

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042765.D
 Acq On : 24 Jul 2025 15:05
 Operator : SY/MD
 Sample : Q2671-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 118-AAIDUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2025
 Supervised By :Mahesh Dadoda 07/26/2025

Quant Time: Jul 25 01:27:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	152008	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	406880	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	361575	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	293717	10.257	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8073m	0.402	ppbv	
3) Chlorodifluoromethane	1.473	51	6161m	0.235	ppbv	
4) Chloromethane	1.528	50	3365	0.414	ppbv	95
9) Propene	1.483	41	2154	0.226	ppbv	100
10) Heptane	4.972	43	3333m	0.130	ppbv	
11) Trichlorofluoromethane	1.878	101	4077m	0.197	ppbv	
13) Ethanol	1.722	45	15626	21.402	ppbv #	31
15) Acetone	1.836	43	94769	4.515	ppbv	99
19) Isopropyl Alcohol	1.888	45	8018m	0.719	ppbv	
26) Hexane	2.826	57	157154	7.711	ppbv #	41
34) 2-Butanone	2.564	43	10963	0.380	ppbv	95
35) Carbon Tetrachloride	3.752	117	2382m	0.079	ppbv	
36) Benzene	3.651	78	5099m	0.132	ppbv	
53) Toluene	6.933	91	9247m	0.223	ppbv	
59) m/p-Xylene	9.539	91	6680m	0.146	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	8363	0.171	ppbv #	59

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

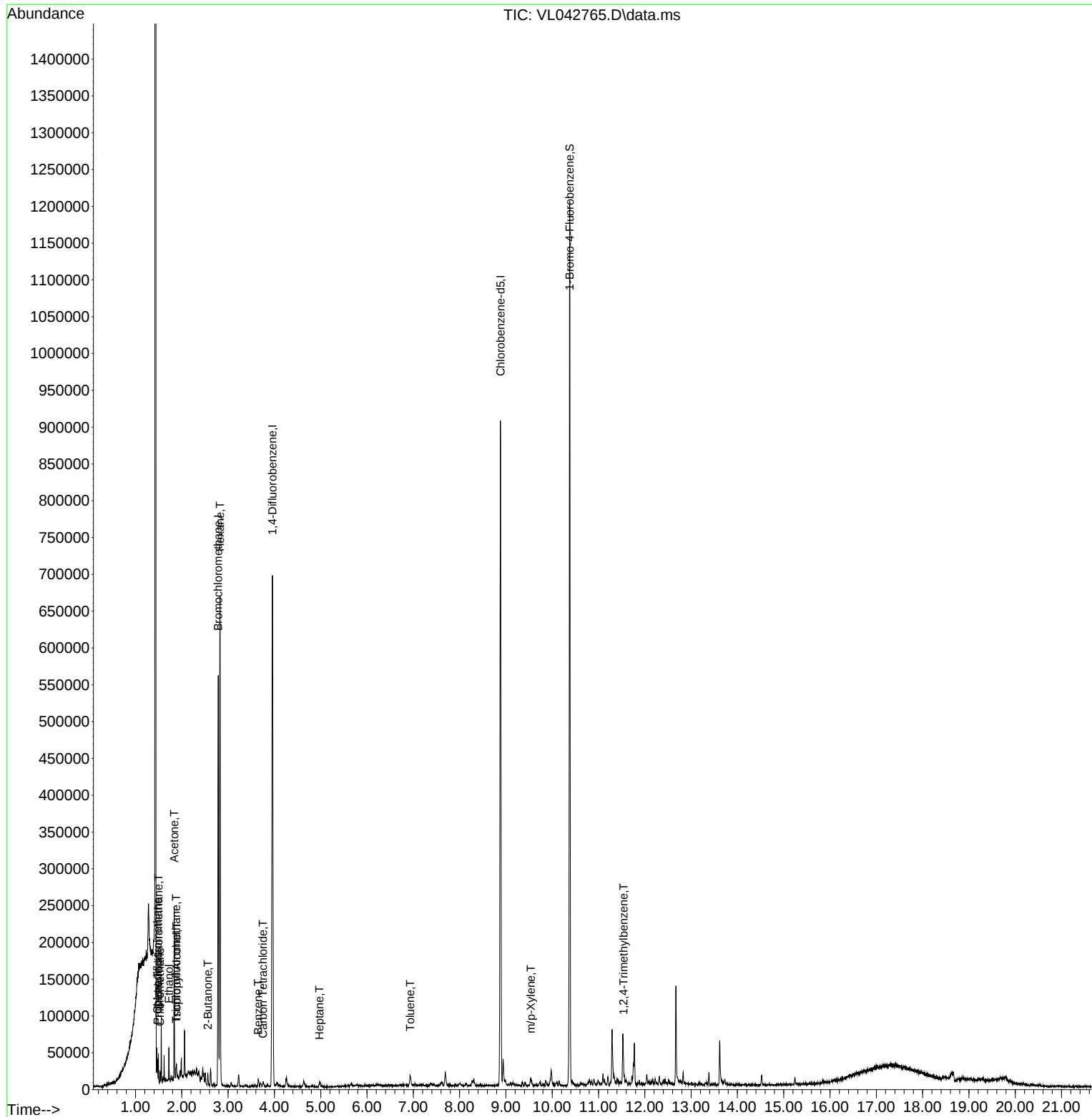
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
Data File : VL042765.D
Acq On : 24 Jul 2025 15:05
Operator : SY/MD
Sample : Q2671-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

