

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042908.D
 Acq On : 08 Sep 2025 17:45
 Operator : SY/MD
 Sample : Q3052-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Sep 09 00:58:28 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	2.784	49	141872	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	356641	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.879	117	304804	10.000	ppbv	0.00

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 Kadoda

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	229743	10.050	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

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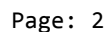
Target Compounds

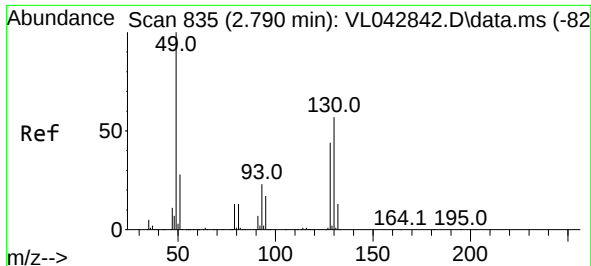
						Qvalue
2) Dichlorodifluoromethane	1.496	85	10936	0.526	ppbv	94
3) Chlorodifluoromethane	1.473	51	56721	2.468	ppbv #	90
4) Chloromethane	1.531	50	35993	4.290	ppbv	99
5) Vinyl Chloride	1.577	62	357m	0.043	ppbv	
7) Chloroethane	1.703	64	587	0.182	ppbv #	39
9) Propene	1.483	41	15520	1.564	ppbv	97
11) Trichlorofluoromethane	1.878	101	5506	0.268	ppbv	87
13) Ethanol	1.729	45	2713705	2990.172	ppbv	92
15) Acetone	1.836	43	269167	14.342	ppbv	95
17) tert-Butyl alcohol	2.046	59	9198	0.413	ppbv	100
19) Isopropyl Alcohol	1.888	45	754919	67.348	ppbv #	36
20) Methylene Chloride	2.062	84	14219	1.809	ppbv	93
23) Vinyl Acetate	2.451	43	54142m	2.098	ppbv	
25) Ethyl Acetate	2.836	43	114034	2.511	ppbv #	94
26) Hexane	2.823	57	20454m	0.976	ppbv	
29) Chloroform	2.846	83	24170	0.807	ppbv	97
34) 2-Butanone	2.558	43	39587	1.644	ppbv	99
35) Carbon Tetrachloride	3.765	117	3946	0.160	ppbv	93
36) Benzene	3.658	78	12361	0.362	ppbv	99
41) Tetrahydrofuran	3.062	42	3346	0.249	ppbv #	77
44) 2,2,4-Trimethylpentane	4.645	57	10459m	0.180	ppbv	
52) Tetrachloroethene	8.228	164	1262131	102.158	ppbv	94
53) Toluene	6.937	91	20494m	0.505	ppbv	
59) m/p-Xylene	9.529	91	11286m	0.268	ppbv	
60) o-Xylene	9.960	91	4961	0.117	ppbv	97
74) 1,2,4-Trimethylbenzene	11.533	105	5497	0.115	ppbv #	64

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

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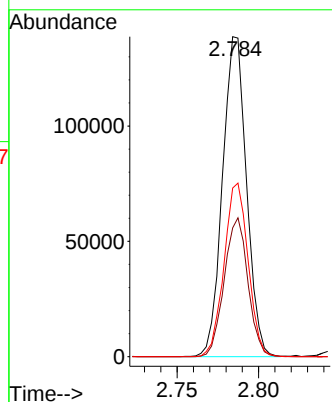
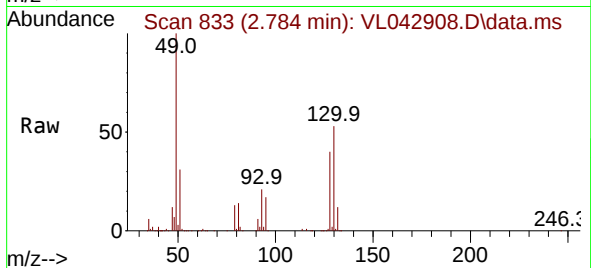
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 141872
Ion Ratio Lower Upper
49 100
128 42.9 23.7 71.1
130 54.3 30.6 91.6

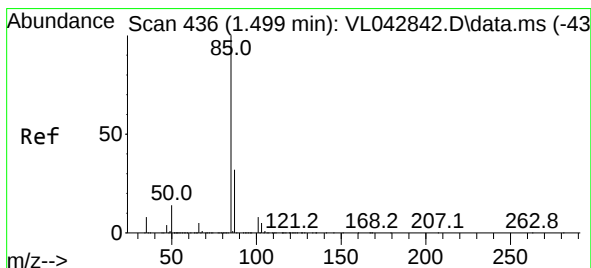
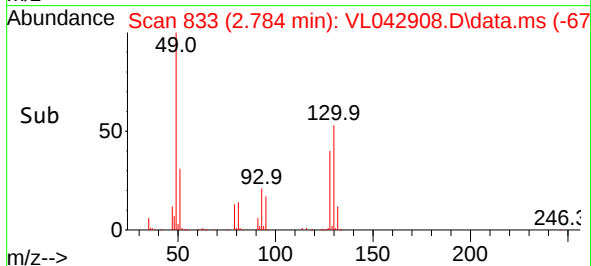
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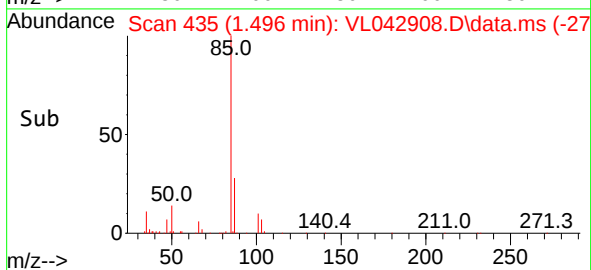
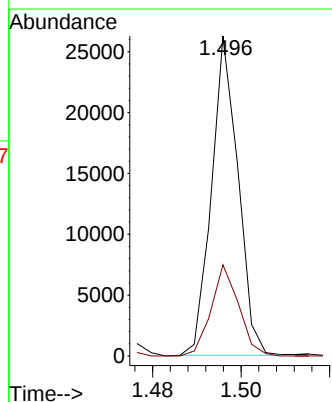
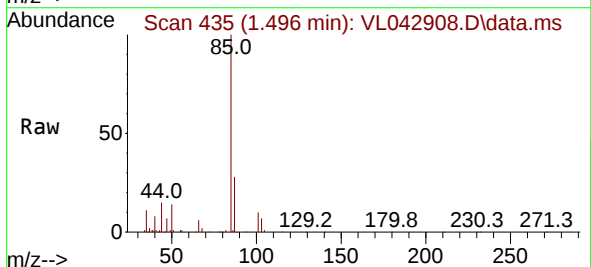
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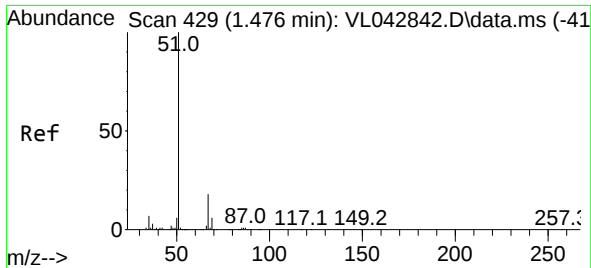
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#2
Dichlorodifluoromethane
Concen: 0.526 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

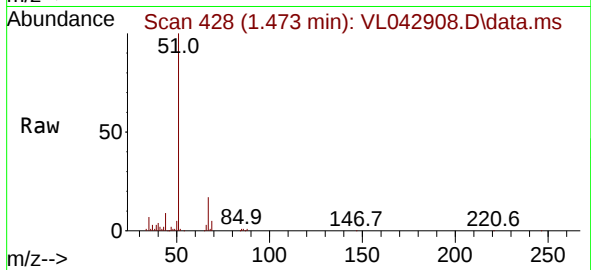
Tgt Ion: 85 Resp: 10936
Ion Ratio Lower Upper
85 100
87 28.5 25.3 37.9





#3
Chlorodifluoromethane
Concen: 2.468 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

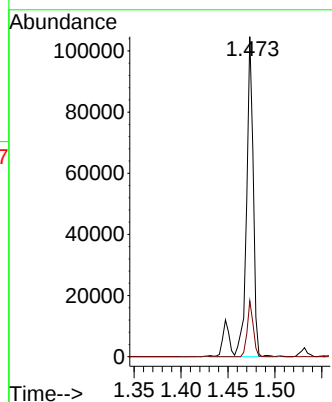
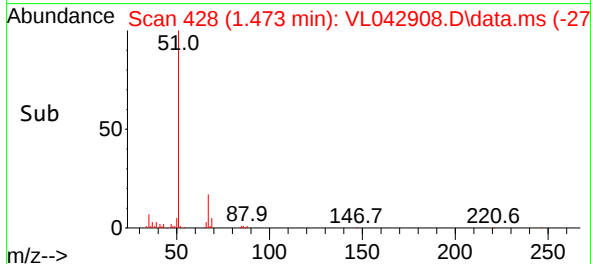
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 5672
Ion Ratio Lower Upper
51 100
67 14.2 14.9 22.3

