

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042221.D
 Acq On : 04 Apr 2025 12:46
 Operator : SY/MD
 Sample : Q1691-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2R

Manual Integrations
 APPROVED

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

Quant Time: Apr 05 02:02:15 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

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	193944	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	537035	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	465935	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	376164	9.831	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	11605	0.405	ppbv	98
3) Chlorodifluoromethane	1.476	51	8757m	0.299	ppbv	
4) Chloromethane	1.531	50	10930	0.934	ppbv	93
9) Propene	1.486	41	7450	0.556	ppbv	91
11) Trichlorofluoromethane	1.878	101	5737	0.206	ppbv	97
13) Ethanol	1.722	45	80750	63.706	ppbv	80
15) Acetone	1.835	43	257627	9.498	ppbv	96
19) Isopropyl Alcohol	1.887	45	34632	2.263	ppbv #	1
20) Methylene Chloride	2.062	84	12311	1.219	ppbv	94
23) Vinyl Acetate	2.457	43	40317	3.434	ppbv #	85
26) Hexane	2.826	57	12176	0.448	ppbv #	44
29) Chloroform	2.849	83	32593	0.819	ppbv	97
34) 2-Butanone	2.560	43	42115	1.081	ppbv	99
35) Carbon Tetrachloride	3.768	117	5181m	0.123	ppbv	
36) Benzene	3.661	78	9622	0.181	ppbv	98
40) 1,4-Dioxane	4.609	88	2568m	0.250	ppbv	
41) Tetrahydrofuran	3.069	42	2673m	0.119	ppbv	
51) 2-Hexanone	7.454	43	5679m	0.112	ppbv	
52) Tetrachloroethene	8.225	164	4611	0.218	ppbv #	85
53) Toluene	6.930	91	17579	0.279	ppbv	99
59) m/p-Xylene	9.529	91	10348m	0.157	ppbv	

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

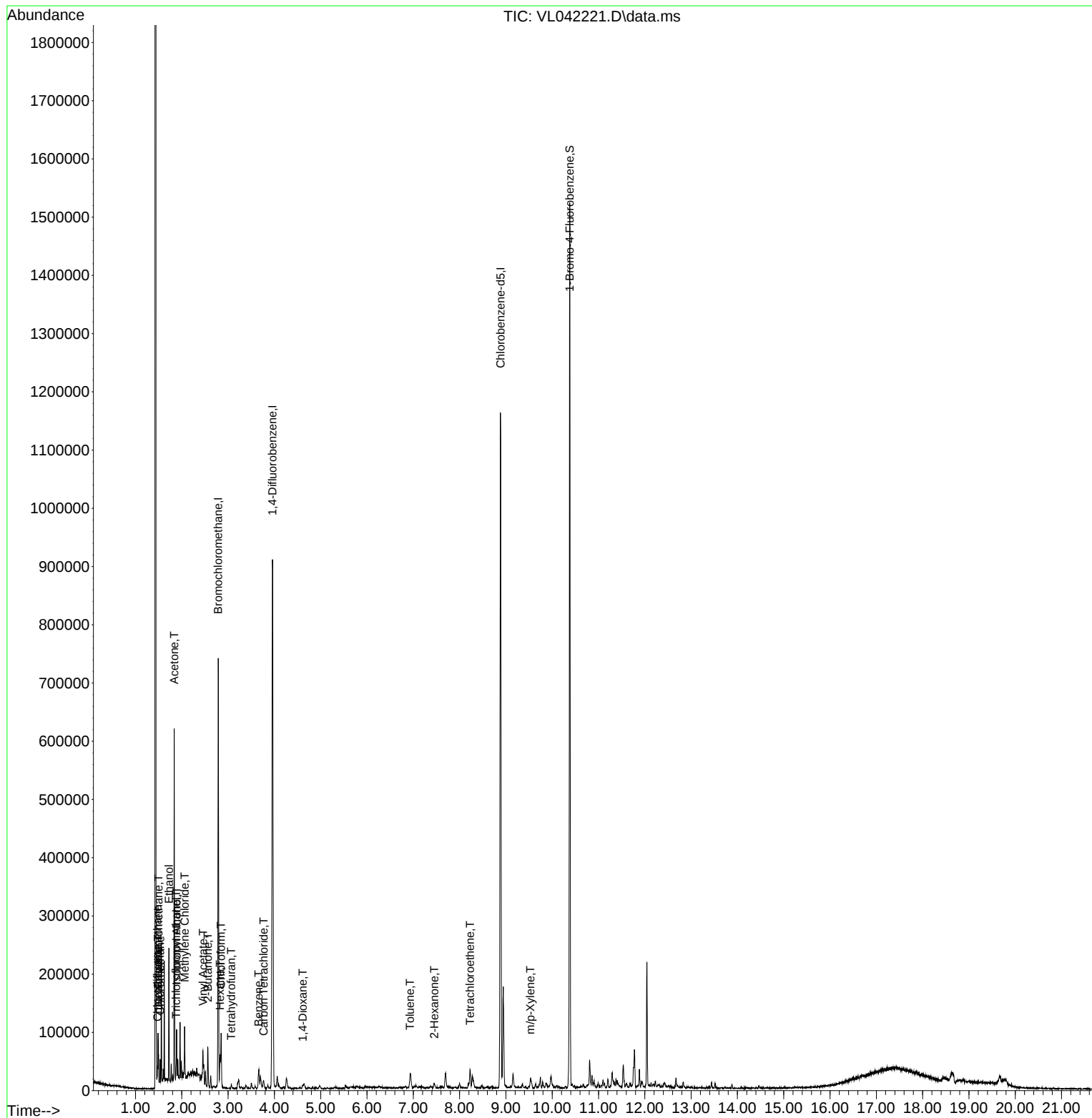
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
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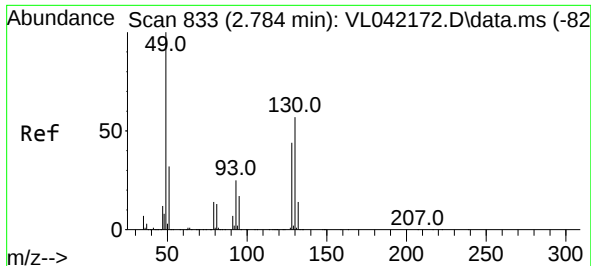
Instrument :
MSVOA_L
ClientSampleId :
IA2R

Quant Time: Apr 05 02:02:15 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
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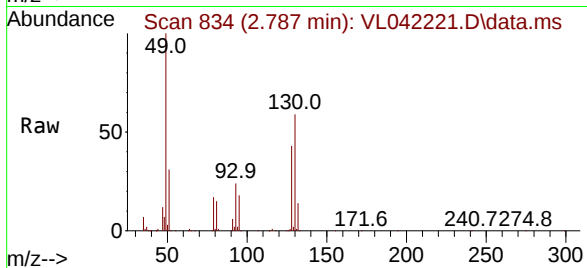
Reviewed By : Semsettin Yesilyurt 04/07/2025
Supervised By : Mahesh Dadoda 04/08/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

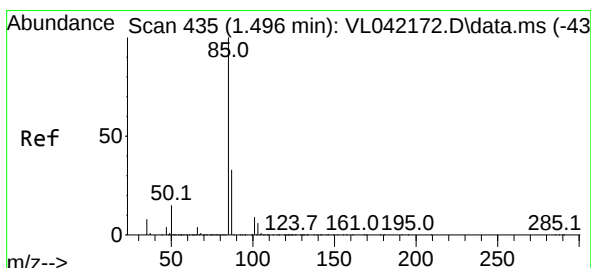
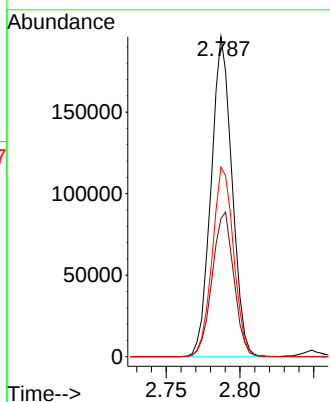
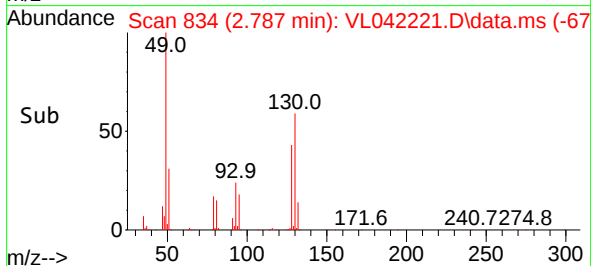
Instrument :
MSVOA_L
ClientSampleId :
IA2R



