

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043062.D
 Acq On : 08 Oct 2025 13:58
 Operator : SY/MD
 Sample : Q3306-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:18:08 2025

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

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

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	2.793	49	183624	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.965	114	501713	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.888	117	398502	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	292656	10.194	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	14182	0.458	ppbv	98
3) Chlorodifluoromethane	1.479	51	9146m	0.305	ppbv	
4) Chloromethane	1.534	50	5451	0.482	ppbv	94
9) Propene	1.489	41	12777	1.058	ppbv	86
11) Trichlorofluoromethane	1.881	101	7500	0.236	ppbv	95
13) Ethanol	1.725	45	49077	110.920	ppbv	90
15) Acetone	1.839	43	173289	6.740	ppbv	98
20) Methylene Chloride	2.065	84	264125	23.536	ppbv	95
26) Hexane	2.832	57	339260	13.674	ppbv #	34
34) 2-Butanone	2.564	43	12032	0.353	ppbv	100
35) Carbon Tetrachloride	3.771	117	2736m	0.066	ppbv	
36) Benzene	3.661	78	7995	0.167	ppbv #	92
44) 2,2,4-Trimethylpentane	4.645	57	9756m	0.127	ppbv	
53) Toluene	6.940	91	14857m	0.307	ppbv	
59) m/p-Xylene	9.539	91	7014m	0.135	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	6177m	0.102	ppbv	

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

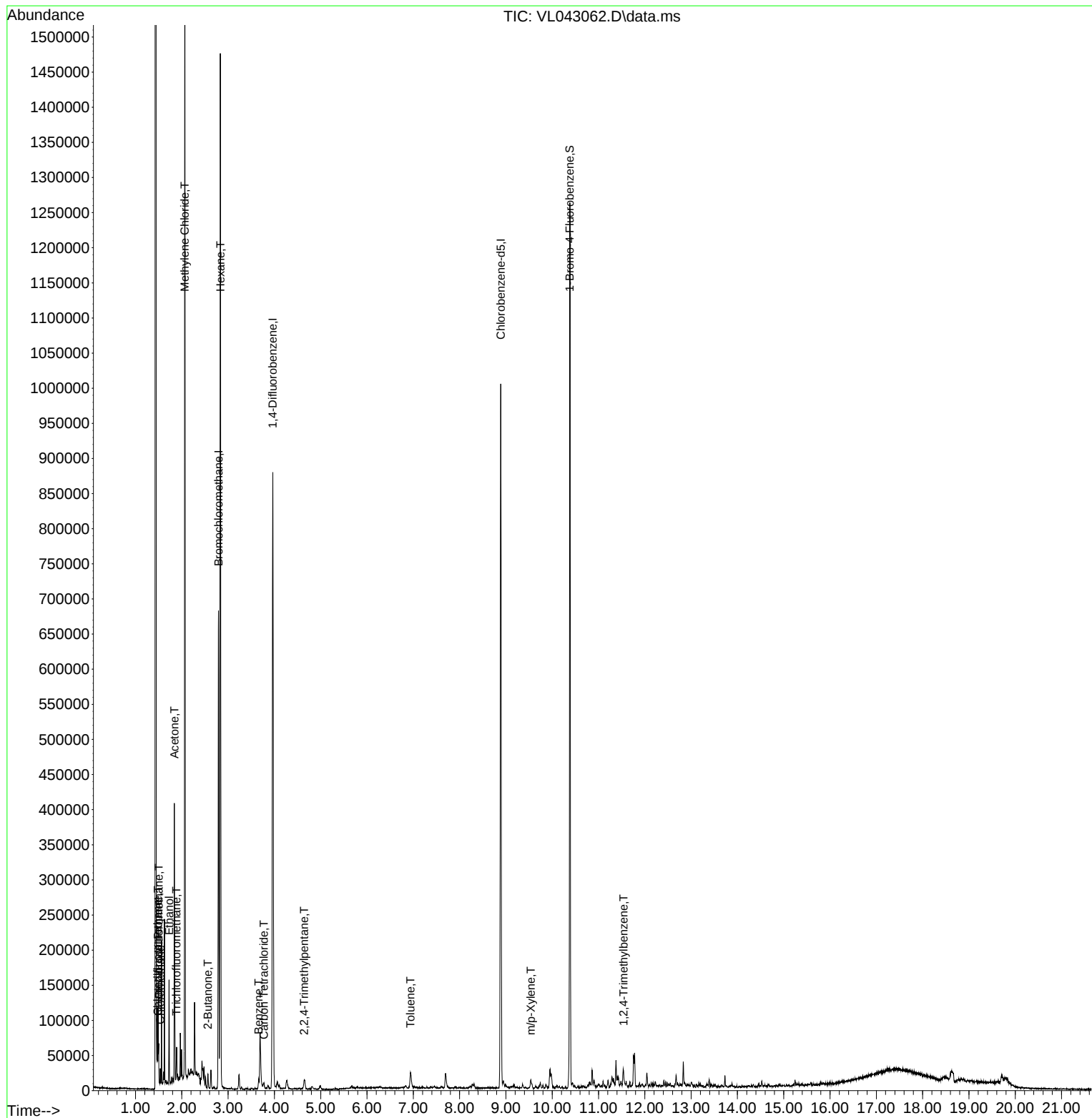
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043062.D
Acq On : 08 Oct 2025 13:58
Operator : SY/MD
Sample : Q3306-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

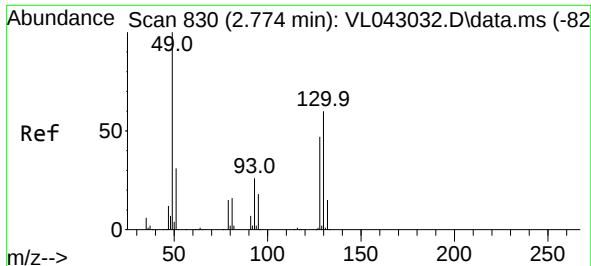
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Oct 09 01:18:08 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

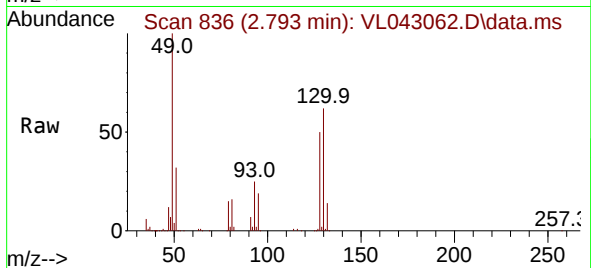
Reviewed By : Semsettin Yesilyurt 10/09/2025
Supervised By : Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

