

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042914.D
 Acq On : 08 Sep 2025 21:45
 Operator : SY/MD
 Sample : Q3052-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 01:00:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		2.781	49	131415	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.946	114	322981	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.872	117	272303	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.368	95	204384	10.008	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds							Qvalue
2) Dichlorodifluoromethane		1.493	85	9503	0.493	ppbv	98
3) Chlorodifluoromethane		1.470	51	21749	1.022	ppbv	96
4) Chloromethane		1.528	50	4116	0.530	ppbv	97
9) Propene		1.480	41	7120	0.774	ppbv	98
11) Trichlorofluoromethane		1.871	101	4428	0.233	ppbv	94
13) Ethanol		1.716	45	16799	19.983	ppbv	93
15) Acetone		1.833	43	70651	4.064	ppbv	95
19) Isopropyl Alcohol		1.881	45	22696	2.186	ppbv #	40
20) Methylene Chloride		2.056	84	6670	0.916	ppbv	91
23) Vinyl Acetate		2.447	43	9712	0.406	ppbv #	95
26) Hexane		2.816	57	12323	0.635	ppbv #	40
34) 2-Butanone		2.554	43	8271	0.379	ppbv	99
35) Carbon Tetrachloride		3.752	117	2029m	0.091	ppbv	
36) Benzene		3.645	78	7688	0.249	ppbv #	87
44) 2,2,4-Trimethylpentane		4.632	57	9807m	0.187	ppbv	
52) Tetrachloroethene		8.215	164	490m	0.044	ppbv	
53) Toluene		6.924	91	13774m	0.375	ppbv	
59) m/p-Xylene		9.520	91	5987m	0.159	ppbv	

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

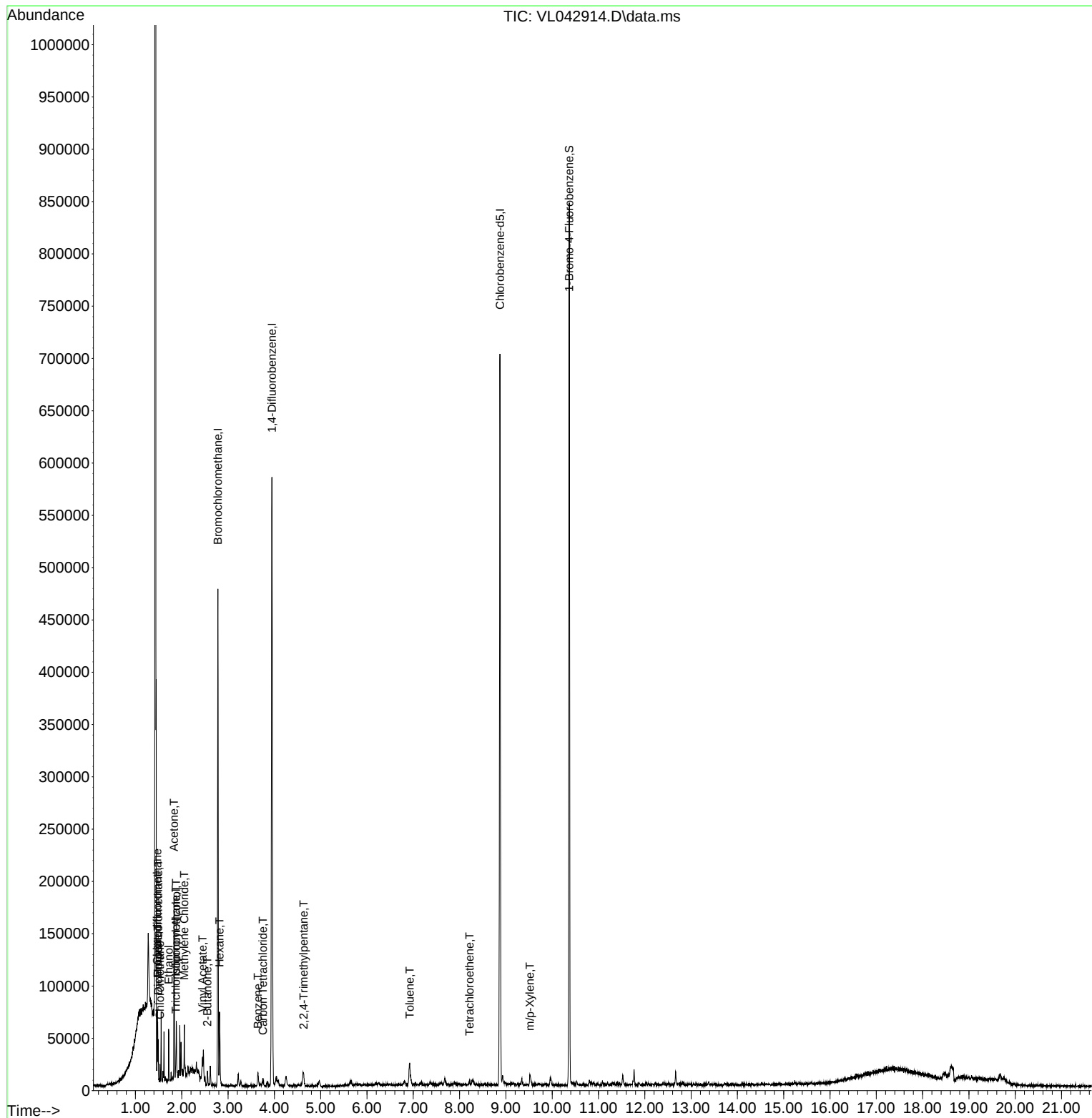
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042914.D
Acq On : 08 Sep 2025 21:45
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

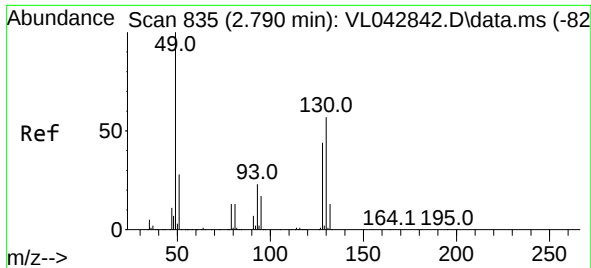
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Sep 09 01:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