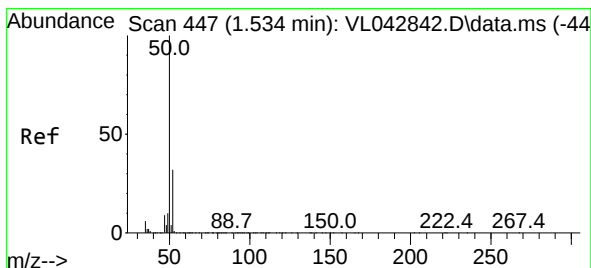
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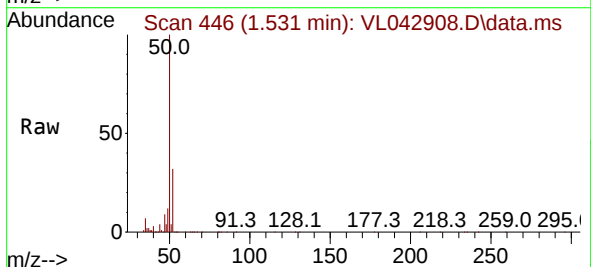


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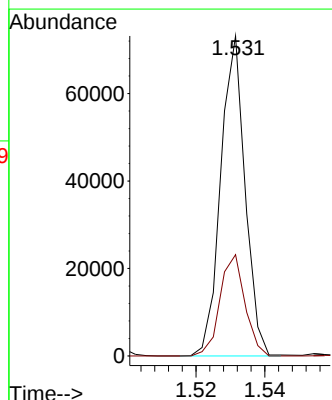
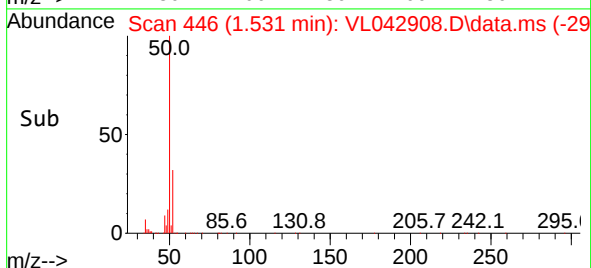
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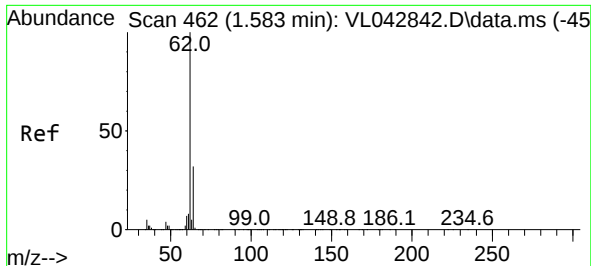


#4
Chloromethane
Concen: 4.290 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



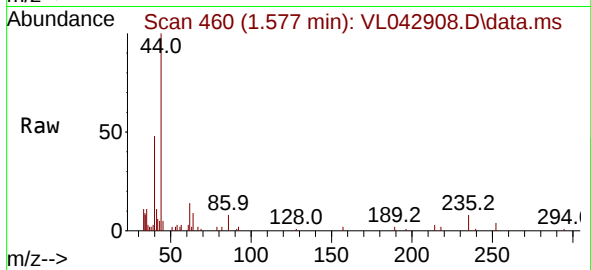
Tgt Ion: 50 Resp: 35993
Ion Ratio Lower Upper
50 100
52 31.7 25.9 38.9





#5
 Vinyl Chloride
 Concen: 0.043 ppbv m
 RT: 1.577 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: VL042908.D
 Acq: 08 Sep 2025 17:45

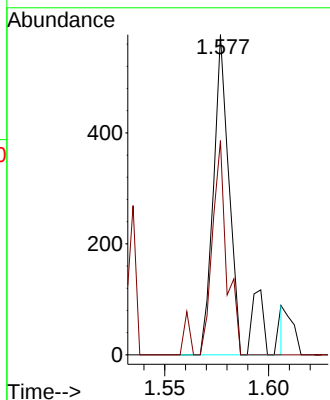
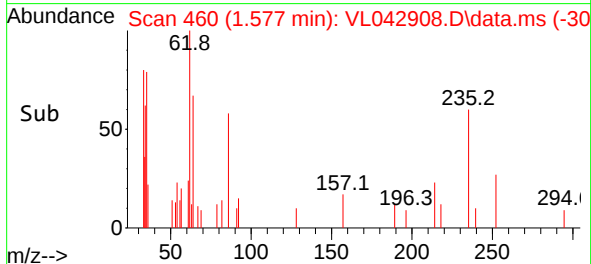
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 62 Resp: 35
 Ion Ratio Lower Upper
 62 100
 64 66.9 25.4 38.2

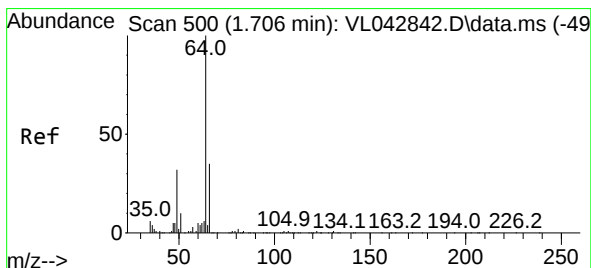
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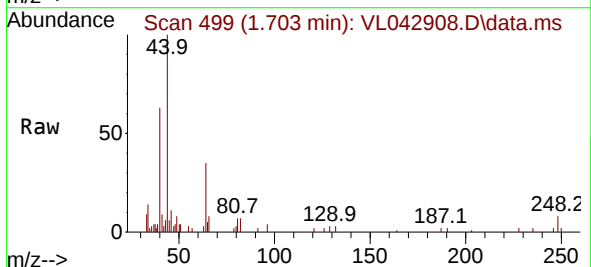


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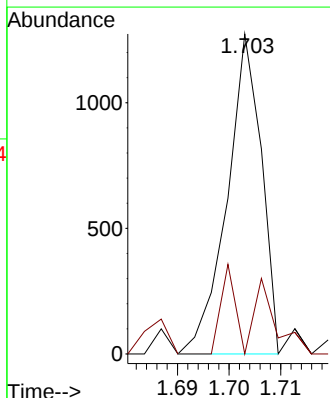
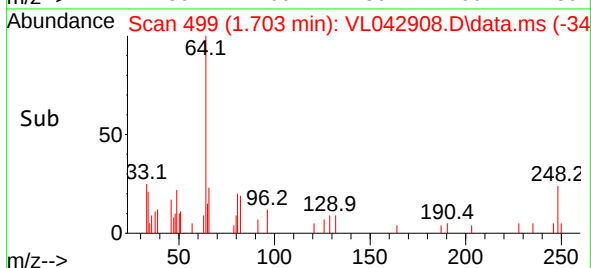
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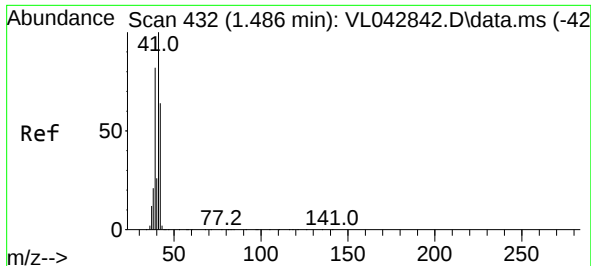


#7
 Chloroethane
 Concen: 0.182 ppbv
 RT: 1.703 min Scan# 499
 Delta R.T. 0.003 min
 Lab File: VL042908.D
 Acq: 08 Sep 2025 17:45



Tgt Ion: 64 Resp: 587
 Ion Ratio Lower Upper
 64 100
 66 0.0 28.6 42.8





#9

Propene

Concen: 1.564 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

Instrument :

MSVOA_L

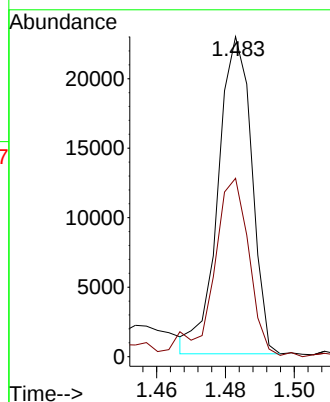
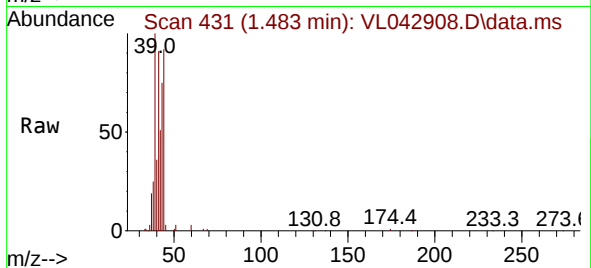
ClientSampleId :