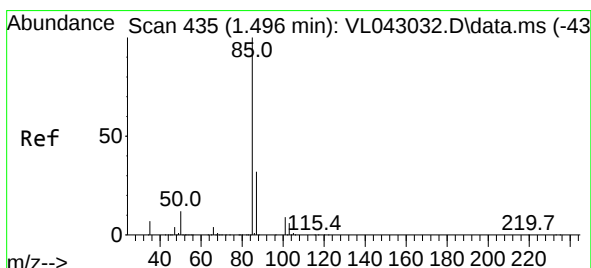
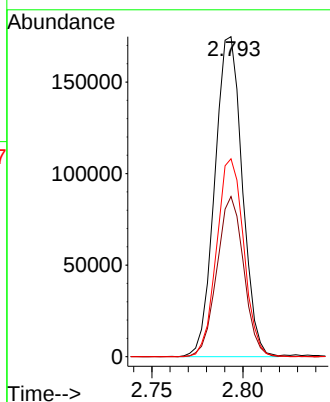
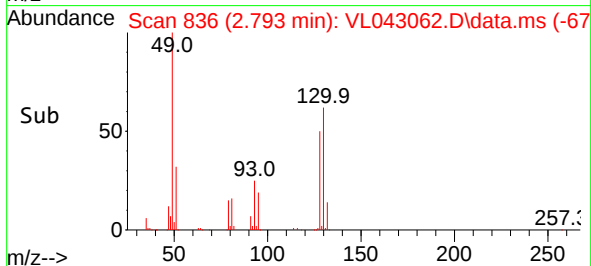
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 183624
Ion Ratio Lower Upper
49 100
128 48.7 24.1 72.2
130 61.0 31.4 94.3

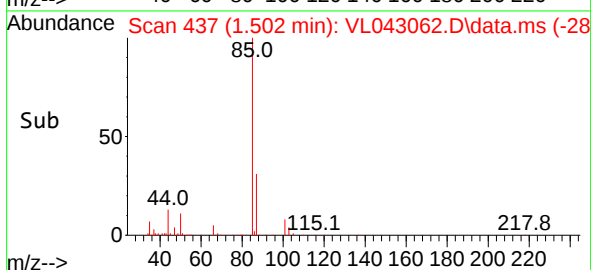
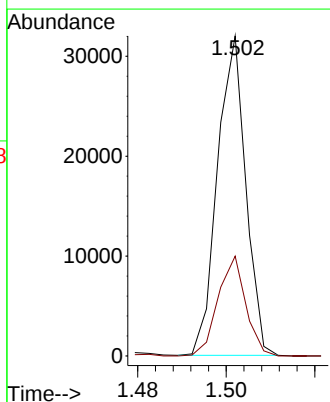
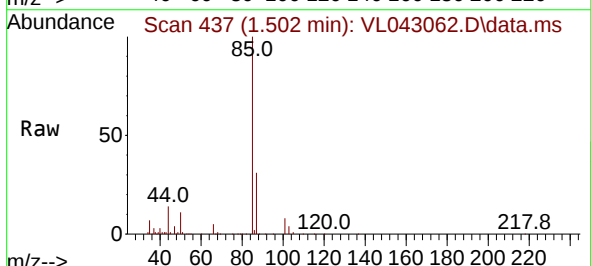
Manual Integrations
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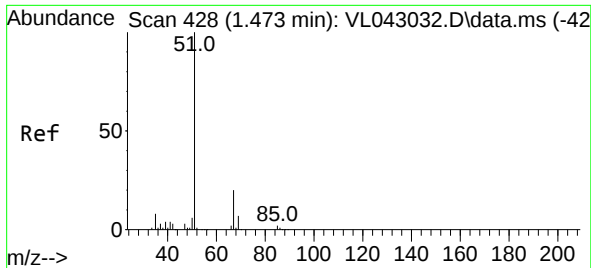
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.458 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

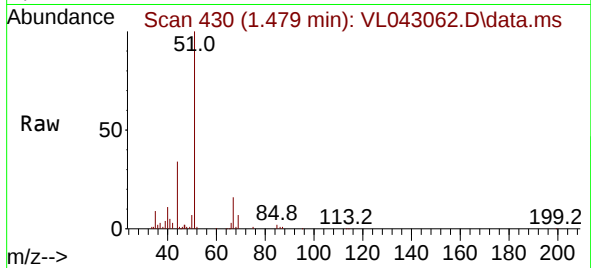
Tgt Ion: 85 Resp: 14182
Ion Ratio Lower Upper
85 100
87 31.3 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.305 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

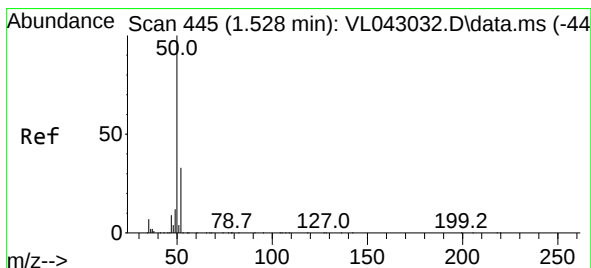
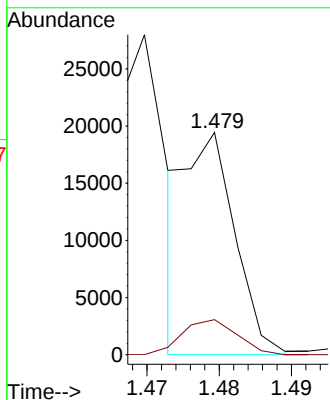
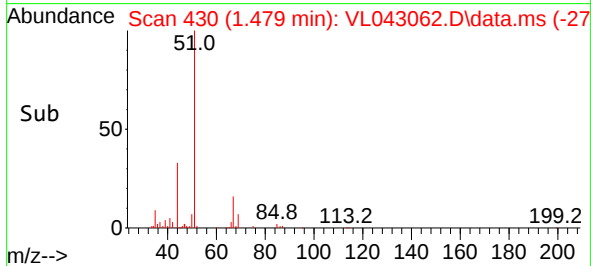
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