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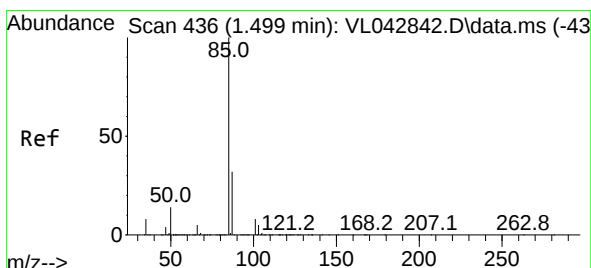
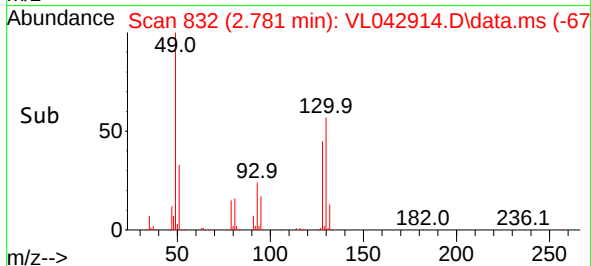
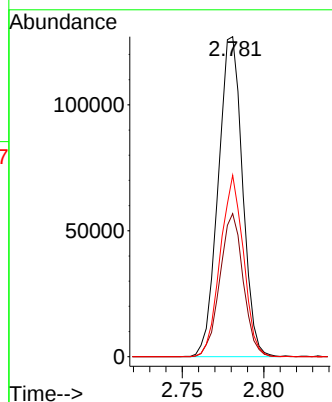
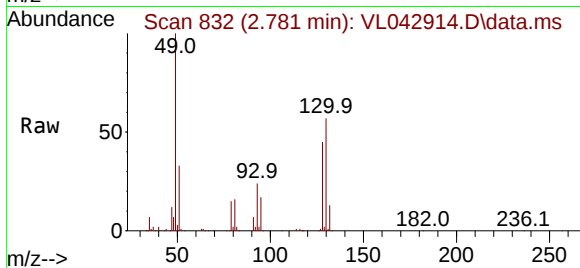
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 811
Delta R.T. 0.004 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion: 49 Resp: 131415
Ion Ratio Lower Upper
49 100
128 43.0 23.7 71.1
130 54.1 30.6 91.6

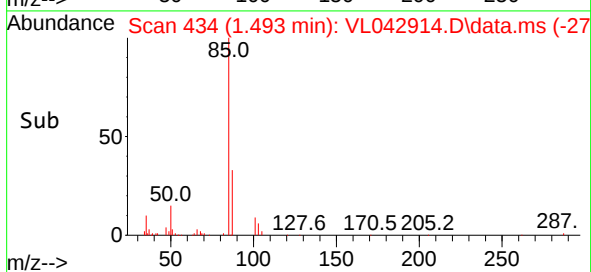
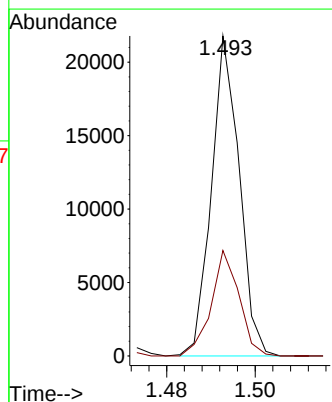
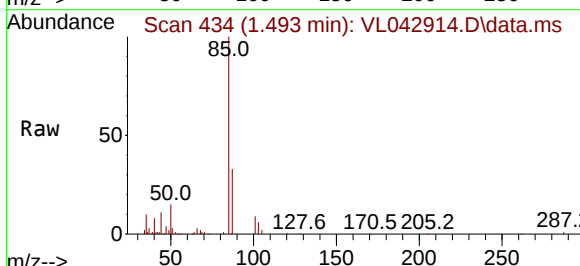
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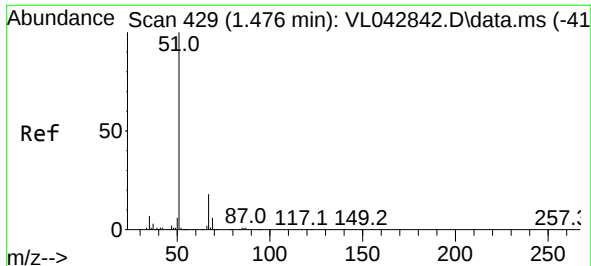
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.493 ppbv
RT: 1.493 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

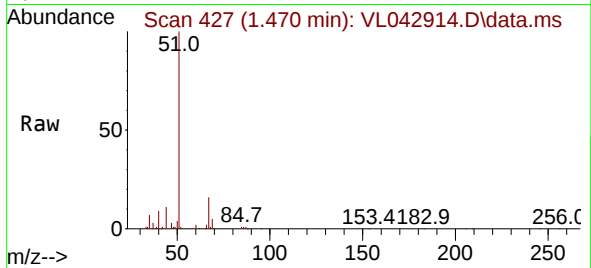
Tgt Ion: 85 Resp: 9503
Ion Ratio Lower Upper
85 100
87 32.9 25.3 37.9





#3
Chlorodifluoromethane
Concen: 1.022 ppbv
RT: 1.470 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

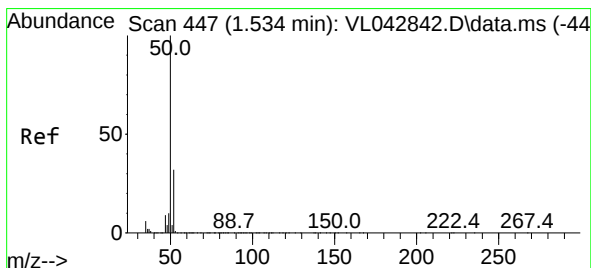
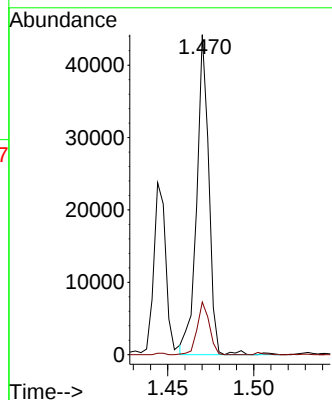
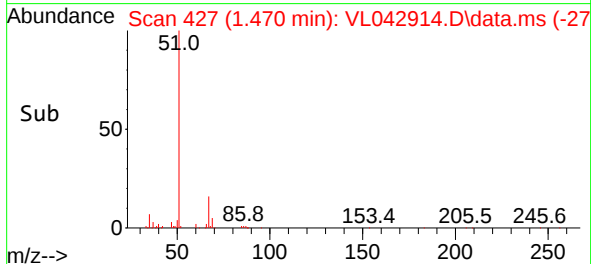
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



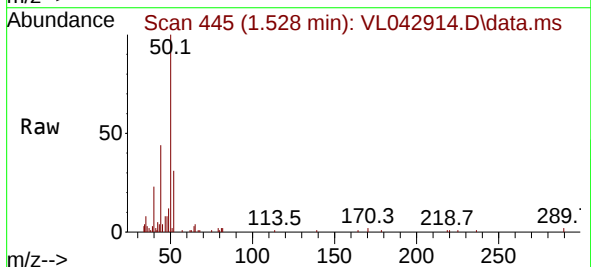
Tgt Ion: 51 Resp: 21749
Ion Ratio Lower Upper
51 100
67 16.8 14.9 22.3

