

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043094.D
 Acq On : 09 Oct 2025 18:54
 Operator : SY/MD
 Sample : Q3320-06 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 22:19:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	191981	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.942	114	503256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	519202	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	418553	11.191	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.900%
Target Compounds						
					Qvalue	
9) Propene	1.476	41	2701	0.214	ppbv #	82
10) Heptane	4.956	43	13600	0.438	ppbv	98
11) Trichlorofluoromethane	1.871	101	6274	0.189	ppbv	85
13) Ethanol	1.716	45	4552	8.683	ppbv #	31
15) Acetone	1.829	43	311600	11.592	ppbv	99
19) Isopropyl Alcohol	1.881	45	5186m	0.403	ppbv	
20) Methylene Chloride	2.052	84	2955	0.252	ppbv	93
26) Hexane	2.813	57	89180	3.438	ppbv #	33
30) Cyclohexane	3.836	84	2609m	0.122	ppbv	
34) 2-Butanone	2.551	43	7371	0.216	ppbv	94
38) Trichloroethene	4.528	130	1874m	0.094	ppbv	
41) Tetrahydrofuran	3.049	42	2921m	0.166	ppbv	
52) Tetrachloroethene	8.208	164	1576m	0.089	ppbv	
53) Toluene	6.907	91	29082	0.599	ppbv	100
58) Ethyl Benzene	9.338	91	8870	0.110	ppbv	92
59) m/p-Xylene	9.513	91	19679m	0.290	ppbv	
60) o-Xylene	9.943	91	14732	0.218	ppbv	92

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

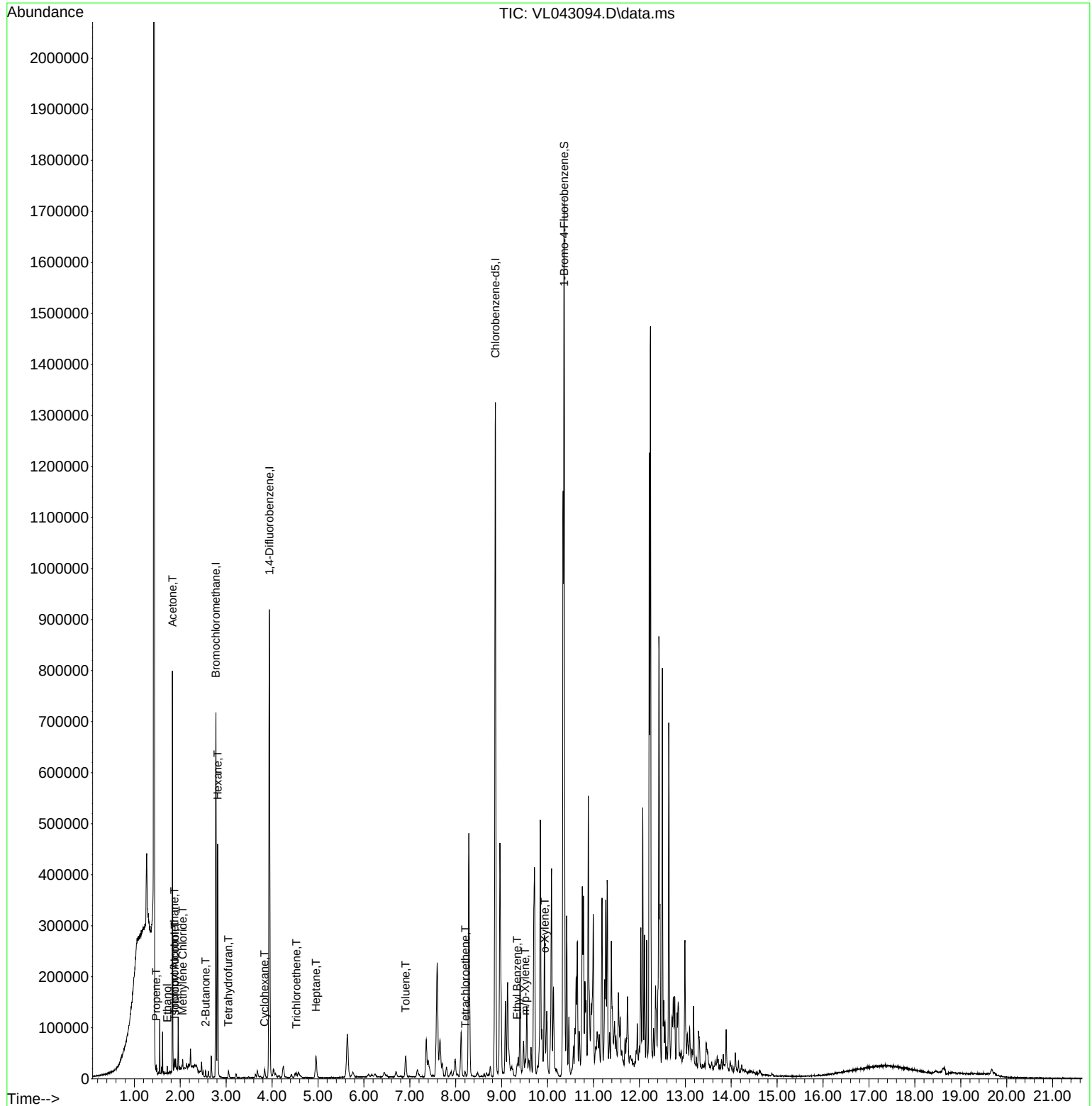
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043094.D
Acq On : 09 Oct 2025 18:54
Operator : SY/MD
Sample : Q3320-06 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

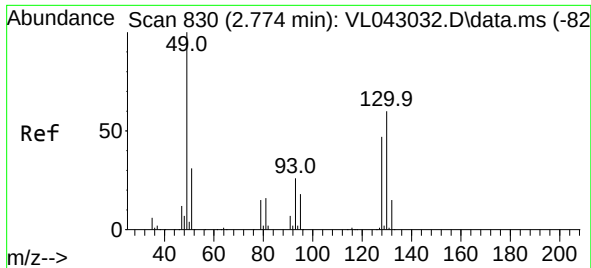
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Oct 09 22:19:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

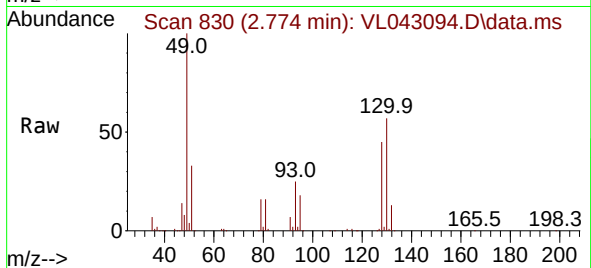
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

