

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042904.D
 Acq On : 08 Sep 2025 15:15
 Operator : SY/MD
 Sample : Q3037-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

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

Quant Time: Sep 09 04:40:55 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	2.784	49	138126	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	368558	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	302216	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	236452	10.432	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	9878	0.488	ppbv	90
3) Chlorodifluoromethane	1.473	51	93046	4.158	ppbv #	91
4) Chloromethane	1.531	50	8036	0.984	ppbv	100
9) Propene	1.486	41	7792m	0.806	ppbv	
11) Trichlorofluoromethane	1.874	101	8692m	0.435	ppbv	
13) Ethanol	1.719	45	172209	194.899	ppbv	90
15) Acetone	1.832	43	2285778	125.100	ppbv #	77
19) Isopropyl Alcohol	1.884	45	2178522	199.623	ppbv	98
20) Methylene Chloride	2.059	84	8085	1.056	ppbv #	82
23) Vinyl Acetate	2.450	43	18775m	0.747	ppbv	
25) Ethyl Acetate	2.832	43	151536	3.427	ppbv #	94
26) Hexane	2.822	57	18422m	0.903	ppbv	
29) Chloroform	2.845	83	8304	0.285	ppbv	89
34) 2-Butanone	2.557	43	26086	1.048	ppbv	96
35) Carbon Tetrachloride	3.748	117	4551m	0.179	ppbv	
36) Benzene	3.648	78	4228m	0.120	ppbv	
41) Tetrahydrofuran	3.059	42	2514	0.181	ppbv #	53
43) Methyl Methacrylate	4.874	69	4146m	0.285	ppbv	
50) 4-Methyl-2-Pentanone	5.739	43	72979m	2.170	ppbv	
53) Toluene	6.923	91	13909	0.331	ppbv	98
59) m/p-Xylene	9.525	91	7779m	0.186	ppbv	
60) o-Xylene	9.959	91	4398	0.105	ppbv	100
64) n-propylbenzene	10.988	120	1936m	0.123	ppbv	
72) 4-Ethyltoluene	11.118	105	12697	0.249	ppbv #	62
73) 1,3,5-Trimethylbenzene	11.199	105	13893	0.320	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	53900	1.133	ppbv #	60

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

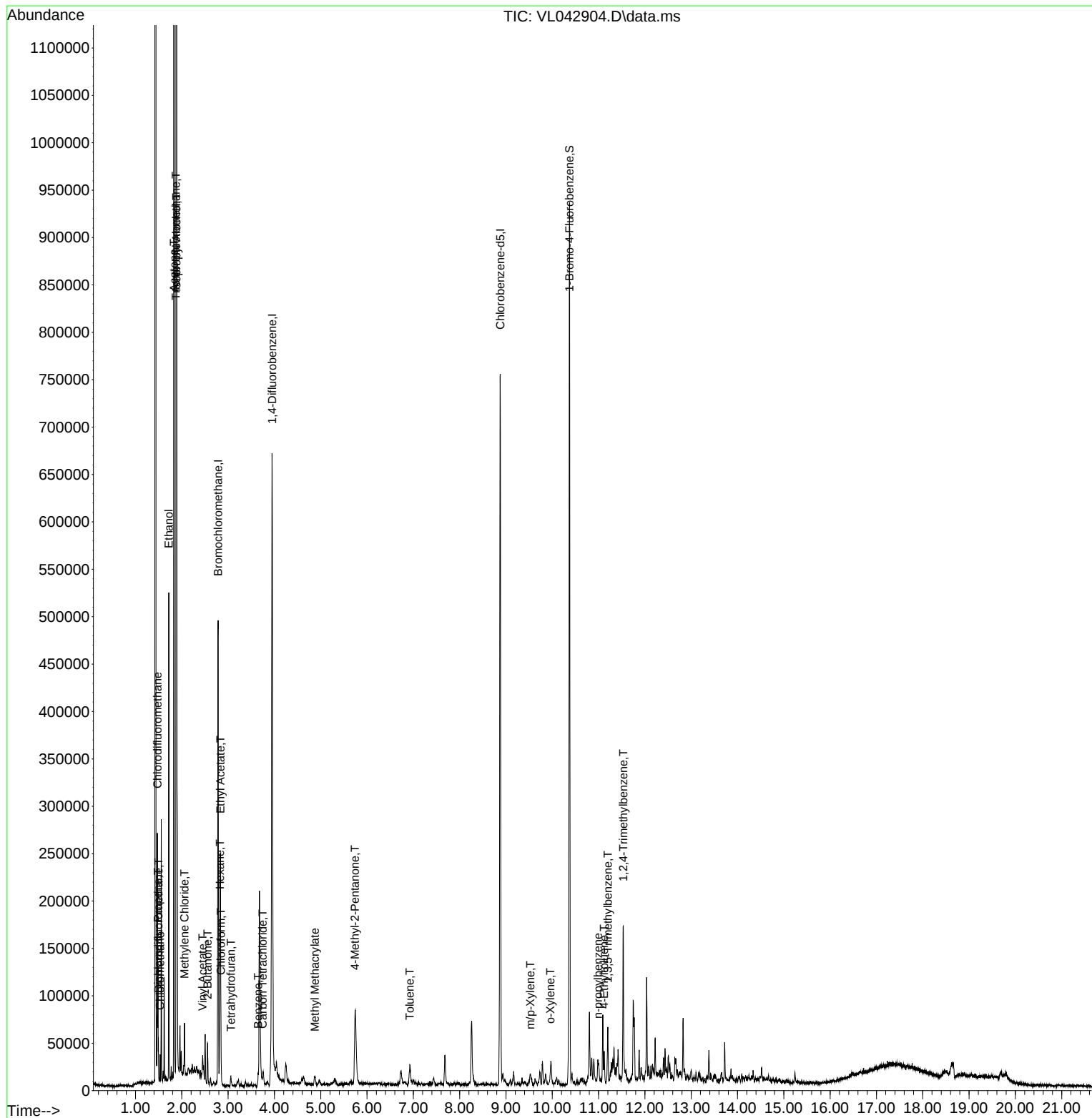
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
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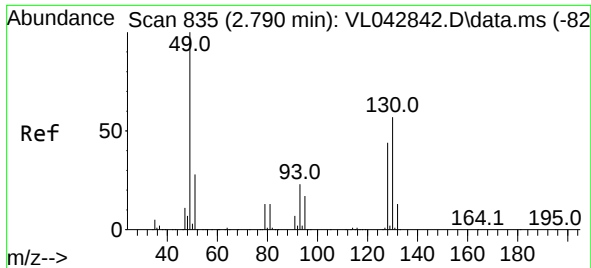
Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Sep 09 04:40:55 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

Manual Integrations
APPROVED

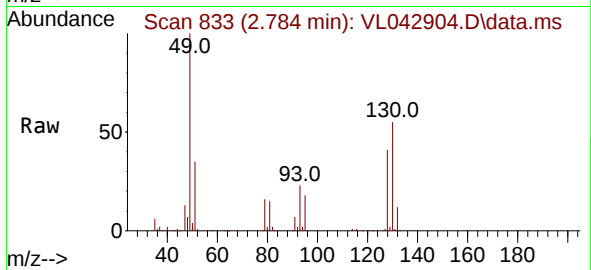
Reviewed By : Semsettin Yesilyurt 09/09/2025
Supervised By : Mahesh Dadoda 09/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

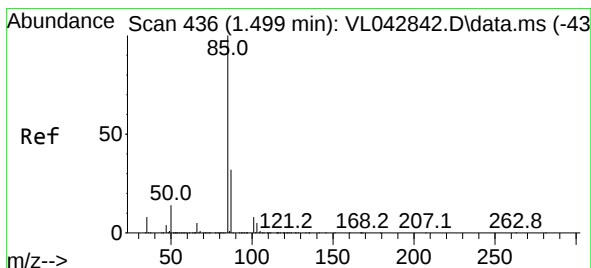
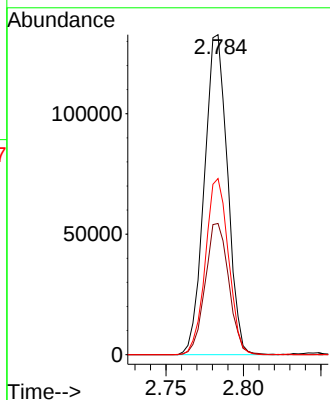
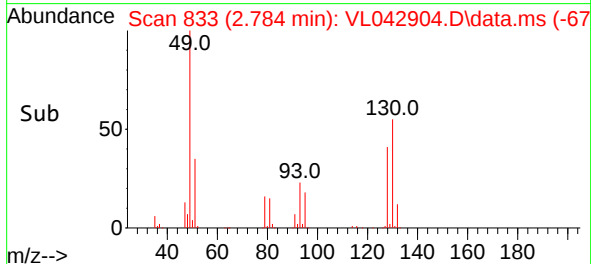
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 49 Resp: 138120
Ion Ratio Lower Upper
49 100
128 41.9 23.7 71.1
130 54.7 30.6 91.6