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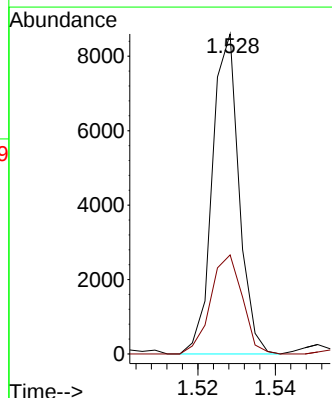
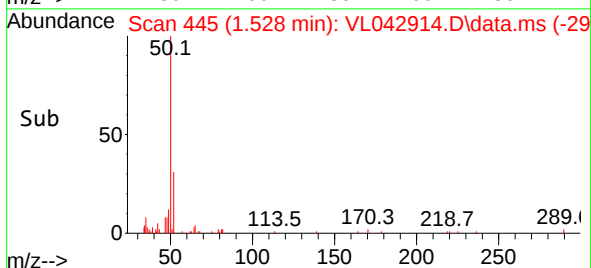
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

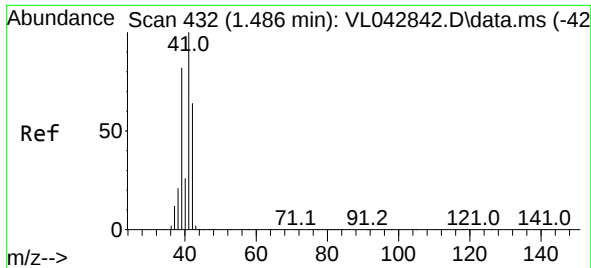


#4
Chloromethane
Concen: 0.530 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45



Tgt Ion: 50 Resp: 4116
Ion Ratio Lower Upper
50 100
52 31.0 25.9 38.9





#9

Propene

Concen: 0.774 ppbv

RT: 1.480 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042914.D

Acq: 08 Sep 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

Tgt Ion: 41 Resp: 7120

Ion Ratio Lower Upper

41 100

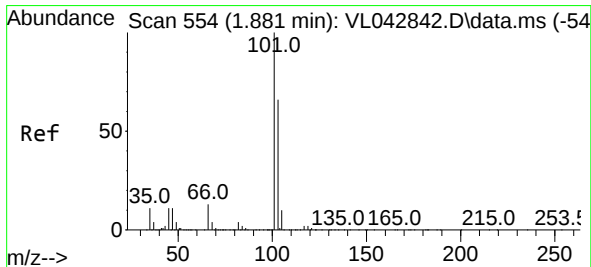
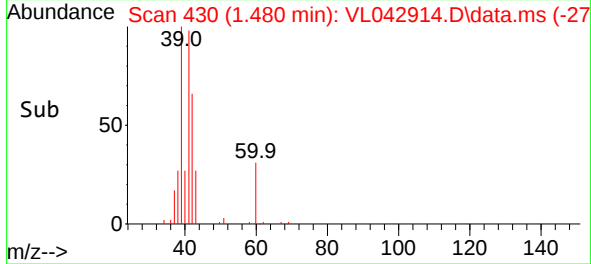
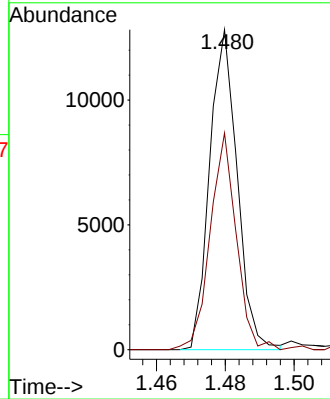
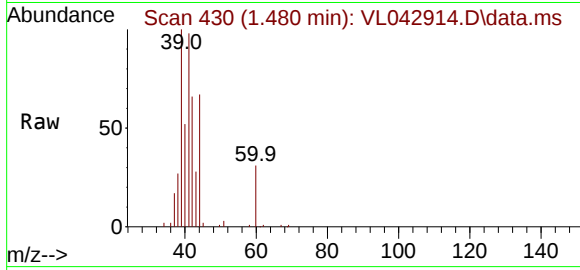
42 64.8 53.0 79.4

Manual Integrations

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Supervised By :Mahesh Dadoda 09/11/2025



#11

Trichlorofluoromethane

Concen: 0.233 ppbv

RT: 1.871 min Scan# 551

Delta R.T. 0.000 min

Lab File: VL042914.D

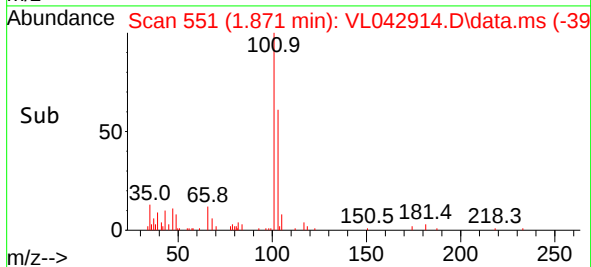
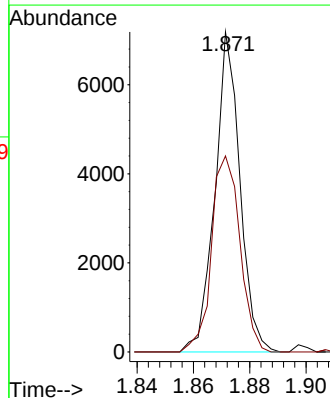
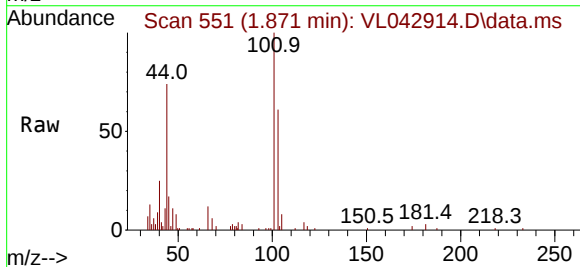
Acq: 08 Sep 2025 21:45

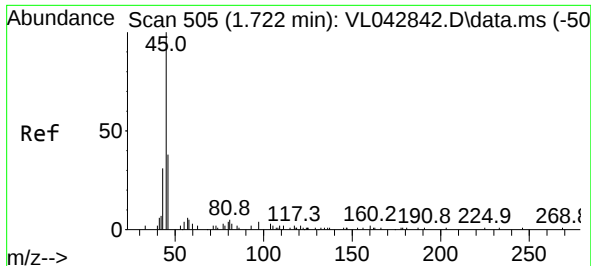
Tgt Ion:101 Resp: 4428

Ion Ratio Lower Upper

101 100

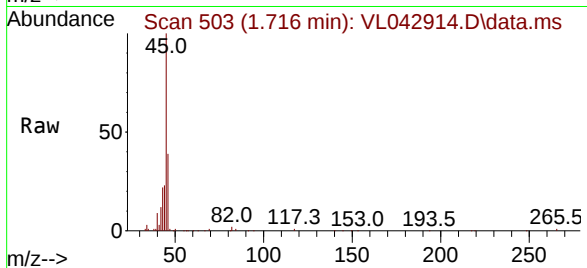
103 61.2 52.5 78.7





#13
Ethanol
Concen: 19.983 ppbv
RT: 1.716 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