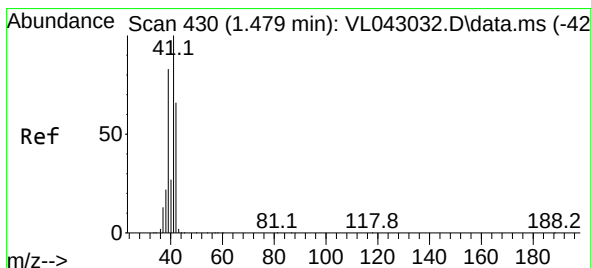
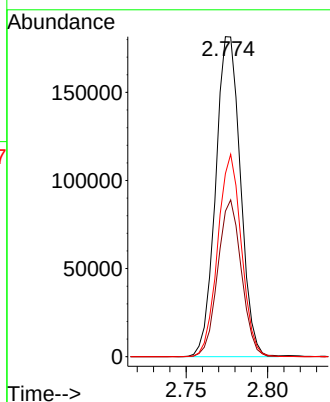
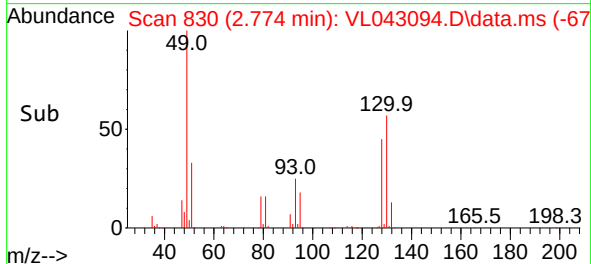
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 49 Resp: 19198
Ion Ratio Lower Upper
49 100
128 46.6 24.1 72.2
130 60.3 31.4 94.3

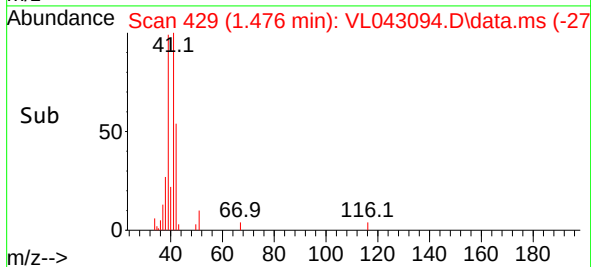
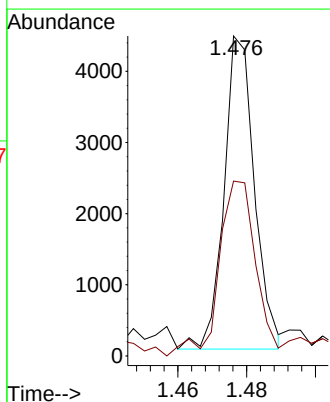
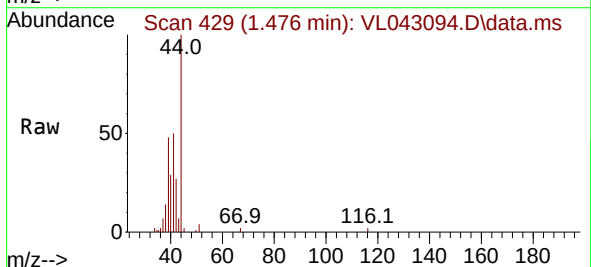
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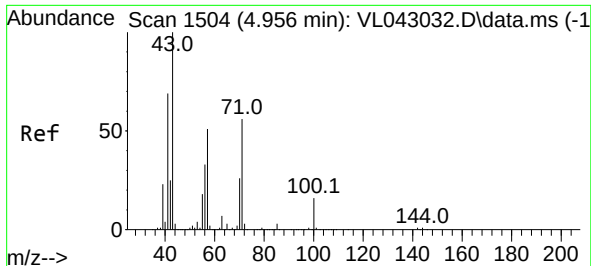
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#9
Propene
Concen: 0.214 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

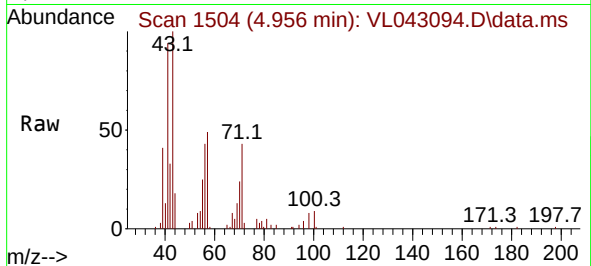
Tgt Ion: 41 Resp: 2701
Ion Ratio Lower Upper
41 100
42 80.9 53.3 79.9#





#10
Heptane
Concen: 0.438 ppbv
RT: 4.956 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

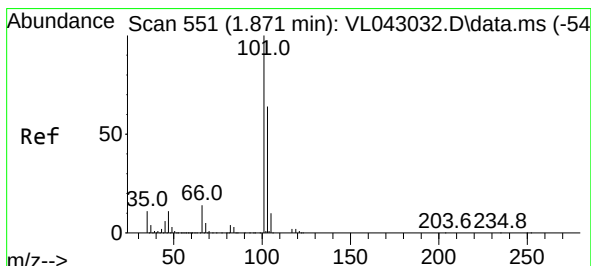
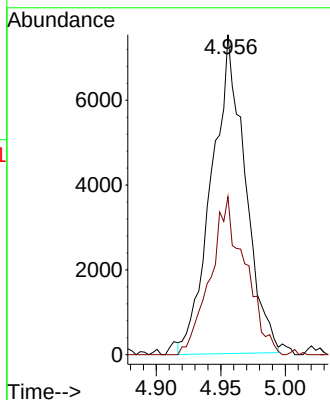
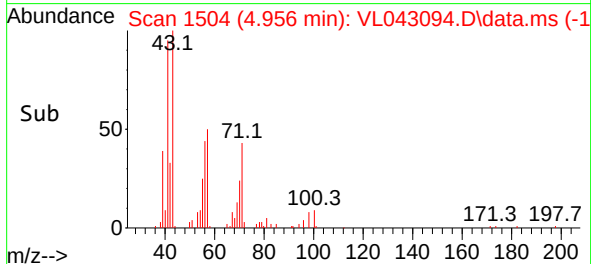
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 43 Resp: 13600
Ion Ratio Lower Upper
43 100
57 51.7 40.3 60.5