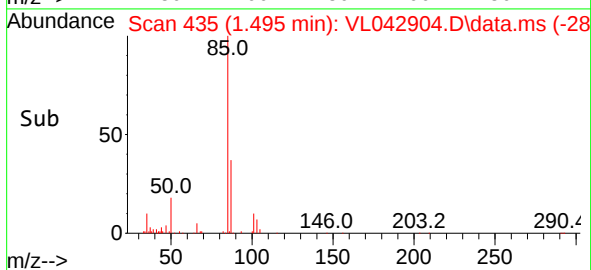
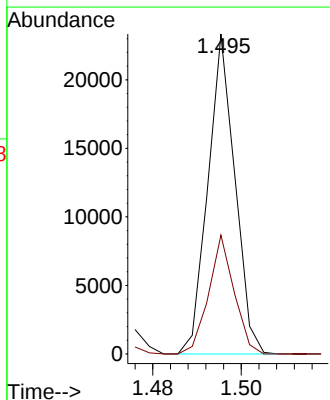
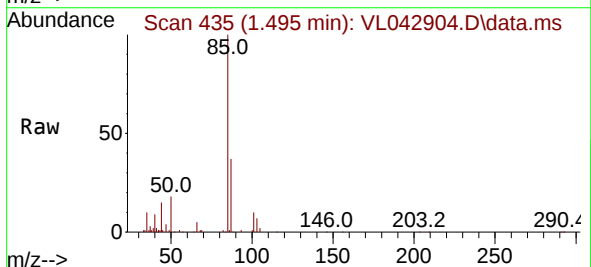
Manual Integrations
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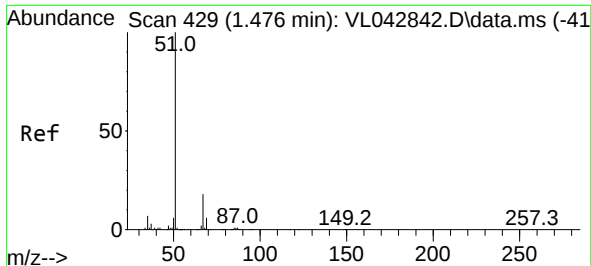
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 85 Resp: 9878
Ion Ratio Lower Upper
85 100
87 37.1 25.3 37.9





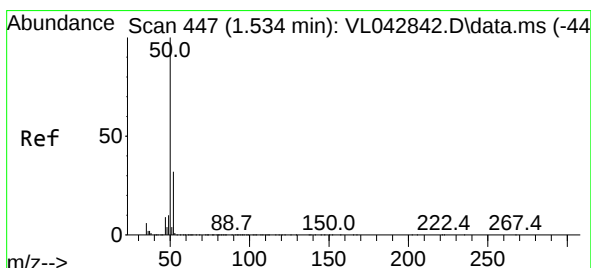
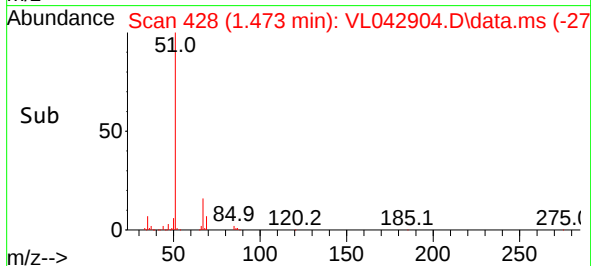
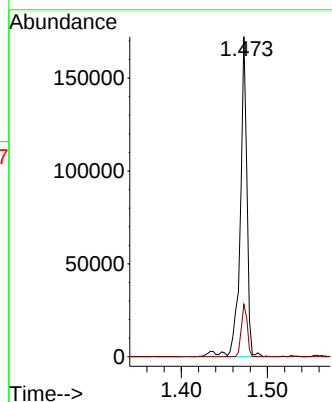
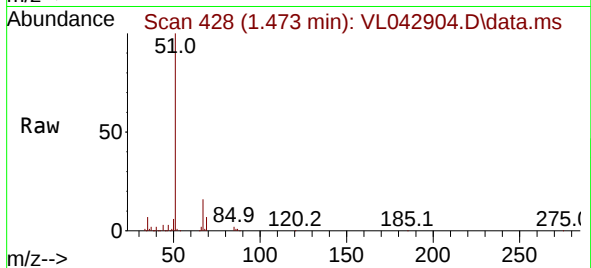
#3
Chlorodifluoromethane
Concen: 4.158 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 51 Resp: 93040
Ion Ratio Lower Upper
51 100
67 14.6 14.9 22.3

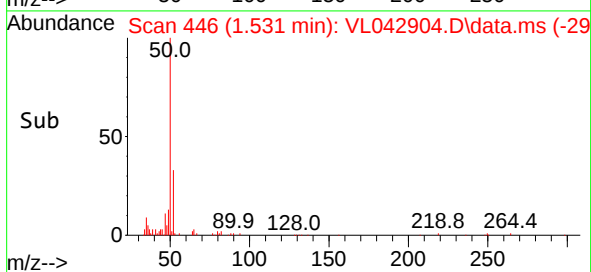
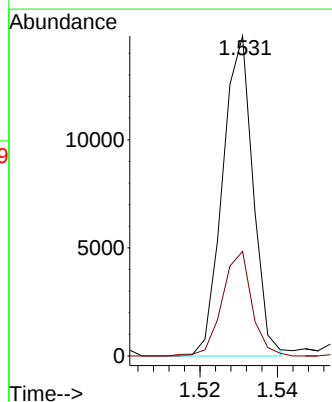
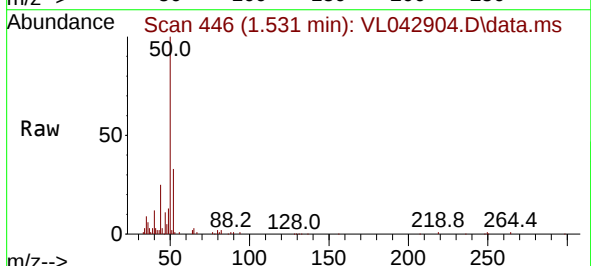
Manual Integrations
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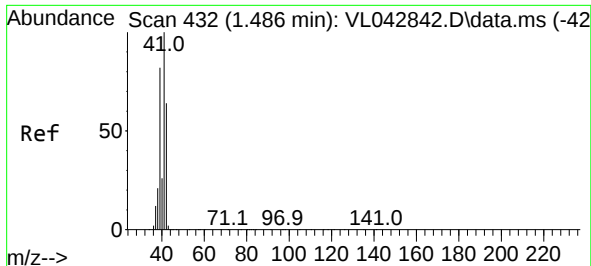
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.984 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

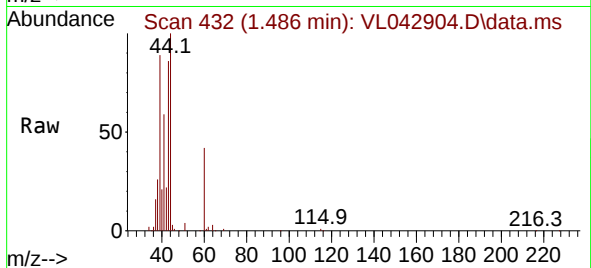
Tgt Ion: 50 Resp: 8036
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9





#9
 Propene
 Concen: 0.806 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.009 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

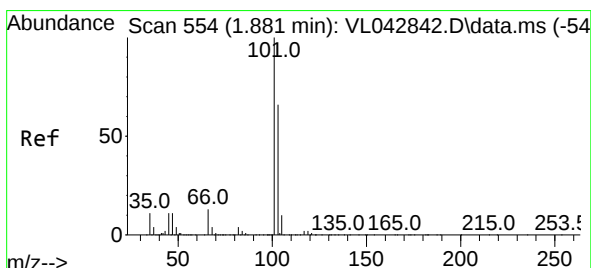
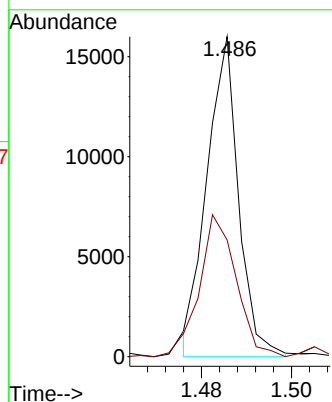
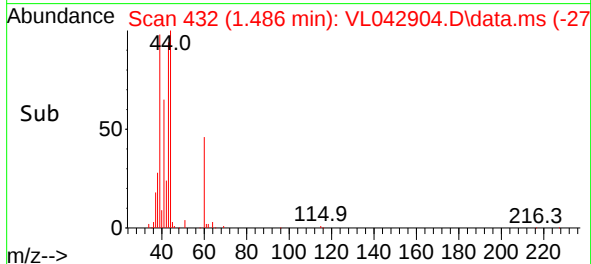
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2



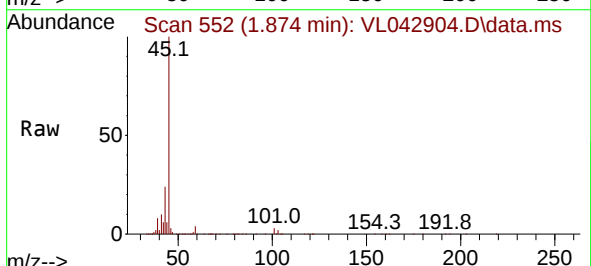
Tgt Ion: 41 Resp: 7792
 Ion Ratio Lower Upper
 41 100
 42 1913.3 53.0 79.4