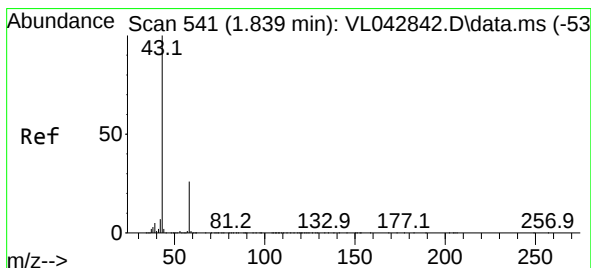
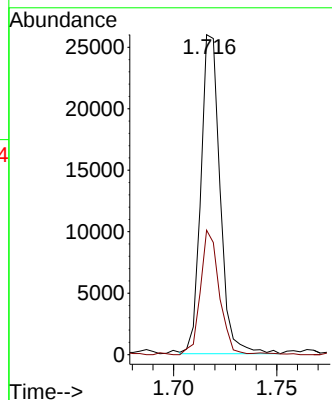
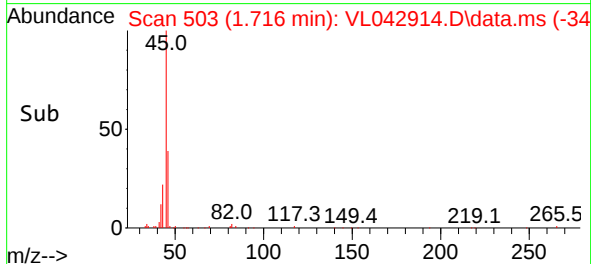
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 45 Resp: 16799
Ion Ratio Lower Upper
45 100
46 39.5 17.5 69.9

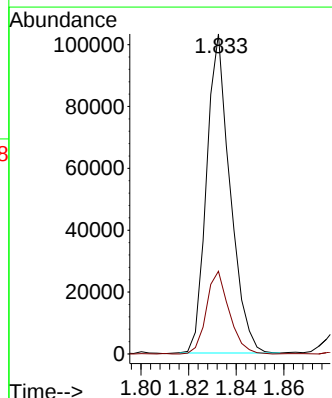
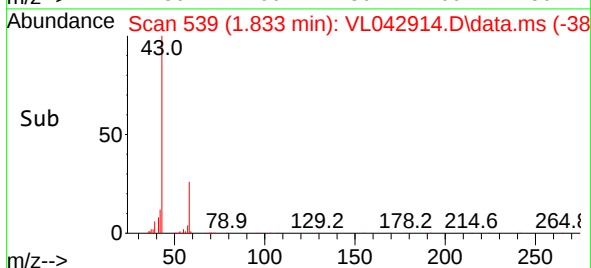
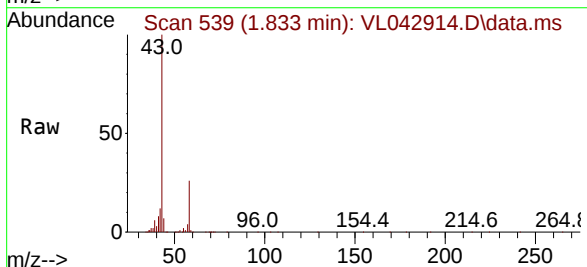
Manual Integrations
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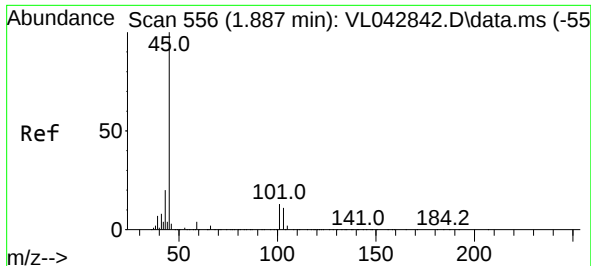
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#15
Acetone
Concen: 4.064 ppbv
RT: 1.833 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

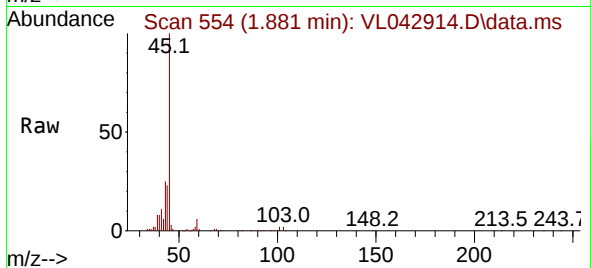
Tgt Ion: 43 Resp: 70651
Ion Ratio Lower Upper
43 100
58 25.3 22.4 33.6





#19
Isopropyl Alcohol
Concen: 2.186 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

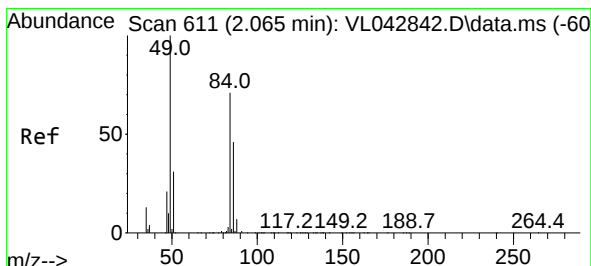
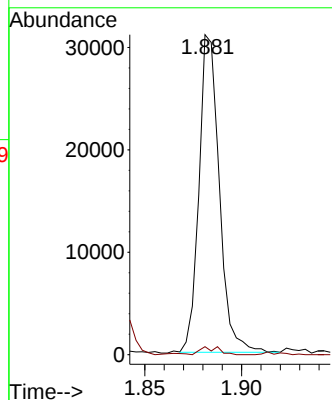
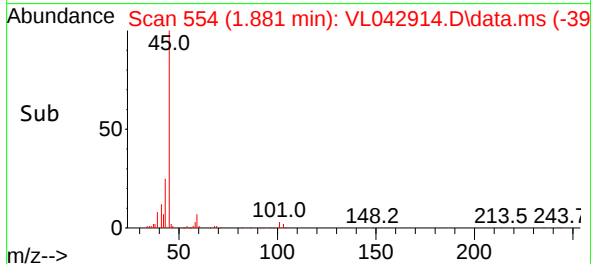
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



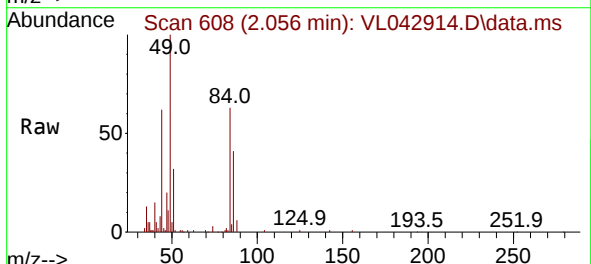
Tgt Ion: 45 Resp: 22690
Ion Ratio Lower Upper
45 100
58 78.6 32.7 49.1