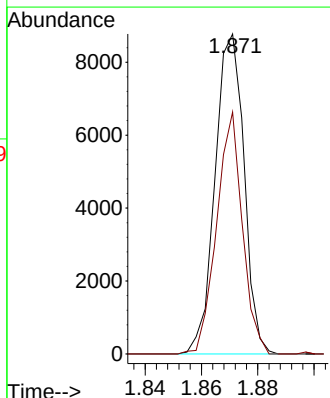
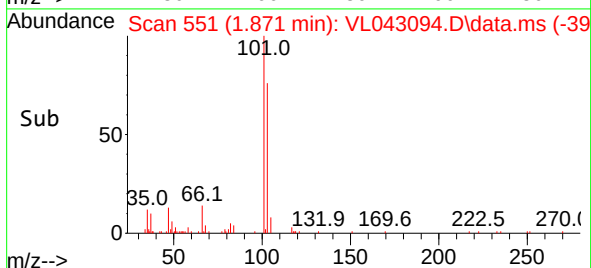
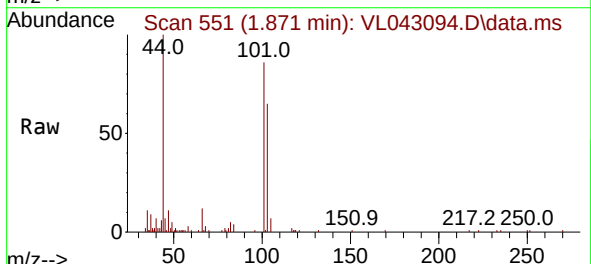
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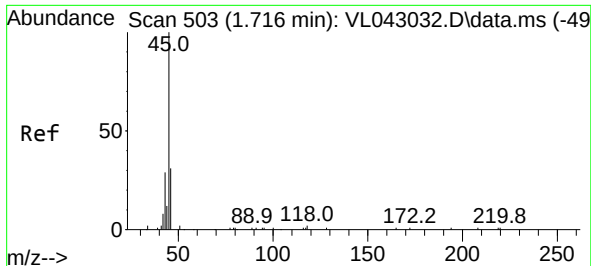
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 0.189 ppbv
RT: 1.871 min Scan# 551
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

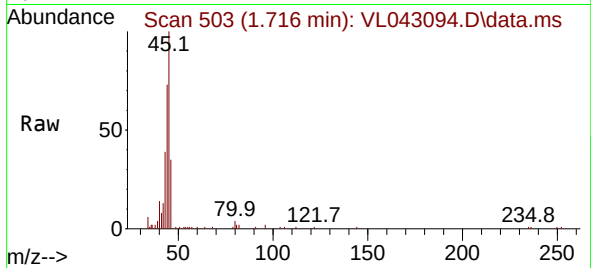
Tgt Ion:101 Resp: 6274
Ion Ratio Lower Upper
101 100
103 75.6 51.1 76.7





#13
Ethanol
Concen: 8.683 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

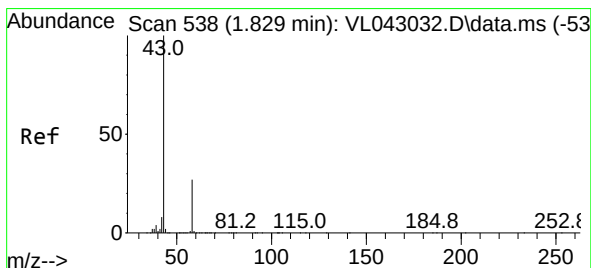
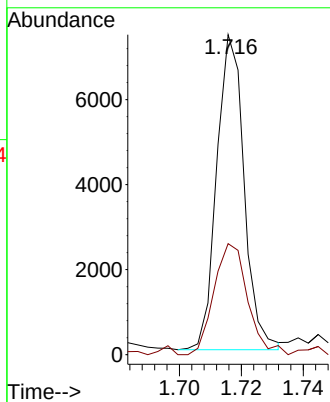
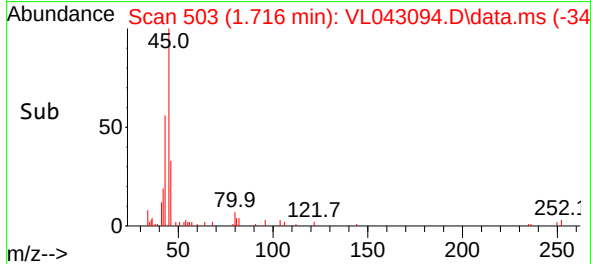
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 45 Resp: 4552
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4

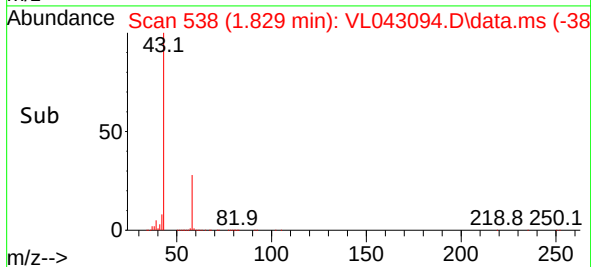
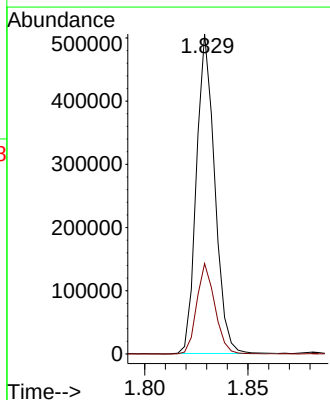
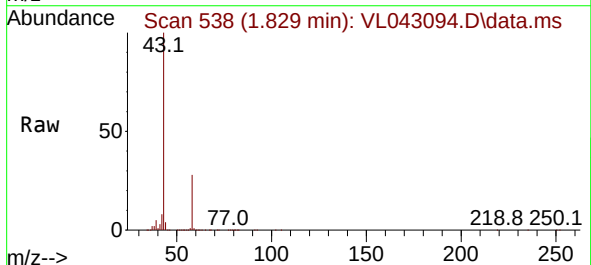
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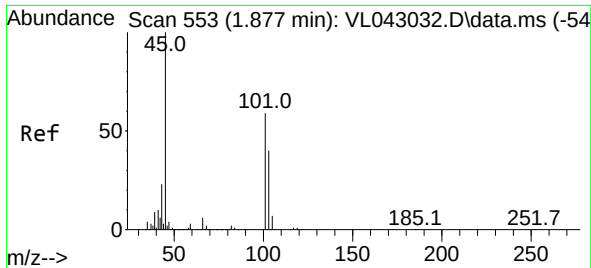
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 11.592 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