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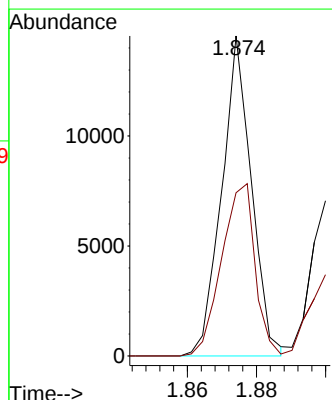
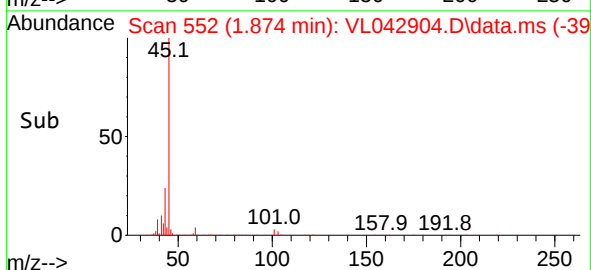
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

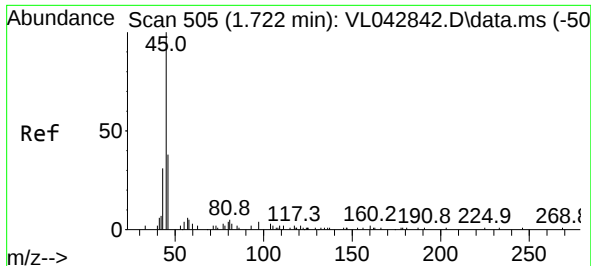


#11
 Trichlorofluoromethane
 Concen: 0.435 ppbv m
 RT: 1.874 min Scan# 552
 Delta R.T. 0.003 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15



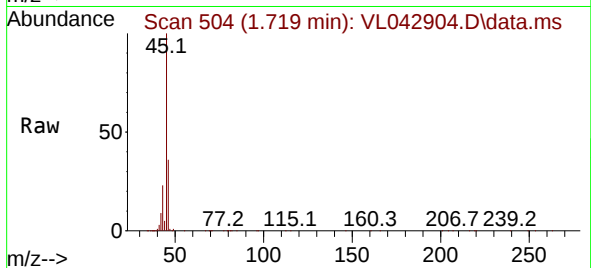
Tgt Ion:101 Resp: 8692
 Ion Ratio Lower Upper
 101 100
 103 51.0 52.5 78.7#





#13
Ethanol
Concen: 194.899 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

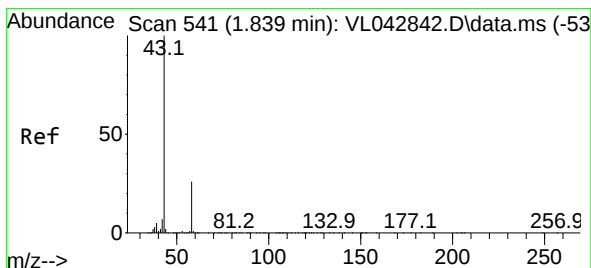
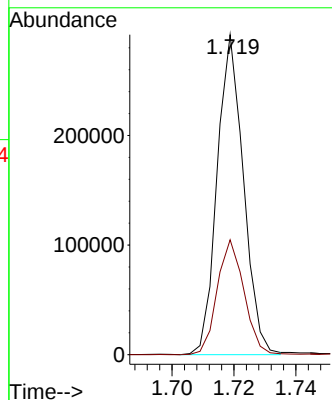
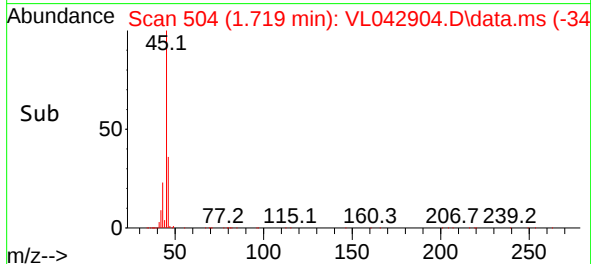
Instrument :
MSVOA_L
ClientSampleId :
IA-2



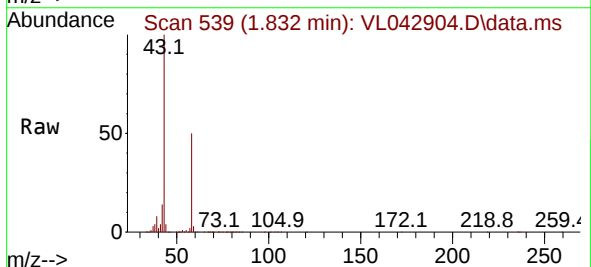
Tgt Ion: 45 Resp: 172209
Ion Ratio Lower Upper
45 100
46 37.3 17.5 69.9

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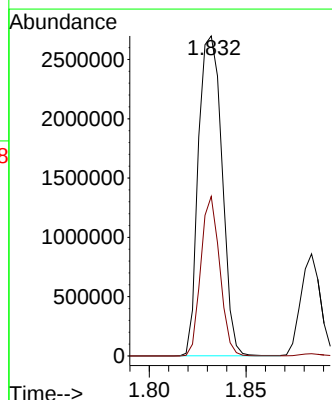
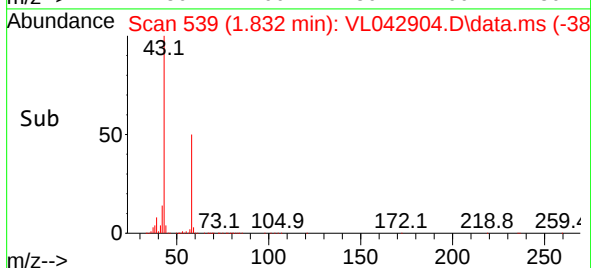
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

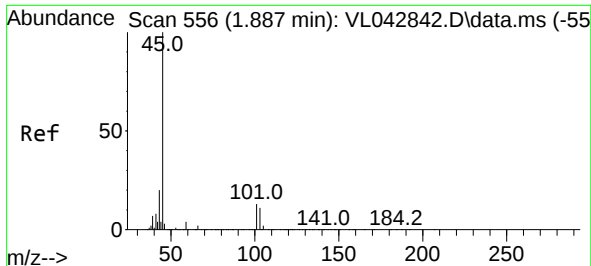


#15
Acetone
Concen: 125.100 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15



Tgt Ion: 43 Resp: 2285778
Ion Ratio Lower Upper
43 100
58 40.1 22.4 33.6#





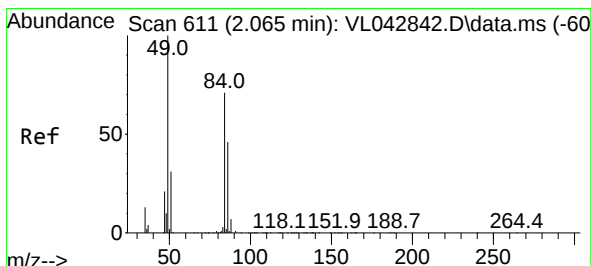
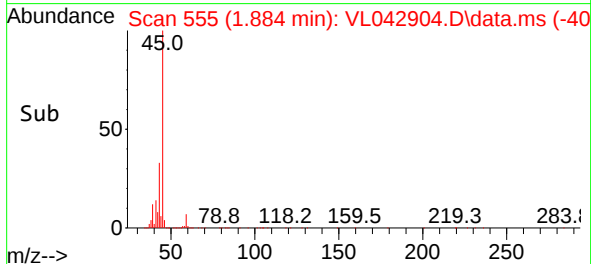
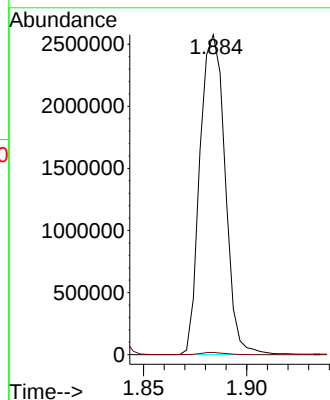
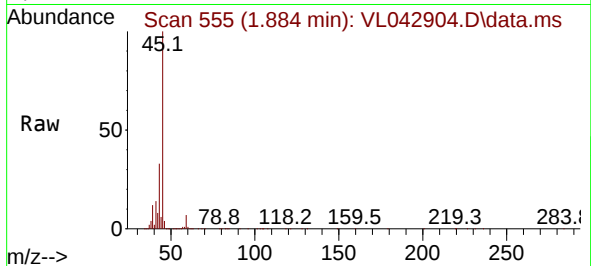
#19
Isopropyl Alcohol
Concen: 199.623 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 45 Resp: 217852
Ion Ratio Lower Upper
45 100
58 42.1 32.7 49.1