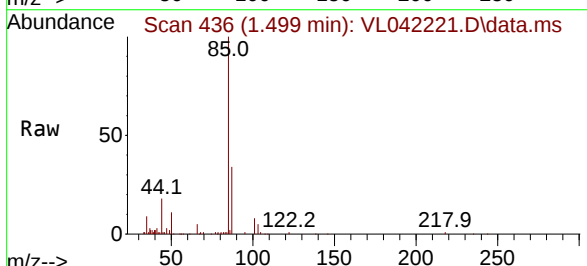
Tgt Ion: 49 Resp: 193944
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 60.5 28.8 86.4

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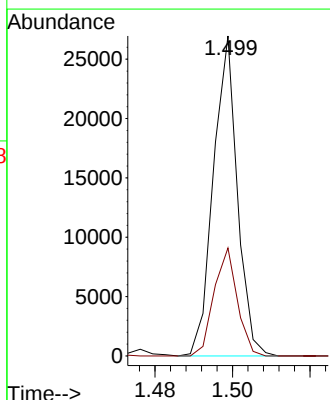
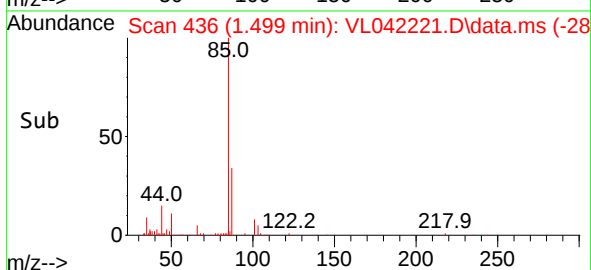
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

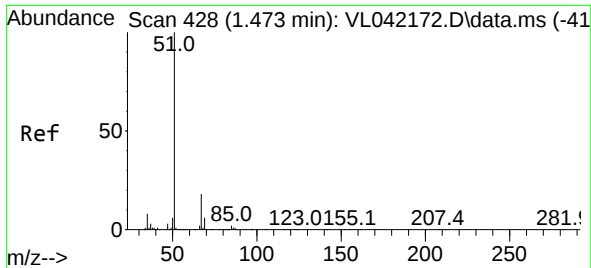


#2
Dichlorodifluoromethane
Concen: 0.405 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46



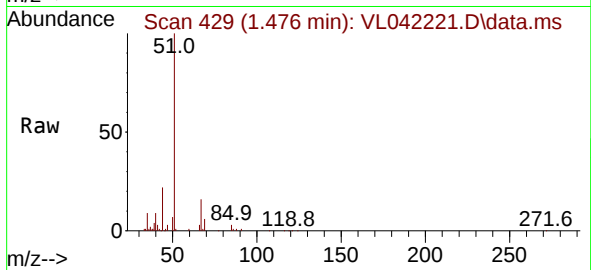
Tgt Ion: 85 Resp: 11605
Ion Ratio Lower Upper
85 100
87 33.8 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.299 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

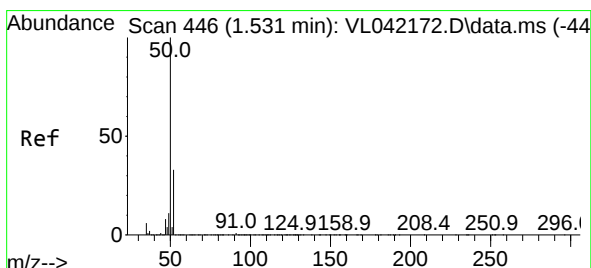
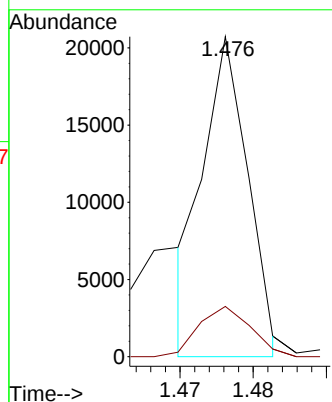
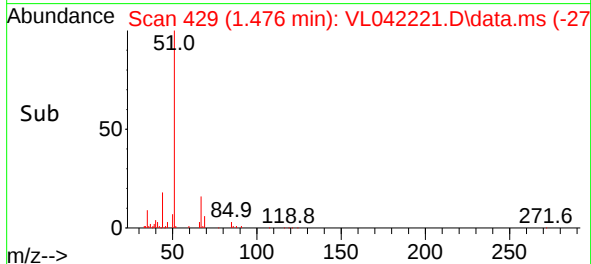
Instrument :
MSVOA_L
ClientSampleId :
IA2R



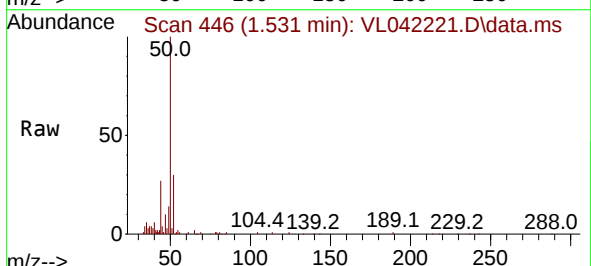
Tgt Ion: 51 Resp: 875
Ion Ratio Lower Upper
51 100
67 3.4 15.0 22.6

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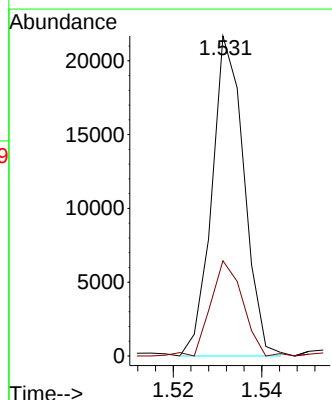
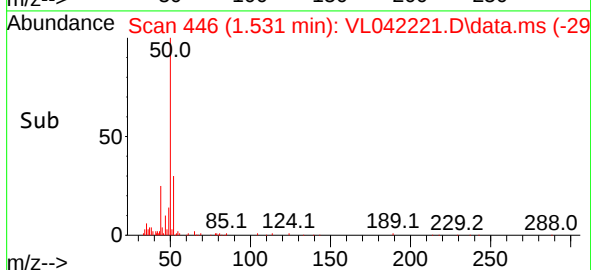
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

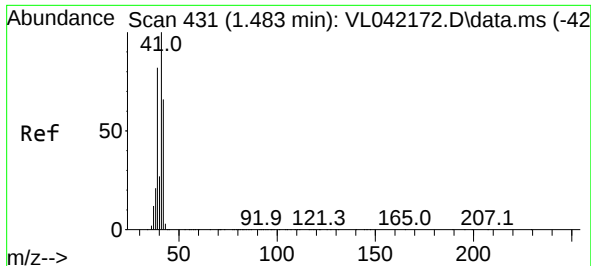


#4
Chloromethane
Concen: 0.934 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46