Tgt Ion: 43 Resp: 311600
Ion Ratio Lower Upper
43 100
58 28.1 22.2 33.4





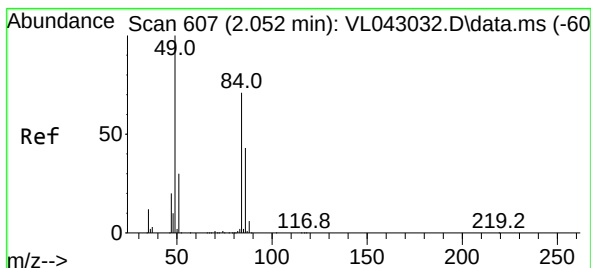
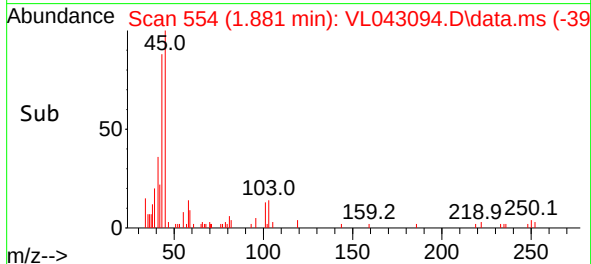
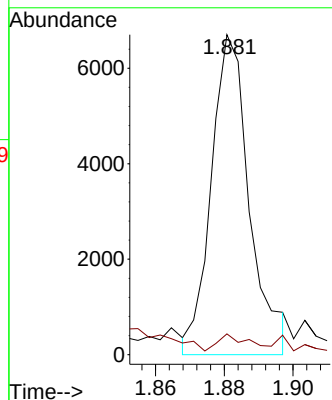
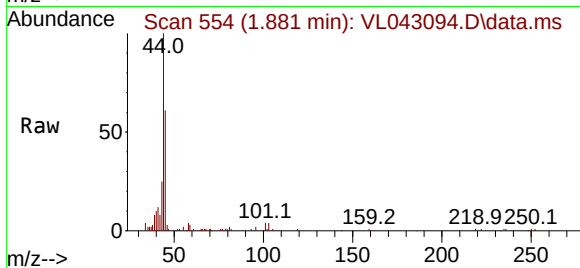
#19
Isopropyl Alcohol
Concen: 0.403 ppbv m
RT: 1.881 min Scan# 518
Delta R.T. 0.003 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 45 Resp: 5180
Ion Ratio Lower Upper
45 100
58 0.0 42.3 63.5

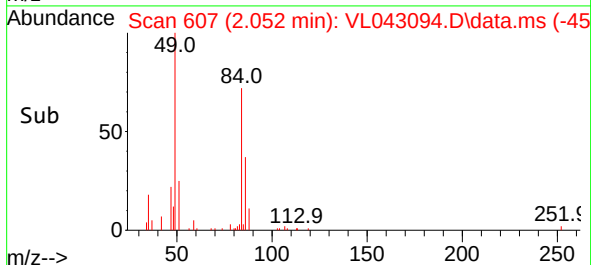
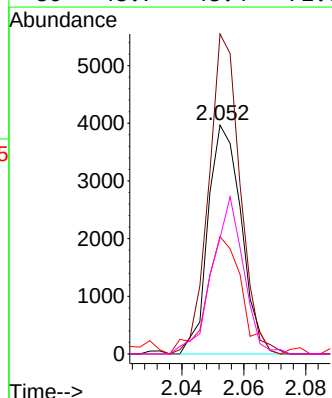
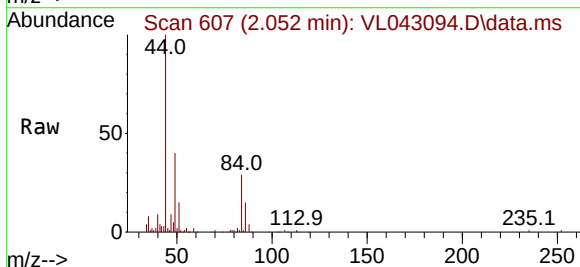
Manual Integrations
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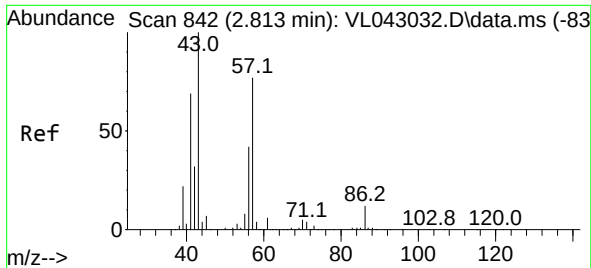
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.252 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

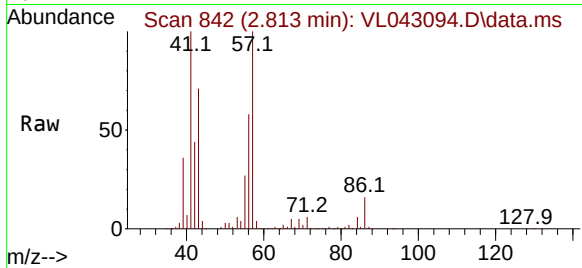
Tgt Ion: 84 Resp: 2955
Ion Ratio Lower Upper
84 100
49 137.9 112.5 168.7
51 51.2 34.2 51.2
86 48.7 48.4 72.6





#26
Hexane
Concen: 3.438 ppbv
RT: 2.813 min Scan# 842
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

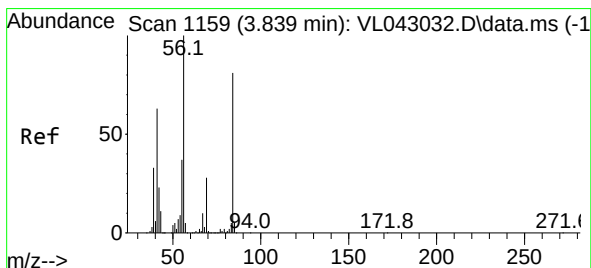
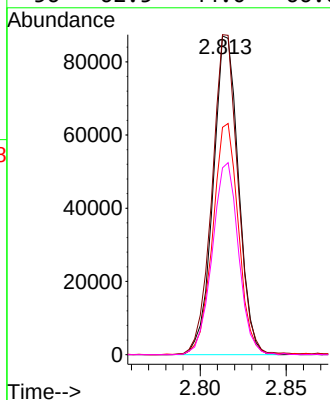
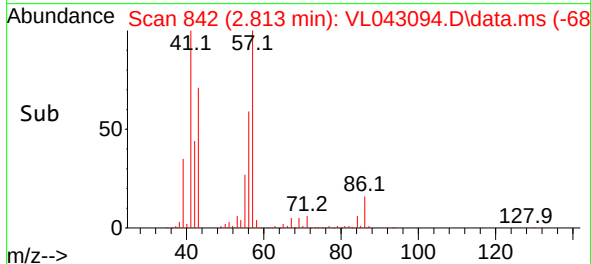
Instrument :
MSVOA_L
ClientSampleId :
SV3



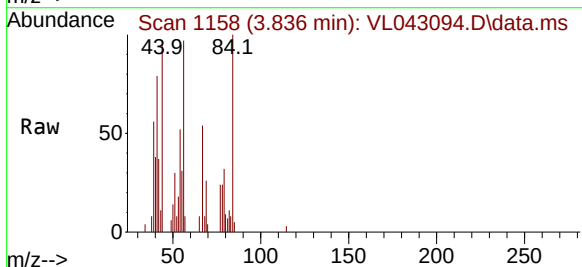
Tgt Ion: 57 Resp: 89180
Ion Ratio Lower Upper
57 100
41 103.1 76.1 114.1
43 74.3 201.4 302.0
56 62.5 44.0 66.0