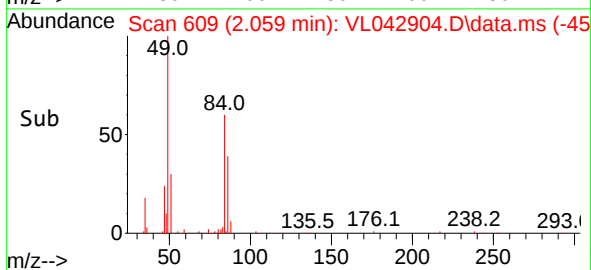
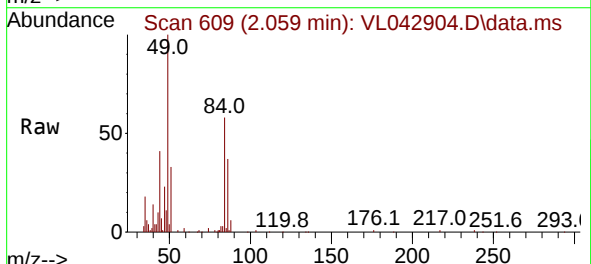
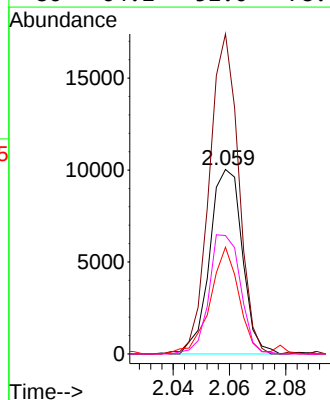
Manual Integrations
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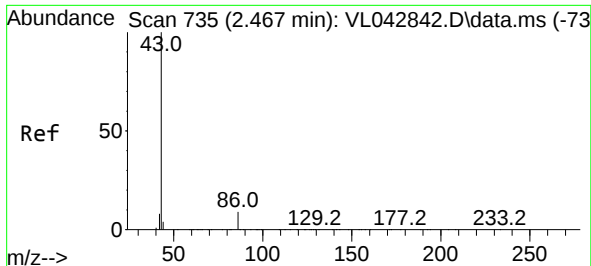
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 1.056 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

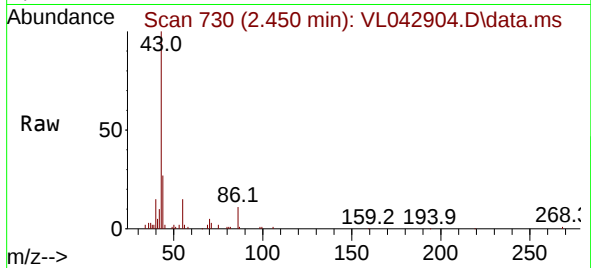
Tgt Ion: 84 Resp: 8085
Ion Ratio Lower Upper
84 100
49 173.4 112.3 168.5#
51 55.0 36.0 54.0#
86 64.2 52.0 78.0





#23
 Vinyl Acetate
 Concen: 0.747 ppbv m
 RT: 2.450 min Scan# 71
 Delta R.T. -0.004 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

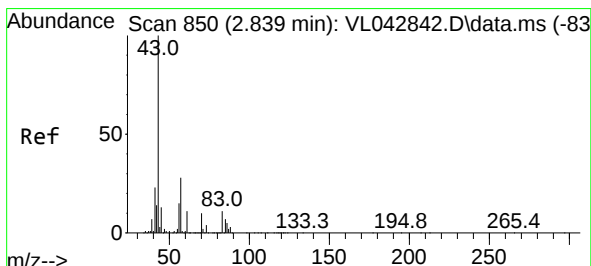
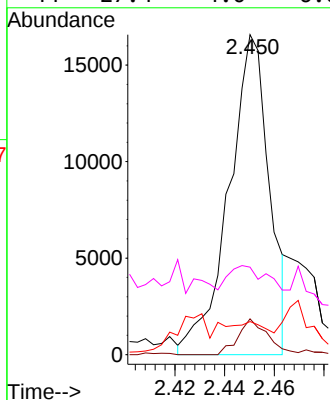
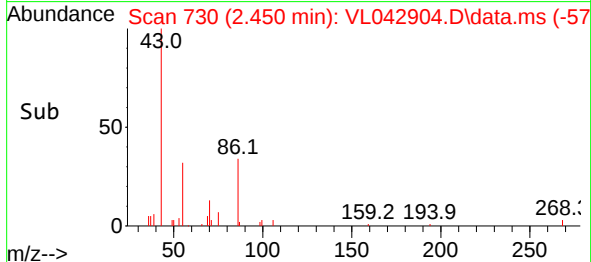
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2



Tgt Ion: 43	Resp: 18775
Ion Ratio	Lower Upper
43 100	
86 11.2	6.6 9.8
42 10.4	7.0 10.6
44 27.4	4.0 6.0

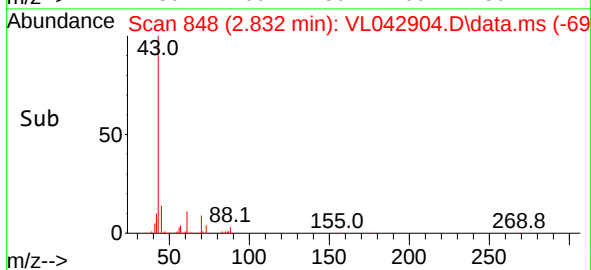
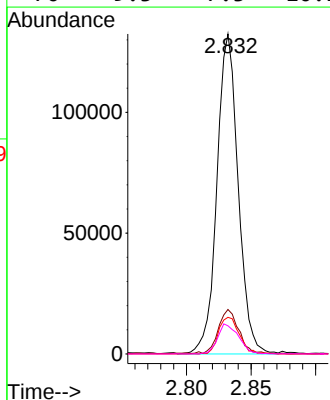
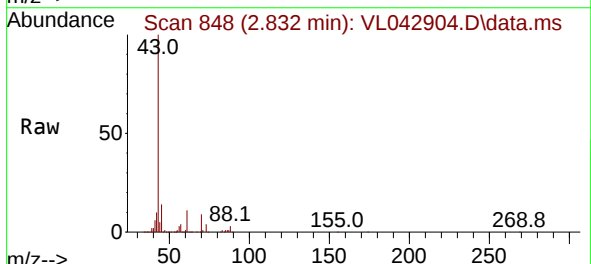
Manual Integrations
 APPROVED

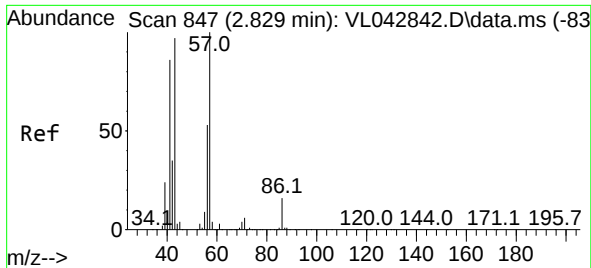
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#25
 Ethyl Acetate
 Concen: 3.427 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.006 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

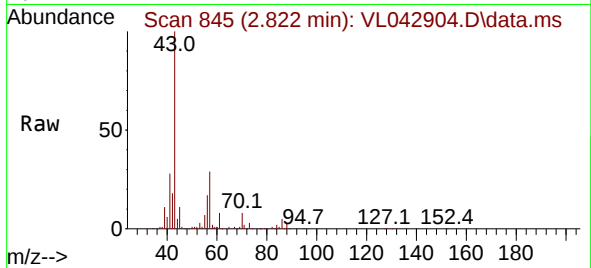
Tgt	Ion: 43	Resp:	151536
Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.1	12.1#
61	11.3	7.4	11.2#
70	9.3	7.3	10.9





#26
Hexane
Concen: 0.903 ppbv m
RT: 2.822 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

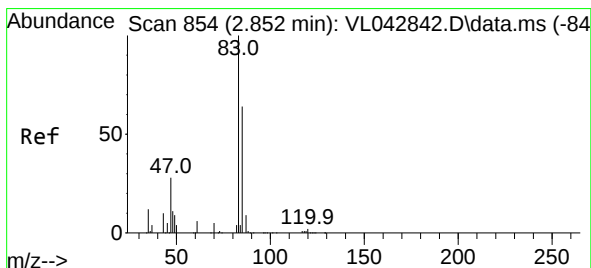
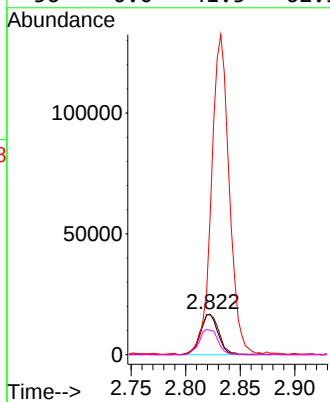
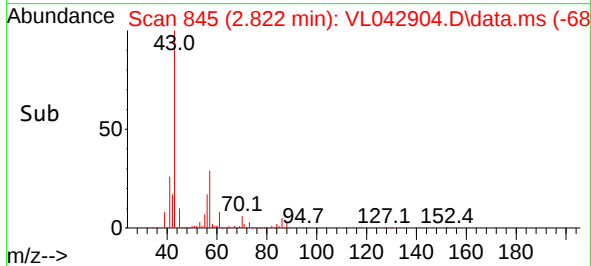
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 57 Resp: 1842
Ion Ratio Lower Upper
57 100
41 0.0 68.6 103.0
43 0.0 168.5 252.7
56 0.0 41.5 62.3