IA1

Tgt Ion: 41 Resp: 15520
 Ion Ratio Lower Upper
 41 100
 42 68.6 53.0 79.4

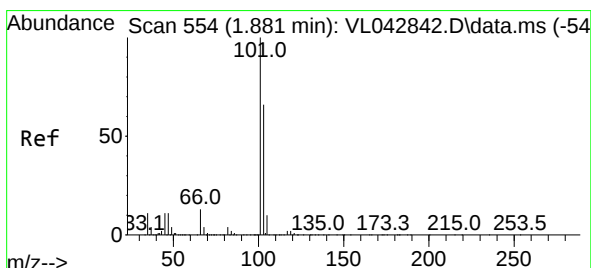
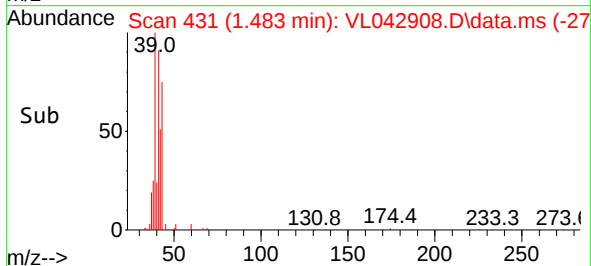
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#11

Trichlorofluoromethane

Concen: 0.268 ppbv

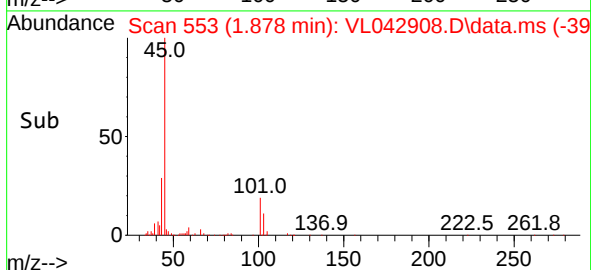
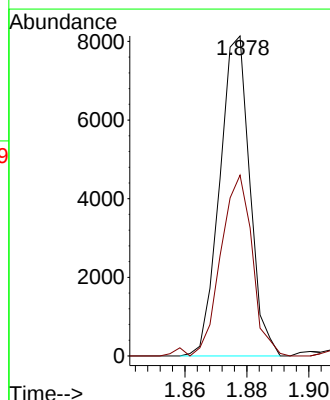
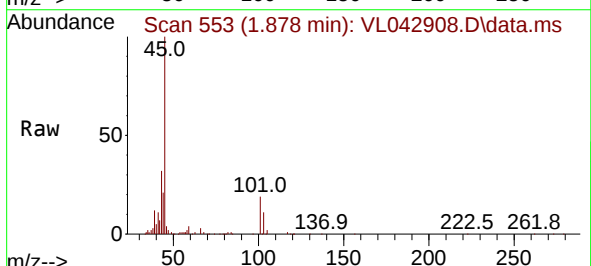
RT: 1.878 min Scan# 553

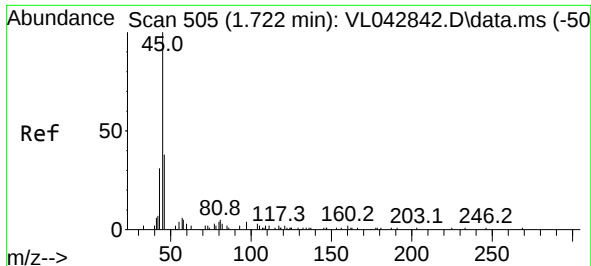
Delta R.T. 0.007 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

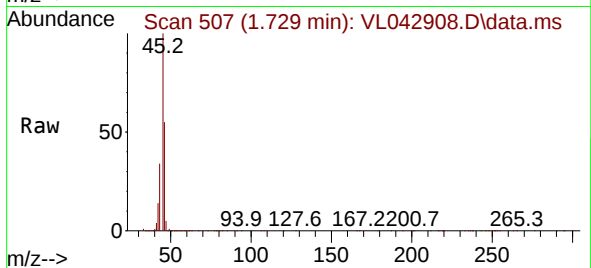
Tgt Ion:101 Resp: 5506
 Ion Ratio Lower Upper
 101 100
 103 55.7 52.5 78.7





#13
Ethanol
Concen: 2990.172 ppbv
RT: 1.729 min Scan# 50
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

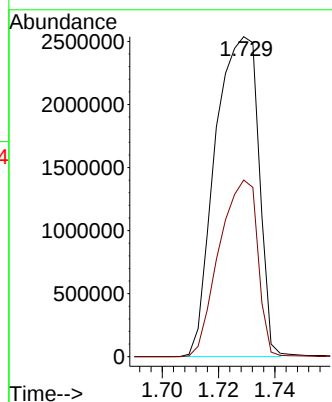
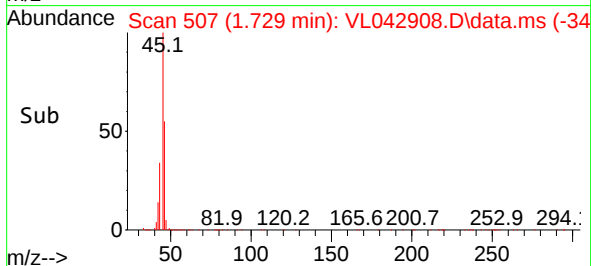
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 271370
Ion Ratio Lower Upper
45 100
46 49.2 17.5 69.9

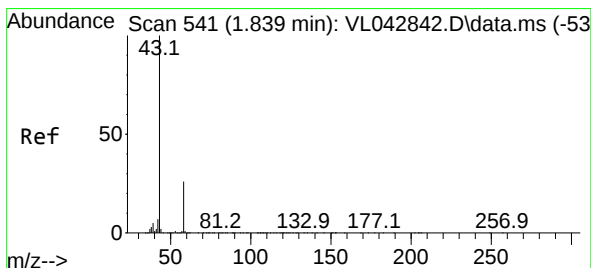
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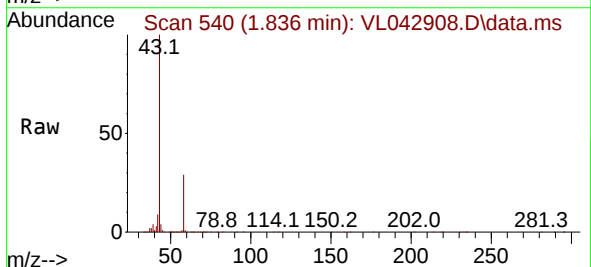


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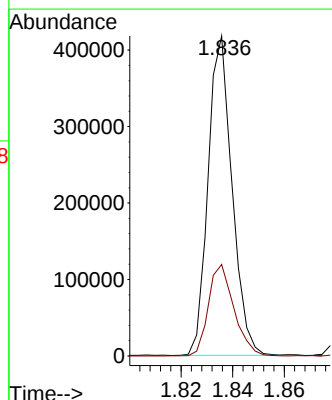
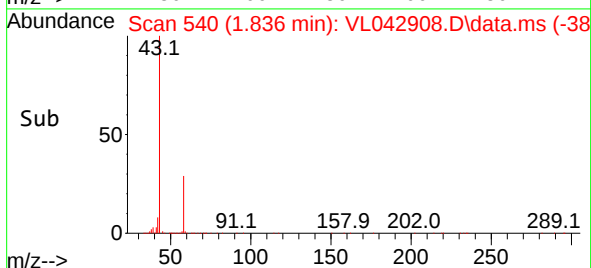
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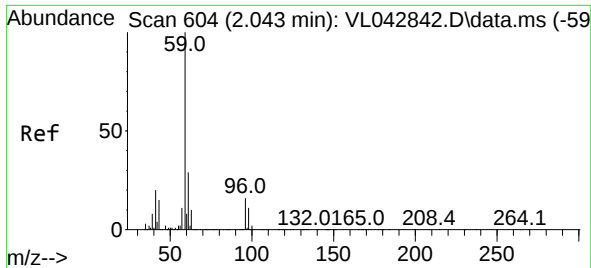