Manual Integrations
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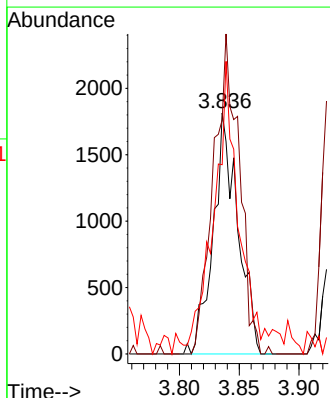
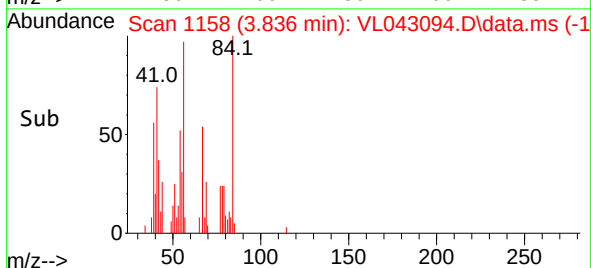
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

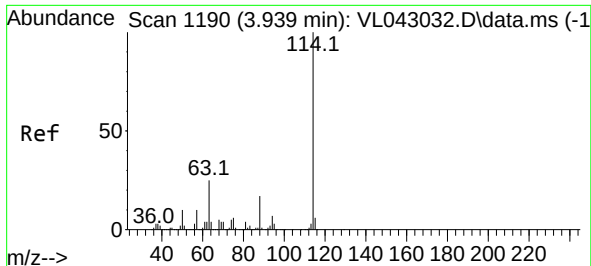


#30
Cyclohexane
Concen: 0.122 ppbv m
RT: 3.836 min Scan# 1158
Delta R.T. -0.003 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54



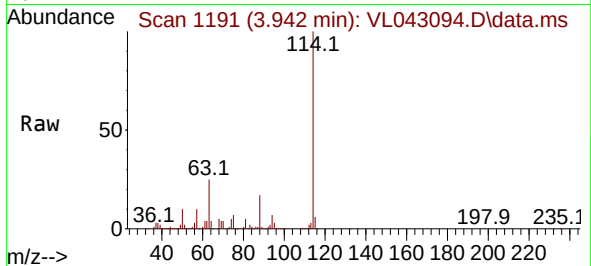
Tgt Ion: 84 Resp: 2609
Ion Ratio Lower Upper
84 100
56 137.6 99.9 149.9
41 135.3 64.2 96.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.942 min Scan# 1190
Delta R.T. 0.003 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

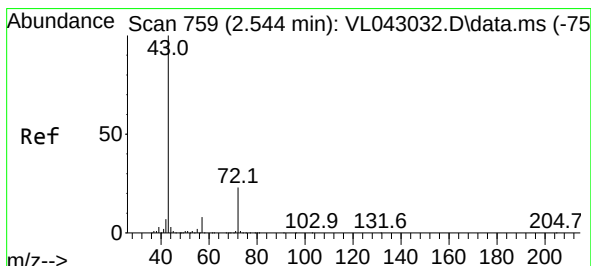
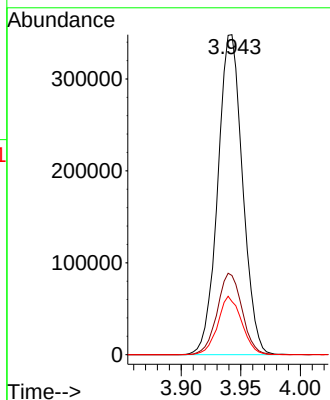
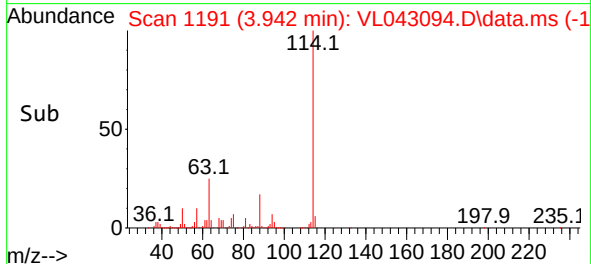
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:114 Resp: 503250
Ion Ratio Lower Upper
114 100
63 25.5 19.4 29.2
88 17.6 13.9 20.9

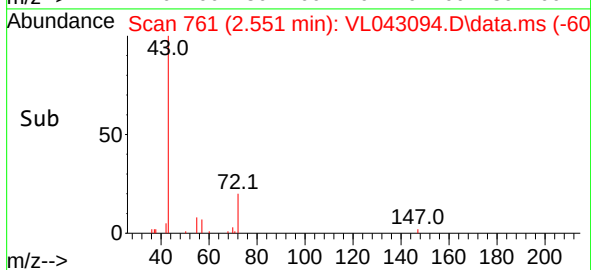
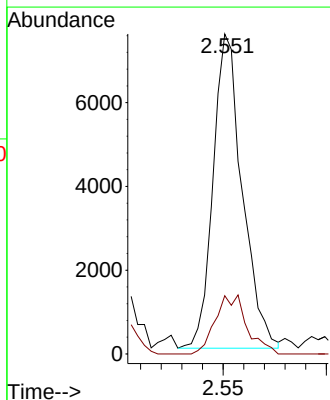
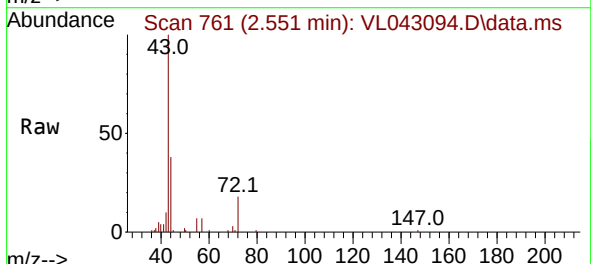
Manual Integrations
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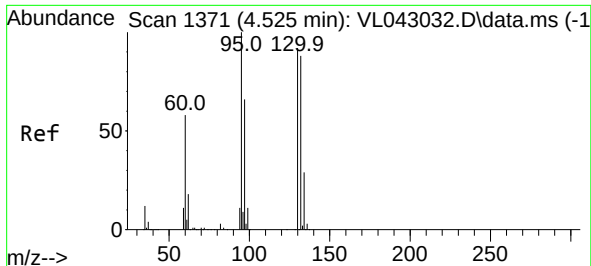
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#34
2-Butanone
Concen: 0.216 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.007 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