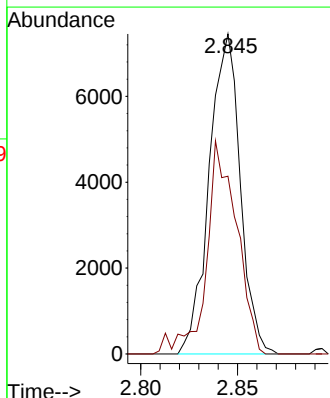
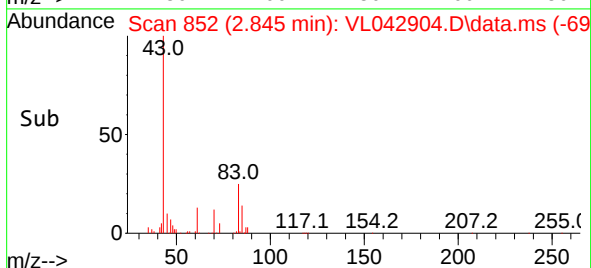
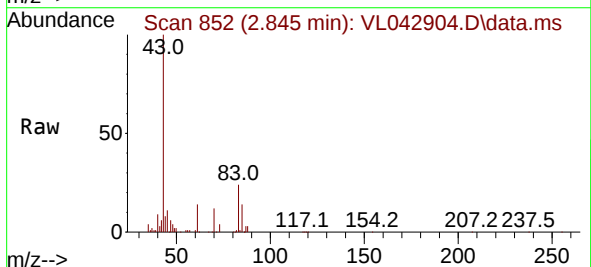
Manual Integrations
APPROVED

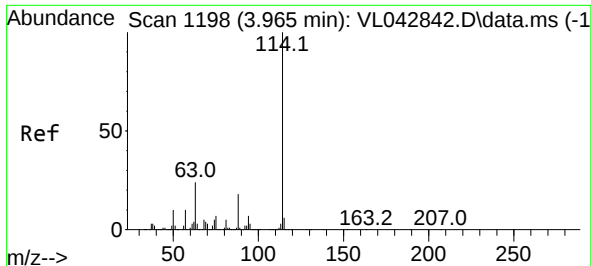
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 0.285 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 83 Resp: 8304
Ion Ratio Lower Upper
83 100
85 55.5 51.1 76.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.009 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

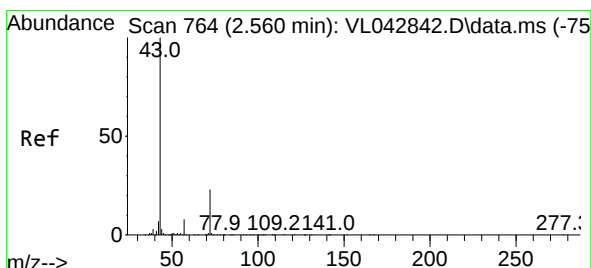
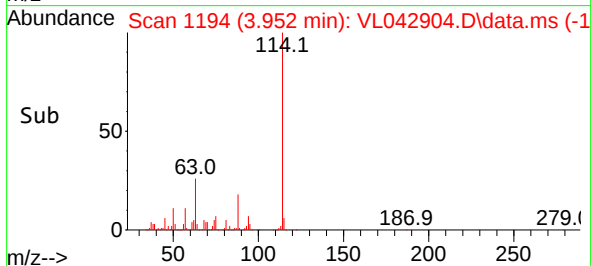
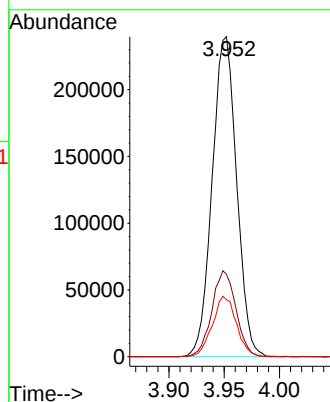
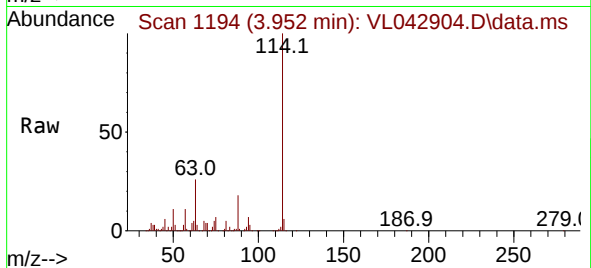
IA-2

Tgt Ion:	114	Resp:	36855
Ion Ratio	Lower	Upper	
114	100		
63	26.4	19.7	29.5
88	18.5	14.4	21.6

Manual Integrations

APPROVED

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



#34

2-Butanone

Concen: 1.048 ppbv

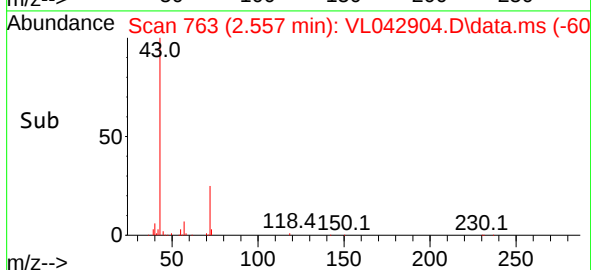
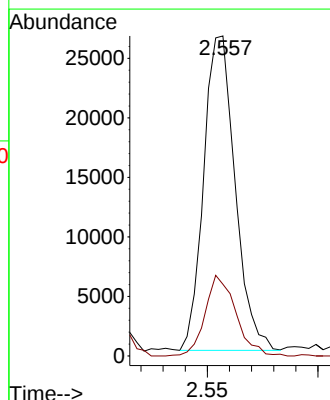
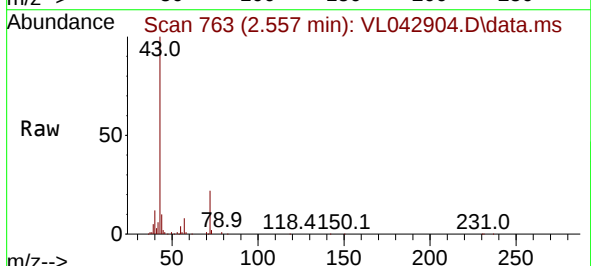
RT: 2.557 min Scan# 763

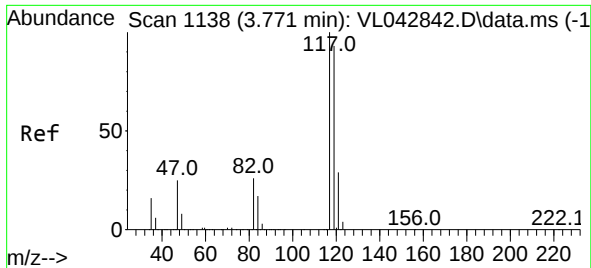
Delta R.T. 0.009 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

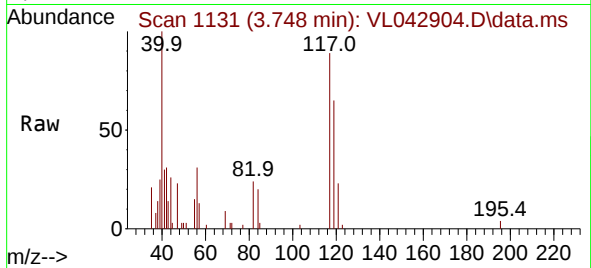
Tgt Ion:	43	Resp:	26086
Ion Ratio	Lower	Upper	
43	100		
72	25.2	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.179 ppbv m
RT: 3.748 min Scan# 1138
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

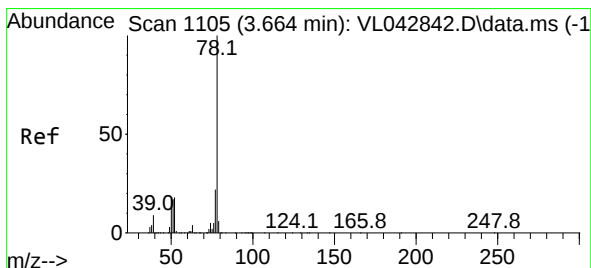
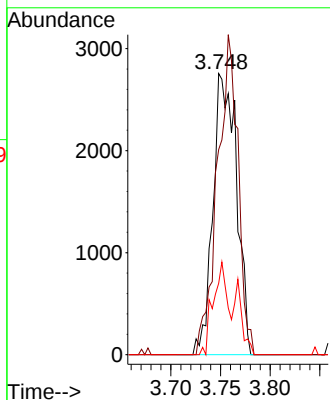
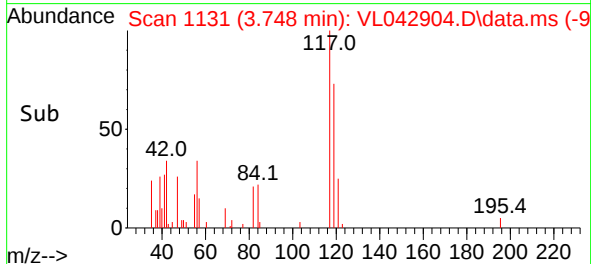
Instrument :
MSVOA_L
ClientSampleId :
IA-2



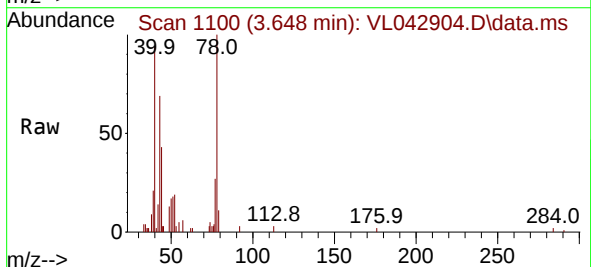
Tgt Ion: 117 Resp: 455
Ion Ratio Lower Upper
117 100
119 73.0 74.7 112.1
121 25.4 23.2 34.8