#15
Acetone
Concen: 14.342 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



Tgt Ion: 43 Resp: 269167
Ion Ratio Lower Upper
43 100
58 30.6 22.4 33.6





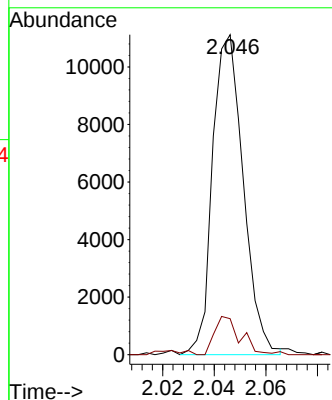
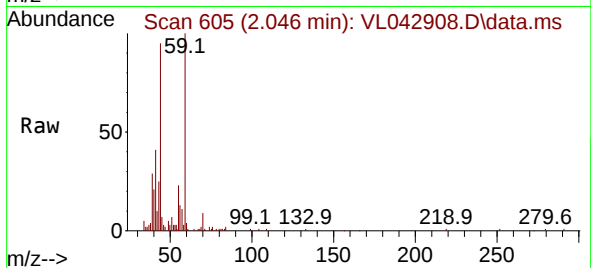
#17
tert-Butyl alcohol
Concen: 0.413 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 59 Resp: 9198
Ion Ratio Lower Upper
59 100
57 11.4 9.0 13.4

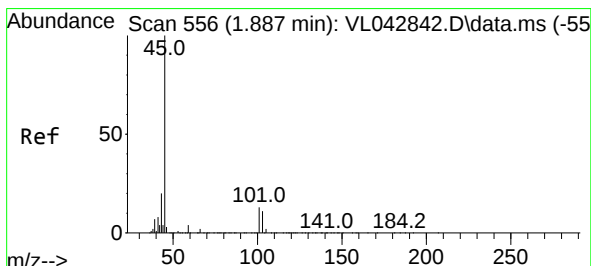
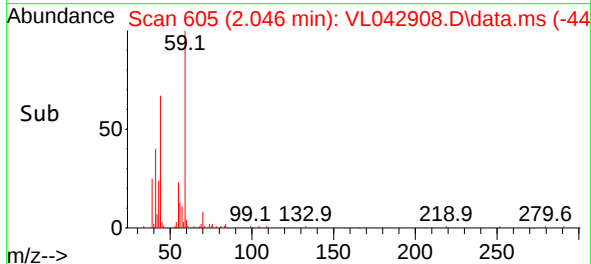
Manual Integrations
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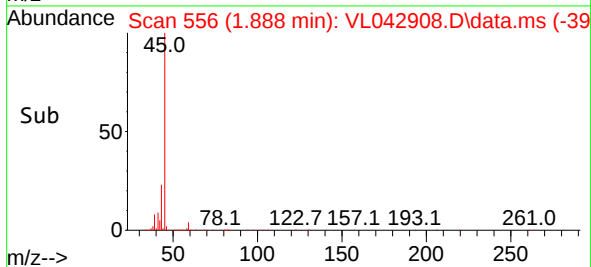
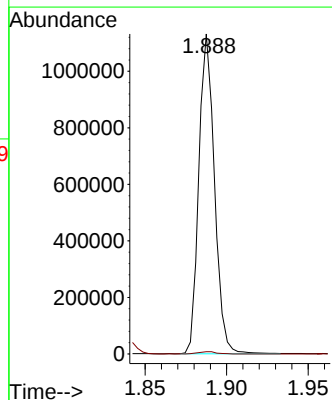
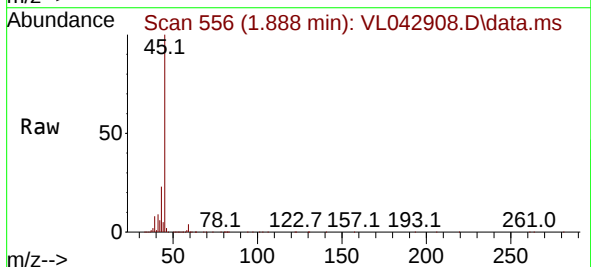
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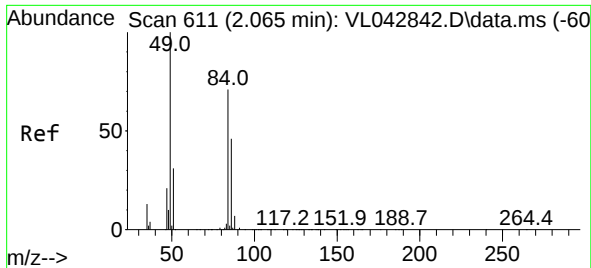
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#19
Isopropyl Alcohol
Concen: 67.348 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

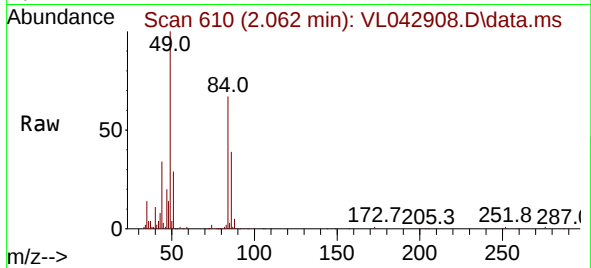
Tgt Ion: 45 Resp: 754919
Ion Ratio Lower Upper
45 100
58 0.9 32.7 49.1#





#20
Methylene Chloride
Concen: 1.809 ppbv
RT: 2.062 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

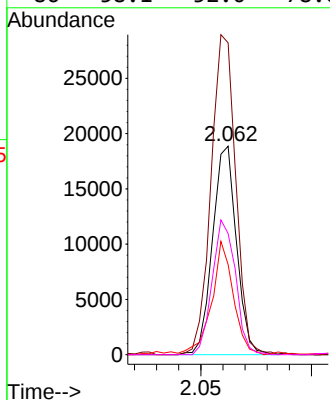
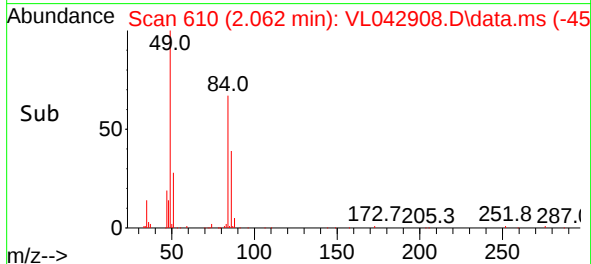
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	84	Resp:	14219
Ion	Ratio	Lower	Upper
84	100		
49	149.5	112.3	168.5
51	42.5	36.0	54.0
86	58.1	52.0	78.0

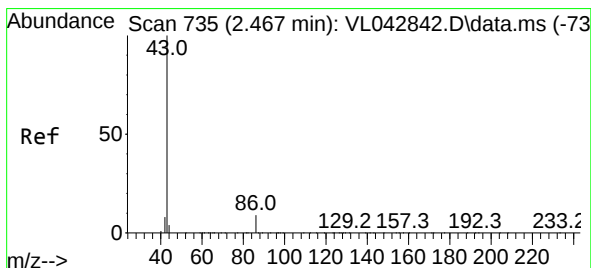
Manual Integrations
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Yesilyurt

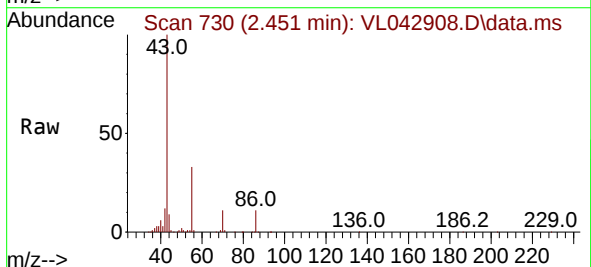


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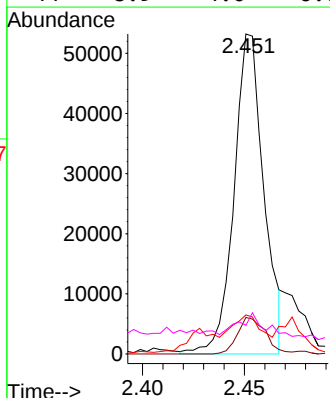
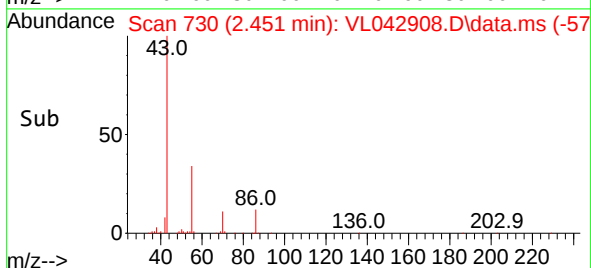
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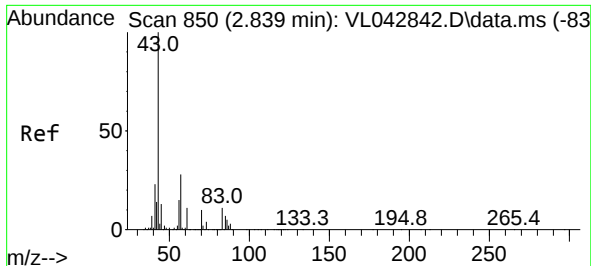