Tgt Ion: 50 Resp: 10930
Ion Ratio Lower Upper
50 100
52 28.7 26.1 39.1





#9

Propene

Concen: 0.556 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

IA2R

Tgt Ion: 41 Resp: 7450

Ion Ratio Lower Upper

41 100

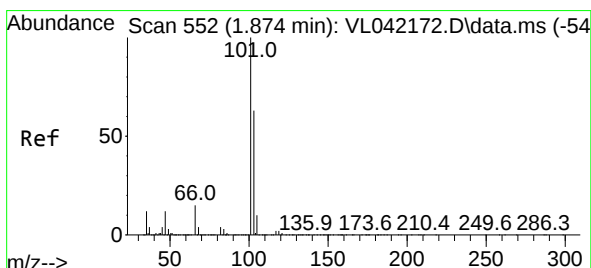
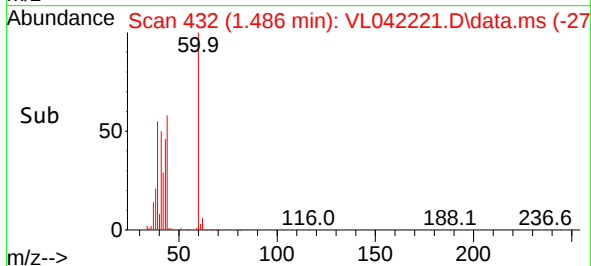
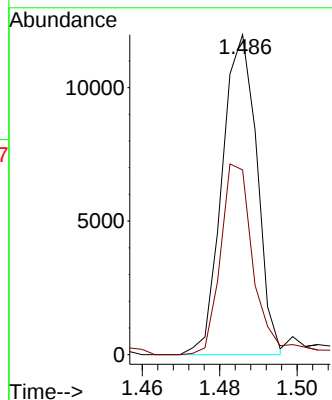
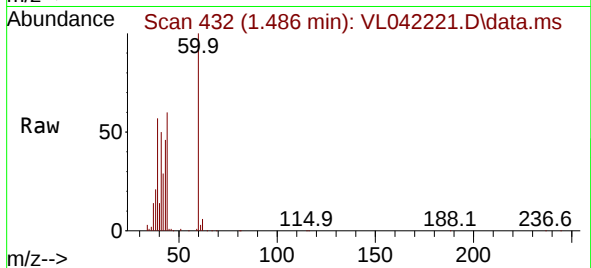
42 61.9 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042221.D

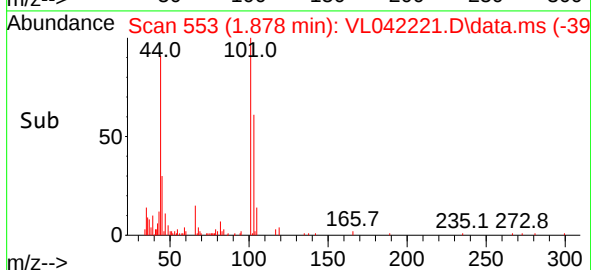
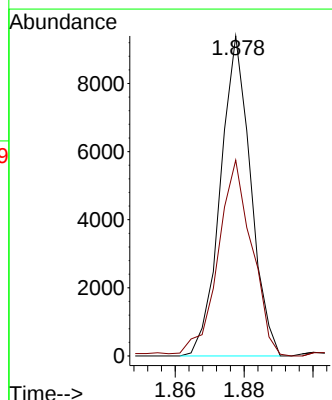
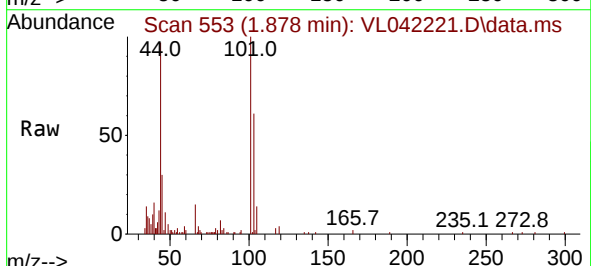
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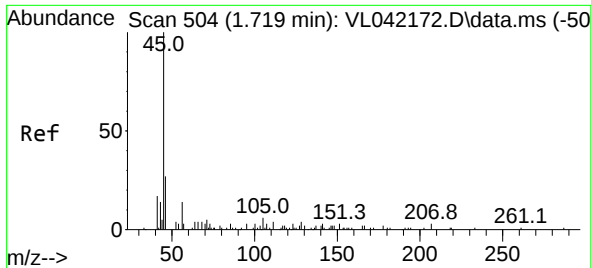
Tgt Ion:101 Resp: 5737

Ion Ratio Lower Upper

101 100

103 60.7 50.2 75.2





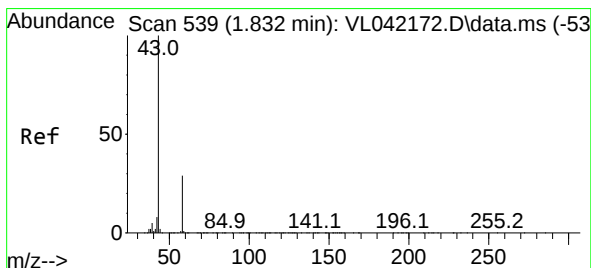
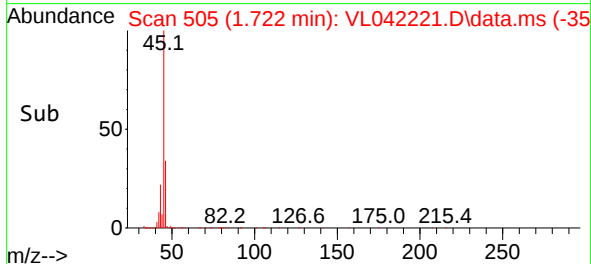
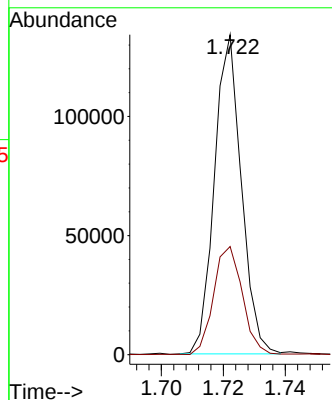
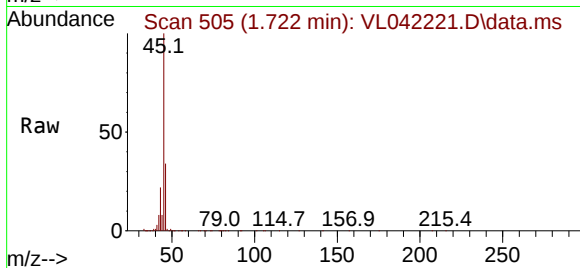
#13
Ethanol
Concen: 63.706 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
IA2R

Tgt Ion: 45 Resp: 80750
Ion Ratio Lower Upper
45 100
46 36.5 20.2 80.8

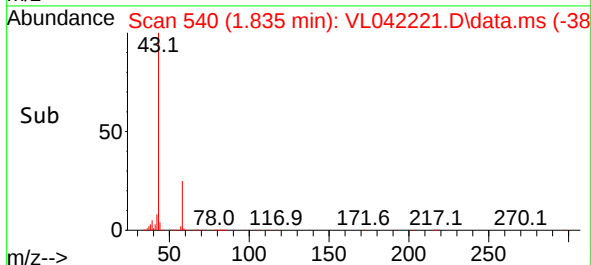
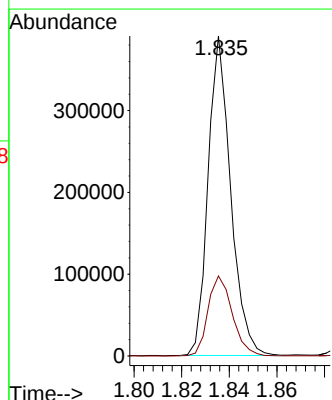
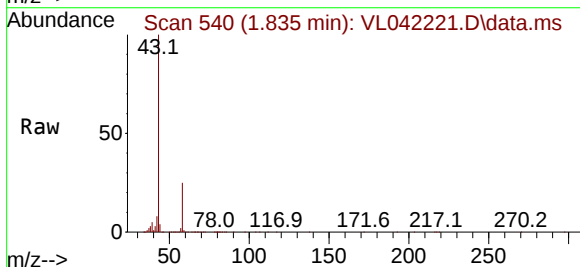
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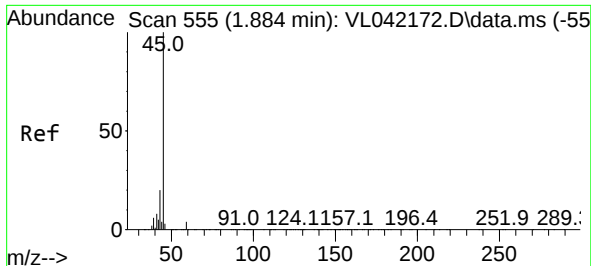
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 9.498 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Tgt Ion: 43 Resp: 257627
Ion Ratio Lower Upper
43 100
58 27.0 23.2 34.8