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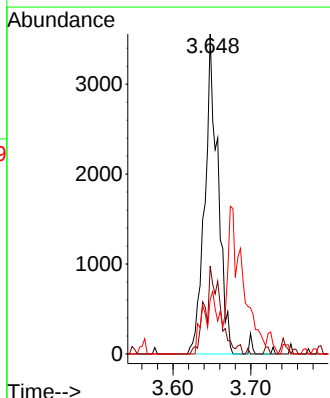
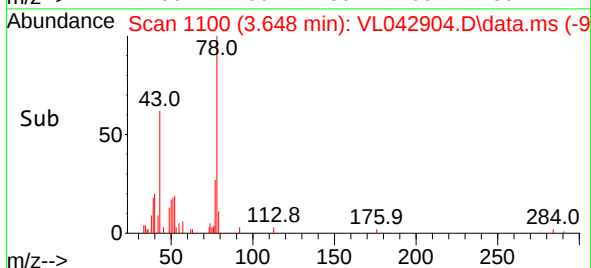
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

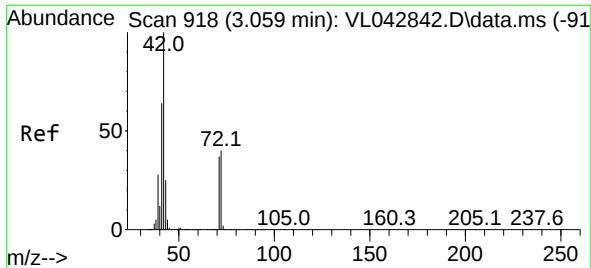


#36
Benzene
Concen: 0.120 ppbv m
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15



Tgt Ion: 78 Resp: 4228
Ion Ratio Lower Upper
78 100
77 27.5 17.7 26.5
50 17.1 13.9 20.9





#41

Tetrahydrofuran

Concen: 0.181 ppbv

RT: 3.059 min Scan# 918

Delta R.T. 0.016 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

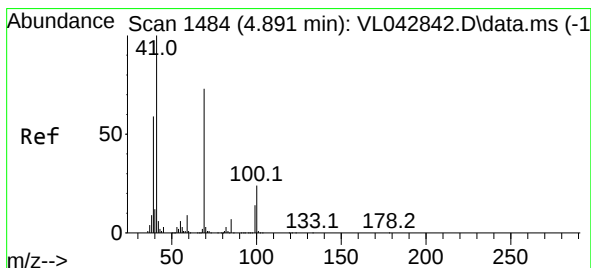
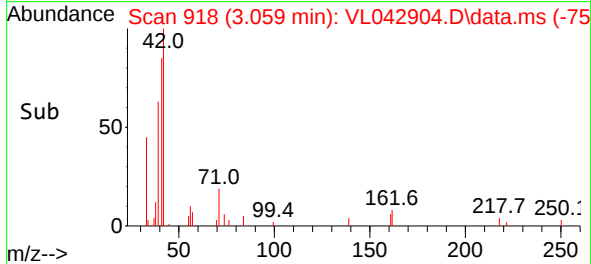
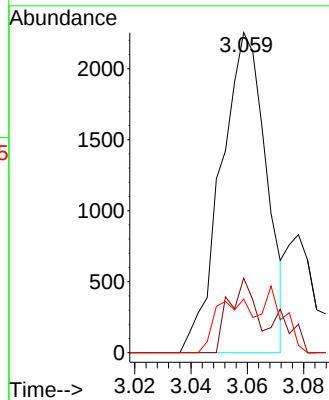
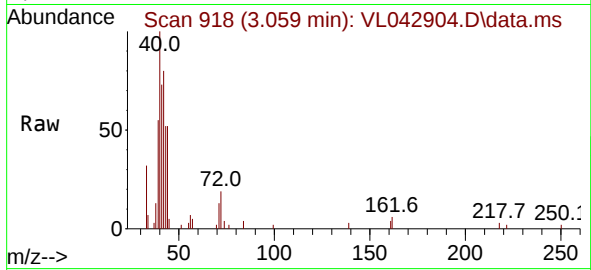
IA-2

Tgt Ion:	42	Resp:	2514
Ion Ratio	Lower	Upper	
42	100		
72	19.8	32.6	48.8
71	0.0	30.0	45.0

Manual Integrations

APPROVED

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



#43

Methyl Methacrylate

Concen: 0.285 ppbv m

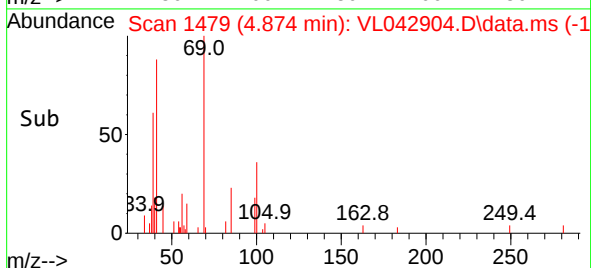
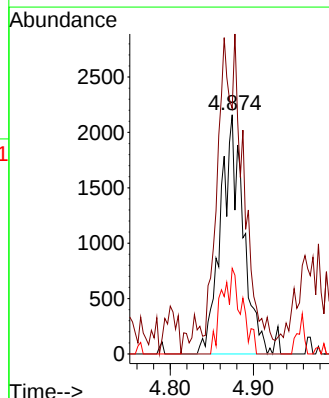
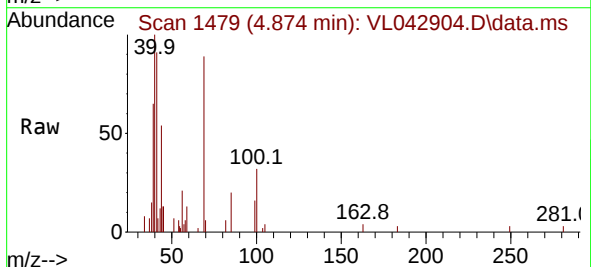
RT: 4.874 min Scan# 1479

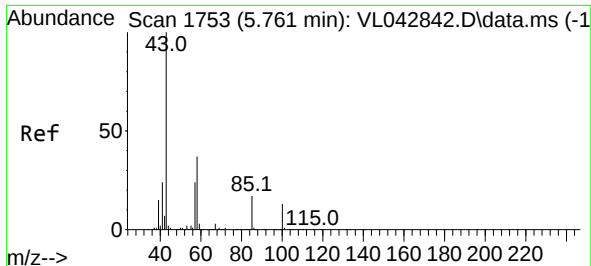
Delta R.T. 0.016 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

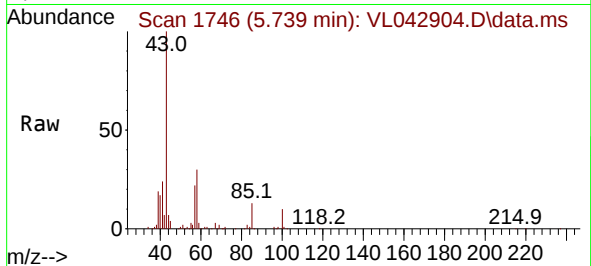
Tgt Ion:	69	Resp:	4146
Ion Ratio	Lower	Upper	
69	100		
41	0.0	114.6	172.0
100	31.1	30.2	45.4





#50
4-Methyl-2-Pentanone
Concen: 2.170 ppbv m
RT: 5.739 min Scan# 1753
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

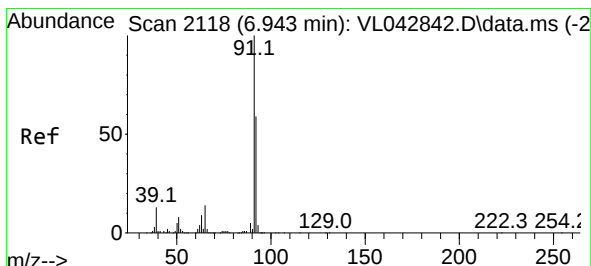
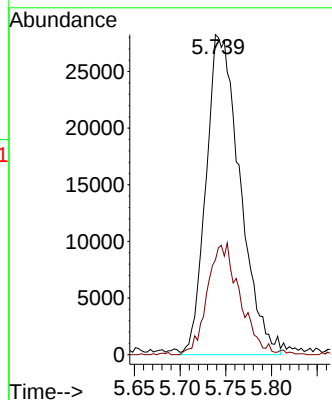
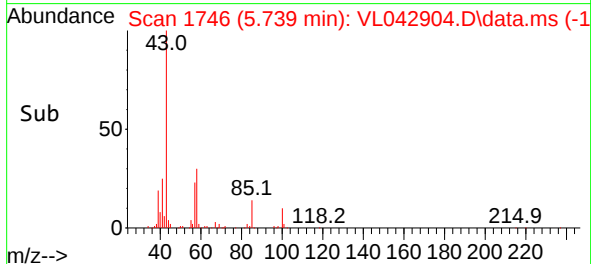
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 43 Resp: 72979
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8