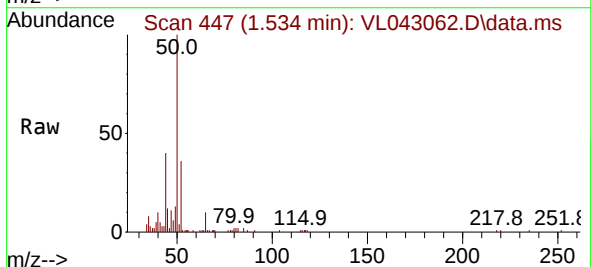
Tgt Ion: 51 Resp: 9140
Ion Ratio Lower Upper
51 100
67 2.0 15.1 22.75

Manual Integrations
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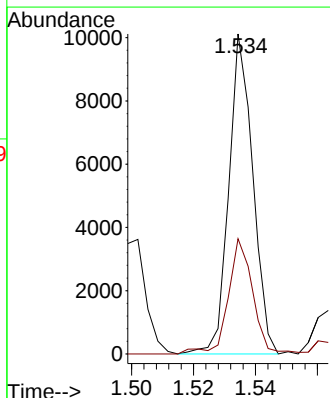
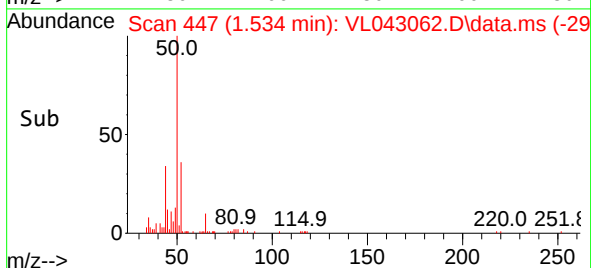
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

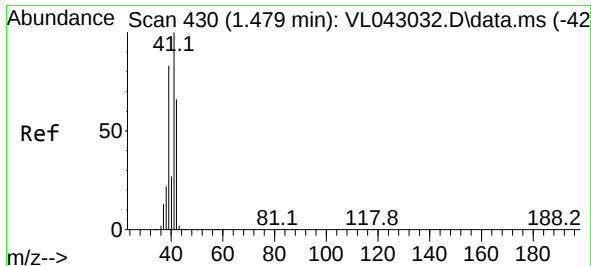


#4
Chloromethane
Concen: 0.482 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58



Tgt Ion: 50 Resp: 5451
Ion Ratio Lower Upper
50 100
52 36.0 26.2 39.2





#9

Propene

Concen: 1.058 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL043062.D

Acq: 08 Oct 2025 13:58

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 1277

Ion Ratio Lower Upper

41 100

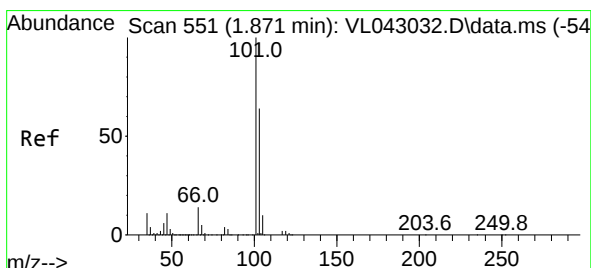
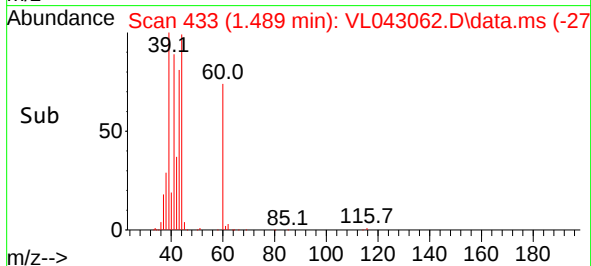
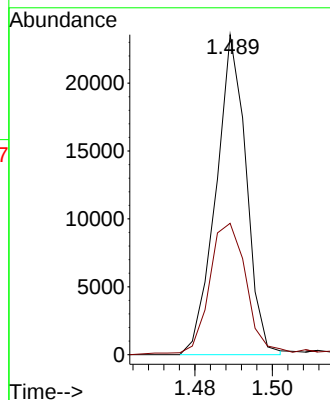
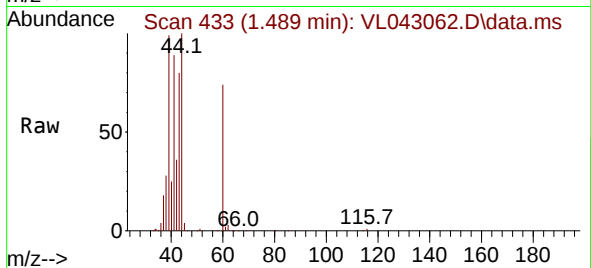
42 55.7 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#11

Trichlorofluoromethane

Concen: 0.236 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.010 min

Lab File: VL043062.D

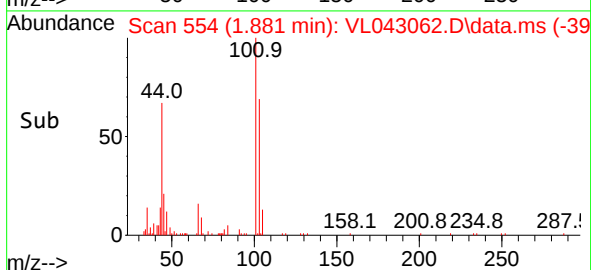
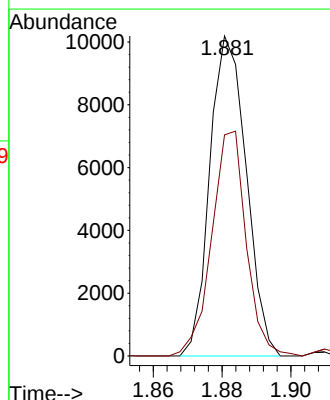
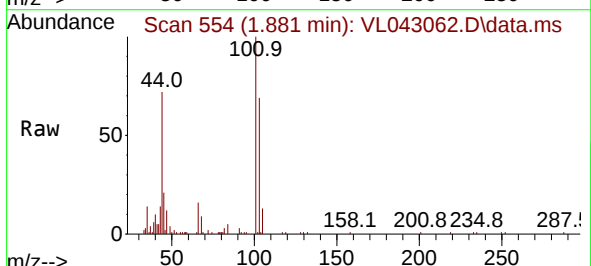
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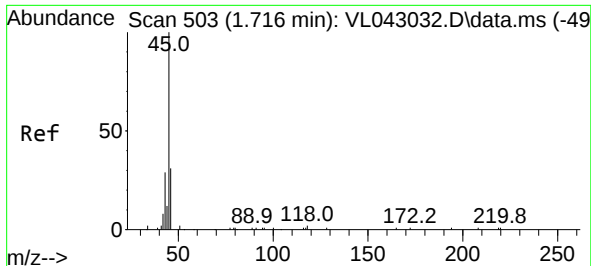
Tgt Ion:101 Resp: 7500