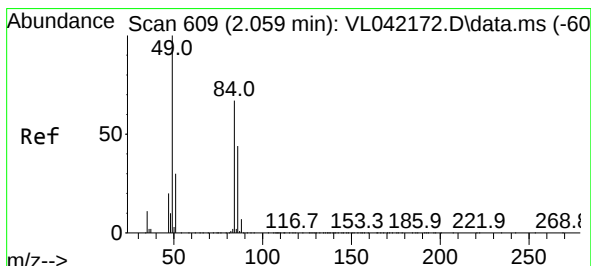
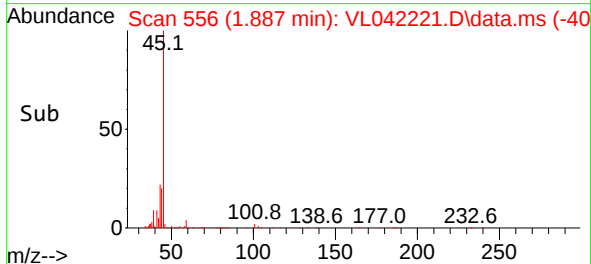
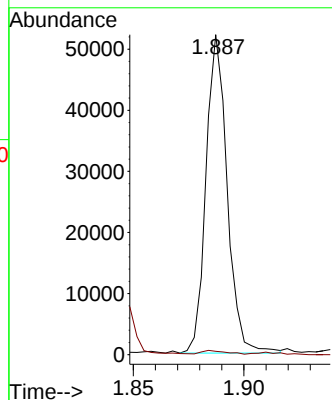
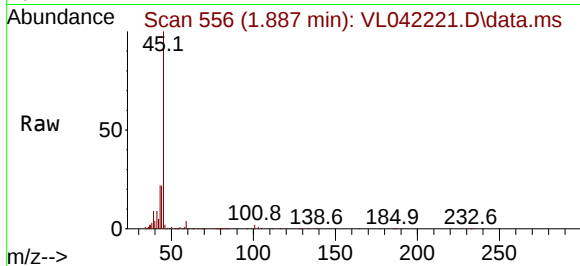
#19
Isopropyl Alcohol
Concen: 2.263 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
IA2R

Tgt Ion: 45 Resp: 34632
Ion Ratio Lower Upper
45 100
58 200.7 36.9 55.3

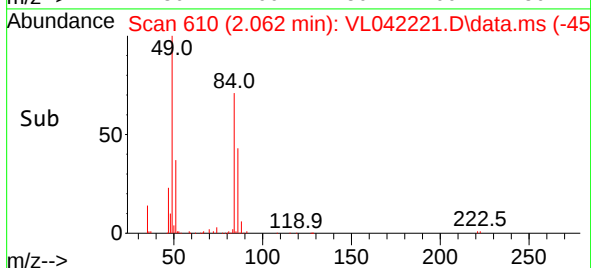
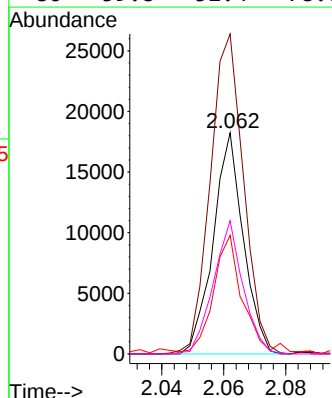
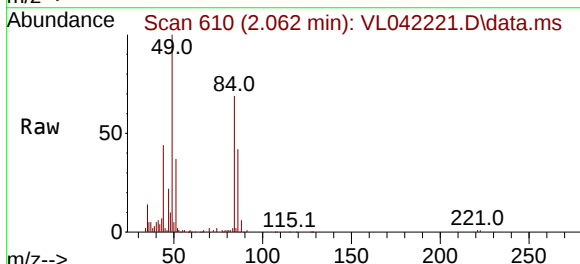
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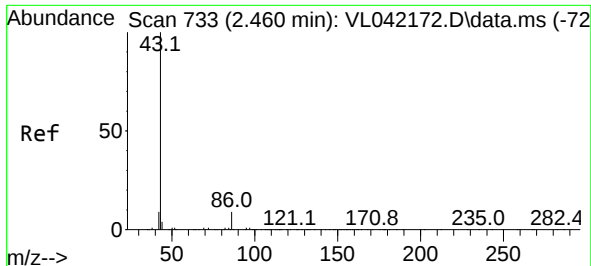
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#20
Methylene Chloride
Concen: 1.219 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

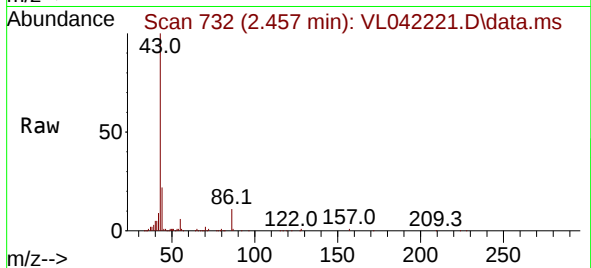
Tgt Ion: 84 Resp: 12311
Ion Ratio Lower Upper
84 100
49 144.2 120.2 180.4
51 52.6 37.4 56.0
86 59.8 52.4 78.6





#23
 Vinyl Acetate
 Concen: 3.434 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042221.D
 Acq: 04 Apr 2025 12:46

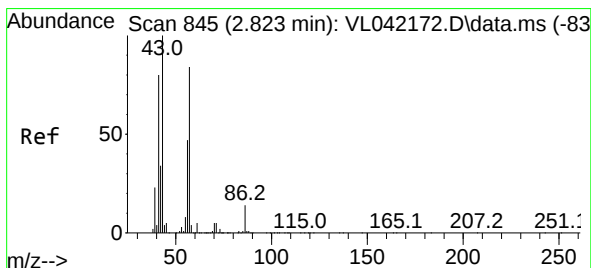
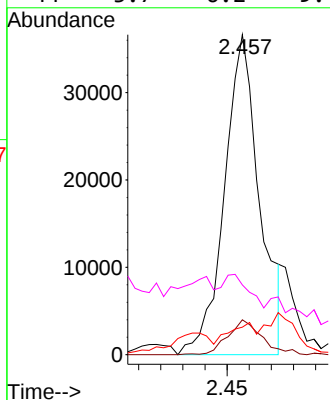
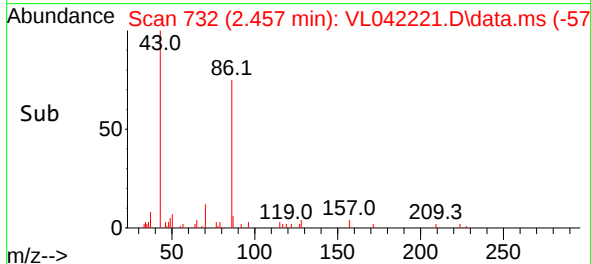
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2R