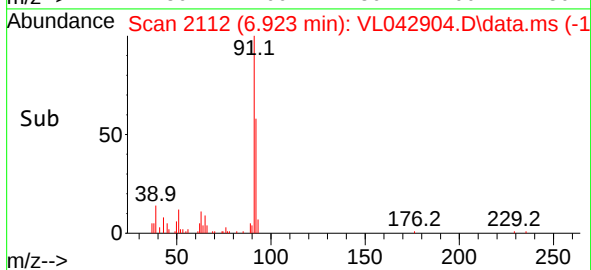
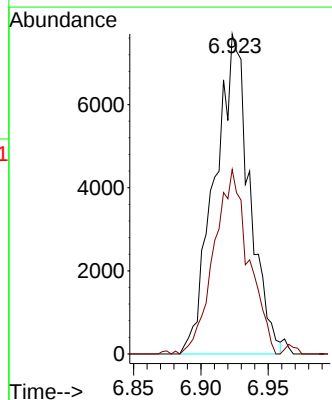
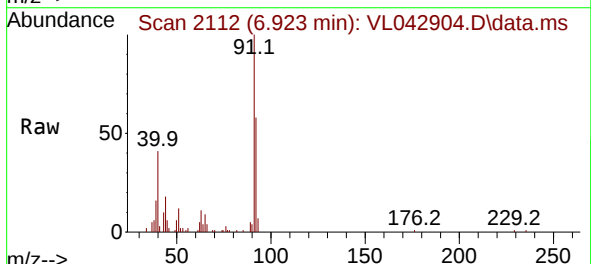
Manual Integrations
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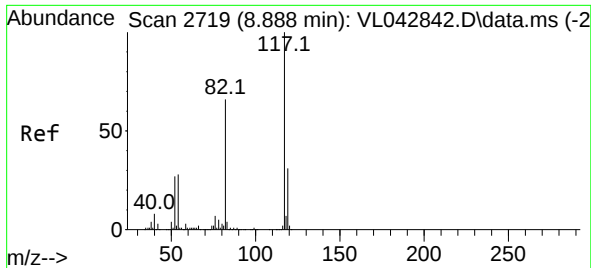
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#53
Toluene
Concen: 0.331 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 13909
Ion Ratio Lower Upper
91 100
92 58.3 47.8 71.6





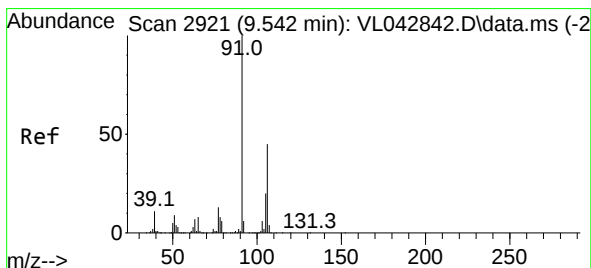
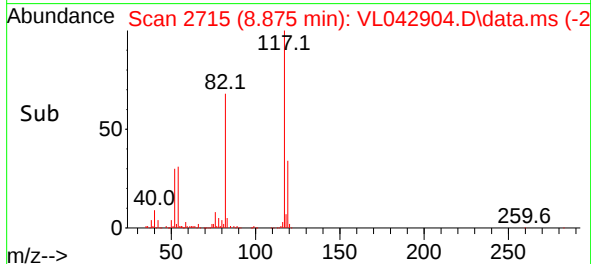
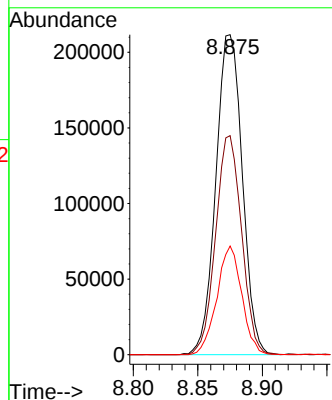
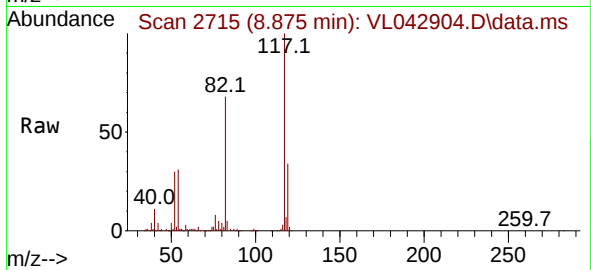
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:117 Resp: 302210
Ion Ratio Lower Upper
117 100
82 67.0 54.6 81.8
119 32.0 25.9 38.9

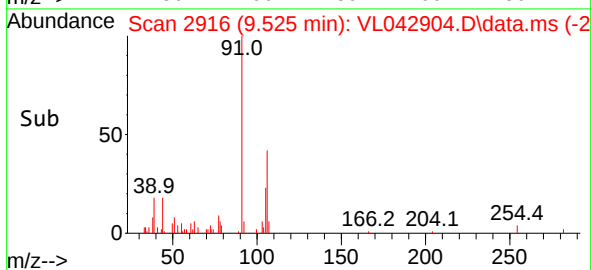
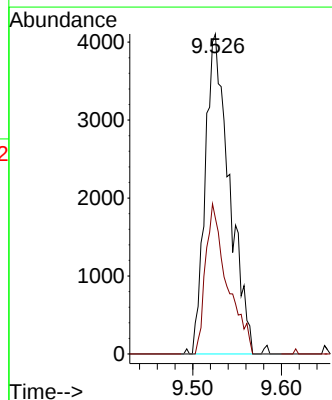
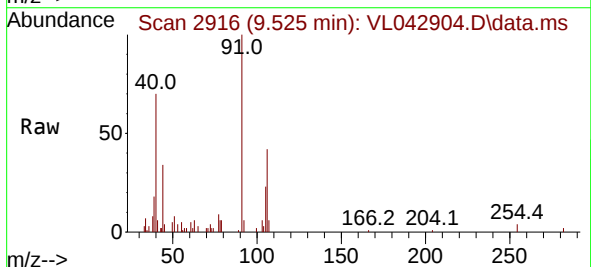
Manual Integrations
APPROVED

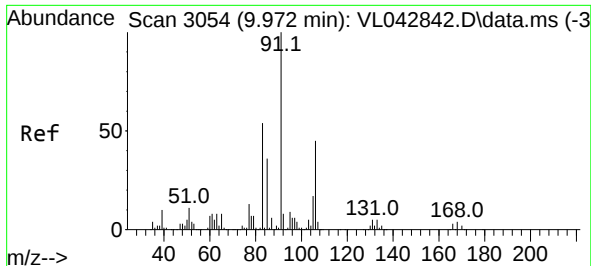
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#59
m/p-Xylene
Concen: 0.186 ppbv m
RT: 9.525 min Scan# 2916
Delta R.T. -0.013 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

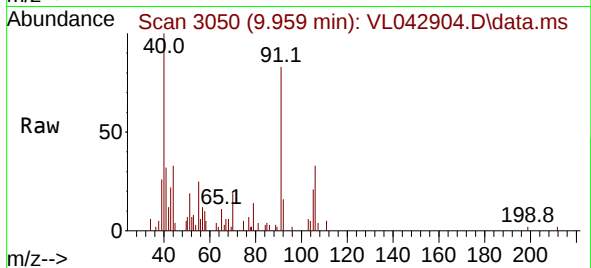
Tgt Ion: 91 Resp: 7779
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

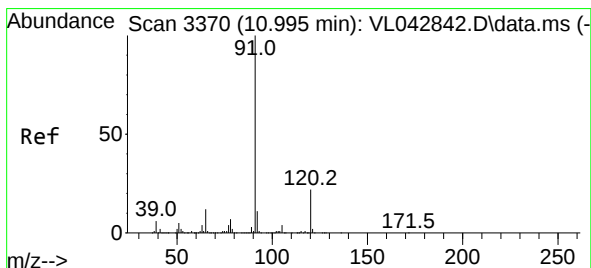
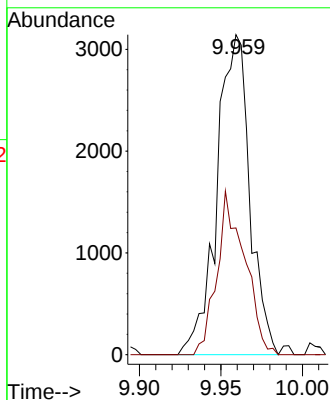
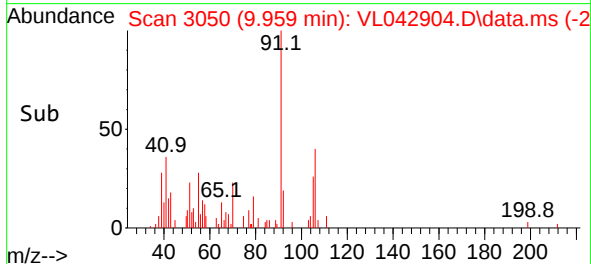
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 91 Resp: 4398
Ion Ratio Lower Upper
91 100
106 43.3 21.8 65.4