#23
Vinyl Acetate
Concen: 2.098 ppbv m
RT: 2.451 min Scan# 730
Delta R.T. -0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



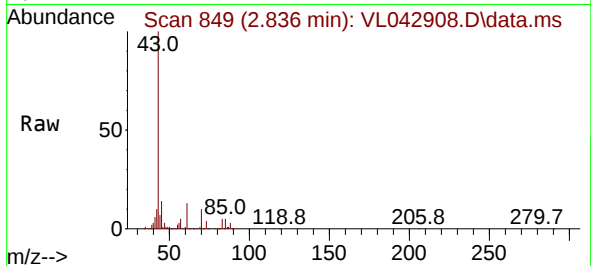
Tgt Ion:	43	Resp:	54142
Ion	Ratio	Lower	Upper
43	100		
86	11.4	6.6	9.8#
42	12.2	7.0	10.6#
44	8.9	4.0	6.0#





#25
Ethyl Acetate
Concen: 2.511 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

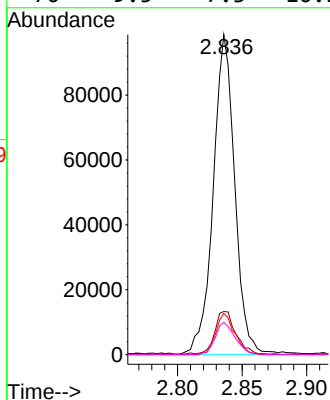
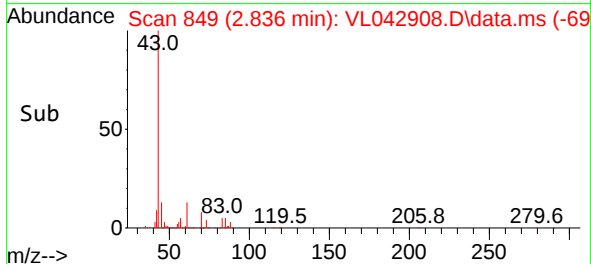
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 114034
Ion Ratio Lower Upper
43 100
45 13.9 8.1 12.1#
61 11.3 7.4 11.2#
70 9.5 7.3 10.9#

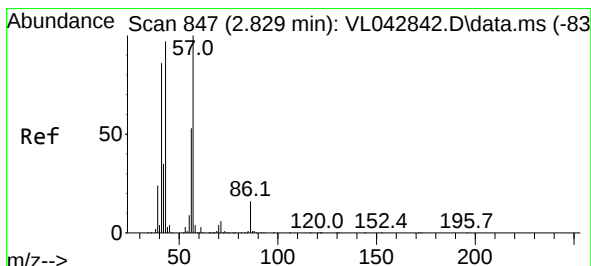
Manual Integrations
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Reviewed By :Semsettin
Yesilyurt



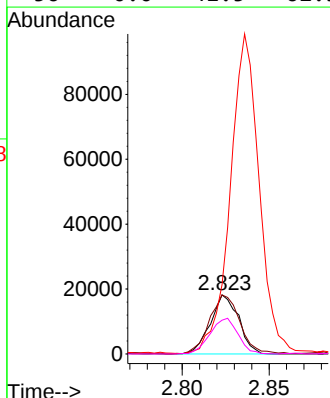
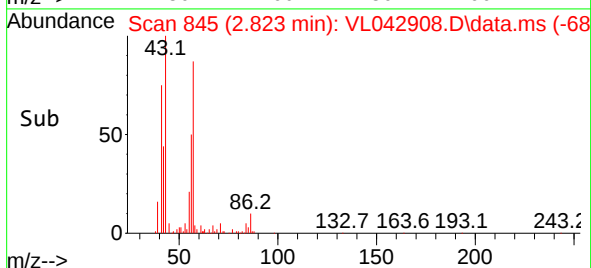
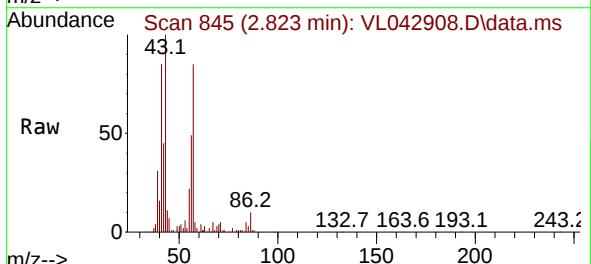
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Supervised By :Mahesh
Dadoda

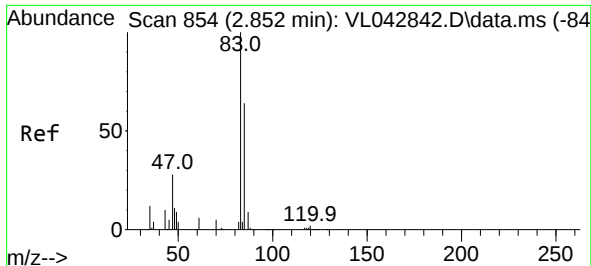
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#26
Hexane
Concen: 0.976 ppbv m
RT: 2.823 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 57 Resp: 20454
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#





#29

Chloroform

Concen: 0.807 ppbv

RT: 2.846 min Scan# 854

Delta R.T. 0.007 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 24170

Ion Ratio Lower Upper

83 100

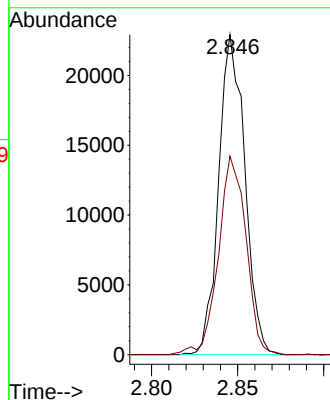
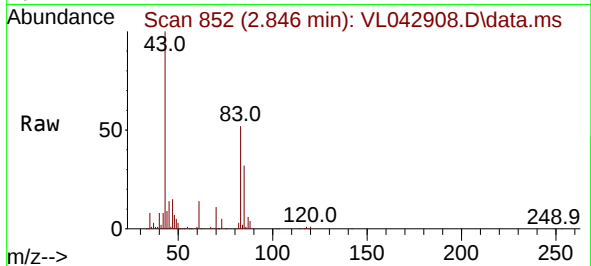
85 61.7 51.1 76.7

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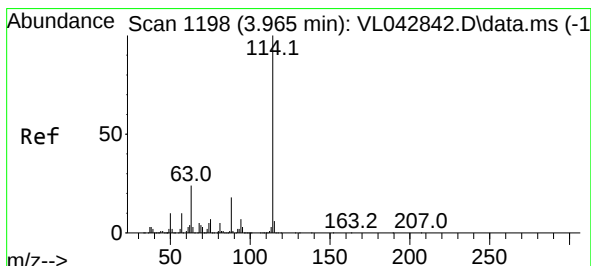
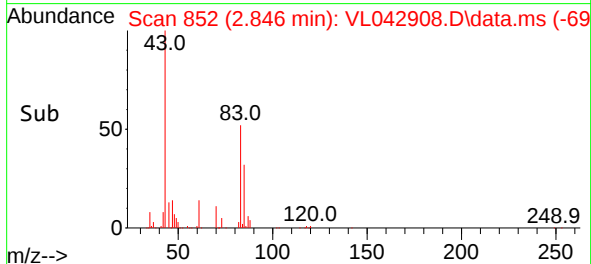


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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.013 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

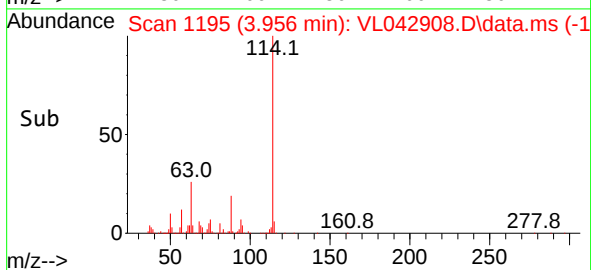
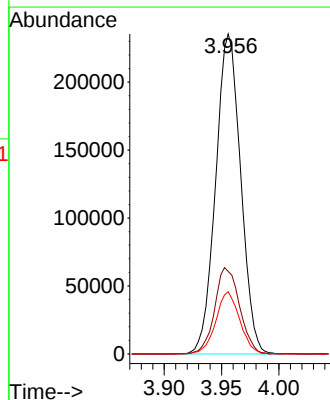
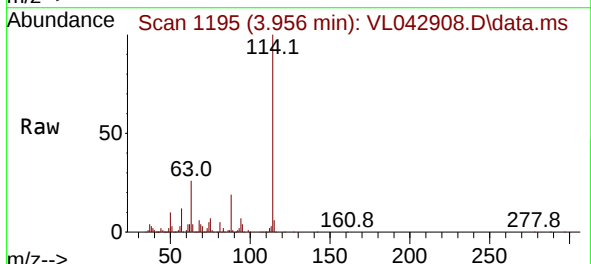
Tgt Ion:114 Resp: 356641