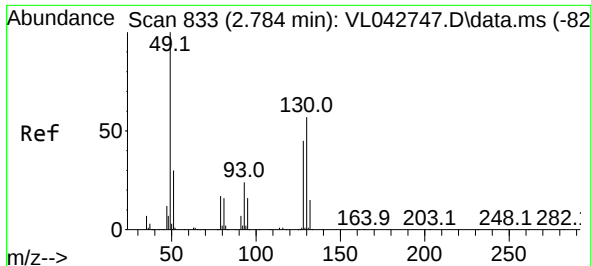
Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP

Quant Time: Jul 25 01:27:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
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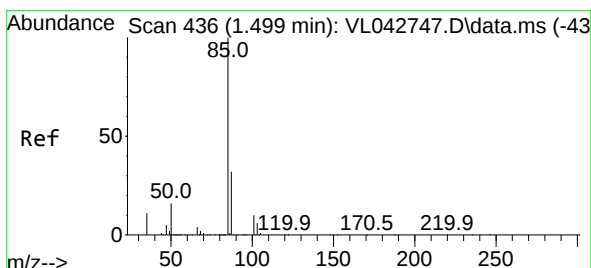
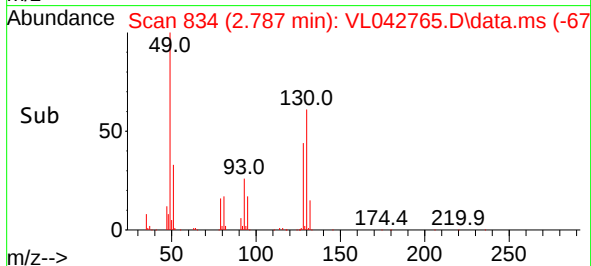
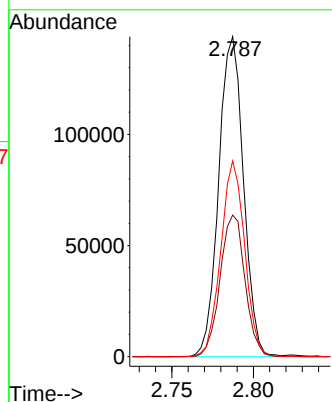
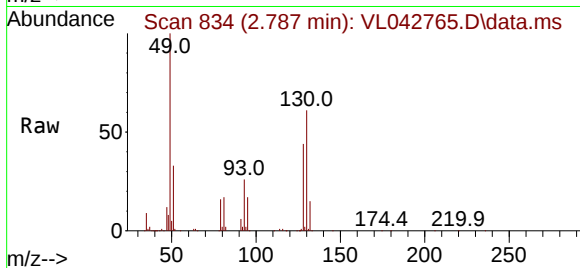
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP

Tgt Ion: 49 Resp: 152000
Ion Ratio Lower Upper
49 100
128 44.6 23.6 71.0
130 59.1 30.3 90.8

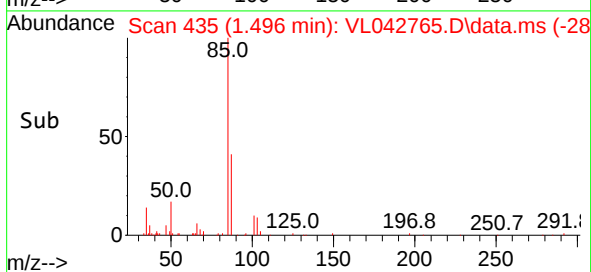
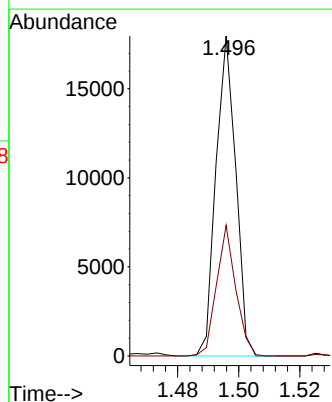
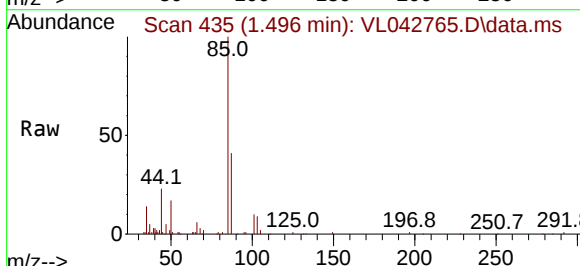
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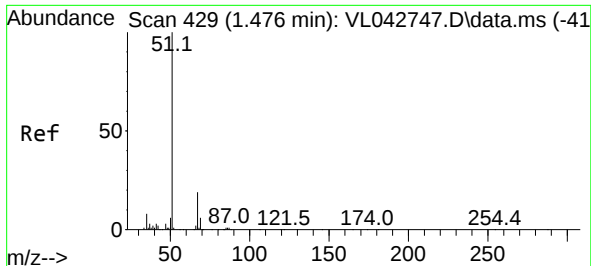
Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025



#2
Dichlorodifluoromethane
Concen: 0.402 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Tgt Ion: 85 Resp: 8073
Ion Ratio Lower Upper
85 100
87 40.8 25.4 38.2#