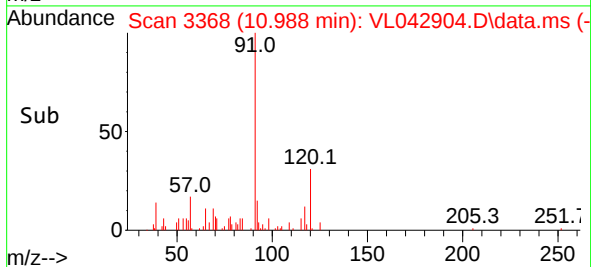
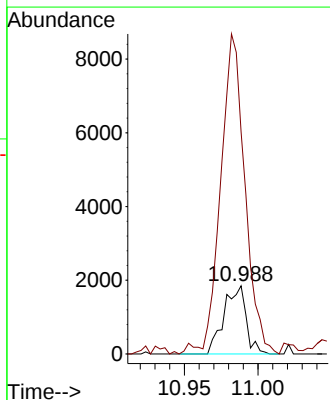
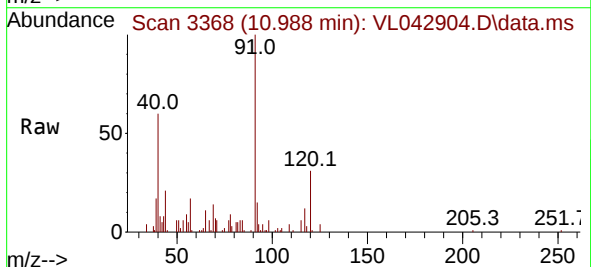
Manual Integrations
APPROVED

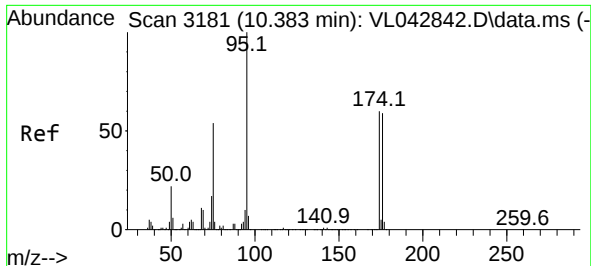
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#64
n-propylbenzene
Concen: 0.123 ppbv m
RT: 10.988 min Scan# 3368
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:120 Resp: 1936
Ion Ratio Lower Upper
120 100
91 0.0 375.8 563.6#





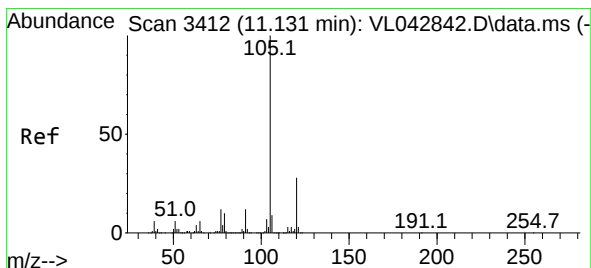
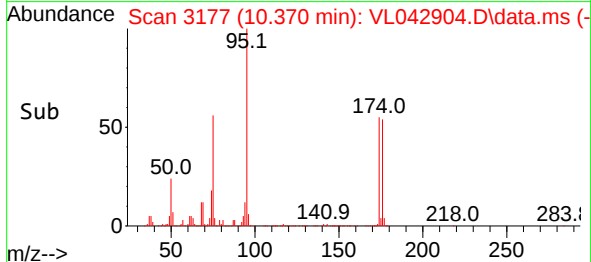
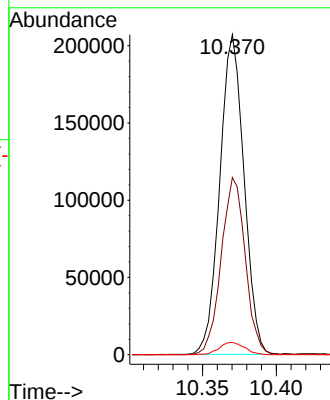
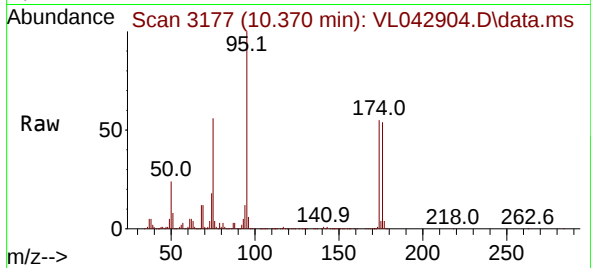
#68
1-Bromo-4-Fluorobenzene
Concen: 10.432 ppbv
RT: 10.370 min Scan# 3181
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 95 Resp: 236452
Ion Ratio Lower Upper
95 100
174 55.3 48.4 72.6
175 4.0 3.8 5.8

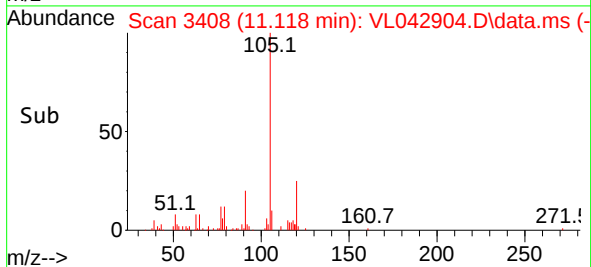
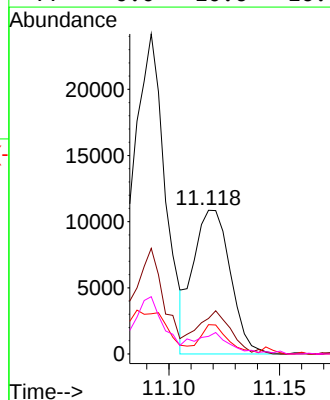
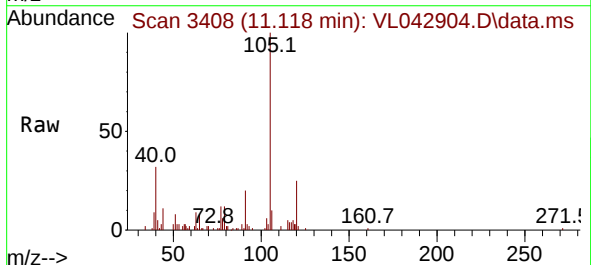
Manual Integrations
APPROVED

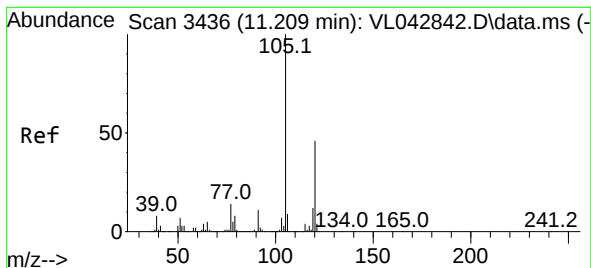
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#72
4-Ethyltoluene
Concen: 0.249 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 12697
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 14.1 9.8 14.6
77 0.0 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.320 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

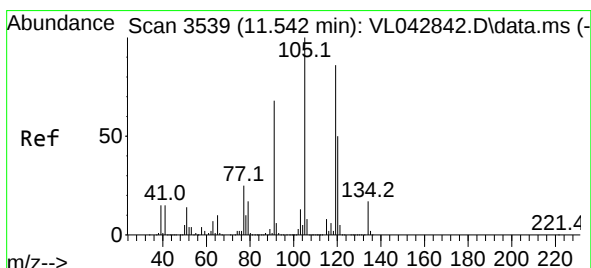
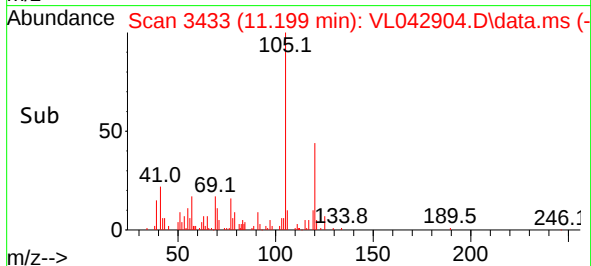
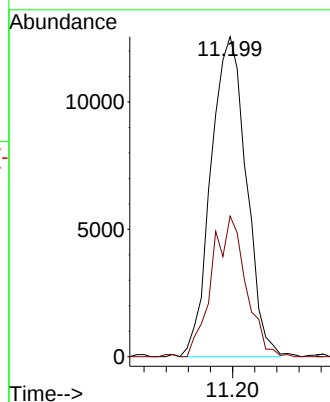
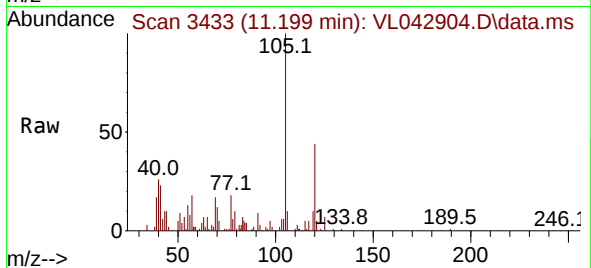
IA-2

Tgt Ion:105 Resp: 1389
 Ion Ratio Lower Upper
 105 100
 120 44.0 36.6 54.8

Manual Integrations

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



#74

1,2,4-Trimethylbenzene

Concen: 1.133 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 53900
 Ion Ratio Lower Upper
 105 100
 120 42.0 39.8 59.6
 91 11.6 54.2 81.4#
 77 15.5 19.8 29.6#