Ion Ratio Lower Upper

101 100

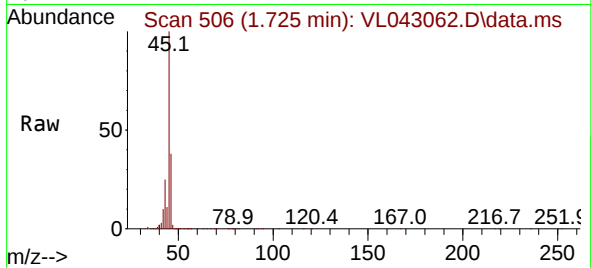
103 67.9 51.1 76.7





#13
Ethanol
Concen: 110.920 ppbv
RT: 1.725 min Scan# 503
Delta R.T. 0.009 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

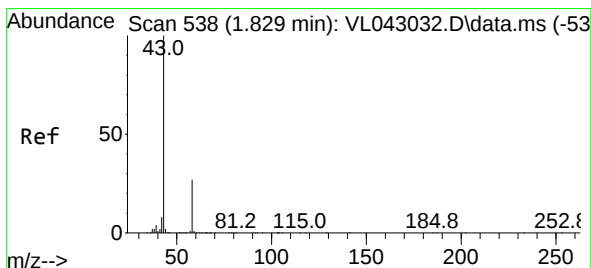
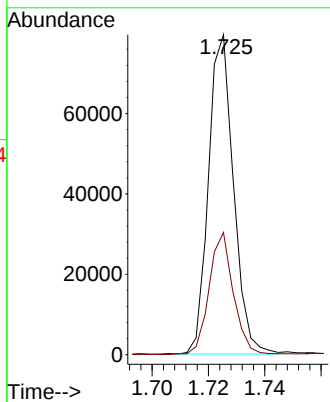
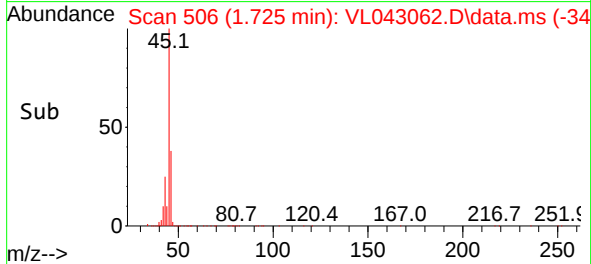
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 49072
Ion Ratio Lower Upper
45 100
46 38.2 17.8 71.4

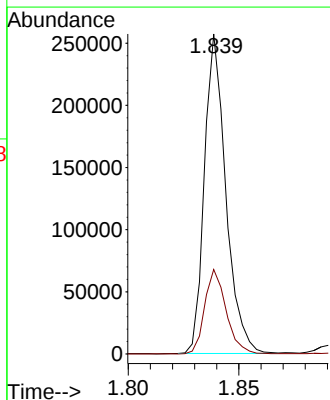
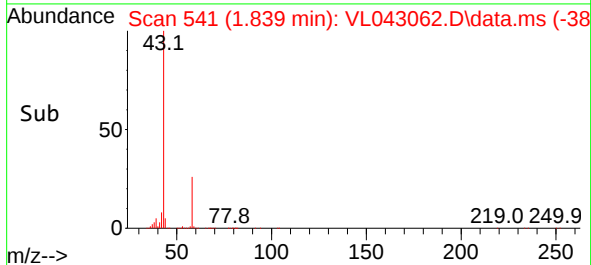
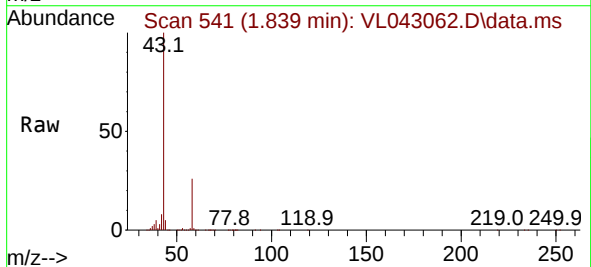
Manual Integrations
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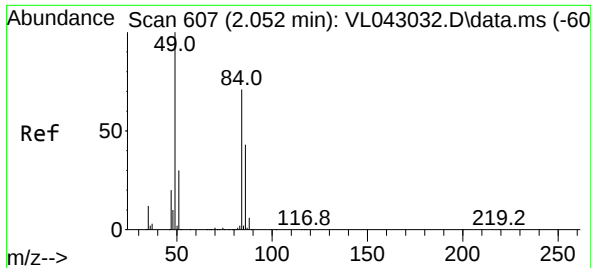
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 6.740 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

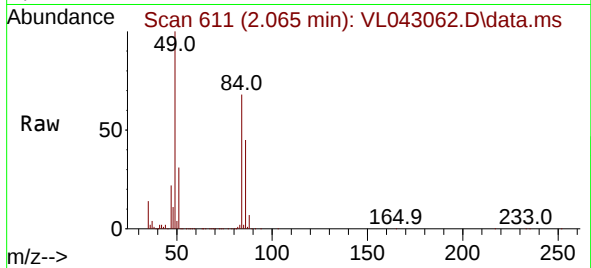
Tgt Ion: 43 Resp: 173289
Ion Ratio Lower Upper
43 100
58 26.6 22.2 33.4





#20
Methylene Chloride
Concen: 23.536 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