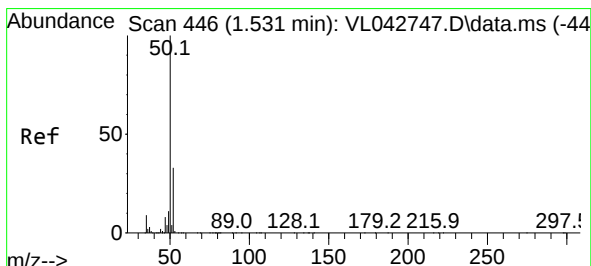
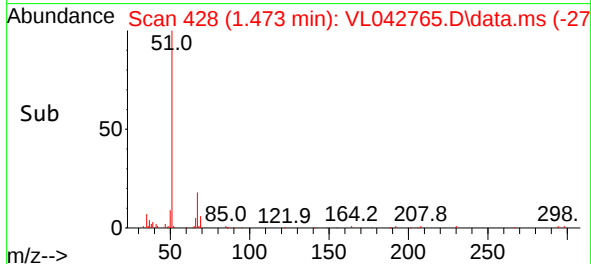
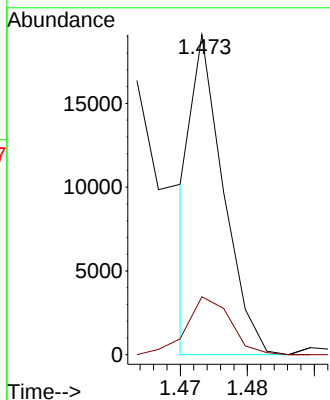
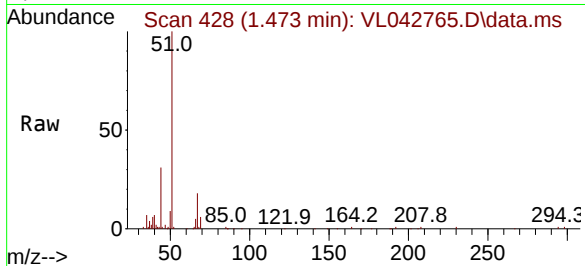
#3
Chlorodifluoromethane
Concen: 0.235 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP

Tgt Ion: 51 Resp: 616
Ion Ratio Lower Upper
51 100
67 2.2 15.0 22.6

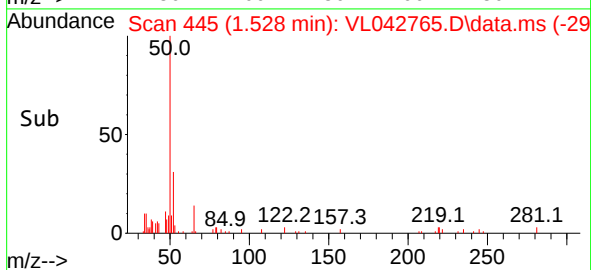
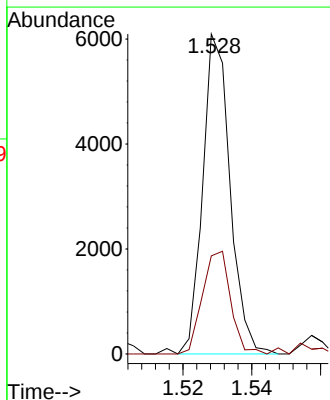
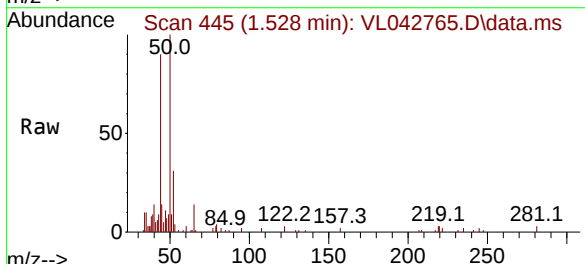
Manual Integrations
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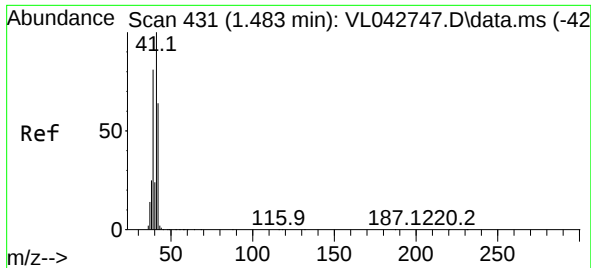
Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025



#4
Chloromethane
Concen: 0.414 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

