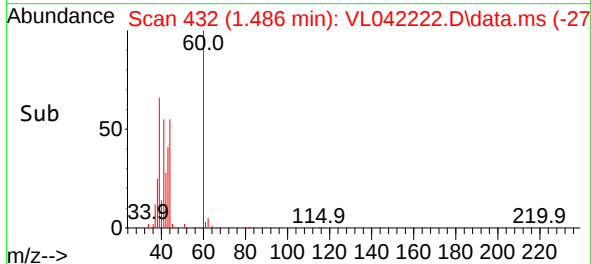
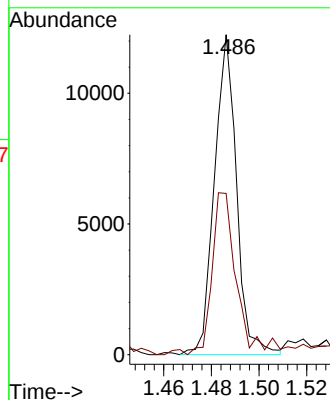
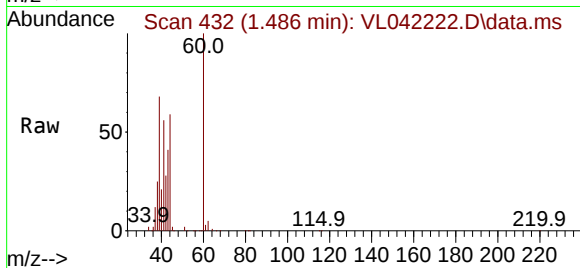
42 63.6 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042222.D

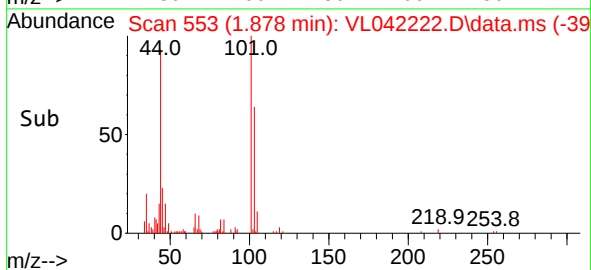
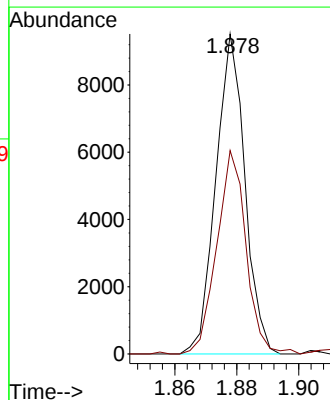
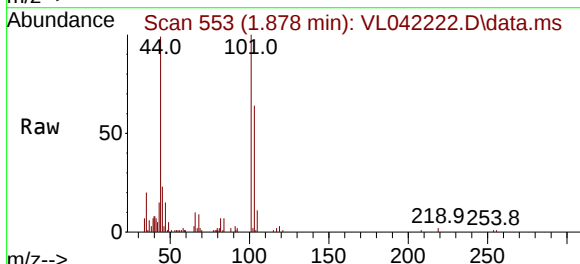
Acq: 04 Apr 2025 13:20

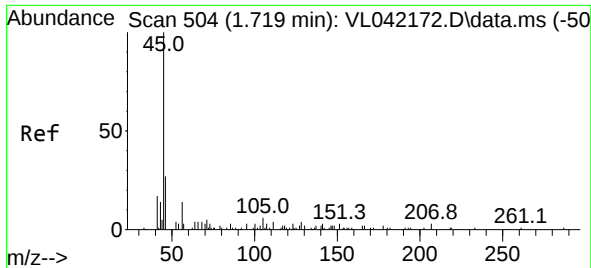
Tgt Ion:101 Resp: 6192

Ion Ratio Lower Upper

101 100

103 63.5 50.2 75.2





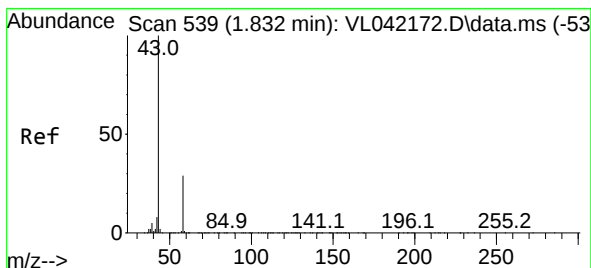
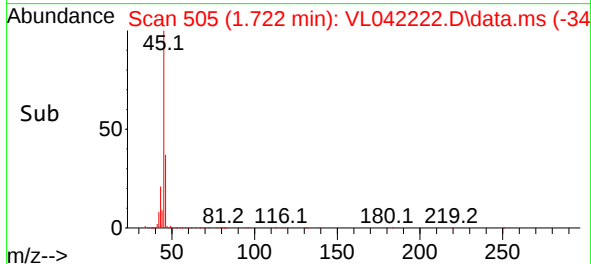
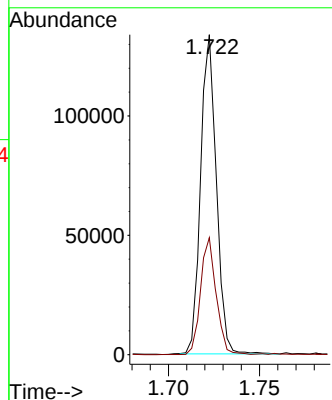
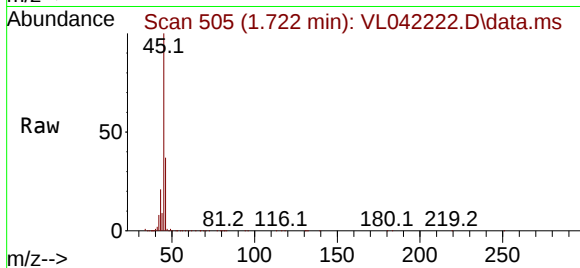
#13
Ethanol
Concen: 64.552 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion: 45 Resp: 8044
Ion Ratio Lower Upper
45 100
46 36.7 20.2 80.8