Tgt Ion: 43 Resp: 4031
 Ion Ratio Lower Upper
 43 100
 86 10.9 5.5 8.3
 42 3.5 8.6 13.0
 44 3.7 6.2 9.4

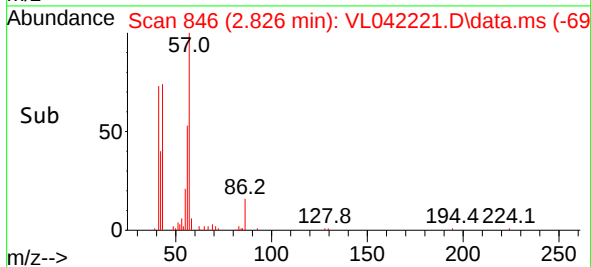
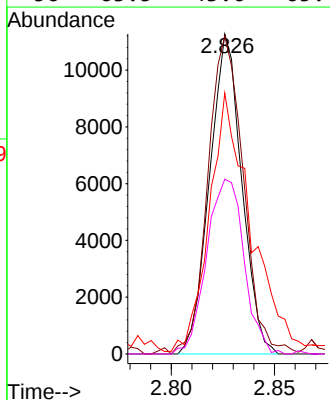
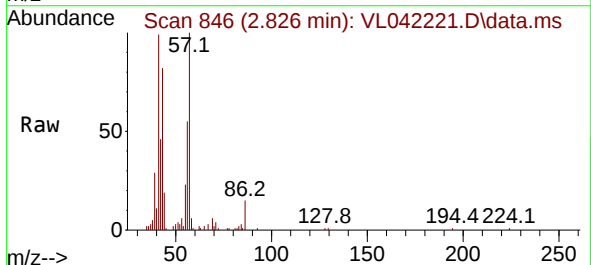
Manual Integrations
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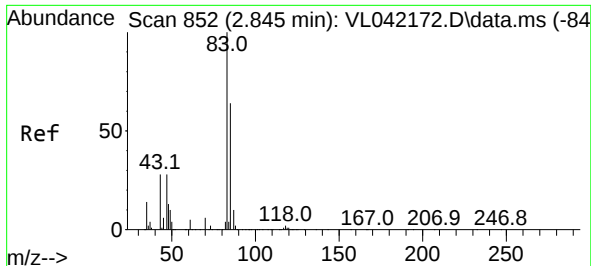
Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



#26
 Hexane
 Concen: 0.448 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.003 min
 Lab File: VL042221.D
 Acq: 04 Apr 2025 12:46

Tgt Ion: 57 Resp: 12176
 Ion Ratio Lower Upper
 57 100
 41 109.2 76.6 114.8
 43 115.9 207.8 311.8
 56 63.5 43.6 65.4





#29

Chloroform

Concen: 0.819 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

IA2R

Tgt Ion: 83 Resp: 3259

Ion Ratio Lower Upper

83 100

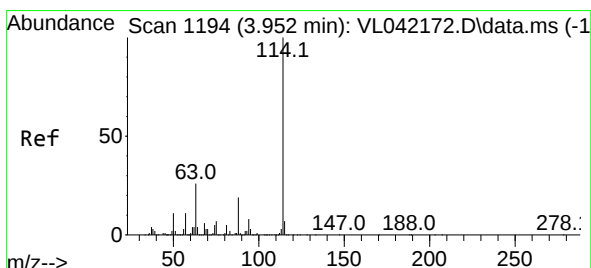
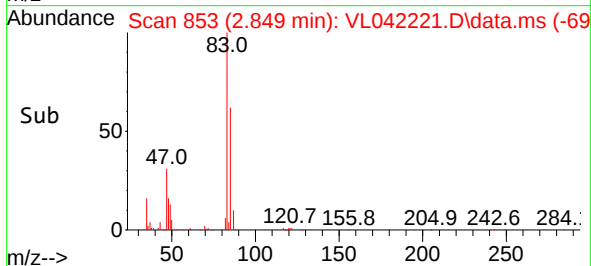
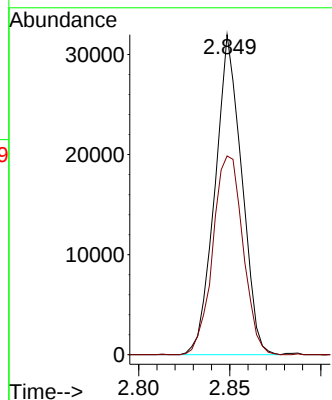
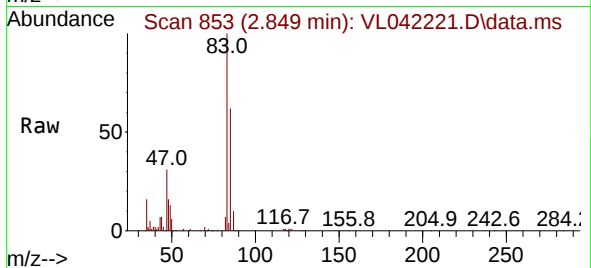
85 62.1 51.4 77.2

Manual Integrations

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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. 0.006 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

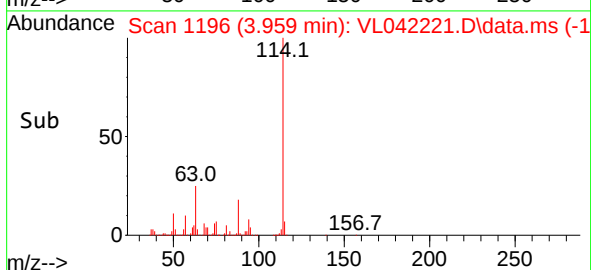
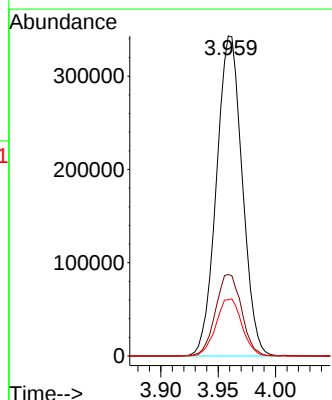
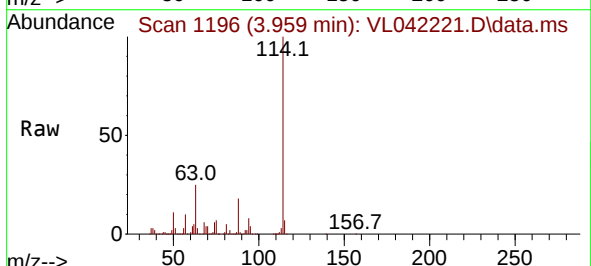
Tgt Ion:114 Resp: 537035

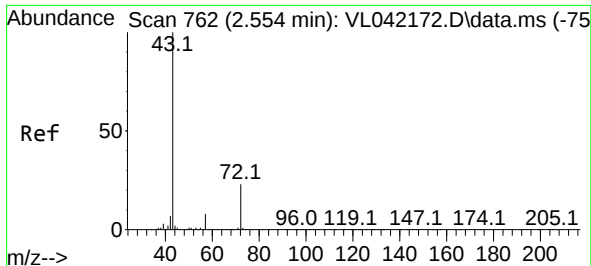
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 17.9 15.0 22.4