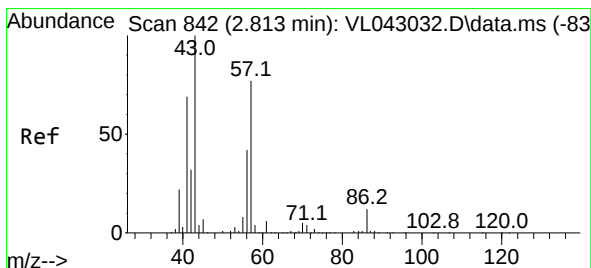
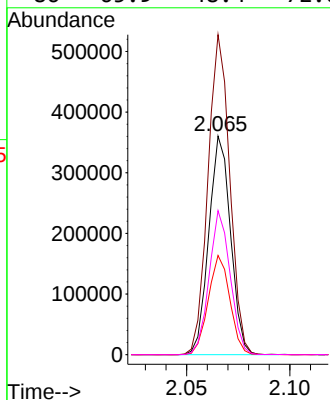
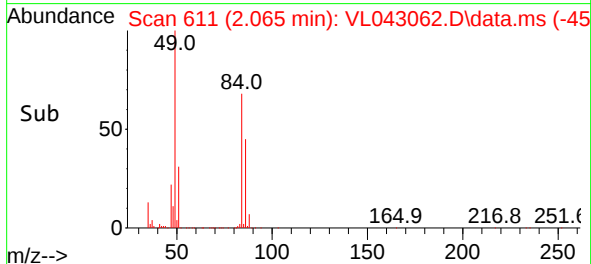
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



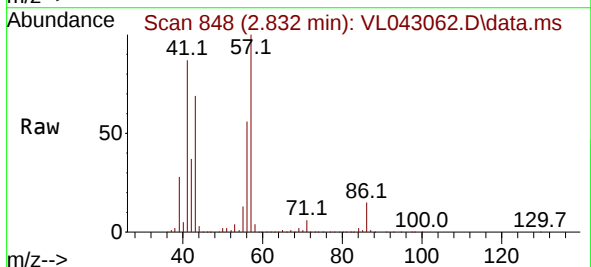
Tgt Ion: 84 Resp: 264125
Ion Ratio Lower Upper
84 100
49 146.4 112.5 168.7
51 45.4 34.2 51.2
86 65.9 48.4 72.6

Manual Integrations
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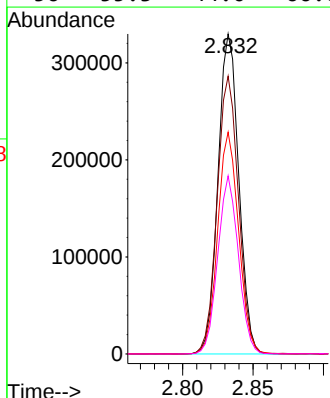
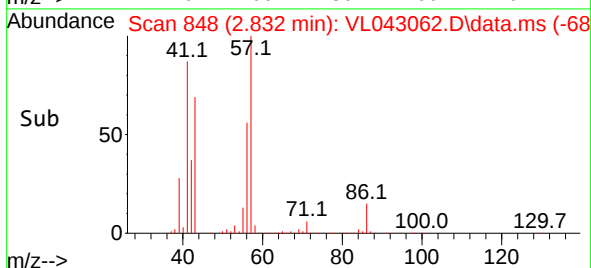
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

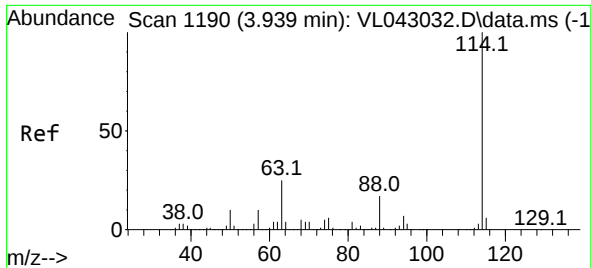


#26
Hexane
Concen: 13.674 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.019 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58



Tgt Ion: 57 Resp: 339260
Ion Ratio Lower Upper
57 100
41 89.7 76.1 114.1
43 70.0 201.4 302.0#
56 55.3 44.0 66.0





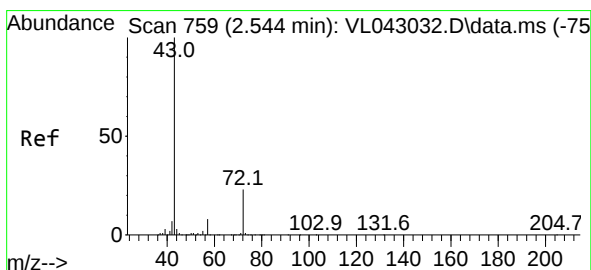
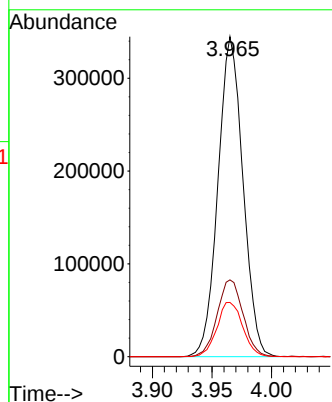
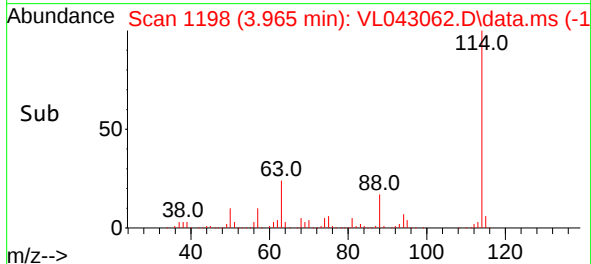
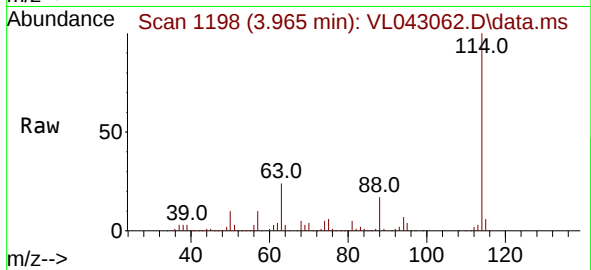
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1190
Delta R.T. 0.026 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:114 Resp: 50171
Ion Ratio Lower Upper
114 100
63 25.0 19.4 29.2
88 17.5 13.9 20.9