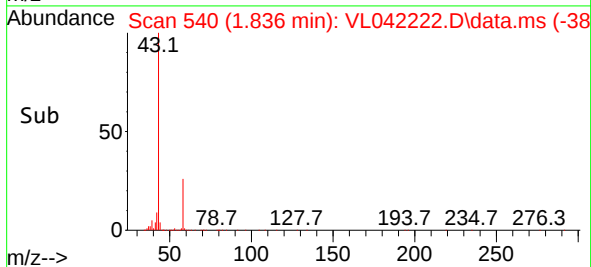
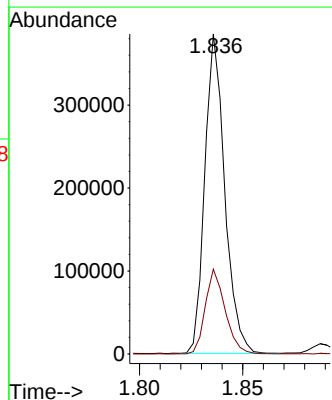
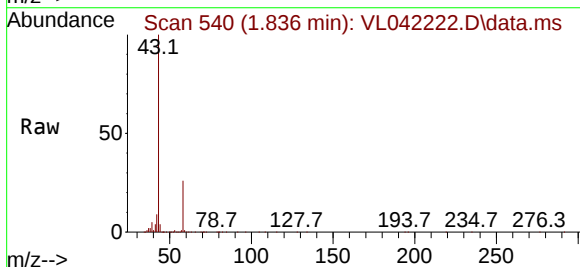
Manual Integrations
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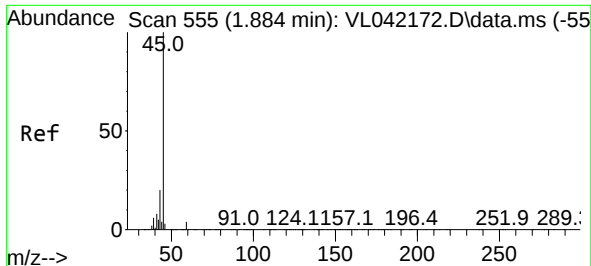
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 9.676 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Tgt Ion: 43 Resp: 258037
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8





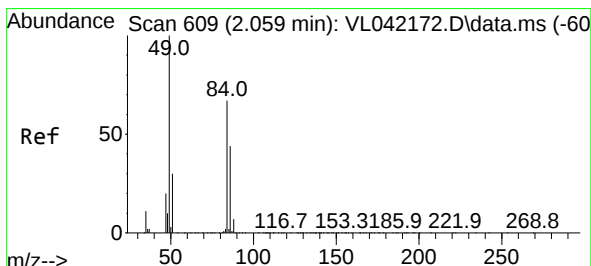
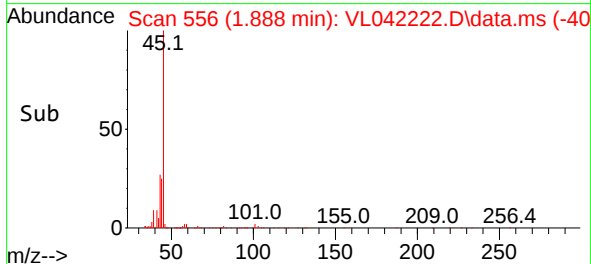
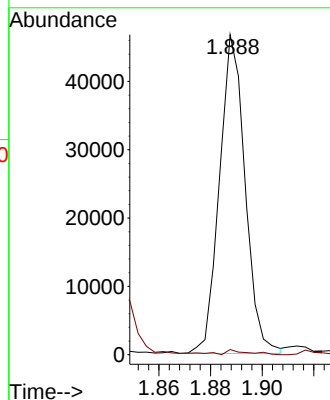
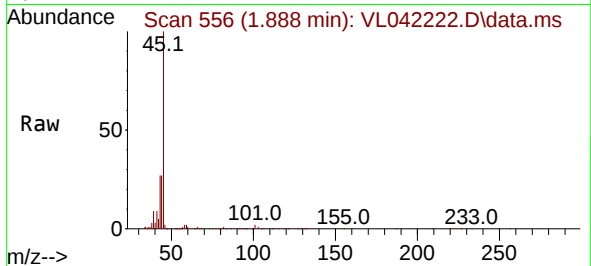
#19
Isopropyl Alcohol
Concen: 2.136 ppbv
RT: 1.888 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion: 45 Resp: 3214
Ion Ratio Lower Upper
45 100
58 212.8 36.9 55.3