Manual Integrations
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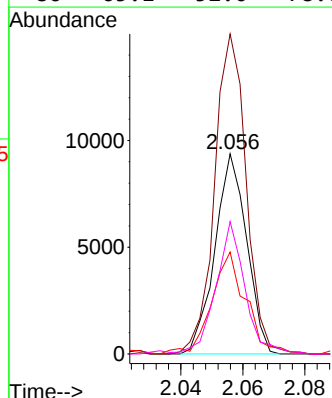
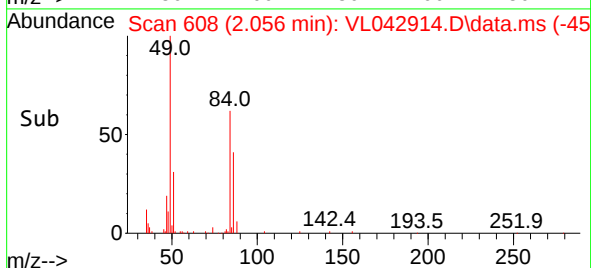
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

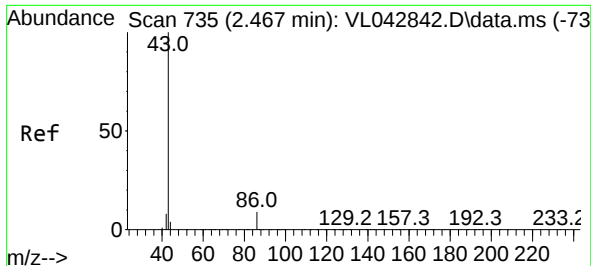


#20
Methylene Chloride
Concen: 0.916 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45



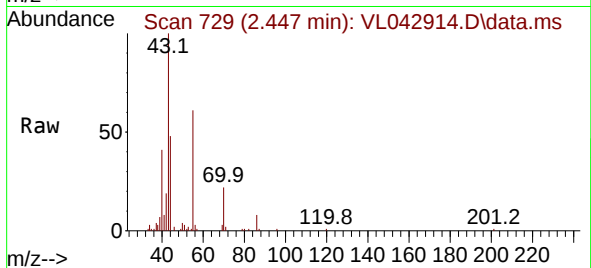
Tgt Ion: 84 Resp: 6670
Ion Ratio Lower Upper
84 100
49 158.8 112.3 168.5
51 48.2 36.0 54.0
86 65.1 52.0 78.0





#23
 Vinyl Acetate
 Concen: 0.406 ppbv
 RT: 2.447 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VL042914.D
 Acq: 08 Sep 2025 21:45

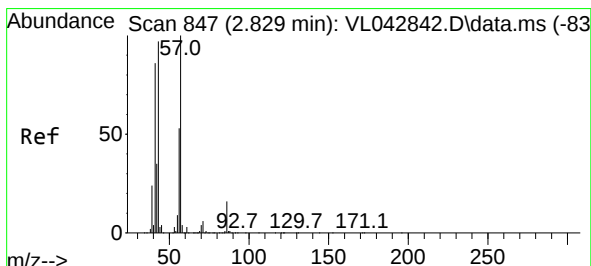
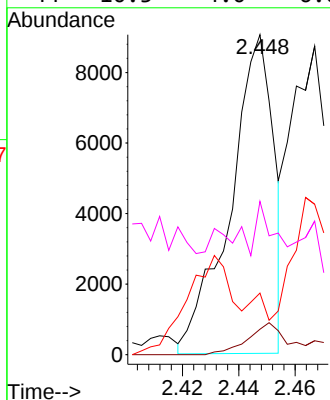
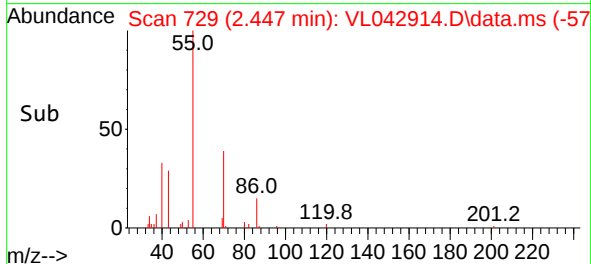
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP



Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	7.6	7.0	10.6
44	10.3	4.0	6.0#

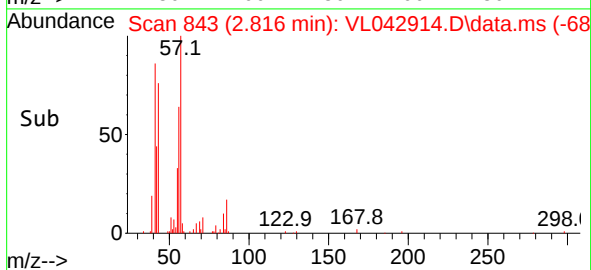
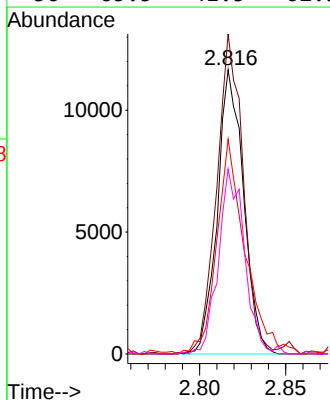
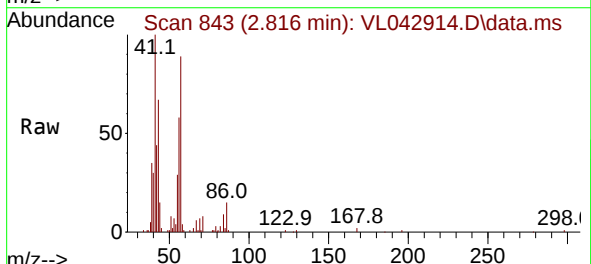
Manual Integrations
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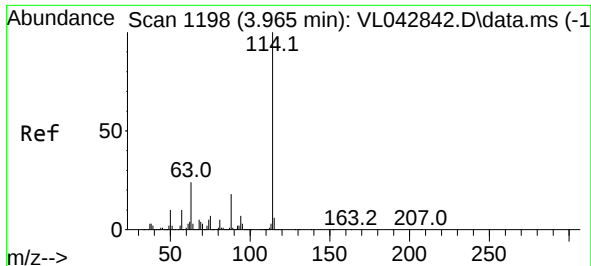
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#26
 Hexane
 Concen: 0.635 ppbv
 RT: 2.816 min Scan# 843
 Delta R.T. 0.000 min
 Lab File: VL042914.D
 Acq: 08 Sep 2025 21:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	115.2	68.6	103.0#
43	82.9	168.5	252.7#
56	65.5	41.5	62.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042914.D