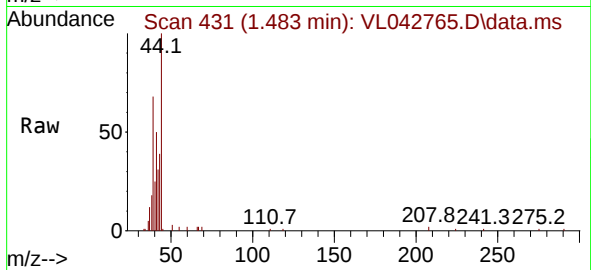
Tgt Ion: 50 Resp: 3365
Ion Ratio Lower Upper
50 100
52 30.6 26.6 40.0





#9
Propene
Concen: 0.226 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

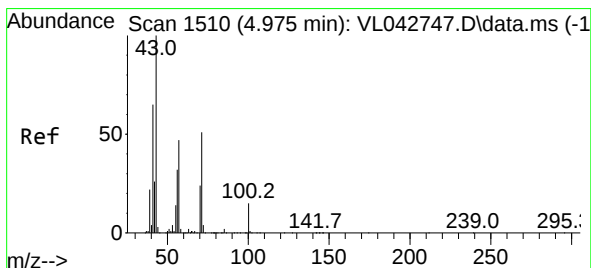
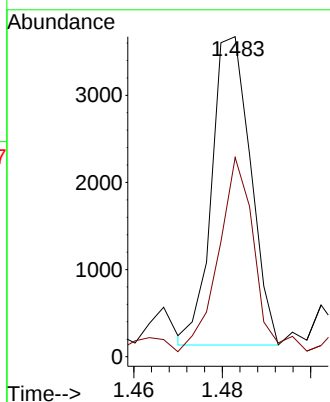
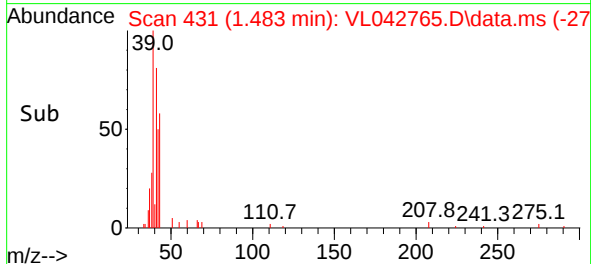
Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP



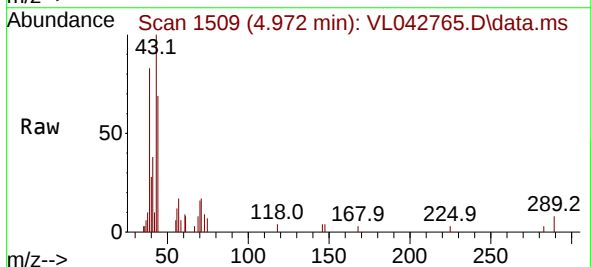
Tgt Ion: 41 Resp: 2154
Ion Ratio Lower Upper
41 100
42 66.6 53.2 79.8

Manual Integrations
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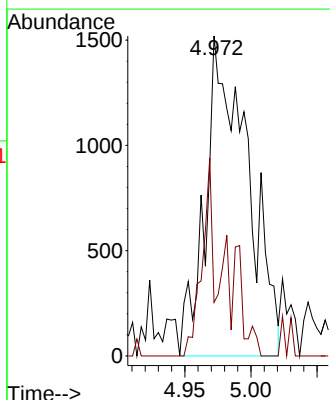
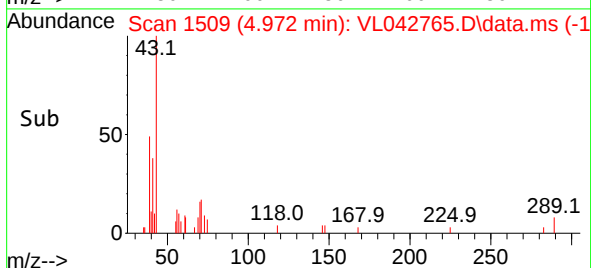
Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025