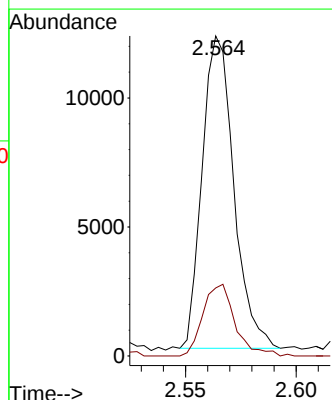
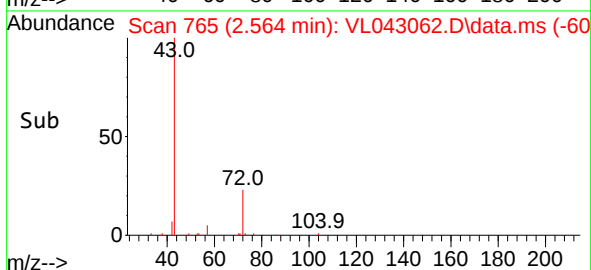
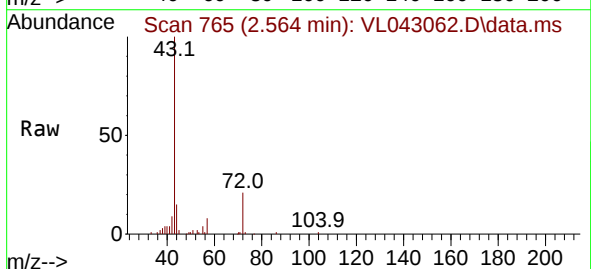
Manual Integrations
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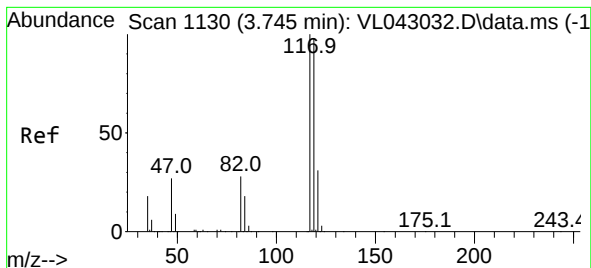
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#34
2-Butanone
Concen: 0.353 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.019 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

Tgt Ion: 43 Resp: 12032
Ion Ratio Lower Upper
43 100
72 23.2 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 3.771 min Scan# 1130

Delta R.T. 0.026 min

Lab File: VL043062.D

Acq: 08 Oct 2025 13:58

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

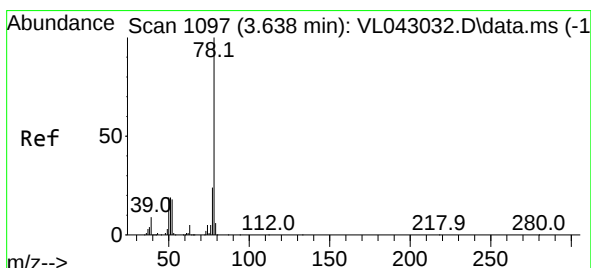
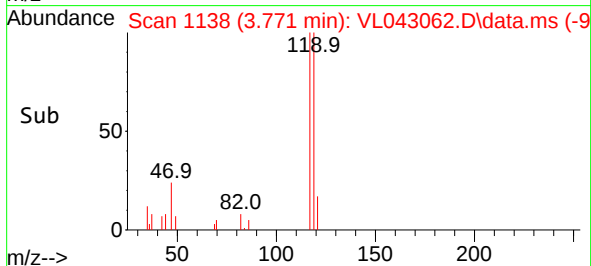
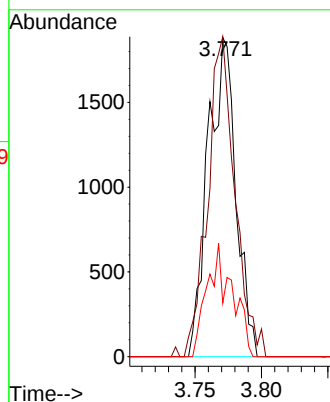
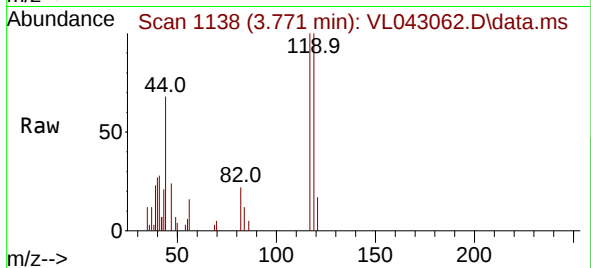
Tgt Ion:	117	Resp:	2730
Ion	Ratio	Lower	Upper
117	100		
119	100.3	78.2	117.4
121	16.8	24.8	37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#36

Benzene

Concen: 0.167 ppbv

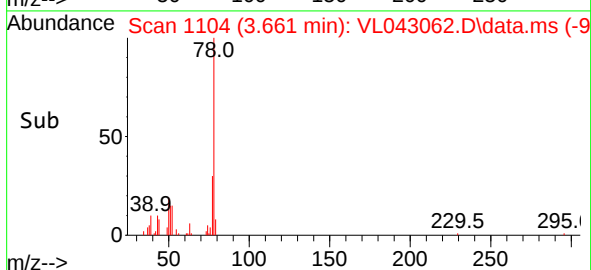
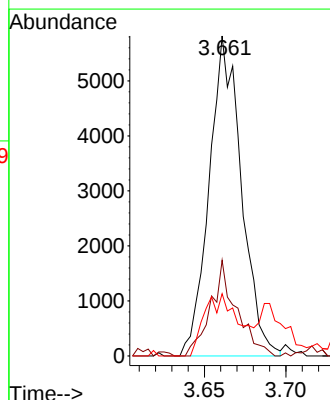
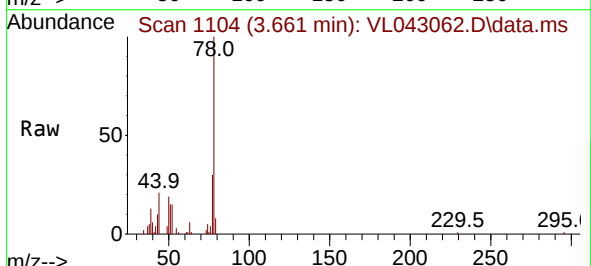
RT: 3.661 min Scan# 1104