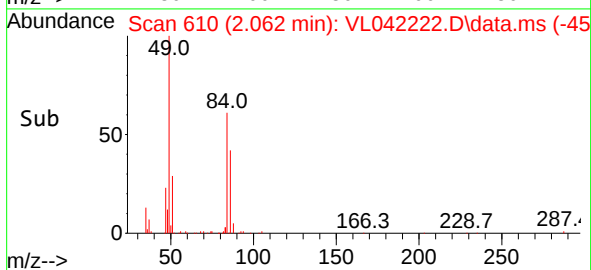
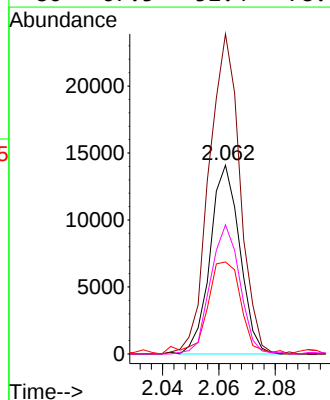
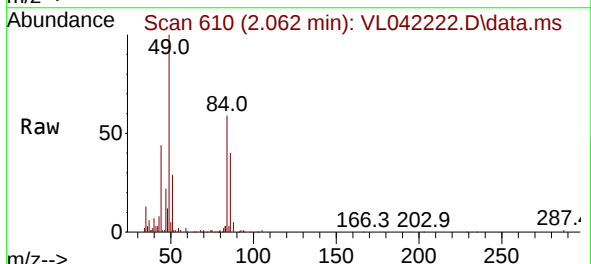
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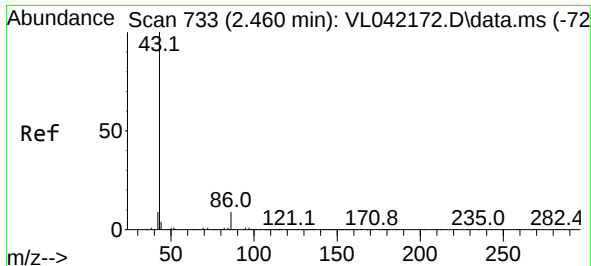
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#20
Methylene Chloride
Concen: 1.037 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Tgt Ion: 84 Resp: 10300
Ion Ratio Lower Upper
84 100
49 168.2 120.2 180.4
51 48.0 37.4 56.0
86 67.5 52.4 78.6





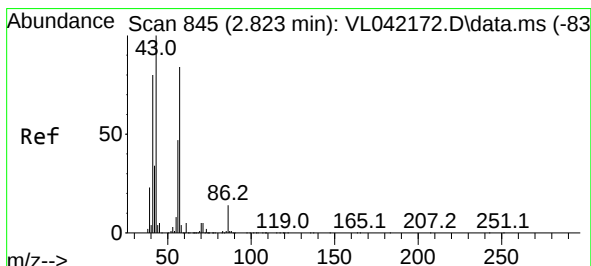
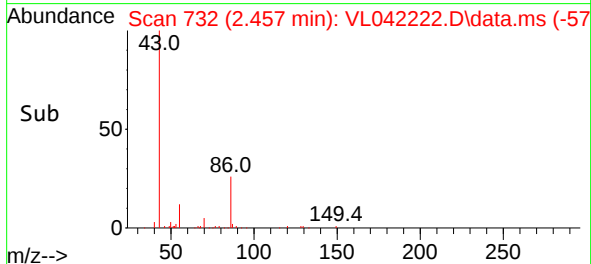
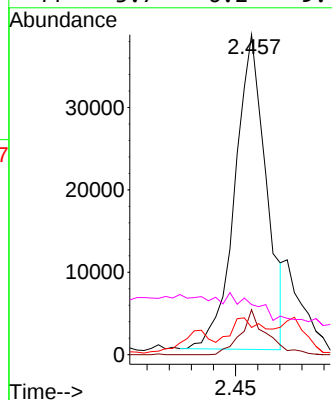
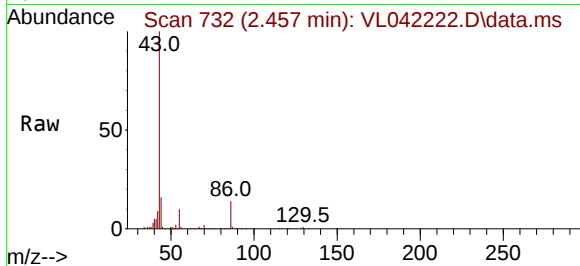
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 Vinyl Acetate
 Concen: 3.248 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042222.D
 Acq: 04 Apr 2025 13:20

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDUP

Tgt Ion: 43 Resp: 37490
 Ion Ratio Lower Upper
 43 100
 86 14.4 5.5 8.3
 42 5.0 8.6 13.0
 44 3.7 6.2 9.4

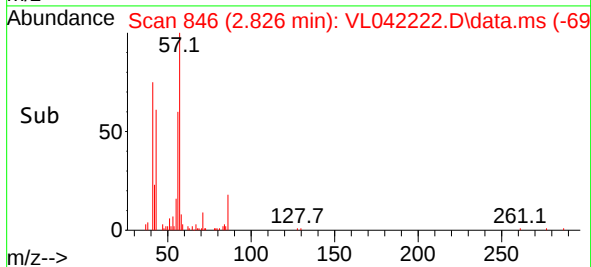
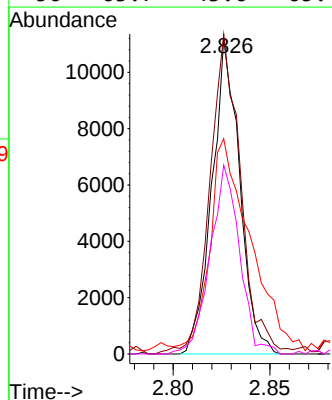
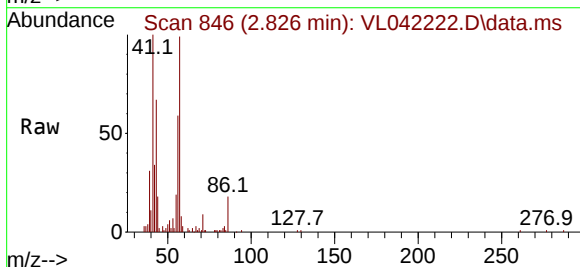
Manual Integrations
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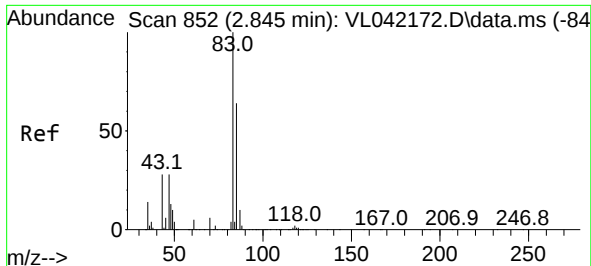
Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



#26
 Hexane
 Concen: 0.417 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.003 min
 Lab File: VL042222.D
 Acq: 04 Apr 2025 13:20