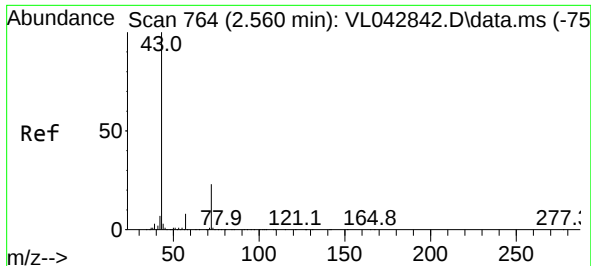
Ion Ratio Lower Upper

114 100

63 27.0 19.7 29.5

88 18.6 14.4 21.6





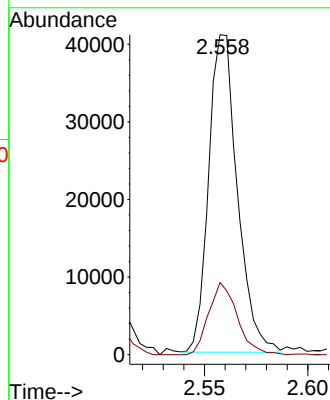
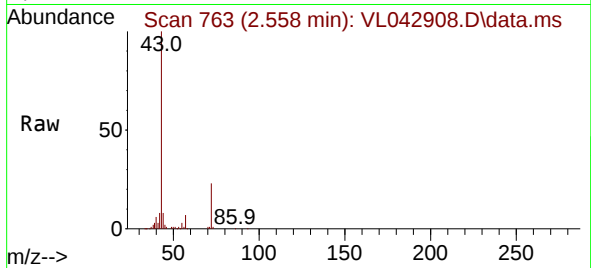
#34
2-Butanone
Concen: 1.644 ppbv
RT: 2.558 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 3958
Ion Ratio Lower Upper
43 100
72 22.7 18.6 28.0

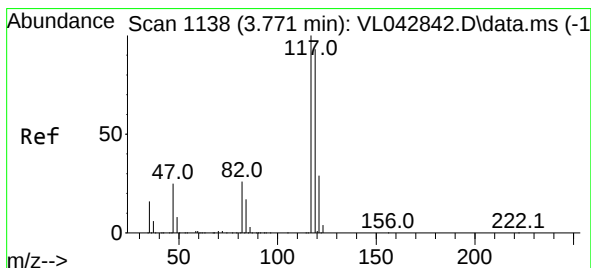
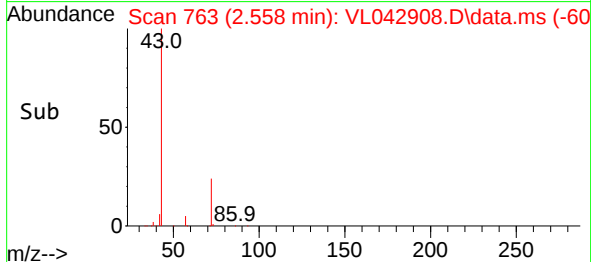
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Reviewed By :Semsettin
Yesilyurt



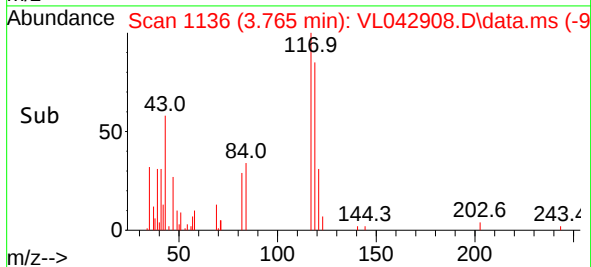
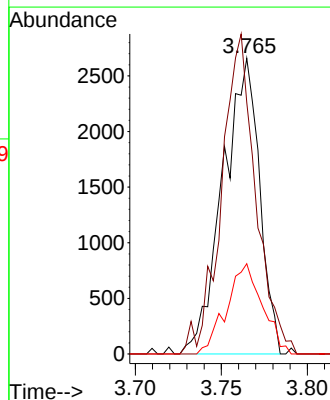
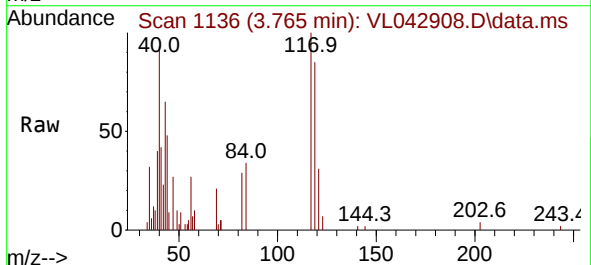
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Dadoda

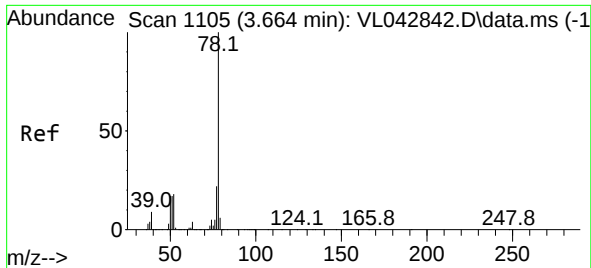
09/11/2025



#35
Carbon Tetrachloride
Concen: 0.160 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. 0.016 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:117 Resp: 3946
Ion Ratio Lower Upper
117 100
119 85.0 74.7 112.1
121 30.5 23.2 34.8





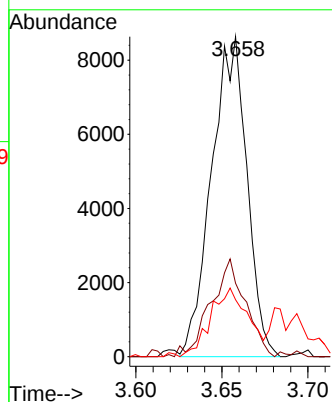
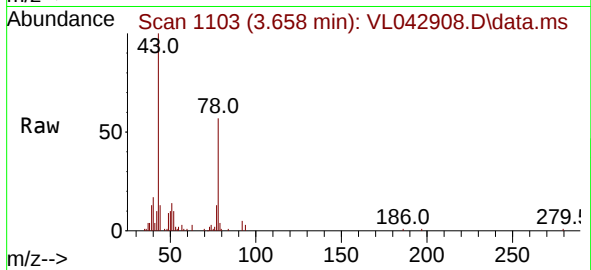
#36
Benzene
Concen: 0.362 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78	Resp: 1236
Ion Ratio	Lower Upper
78 100	
77 21.4	17.7 26.5
50 17.8	13.9 20.9

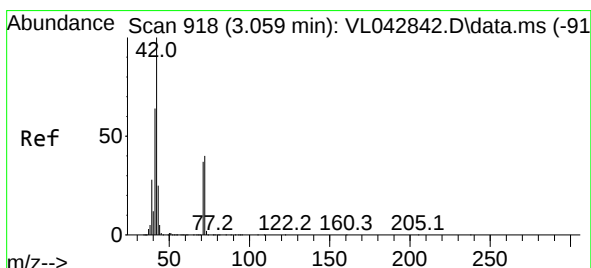
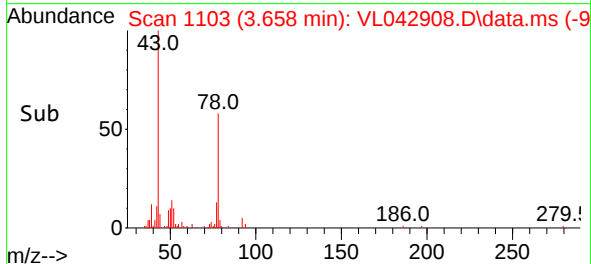
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Reviewed By :Semsettin
Yesilyurt



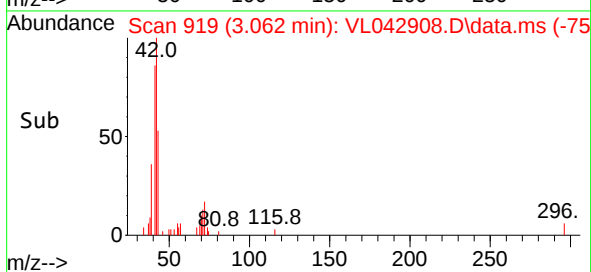
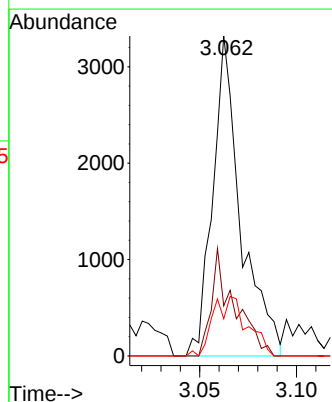
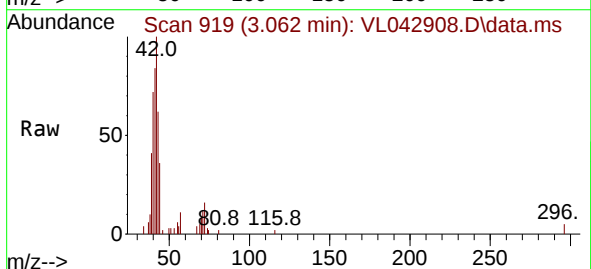
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Supervised By :Mahesh
Dadoda