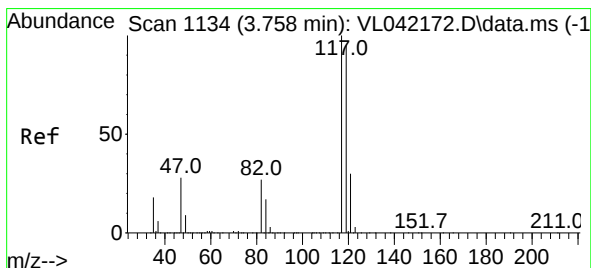
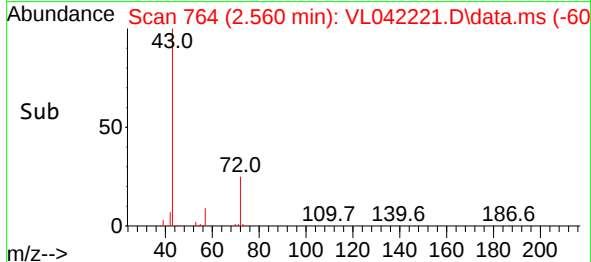
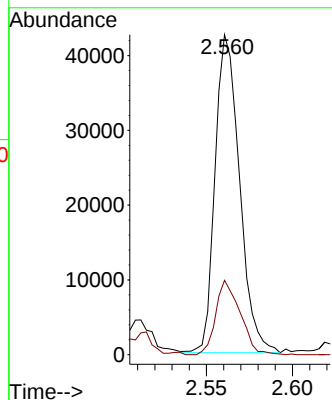
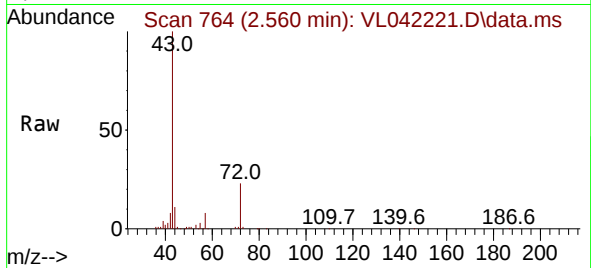
#34
2-Butanone
Concen: 1.081 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
IA2R

Tgt Ion: 43 Resp: 42115
Ion Ratio Lower Upper
43 100
72 23.3 18.2 27.2

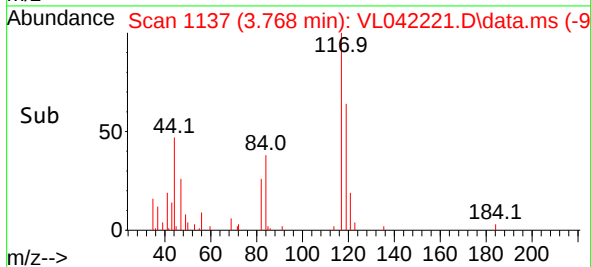
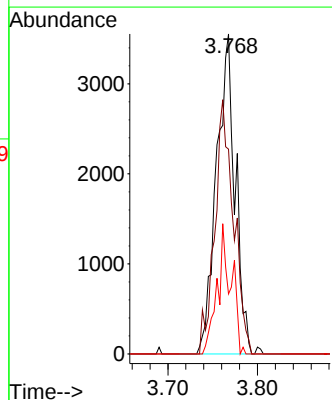
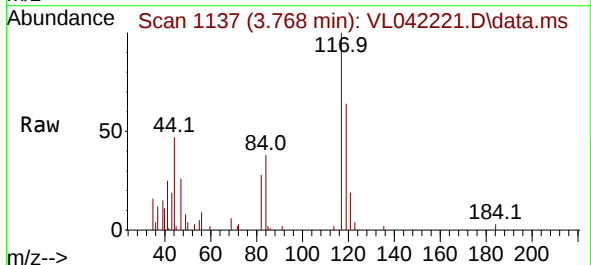
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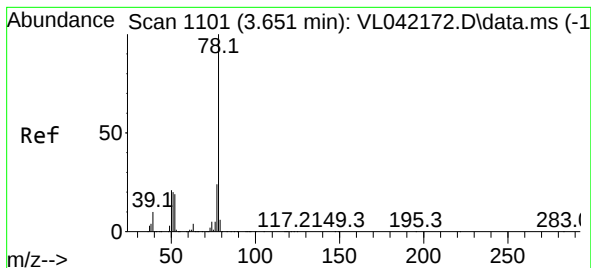
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#35
Carbon Tetrachloride
Concen: 0.123 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Tgt Ion:117 Resp: 5181
Ion Ratio Lower Upper
117 100
119 64.0 76.2 114.2#
121 18.8 24.2 36.4#





#36

Benzene

Concen: 0.181 ppbv

RT: 3.661 min Scan# 1101

Delta R.T. 0.010 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

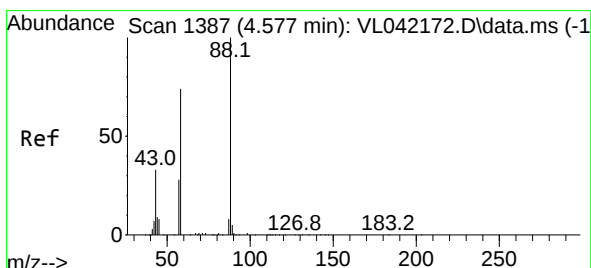
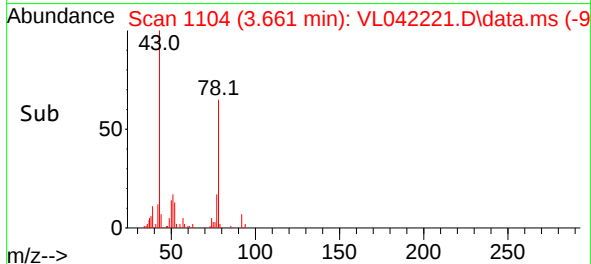
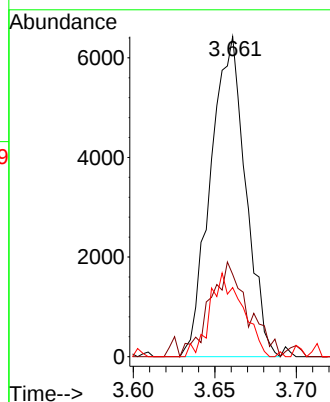
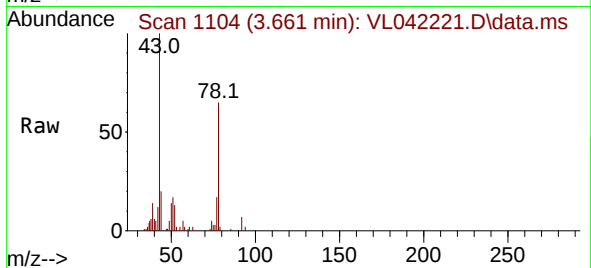
IA2R

Tgt Ion: 78	Resp: 962
Ion Ratio	Lower Upper
78 100	
77 25.7	19.1 28.7
50 20.7	16.6 24.8

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



#40

1,4-Dioxane

Concen: 0.250 ppbv m

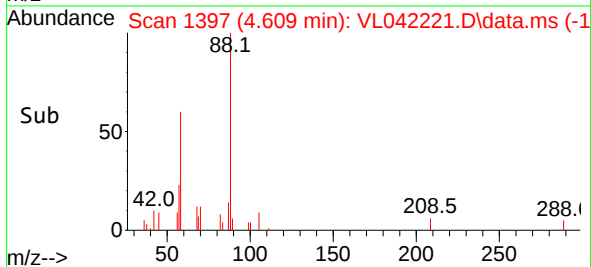
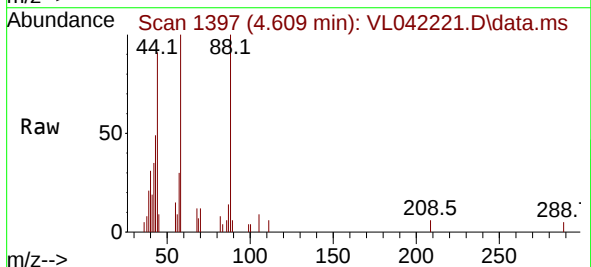
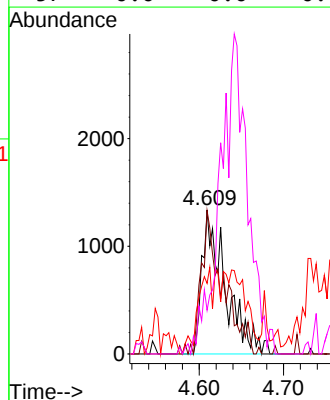
RT: 4.609 min Scan# 1397