Tgt Ion: 57 Resp: 11149
 Ion Ratio Lower Upper
 57 100
 41 113.3 76.6 114.8
 43 107.2 207.8 311.8
 56 63.7 43.6 65.4





#29

Chloroform

Concen: 0.837 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042222.D

Acq: 04 Apr 2025 13:20

Instrument :

MSVOA_L

ClientSampleId :

IA2RDUP

Tgt Ion: 83 Resp: 32730

Ion Ratio Lower Upper

83 100

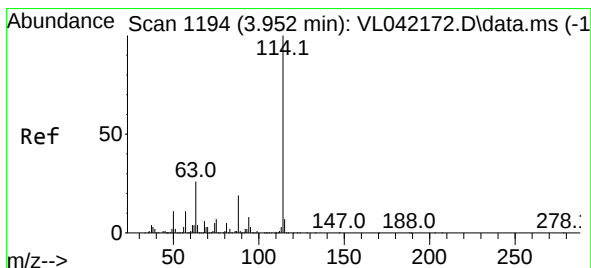
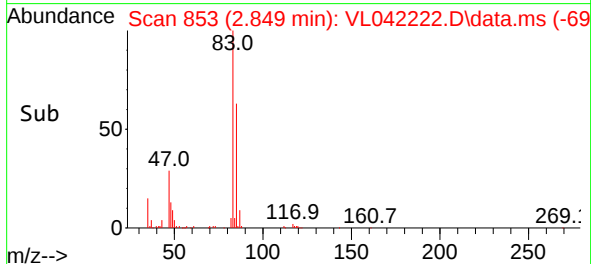
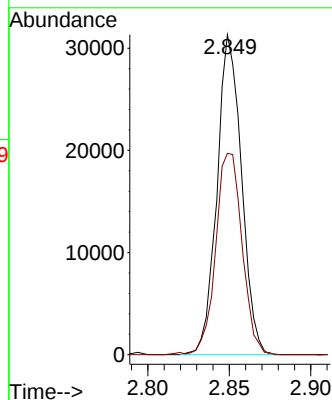
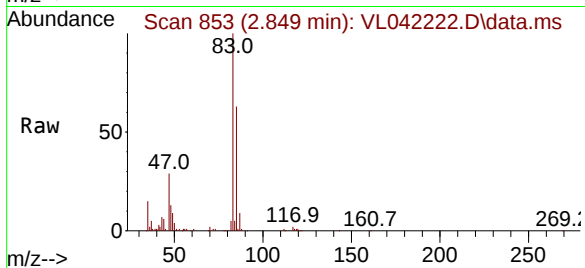
85 62.9 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042222.D

Acq: 04 Apr 2025 13:20

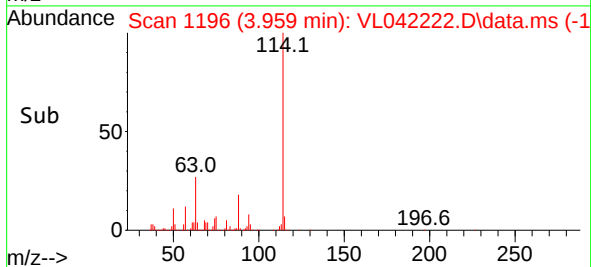
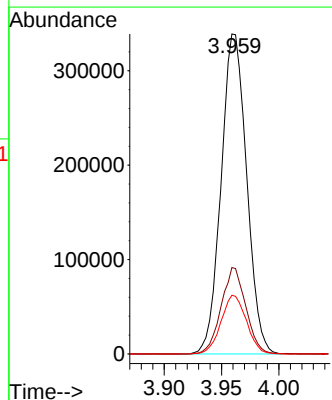
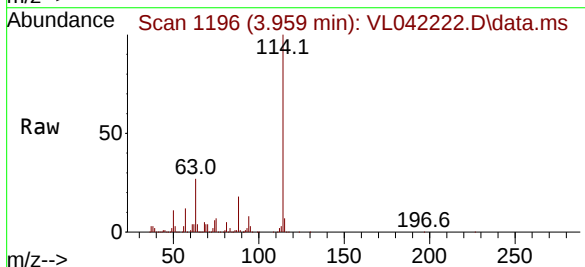
Tgt Ion:114 Resp: 525113

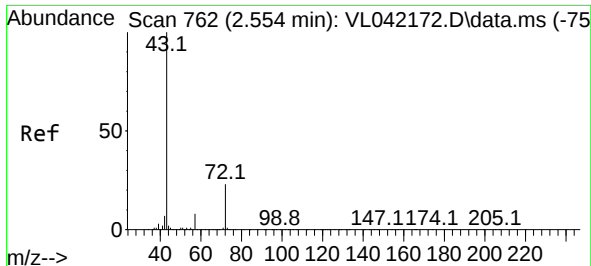
Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

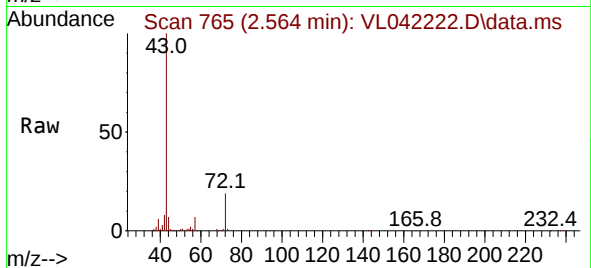
88 18.2 15.0 22.4





#34
2-Butanone
Concen: 1.077 ppbv
RT: 2.564 min Scan# 762
Delta R.T. 0.010 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