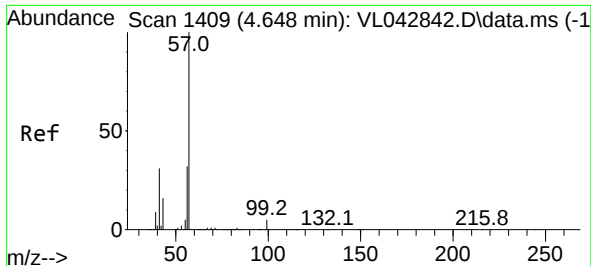
09/11/2025



#41
Tetrahydrofuran
Concen: 0.249 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.020 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

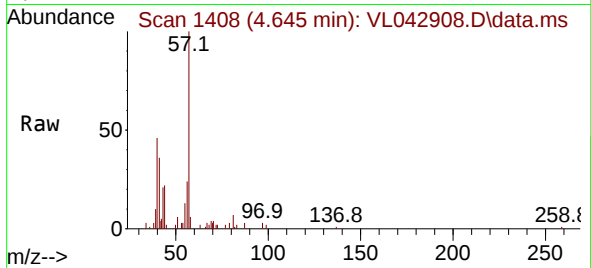
Tgt Ion: 42	Resp: 3346
Ion Ratio	Lower Upper
42 100	
72 27.4	32.6 48.8#
71 22.5	30.0 45.0#





#44
2,2,4-Trimethylpentane
Concen: 0.180 ppbv m
RT: 4.645 min Scan# 1409
Delta R.T. 0.023 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

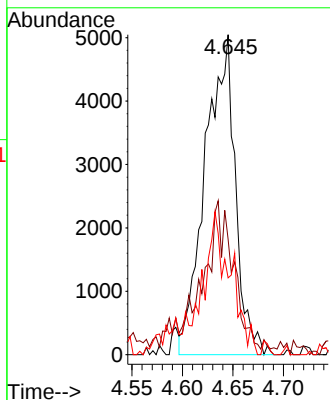
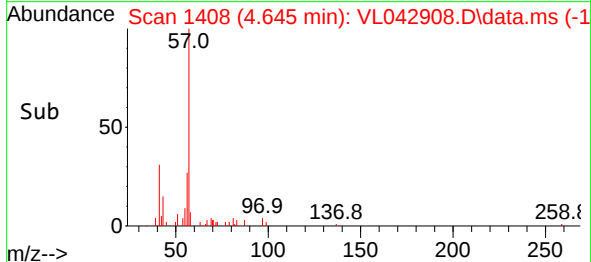
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 10459
Ion Ratio Lower Upper
57 100
41 49.1 24.8 37.2
56 49.2 25.5 38.3

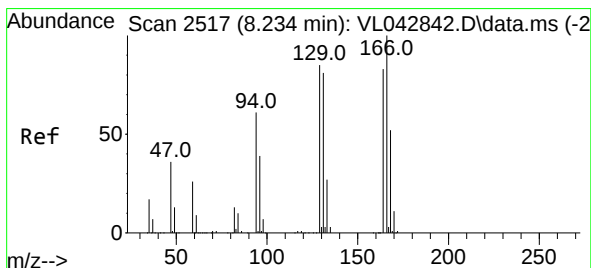
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Reviewed By :Semsettin
Yesilyurt



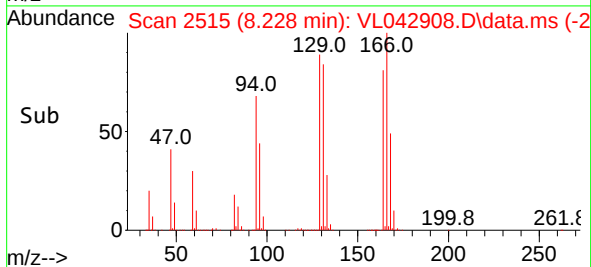
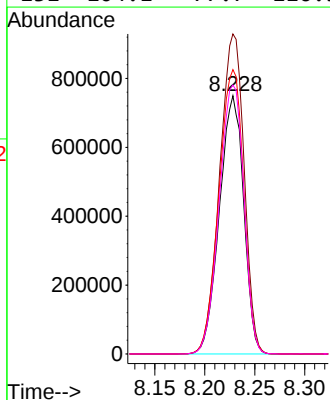
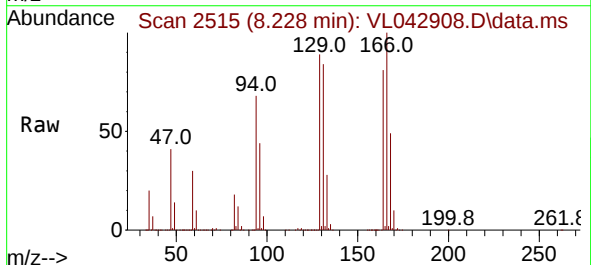
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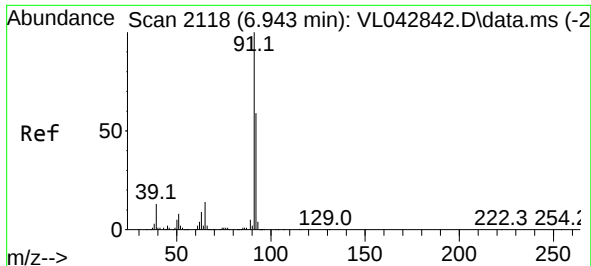
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#52
Tetrachloroethene
Concen: 102.158 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:164 Resp: 1262131
Ion Ratio Lower Upper
164 100
166 123.9 96.5 144.7
129 110.0 81.8 122.6
131 104.1 77.7 116.5





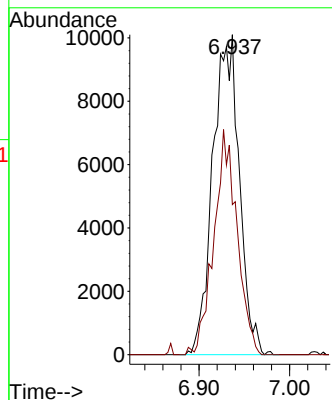
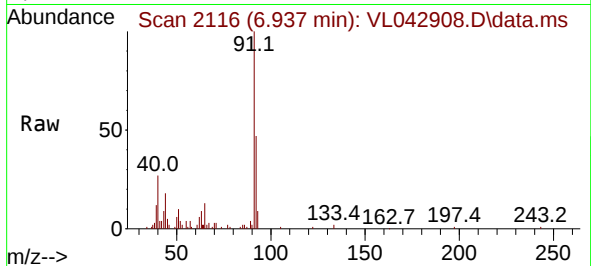
#53
Toluene
Concen: 0.505 ppbv m
RT: 6.937 min Scan# 2116
Delta R.T. 0.023 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 20494
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6

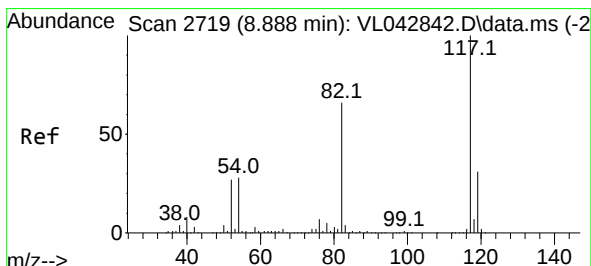
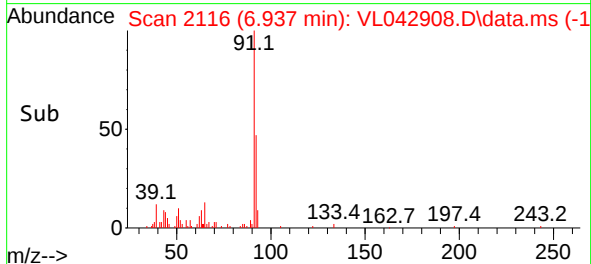
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Yesilyurt