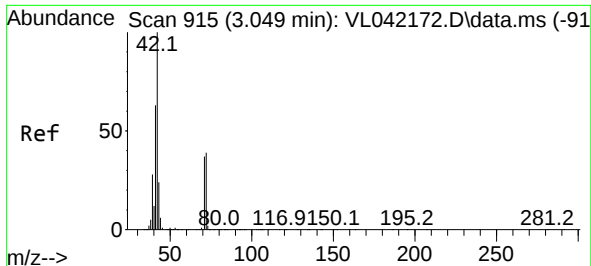
Delta R.T. 0.032 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

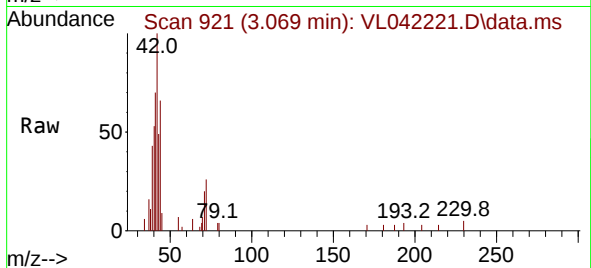
Tgt Ion: 88	Resp: 2568
Ion Ratio	Lower Upper
88 100	
58 93.8	62.7 94.1
43 120.1	23.0 34.4#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.119 ppbv m
RT: 3.069 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

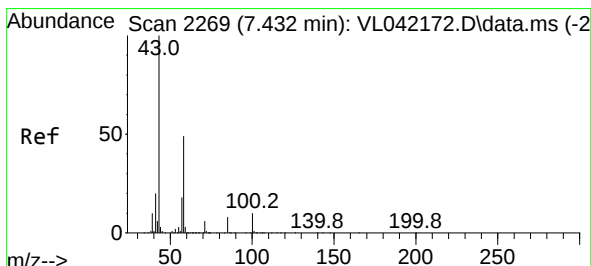
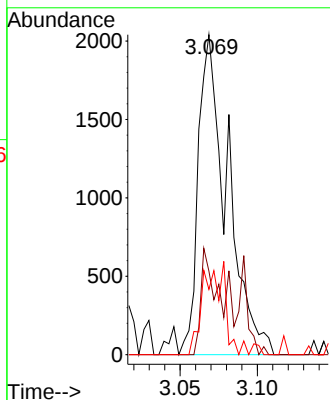
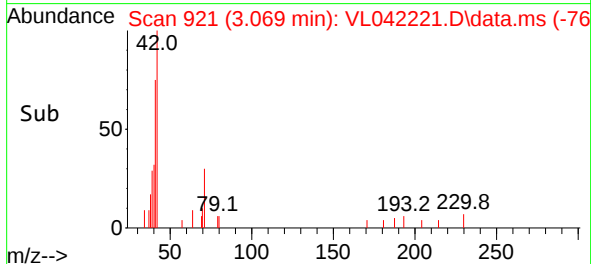
Instrument :
MSVOA_L
ClientSampleId :
IA2R



Tgt Ion: 42 Resp: 2673
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#

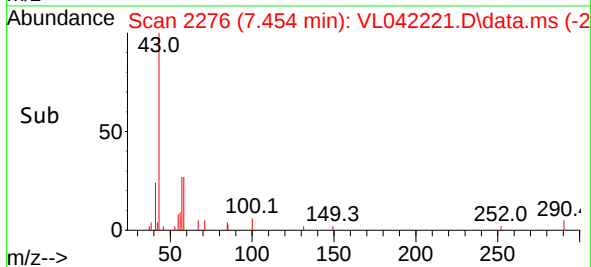
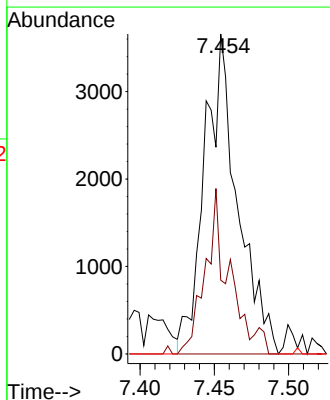
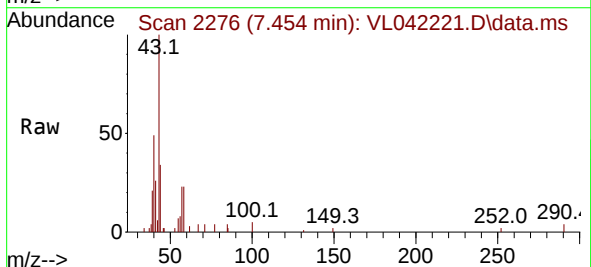
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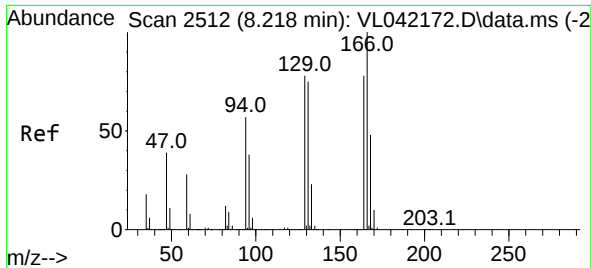
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#51
2-Hexanone
Concen: 0.112 ppbv m
RT: 7.454 min Scan# 2276
Delta R.T. 0.022 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

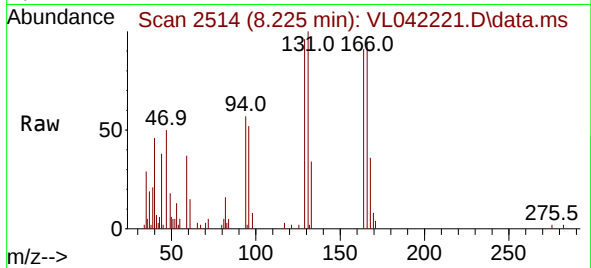
Tgt Ion: 43 Resp: 5679
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.218 ppbv
RT: 8.225 min Scan# 2114
Delta R.T. 0.006 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

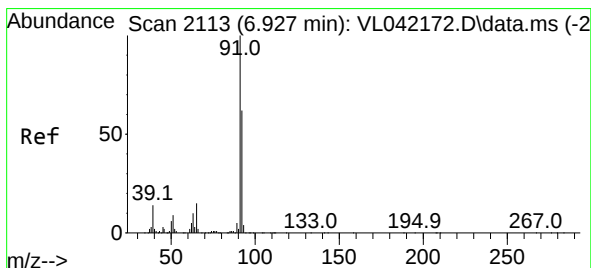
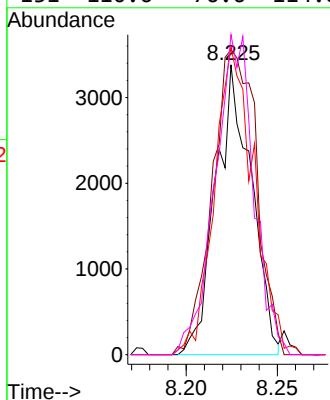
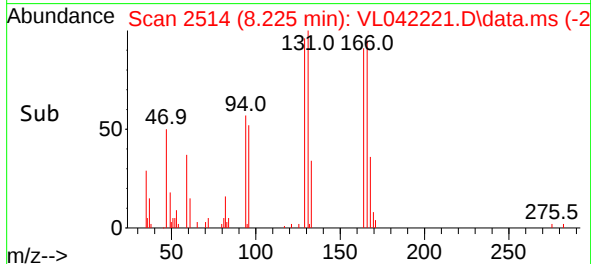
Instrument :
MSVOA_L
ClientSampleId :
IA2R