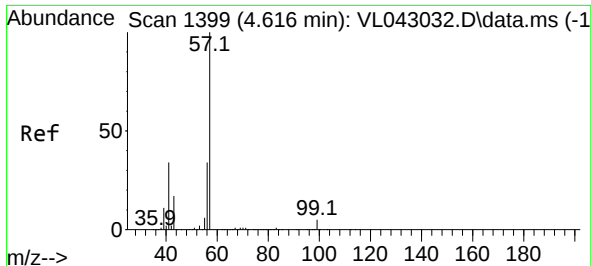
Delta R.T. 0.023 min

Lab File: VL043062.D

Acq: 08 Oct 2025 13:58

Tgt Ion:	78	Resp:	7995
Ion	Ratio	Lower	Upper
78	100		
77	29.9	19.2	28.8
50	19.5	14.9	22.3





#44

2,2,4-Trimethylpentane

Concen: 0.127 ppbv m

RT: 4.645 min Scan# 1408

Delta R.T. 0.029 min

Lab File: VL043062.D

Acq: 08 Oct 2025 13:58

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 57 Resp: 9750

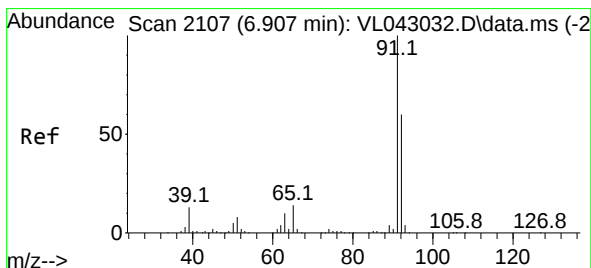
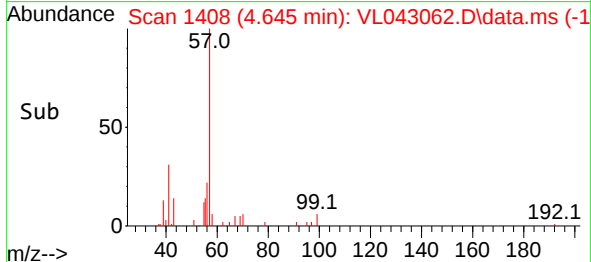
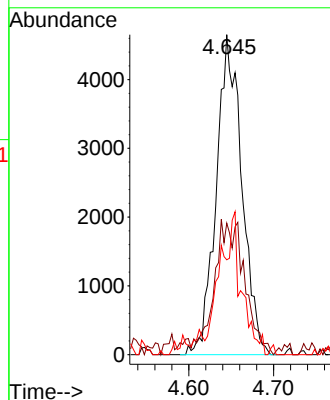
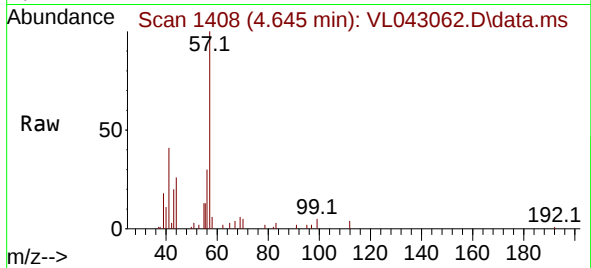
Ion	Ratio	Lower	Upper
57	100		
41	52.4	27.0	40.4
56	0.0	26.0	39.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#53

Toluene

Concen: 0.307 ppbv m

RT: 6.940 min Scan# 2117

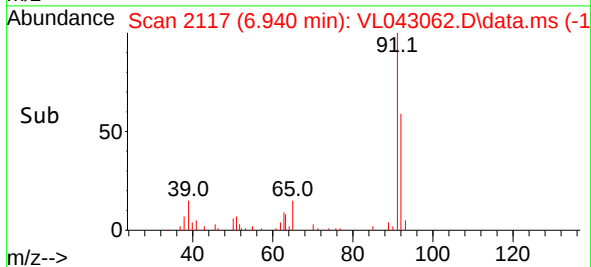
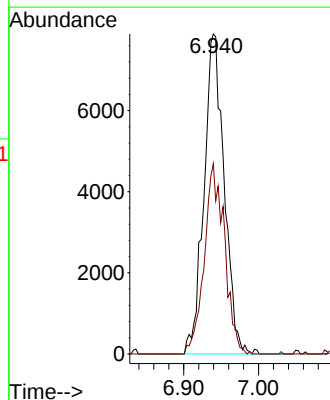
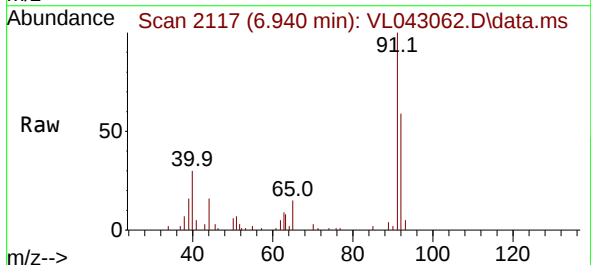
Delta R.T. 0.032 min

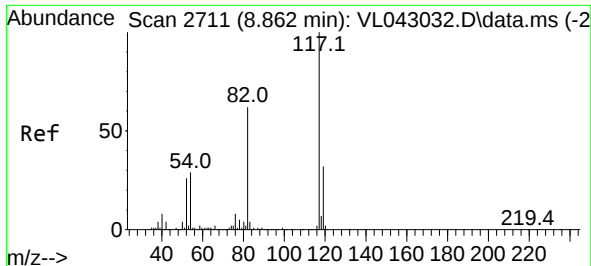
Lab File: VL043062.D

Acq: 08 Oct 2025 13:58

Tgt Ion: 91 Resp: 14857

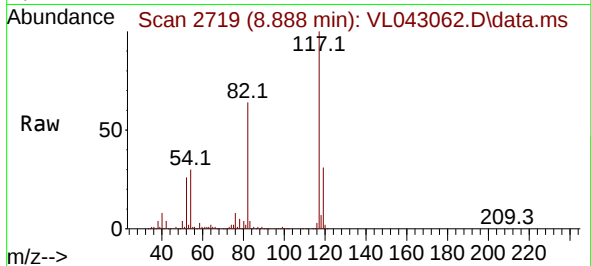
Ion	Ratio	Lower	Upper
91	100		
92	59.3	47.8	71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