Acq: 08 Sep 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

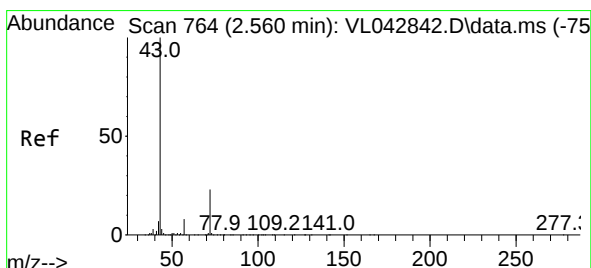
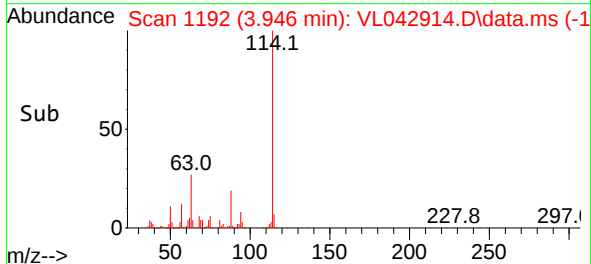
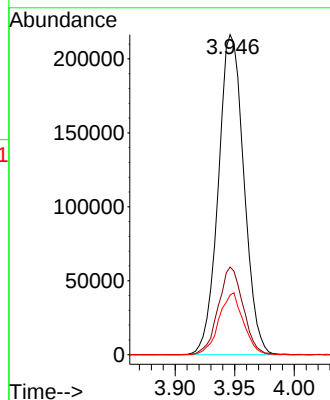
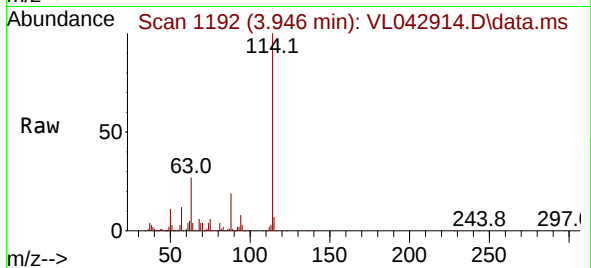
OA1DUP

Tgt Ion:	114	Resp:	32298
Ion Ratio	Lower	Upper	
114	100		
63	26.7	19.7	29.5
88	18.4	14.4	21.6

Manual Integrations

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#34

2-Butanone

Concen: 0.379 ppbv

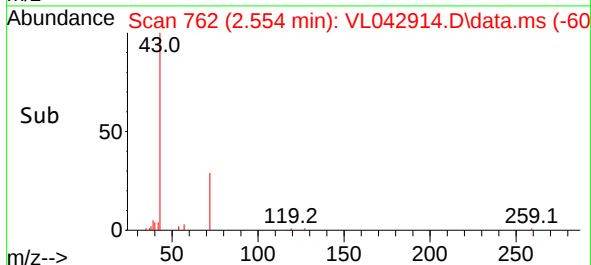
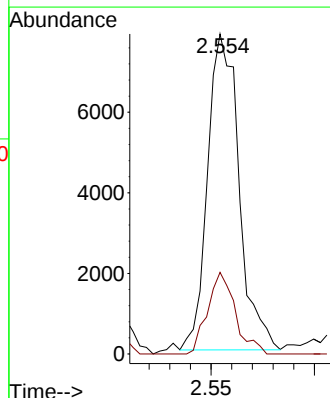
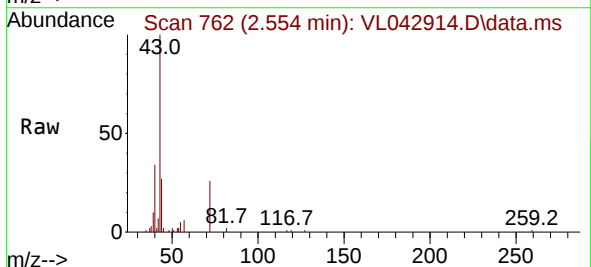
RT: 2.554 min Scan# 762

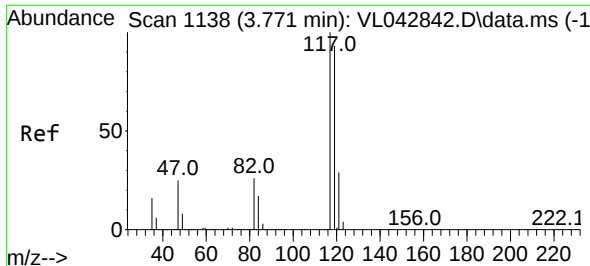
Delta R.T. 0.007 min

Lab File: VL042914.D

Acq: 08 Sep 2025 21:45

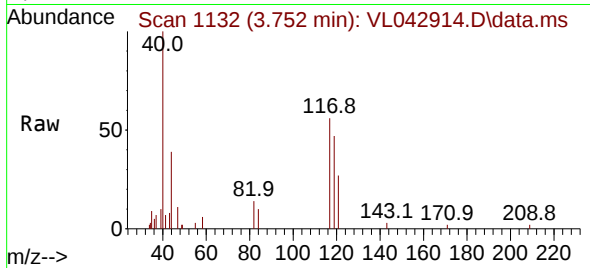
Tgt Ion:	43	Resp:	8271
Ion Ratio	Lower	Upper	
43	100		
72	22.8	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 3.752 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

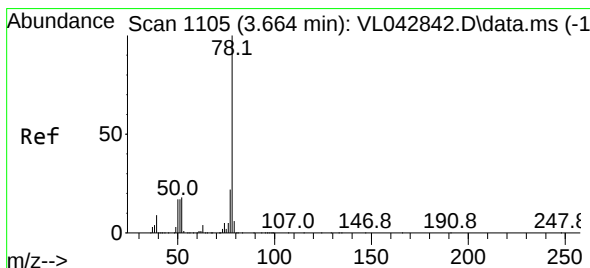
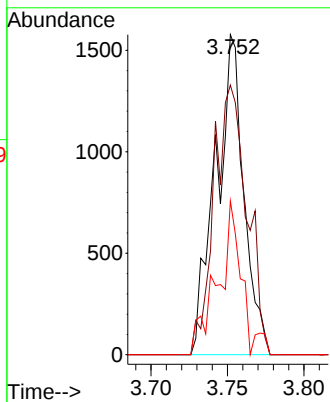
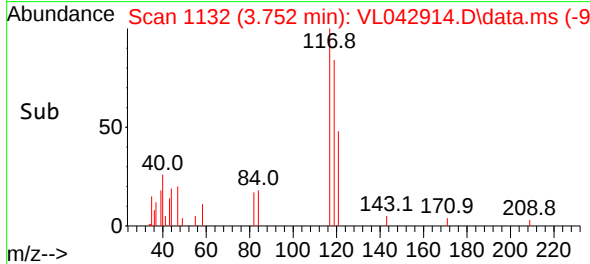
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 117 Resp: 2029
Ion Ratio Lower Upper
117 100
119 84.3 74.7 112.1
121 48.1 23.2 34.8