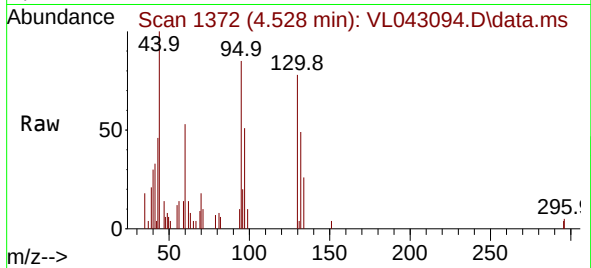
Tgt Ion: 43 Resp: 7371
Ion Ratio Lower Upper
43 100
72 20.3 18.4 27.6





#38
 Trichloroethene
 Concen: 0.094 ppbv m
 RT: 4.528 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VL043094.D
 Acq: 09 Oct 2025 18:54

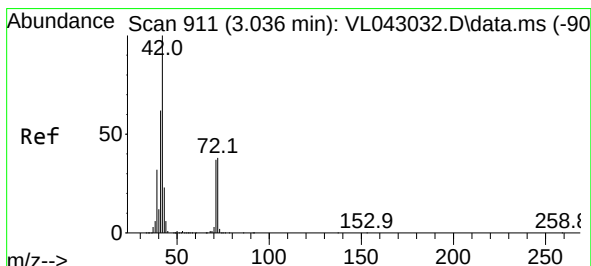
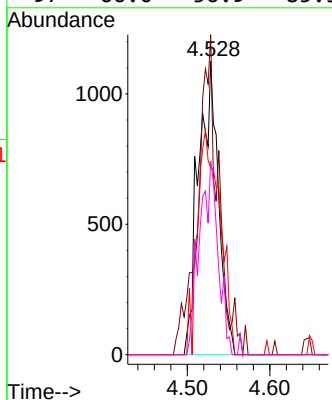
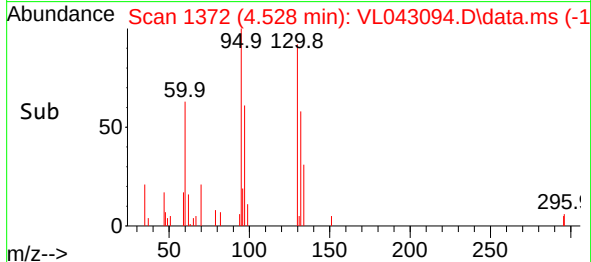
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



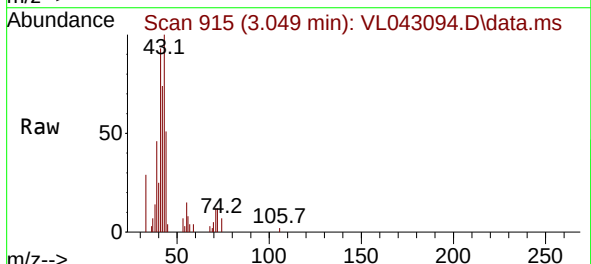
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 Ion Ratio Lower Upper
 130 100
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 132 63.6 75.7 113.5
 97 66.0 56.9 85.3

Manual Integrations
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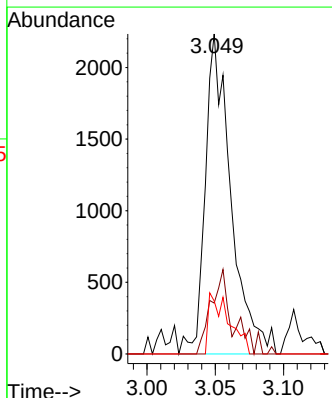
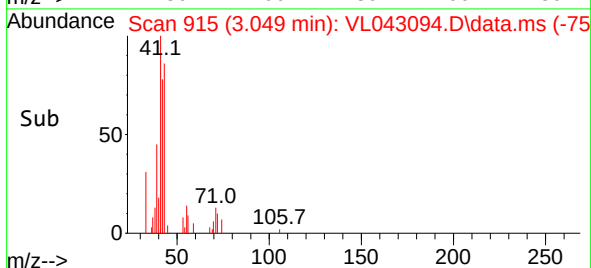
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 Supervised By :Mahesh Dadoda 10/10/2025

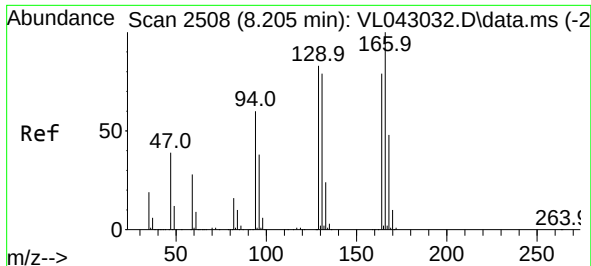


#41
 Tetrahydrofuran
 Concen: 0.166 ppbv m
 RT: 3.049 min Scan# 915
 Delta R.T. 0.013 min
 Lab File: VL043094.D
 Acq: 09 Oct 2025 18:54



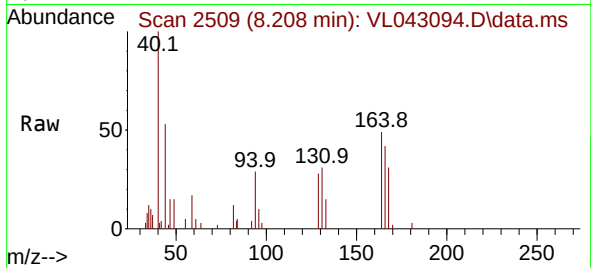
Tgt Ion: 42 Resp: 2921
 Ion Ratio Lower Upper
 42 100
 72 22.8 31.0 46.6#
 71 15.3 29.8 44.6#





#52
Tetrachloroethene
Concen: 0.089 ppbv m
RT: 8.208 min Scan# 2107
Delta R.T. 0.003 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

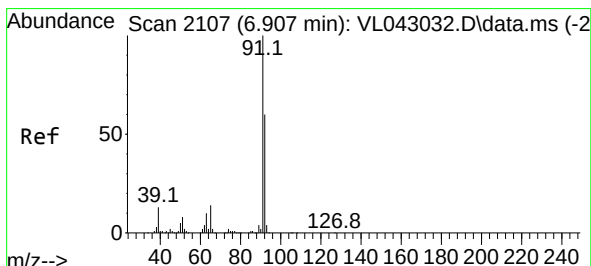
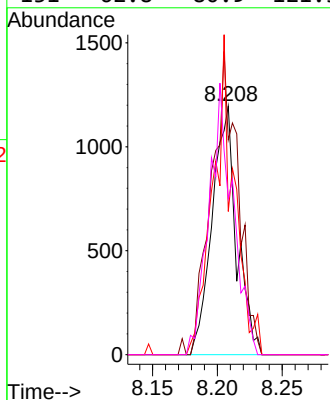
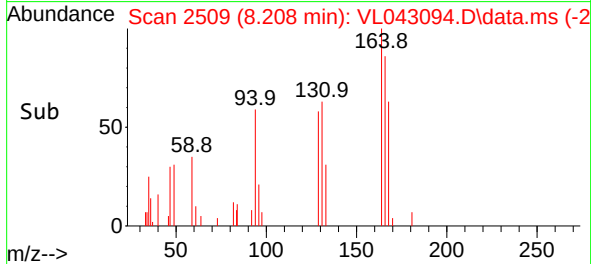
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:164 Resp: 1570
Ion Ratio Lower Upper
164 100
166 86.4 101.8 152.8
129 57.7 84.5 126.7
131 62.8 80.9 121.3