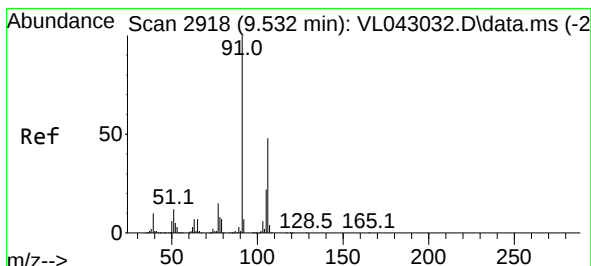
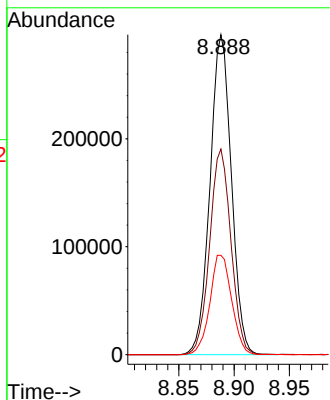
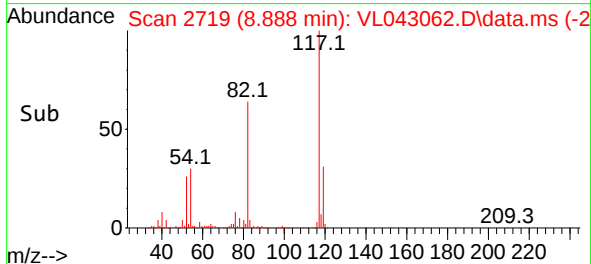
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 39850
Ion Ratio Lower Upper
117 100
82 64.0 53.0 79.6
119 31.9 25.4 38.2

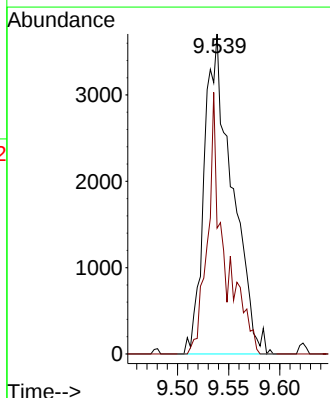
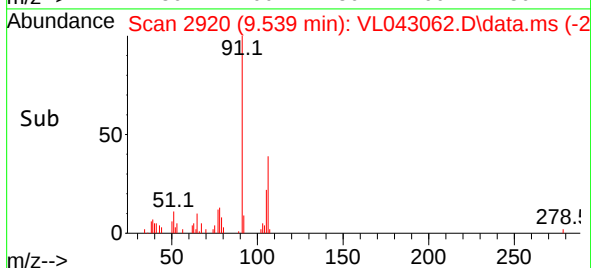
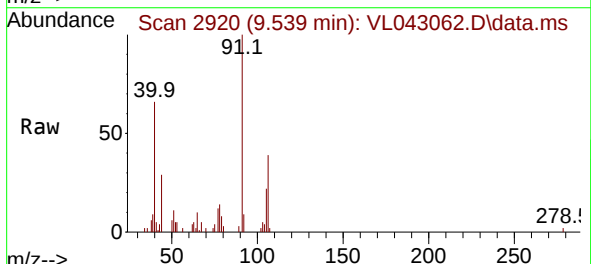
Manual Integrations
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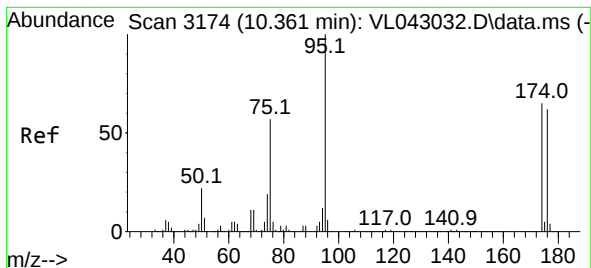
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#59
m/p-Xylene
Concen: 0.135 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. 0.006 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

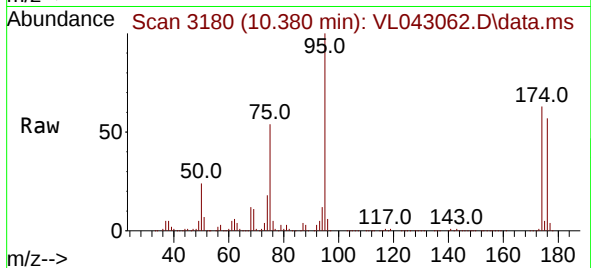
Tgt Ion: 91 Resp: 7014
Ion Ratio Lower Upper
91 100
106 49.0 37.5 56.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.194 ppbv
RT: 10.380 min Scan# 3174
Delta R.T. 0.019 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

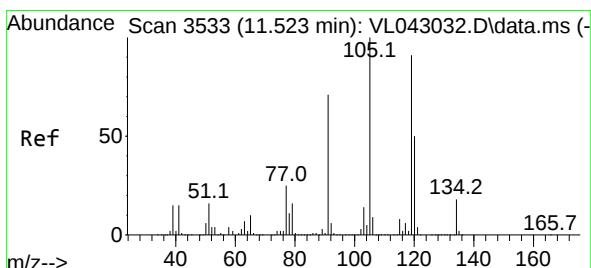
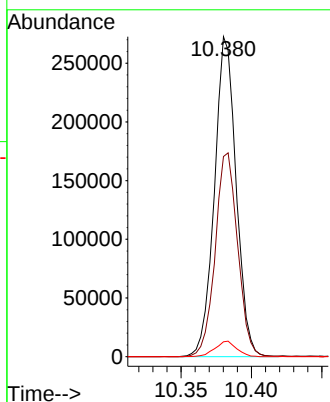
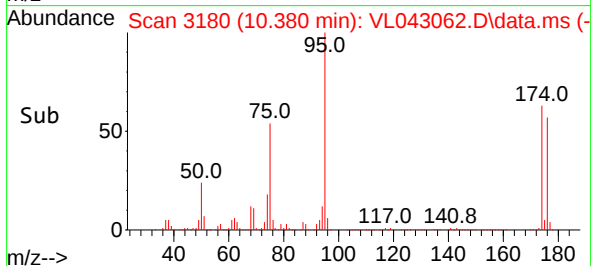
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 95 Resp: 292650
Ion Ratio Lower Upper
95 100
174 66.0 52.3 78.5
175 4.9 3.8 5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.102 ppbv m
RT: 11.539 min Scan# 3538
Delta R.T. 0.016 min
Lab File: VL043062.D
Acq: 08 Oct 2025 13:58

Tgt Ion:105 Resp: 6177
Ion Ratio Lower Upper
105 100
120 44.6 39.7 59.5
91 15.7 56.5 84.7#
77 17.1 19.9 29.9#