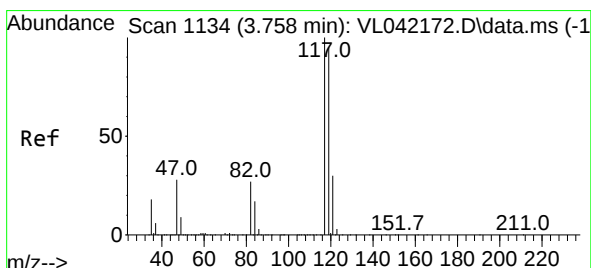
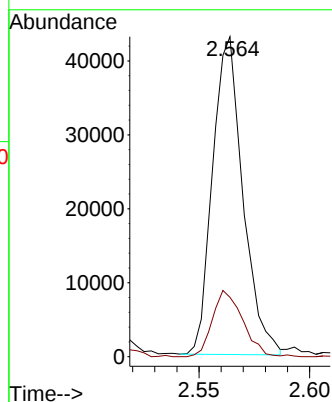
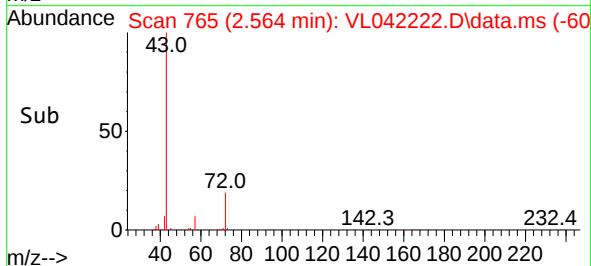
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



Tgt Ion: 43 Resp: 41009
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2

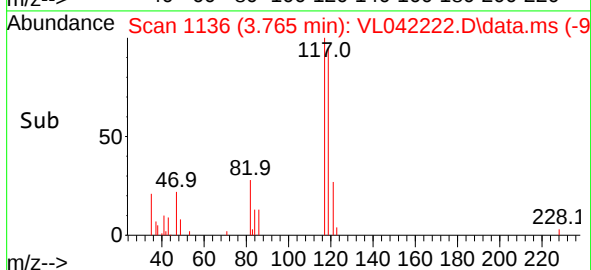
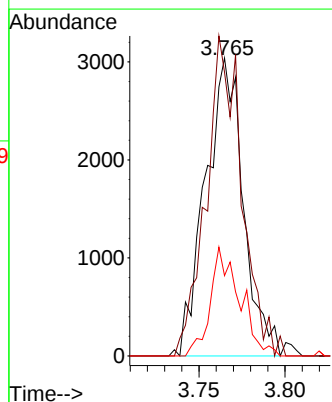
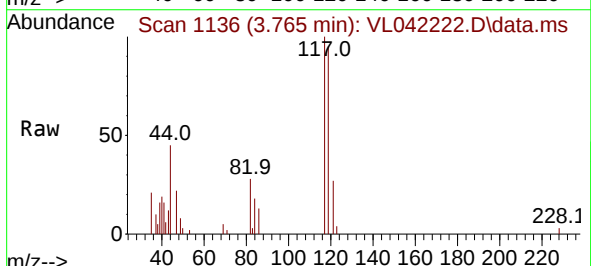
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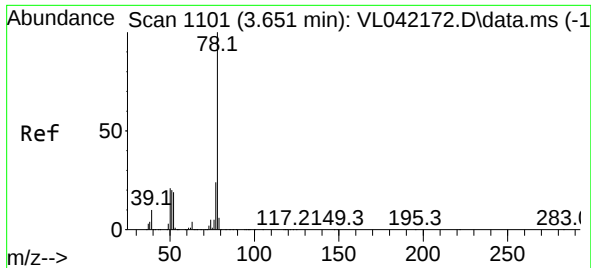
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#35
Carbon Tetrachloride
Concen: 0.113 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. 0.007 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Tgt Ion:117 Resp: 4649
Ion Ratio Lower Upper
117 100
119 89.3 76.2 114.2
121 26.9 24.2 36.4





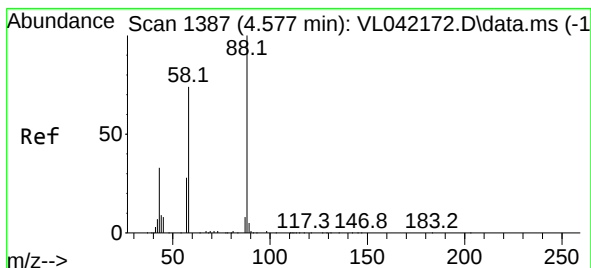
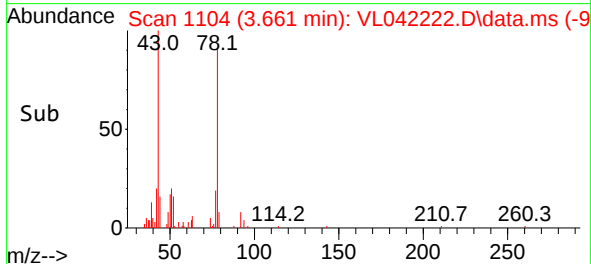
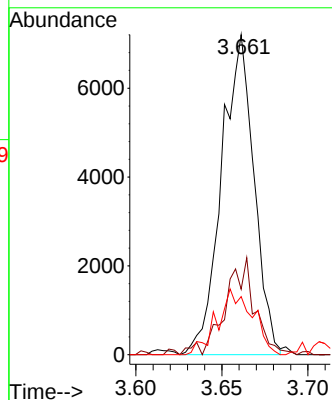
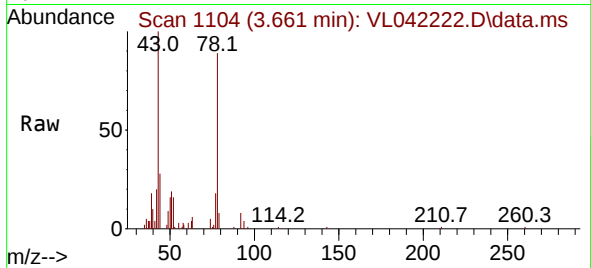
#36
Benzene
Concen: 0.182 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion: 78	Resp: 946
Ion Ratio	Lower Upper
78 100	
77 20.5	19.1 28.7
50 18.1	16.6 24.8