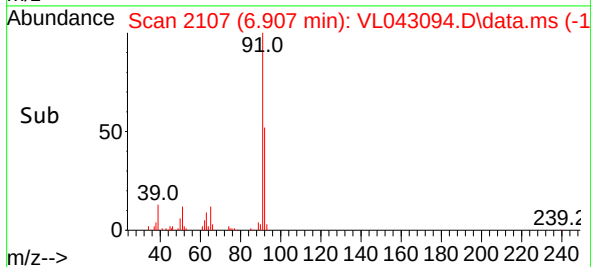
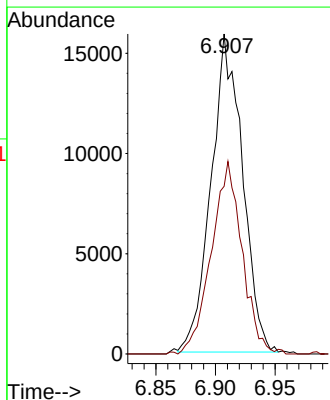
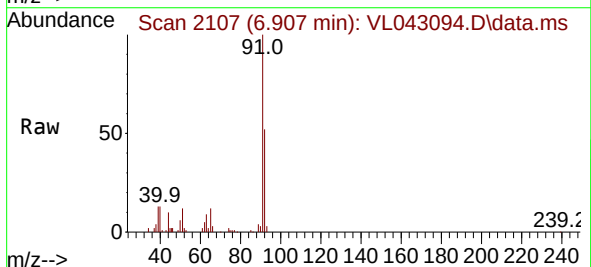
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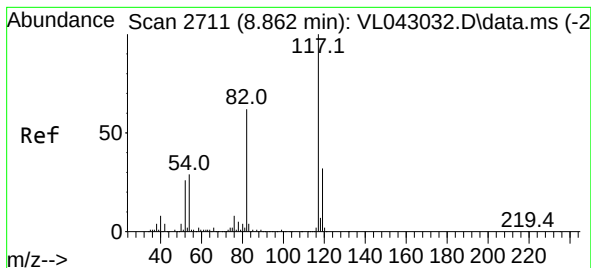
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.599 ppbv
RT: 6.907 min Scan# 2107
Delta R.T. 0.000 min
Lab File: VL043094.D
Acq: 09 Oct 2025 18:54

Tgt Ion: 91 Resp: 29082
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.862 min Scan# 2711

Delta R.T. 0.000 min

Lab File: VL043094.D

Acq: 09 Oct 2025 18:54

Instrument :

MSVOA_L

ClientSampleId :

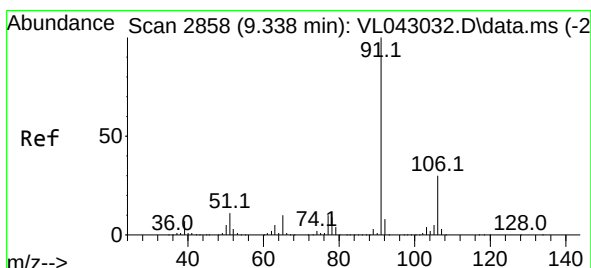
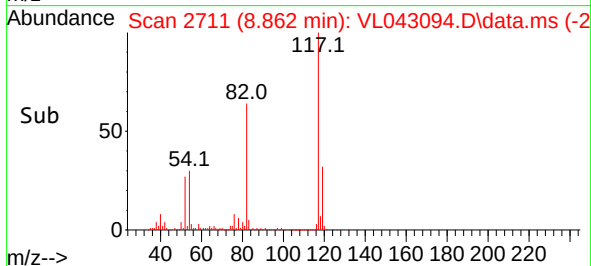
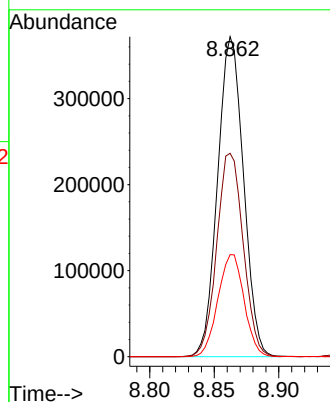
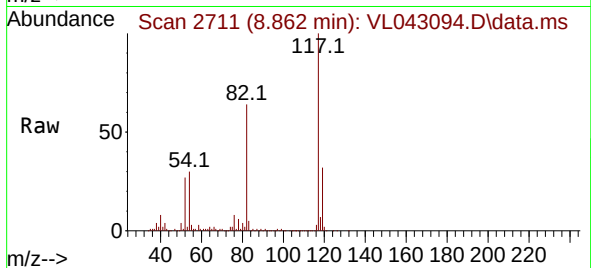
SV3

Tgt Ion:	117	Resp:	51920
Ion Ratio	Lower	Upper	
117	100		
82	65.0	53.0	79.6
119	32.2	25.4	38.2

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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#58

Ethyl Benzene

Concen: 0.110 ppbv

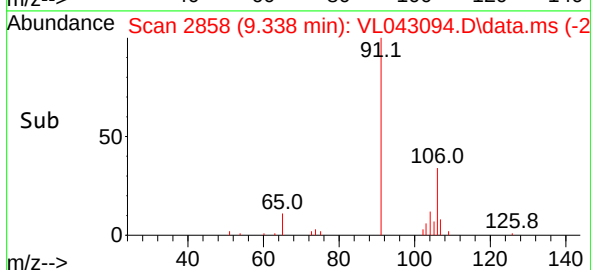
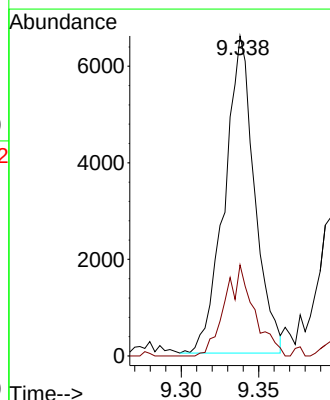
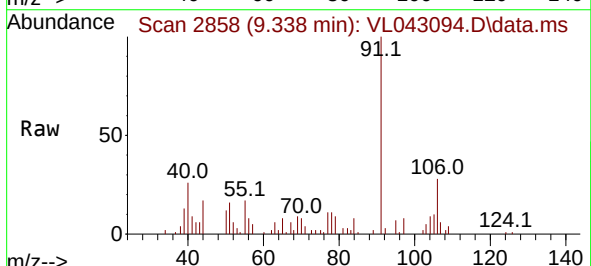
RT: 9.338 min Scan# 2858