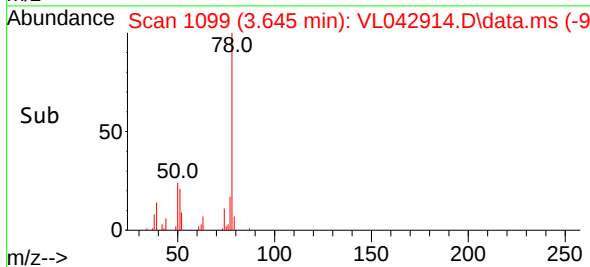
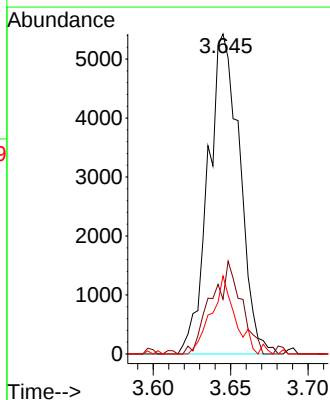
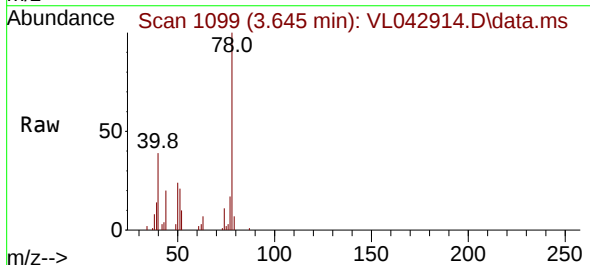
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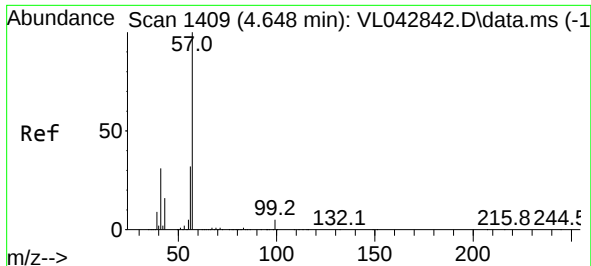
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#36
Benzene
Concen: 0.249 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.000 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

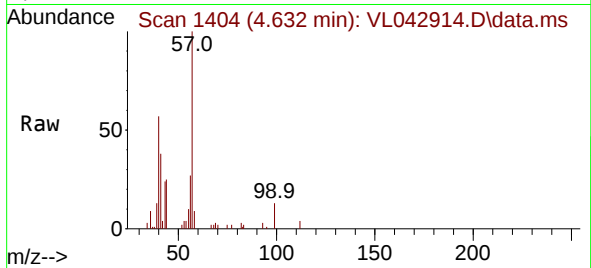
Tgt Ion: 78 Resp: 7688
Ion Ratio Lower Upper
78 100
77 17.1 17.7 26.5#
50 24.4 13.9 20.9#





#44
2,2,4-Trimethylpentane
Concen: 0.187 ppbv m
RT: 4.632 min Scan# 1409
Delta R.T. 0.010 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

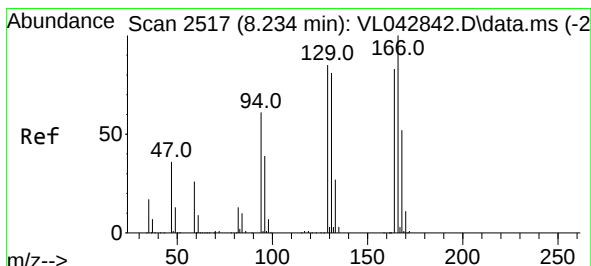
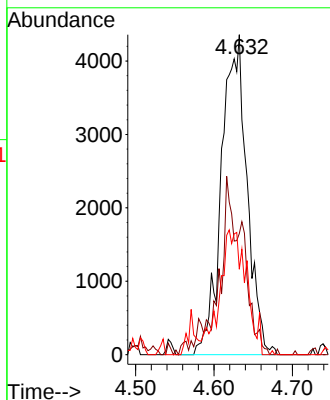
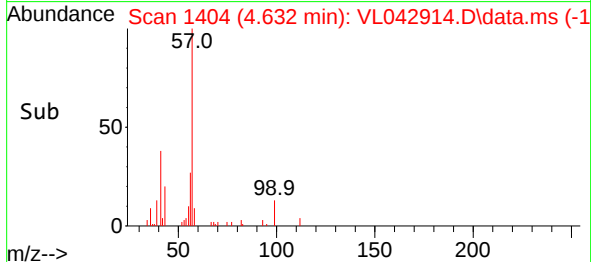
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 57 Resp: 980
Ion Ratio Lower Upper
57 100
41 0.0 24.8 37.2
56 0.0 25.5 38.3

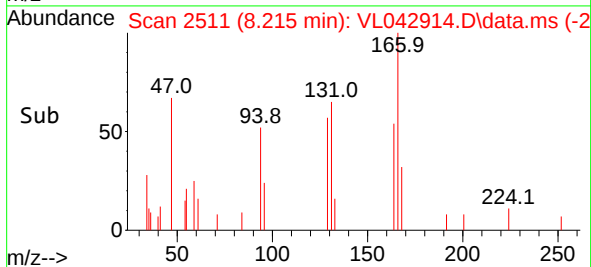
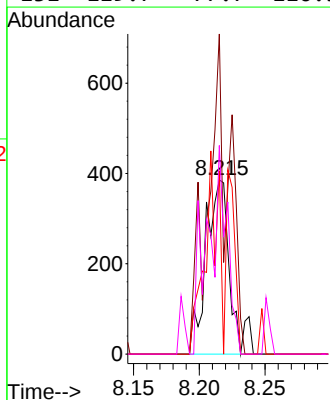
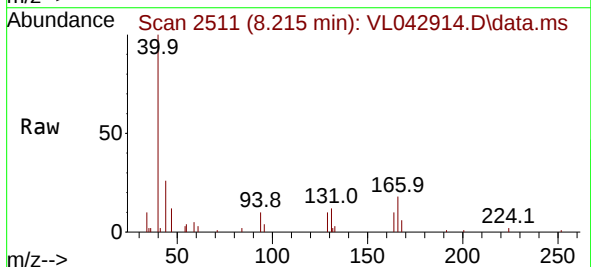
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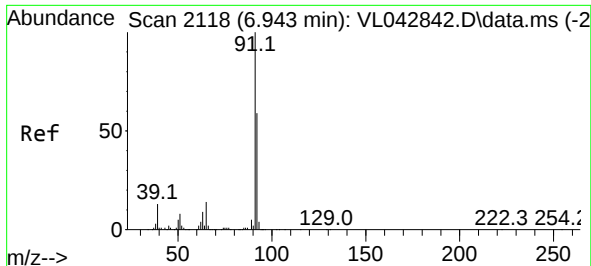
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

Tgt Ion:164 Resp: 490
Ion Ratio Lower Upper
164 100
166 183.7 96.5 144.7#
129 105.2 81.8 122.6
131 119.7 77.7 116.5#