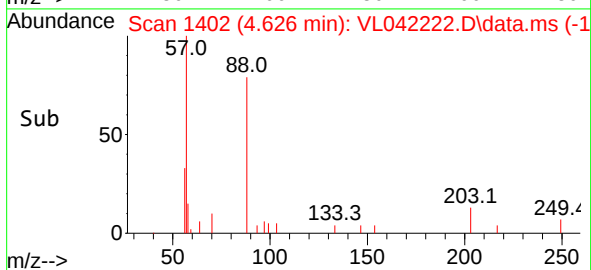
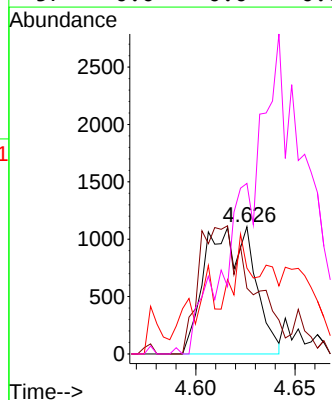
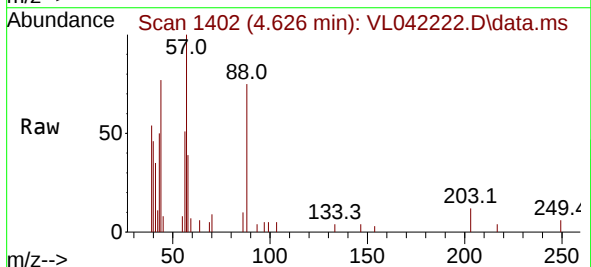
Manual Integrations
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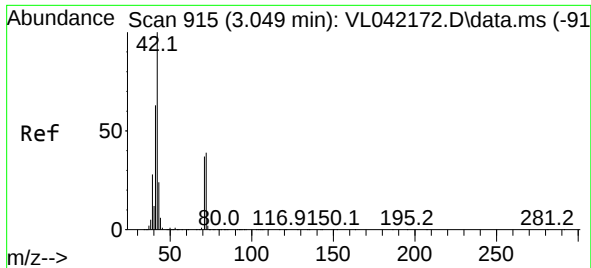
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#40
1,4-Dioxane
Concen: 0.188 ppbv m
RT: 4.626 min Scan# 1402
Delta R.T. 0.049 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

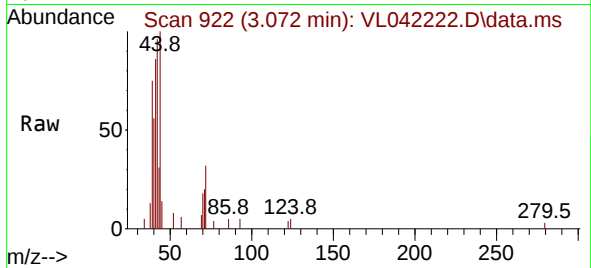
Tgt Ion: 88	Resp: 1888
Ion Ratio	Lower Upper
88 100	
58 0.0	62.7 94.1#
43 28.5	23.0 34.4
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.100 ppbv m
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

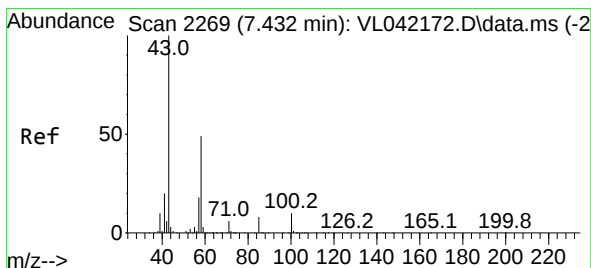
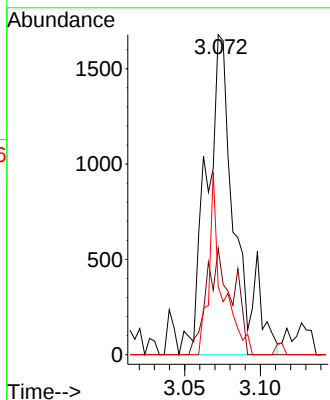
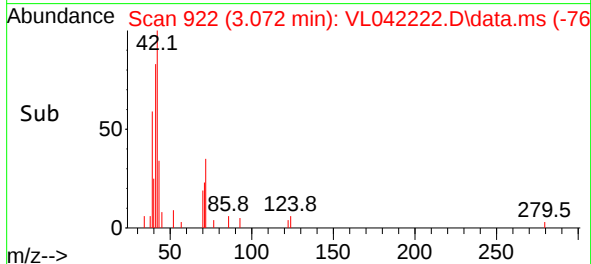
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



Tgt Ion: 42 Resp: 220
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0
71 0.0 30.2 45.4