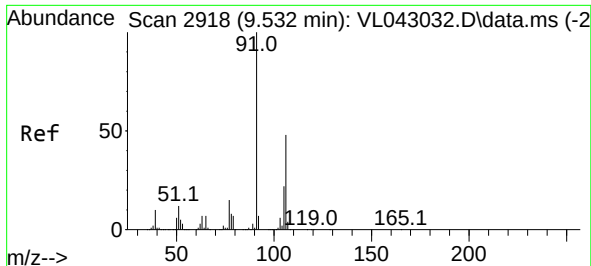
Delta R.T. 0.000 min

Lab File: VL043094.D

Acq: 09 Oct 2025 18:54

Tgt Ion:	91	Resp:	8870
Ion Ratio	Lower	Upper	
91	100		
106	34.7	24.1	36.1





#59

m/p-Xylene

Concen: 0.290 ppbv m

RT: 9.513 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL043094.D

Acq: 09 Oct 2025 18:54

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 91 Resp: 19679

Ion Ratio Lower Upper

91 100

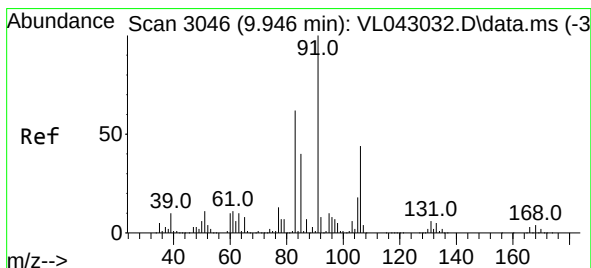
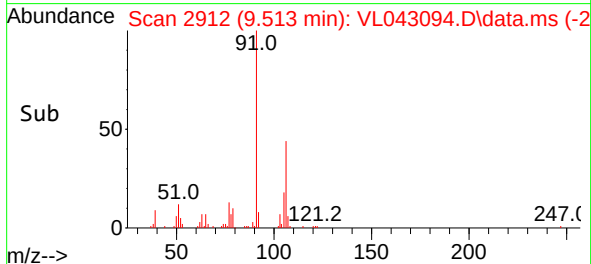
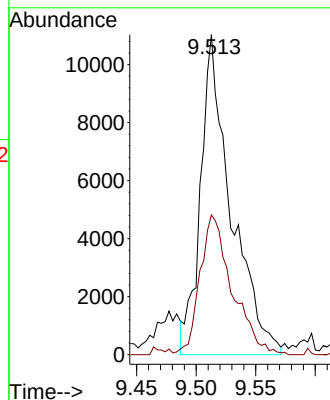
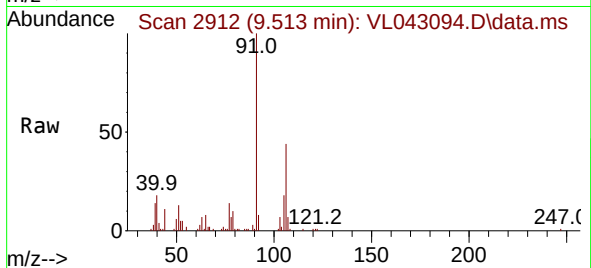
106 0.0 37.5 56.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#60

o-Xylene

Concen: 0.218 ppbv

RT: 9.943 min Scan# 3045

Delta R.T. -0.003 min

Lab File: VL043094.D

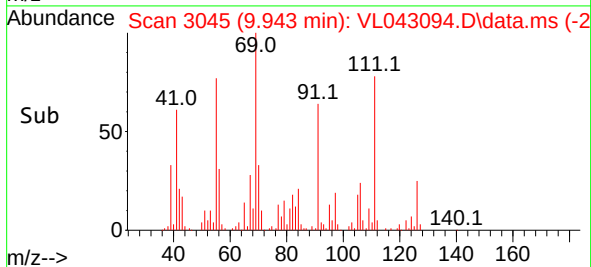
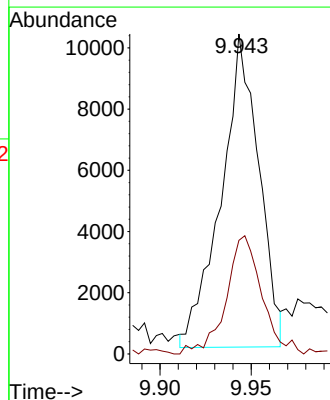
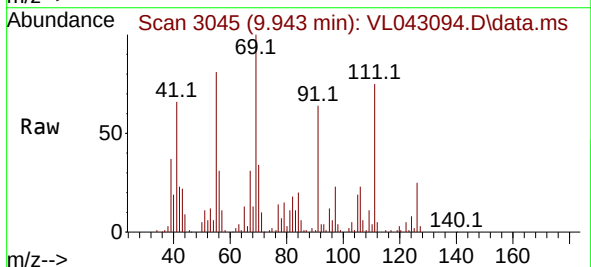
Acq: 09 Oct 2025 18:54

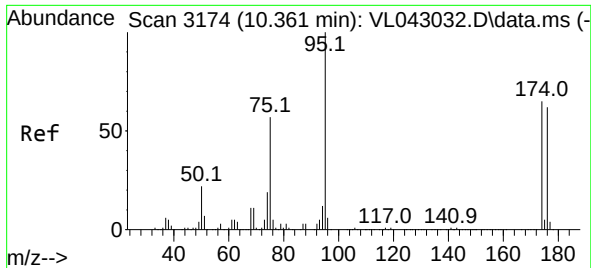
Tgt Ion: 91 Resp: 14732

Ion Ratio Lower Upper

91 100

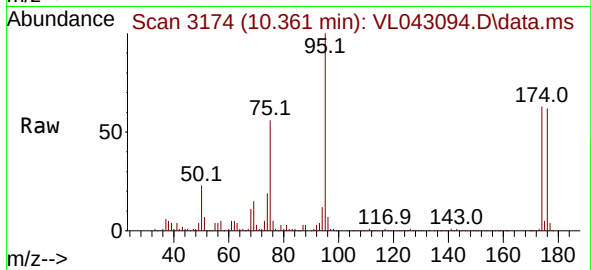
106 38.6 21.9 65.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.191 ppbv
 RT: 10.361 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VL043094.D
 Acq: 09 Oct 2025 18:54

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion: 95 Resp: 41855
 Ion Ratio Lower Upper
 95 100
 174 64.9 52.3 78.5
 175 4.7 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