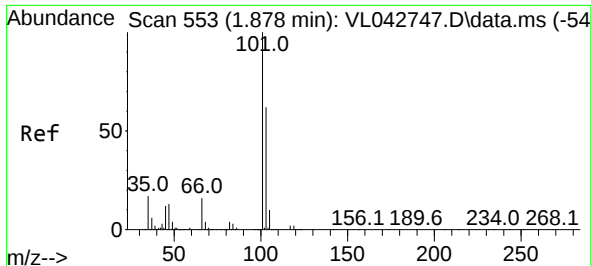


#10
Heptane
Concen: 0.130 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05



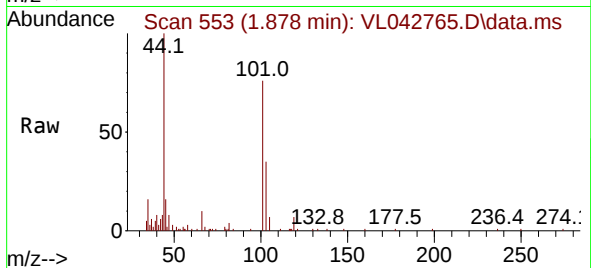
Tgt Ion: 43 Resp: 3333
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9#





#11
Trichlorofluoromethane
Concen: 0.197 ppbv m
RT: 1.878 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

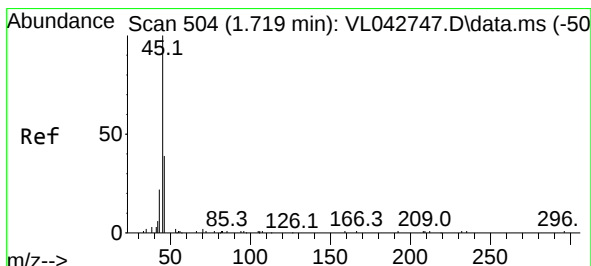
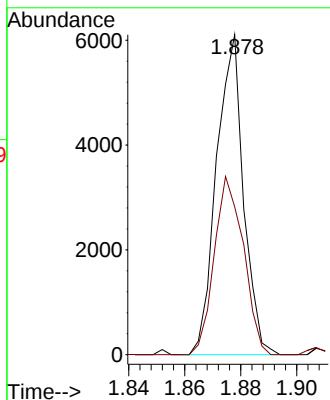
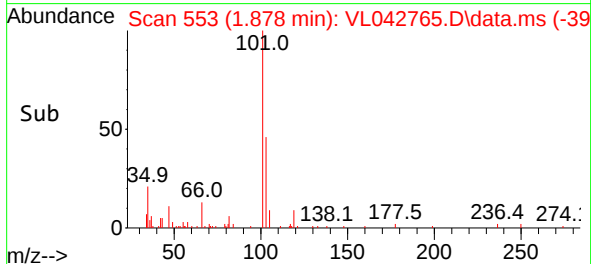
Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP



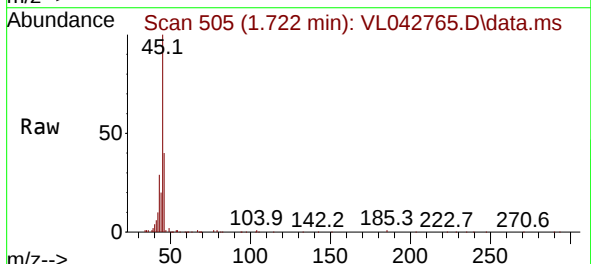
Tgt Ion:101 Resp: 407
Ion Ratio Lower Upper
101 100
103 46.2 49.6 74.4