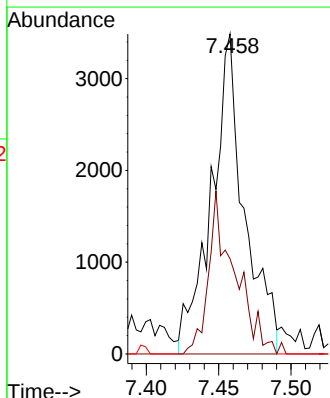
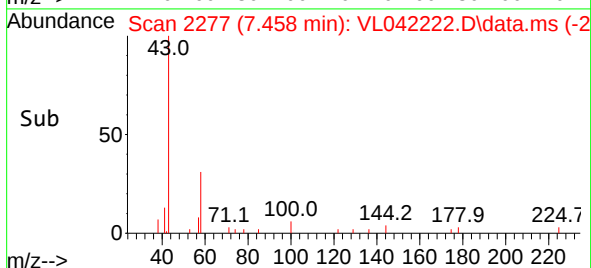
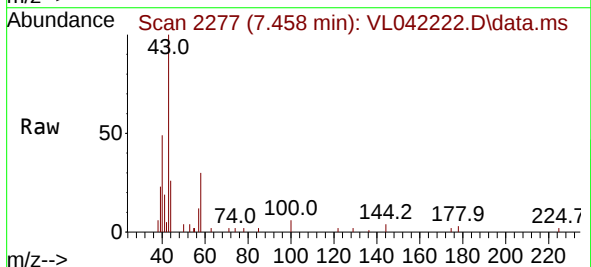
Manual Integrations
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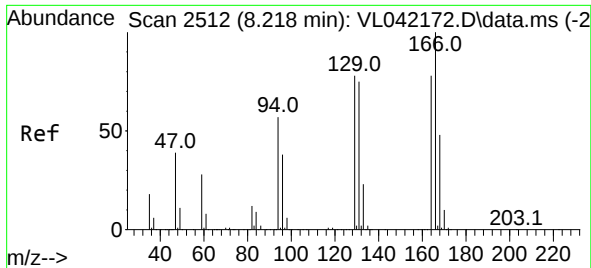
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#51
2-Hexanone
Concen: 0.112 ppbv m
RT: 7.458 min Scan# 2277
Delta R.T. 0.026 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

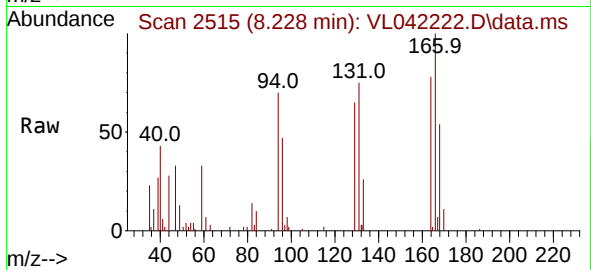
Tgt Ion: 43 Resp: 5534
Ion Ratio Lower Upper
43 100
58 40.5 39.7 59.5
98 0.0 0.1 0.1





#52
Tetrachloroethene
Concen: 0.265 ppbv m
RT: 8.228 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20

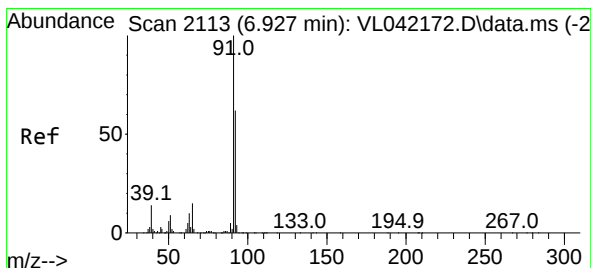
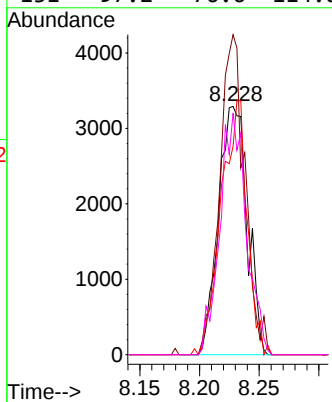
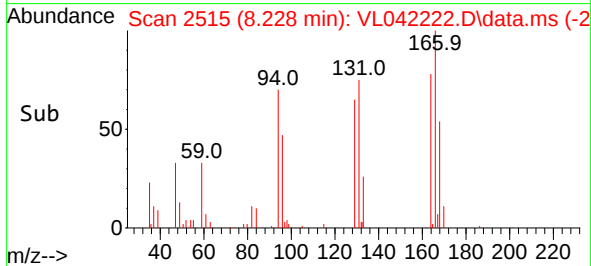
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



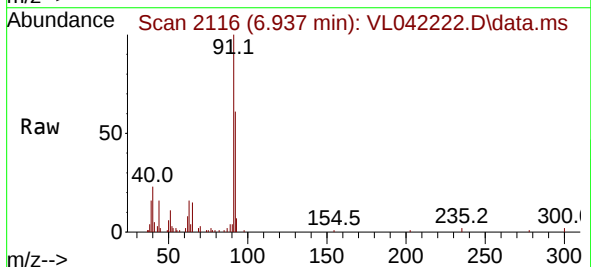
Tgt Ion:164 Resp: 547
Ion Ratio Lower Upper
164 100
166 128.8 102.5 153.7
129 84.0 79.8 119.8
131 97.2 76.6 114.8

Manual Integrations
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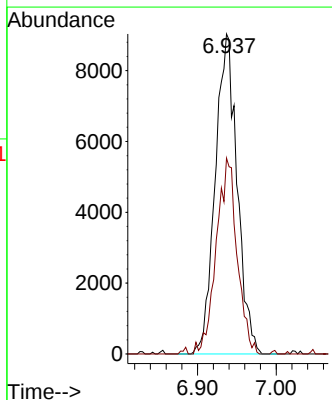
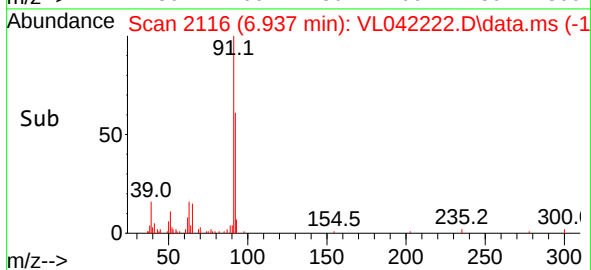
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

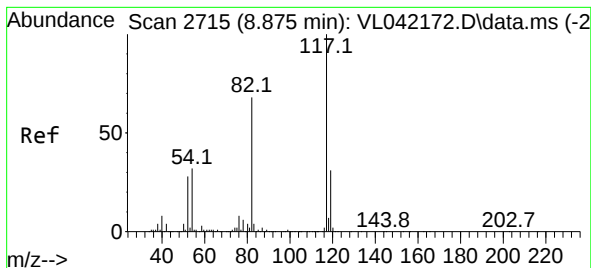


#53
Toluene
Concen: 0.283 ppbv m
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042222.D
Acq: 04 Apr 2025 13:20