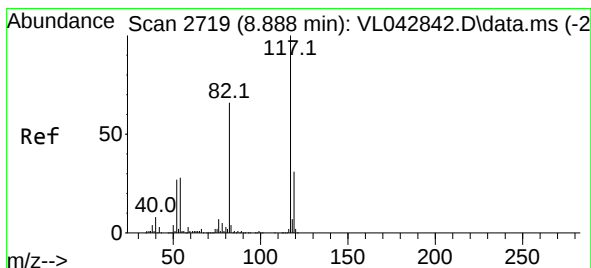
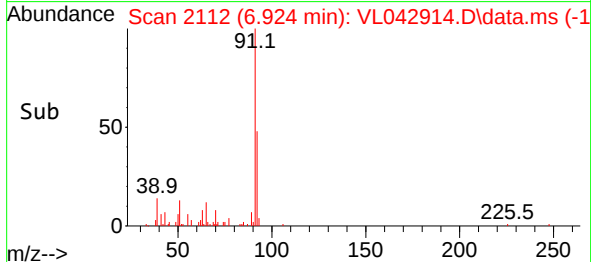
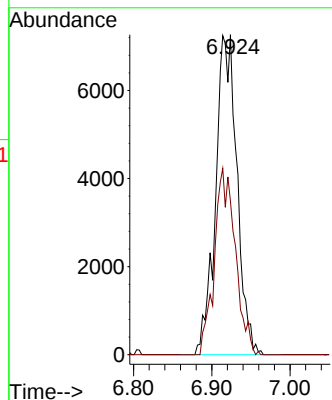
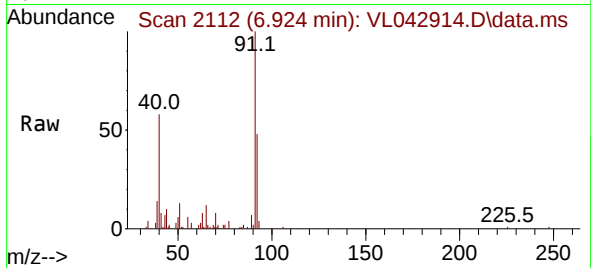
#53
Toluene
Concen: 0.375 ppbv m
RT: 6.924 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion: 91 Resp: 13774
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6

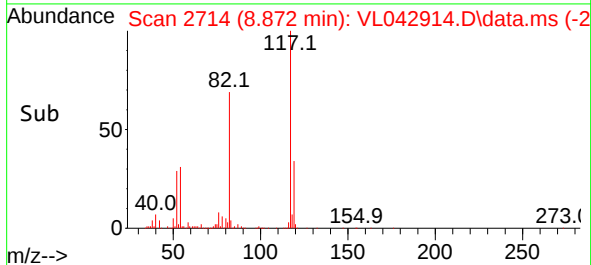
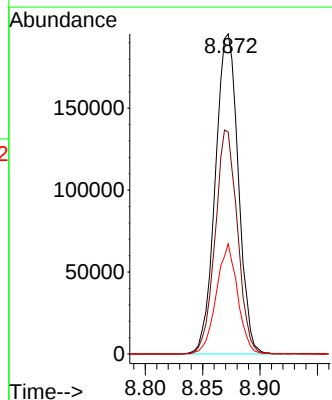
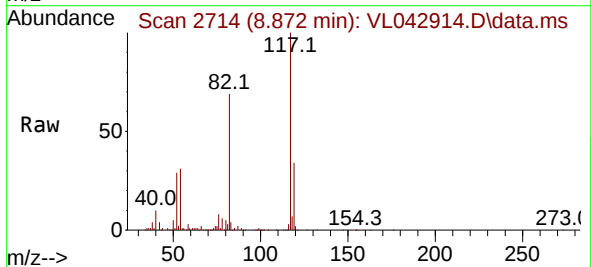
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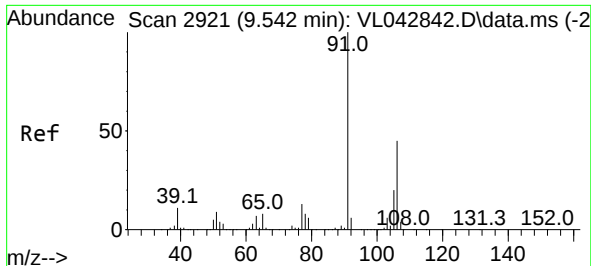
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.004 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

Tgt Ion:117 Resp: 272303
Ion Ratio Lower Upper
117 100
82 67.6 54.6 81.8
119 31.9 25.9 38.9





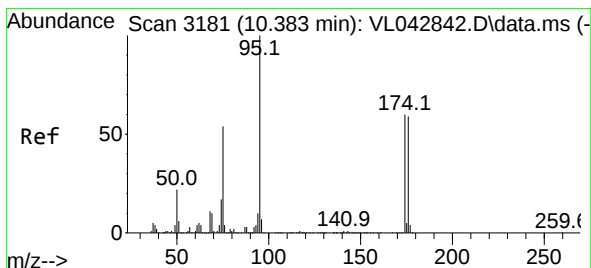
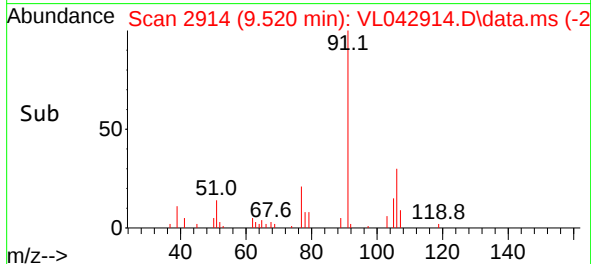
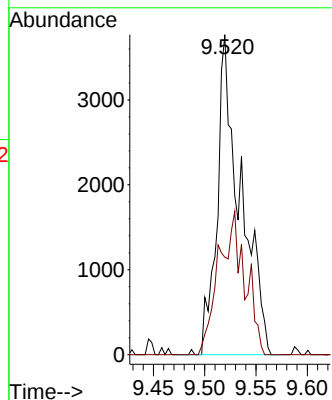
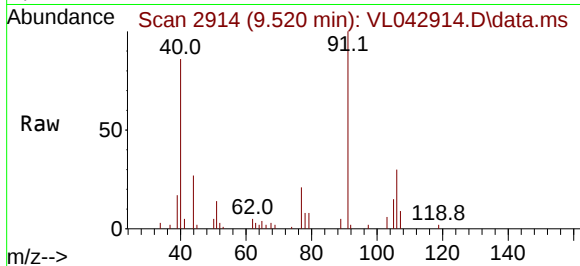
#59
m/p-Xylene
Concen: 0.159 ppbv m
RT: 9.520 min Scan# 2921
Delta R.T. -0.019 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion: 91 Resp: 598
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.008 ppbv
RT: 10.368 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL042914.D
Acq: 08 Sep 2025 21:45

Tgt Ion: 95 Resp: 204384
Ion Ratio Lower Upper
95 100
174 56.1 48.4 72.6
175 3.7 3.8 5.8