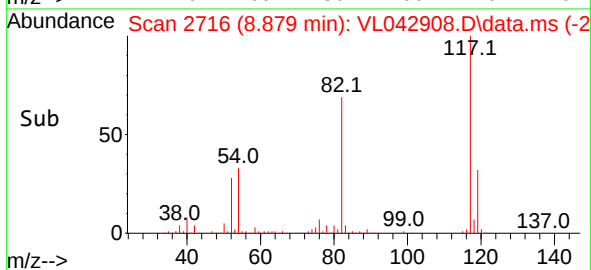
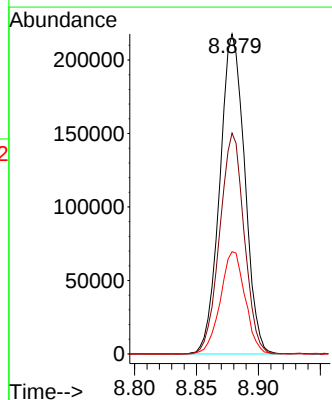
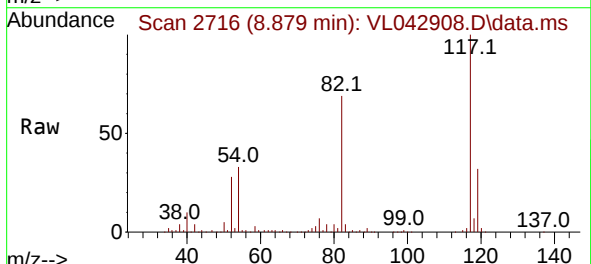
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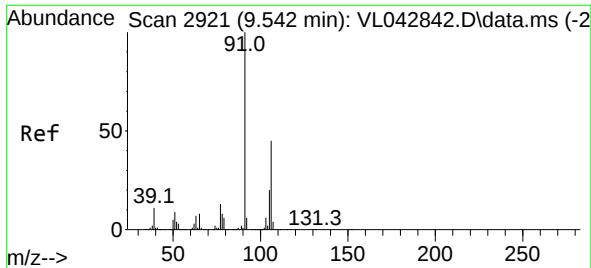
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:117 Resp: 304804
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.8 25.9 38.9





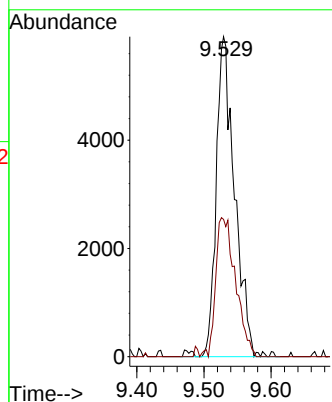
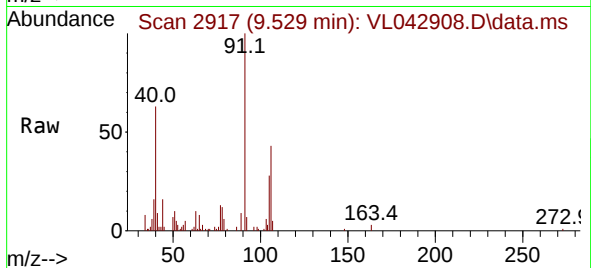
#59
m/p-Xylene
Concen: 0.268 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.009 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 11280
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

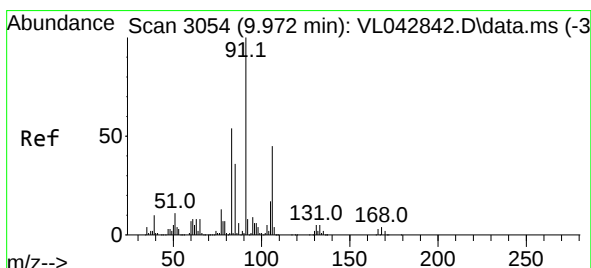
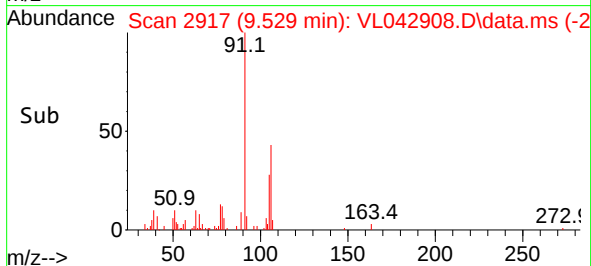
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Reviewed By :Semsettin
Yesilyurt



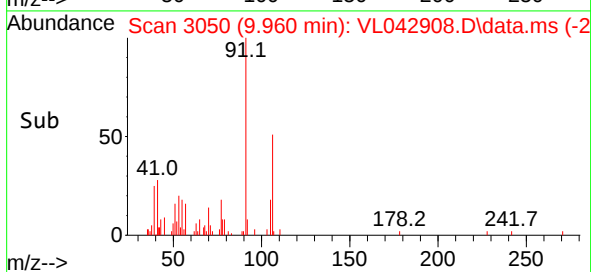
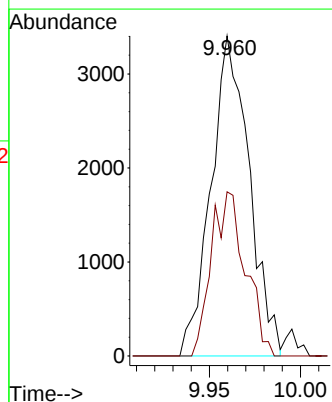
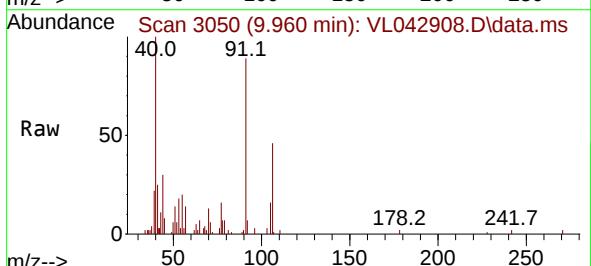
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Supervised By :Mahesh
Dadoda

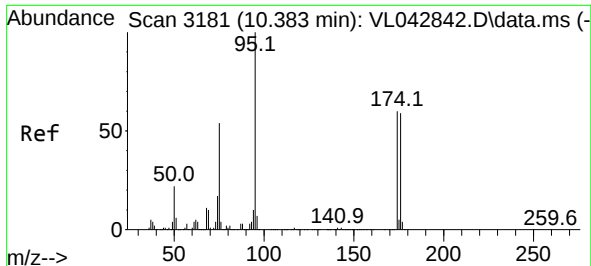
09/11/2025



#60
o-Xylene
Concen: 0.117 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

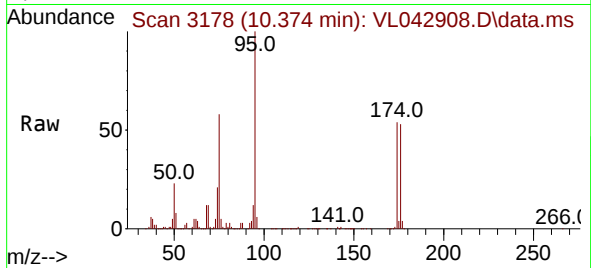
Tgt Ion: 91 Resp: 4961
Ion Ratio Lower Upper
91 100
106 45.8 21.8 65.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.374 min Scan# 3181
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

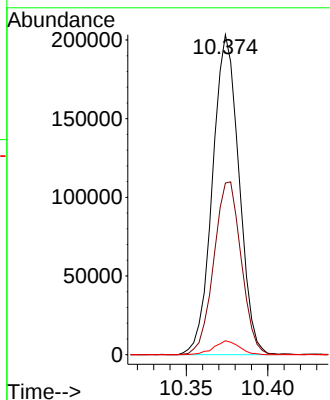
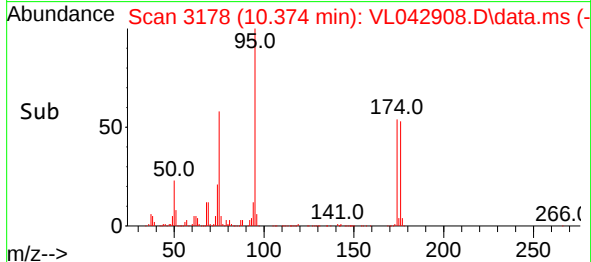
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 22974
Ion Ratio Lower Upper
95 100
174 56.0 48.4 72.6
175 4.2 3.8 5.8

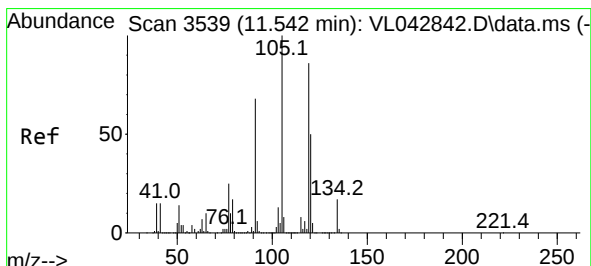
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



09/09/2025
Supervised By :Mahesh
Dadoda

09/11/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:105 Resp: 5497
Ion Ratio Lower Upper
105 100
120 46.2 39.8 59.6
91 11.1 54.2 81.4#
77 21.7 19.8 29.6