Tgt Ion: 91 Resp: 17461
Ion Ratio Lower Upper
91 100
92 58.5 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042222.D

Acq: 04 Apr 2025 13:20

Instrument :

MSVOA_L

ClientSampleId :

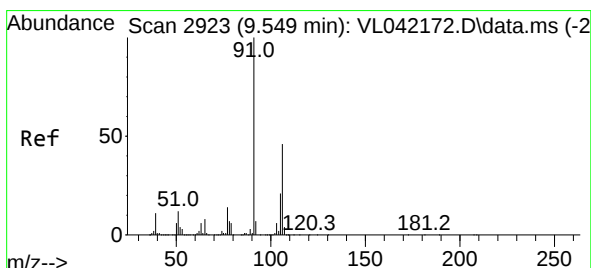
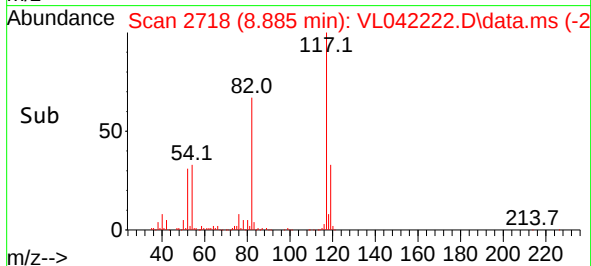
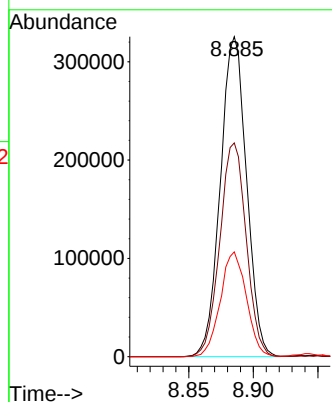
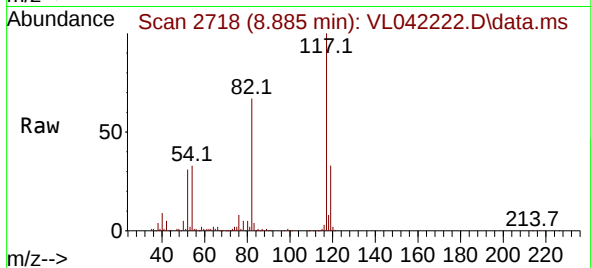
IA2RDUP

Tgt Ion:117 Resp: 459228
 Ion Ratio Lower Upper
 117 100
 82 67.2 55.8 83.6
 119 32.6 25.5 38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



#59

m/p-Xylene

Concen: 0.165 ppbv m

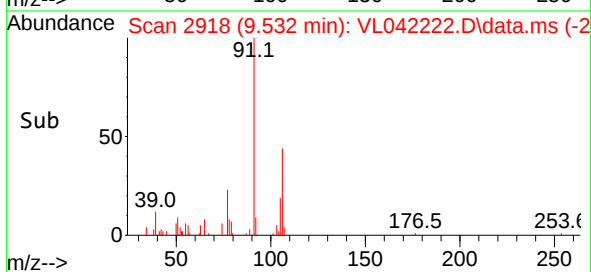
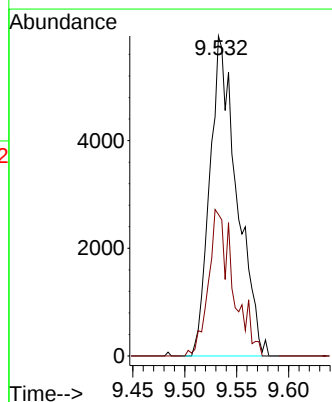
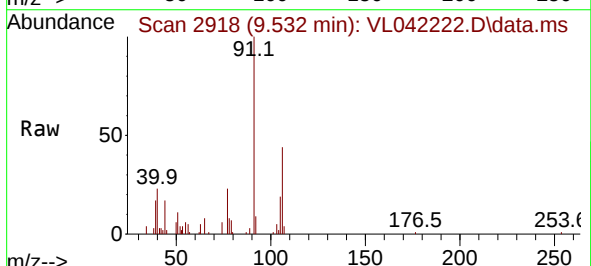
RT: 9.532 min Scan# 2918

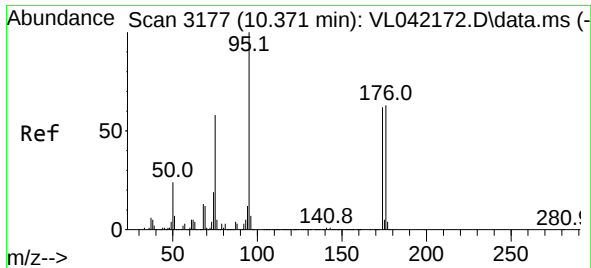
Delta R.T. -0.016 min

Lab File: VL042222.D

Acq: 04 Apr 2025 13:20

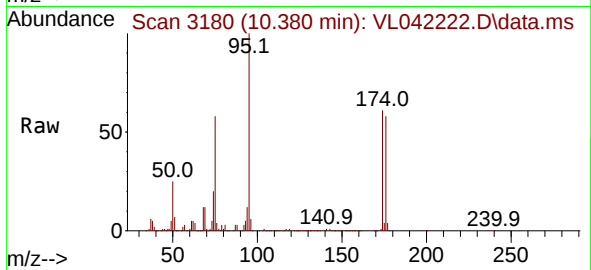
Tgt Ion: 91 Resp: 10747
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.905 ppbv
 RT: 10.380 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL042222.D
 Acq: 04 Apr 2025 13:20

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDUP



Tgt Ion: 95 Resp: 373558
 Ion Ratio Lower Upper
 95 100
 174 61.2 50.6 76.0
 175 4.4 3.8 5.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