Tgt Ion:164 Resp: 461
Ion Ratio Lower Upper
164 100
166 102.4 102.5 153.7
129 104.3 79.8 119.8
131 110.6 76.6 114.8

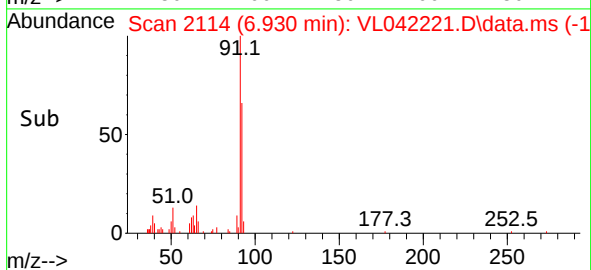
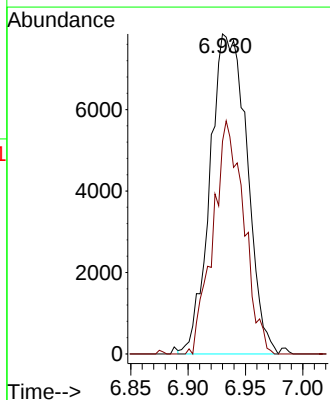
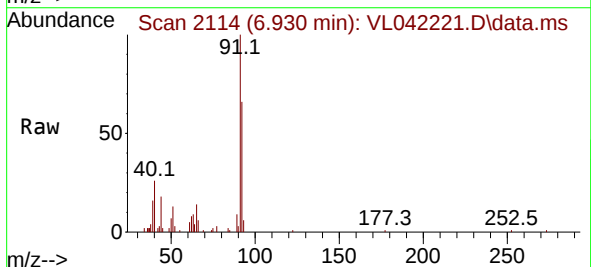
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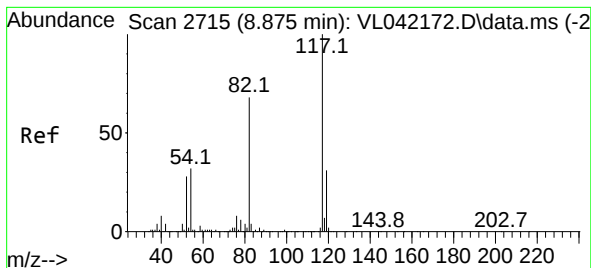
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#53
Toluene
Concen: 0.279 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Tgt Ion: 91 Resp: 17579
Ion Ratio Lower Upper
91 100
92 61.0 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

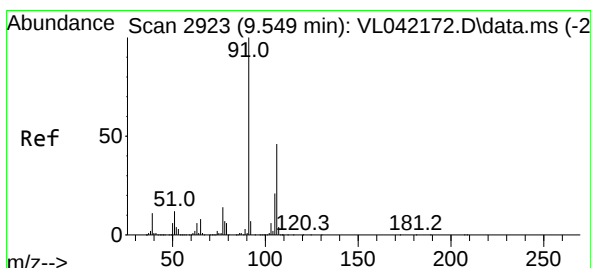
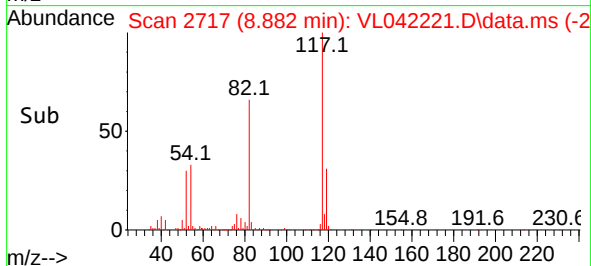
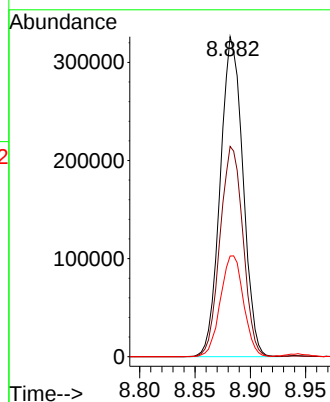
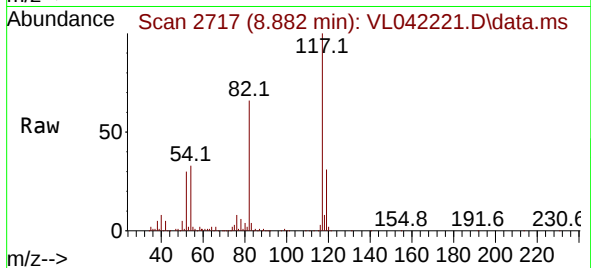
IA2R

Tgt Ion: 117 Resp: 46593
 Ion Ratio Lower Upper
 117 100
 82 66.5 55.8 83.6
 119 32.2 25.5 38.3

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



#59

m/p-Xylene

Concen: 0.157 ppbv m

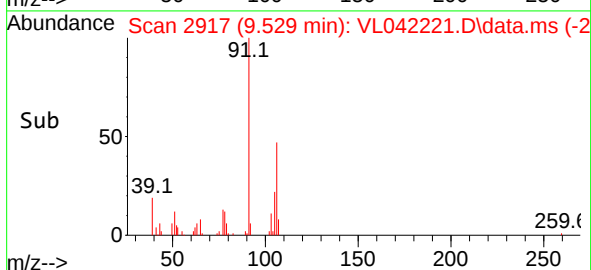
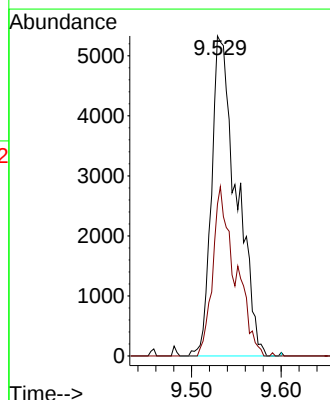
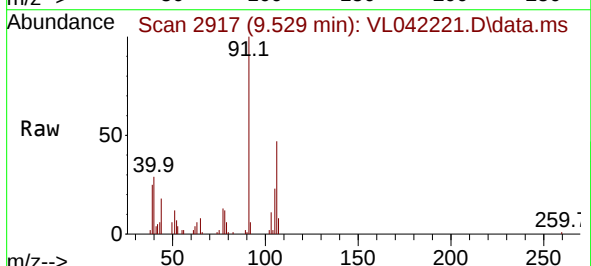
RT: 9.529 min Scan# 2917

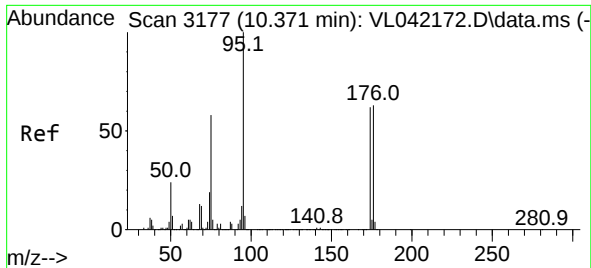
Delta R.T. -0.020 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

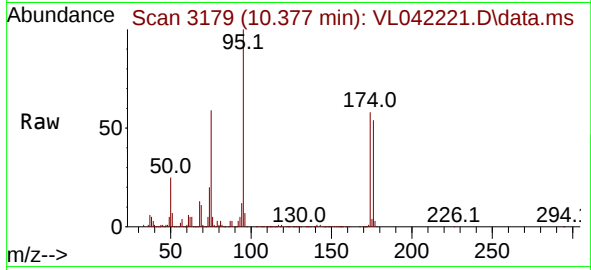
Tgt Ion: 91 Resp: 10348
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.831 ppbv
 RT: 10.377 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042221.D
 Acq: 04 Apr 2025 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2R



Tgt Ion: 95 Resp: 376164
 Ion Ratio Lower Upper
 95 100
 174 60.0 50.6 76.0
 175 4.5 3.8 5.6

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