Manual Integrations
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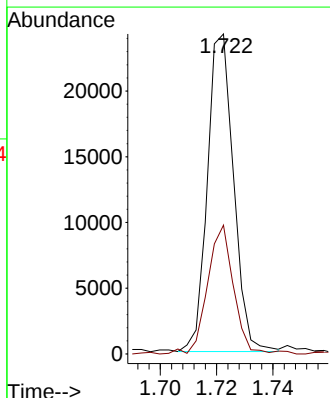
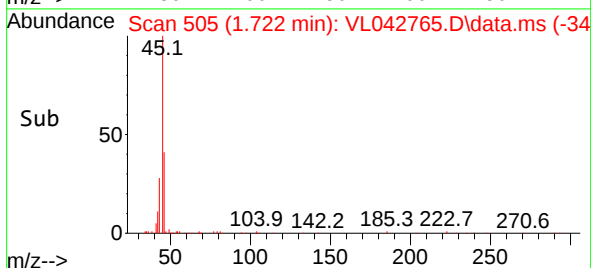
Reviewed By :Semsettin Yesilyurt 07/26/2025
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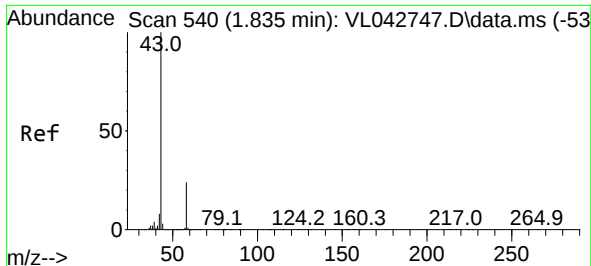


#13
Ethanol
Concen: 21.402 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05



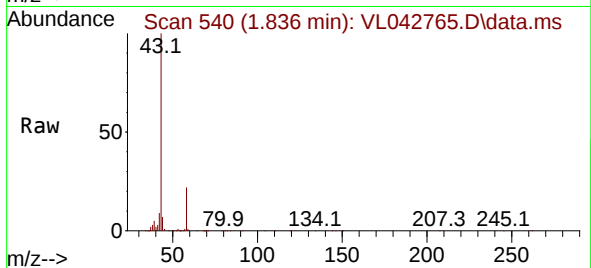
Tgt Ion: 45 Resp: 15626
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4





#15
Acetone
Concen: 4.515 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

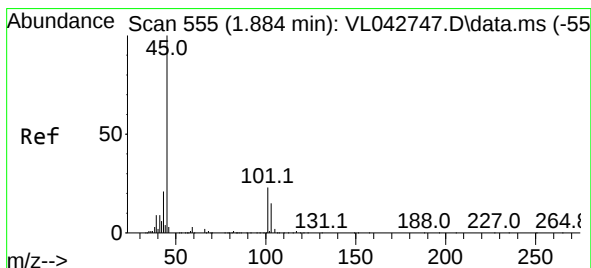
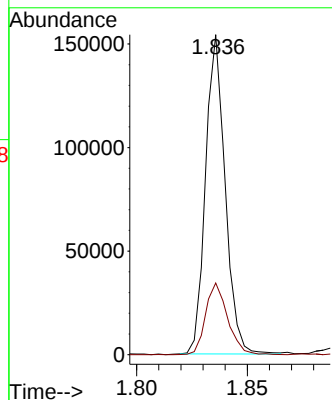
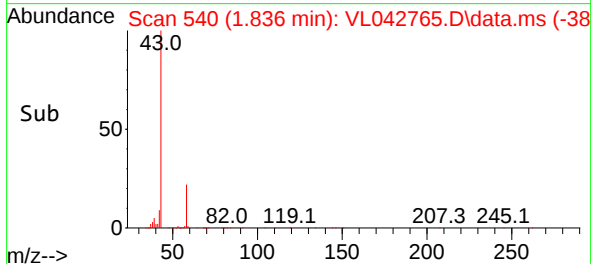
Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP



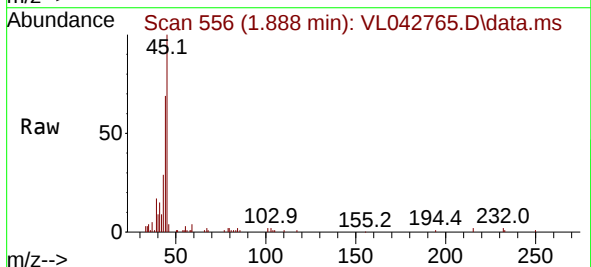
Tgt Ion: 43 Resp: 94769
Ion Ratio Lower Upper
43 100
58 25.3 19.8 29.8

Manual Integrations
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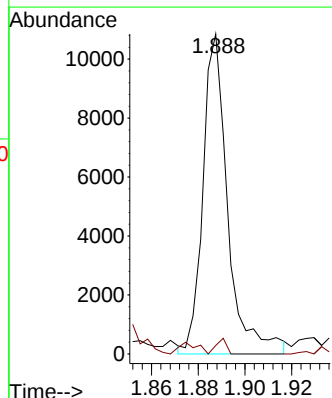
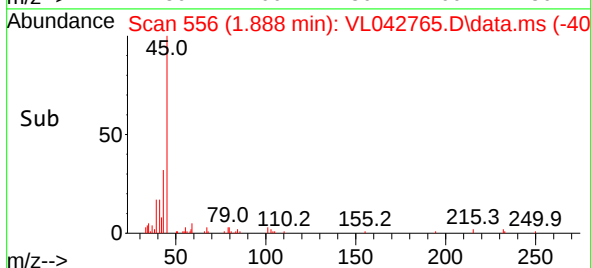
Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025

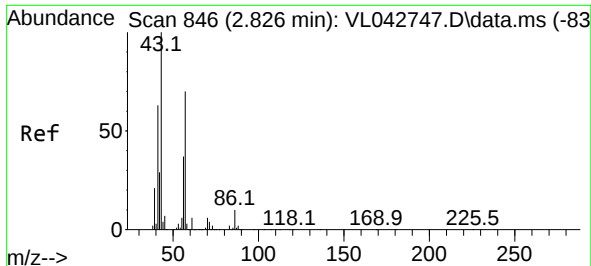


#19
Isopropyl Alcohol
Concen: 0.719 ppbv m
RT: 1.888 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05



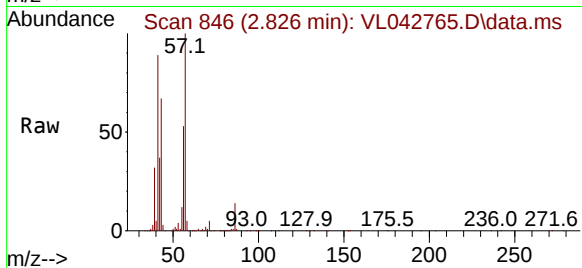
Tgt Ion: 45 Resp: 8018
Ion Ratio Lower Upper
45 100
58 0.0 30.0 45.0#





#26
Hexane
Concen: 7.711 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

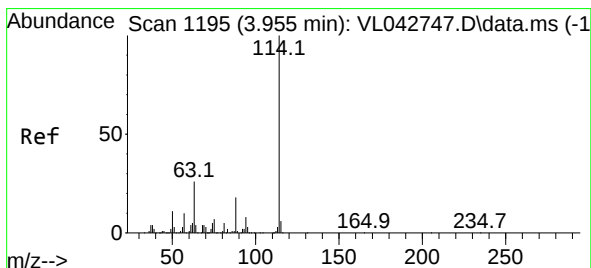
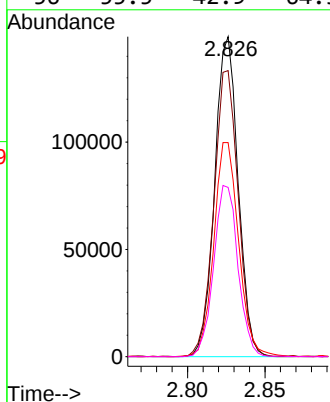
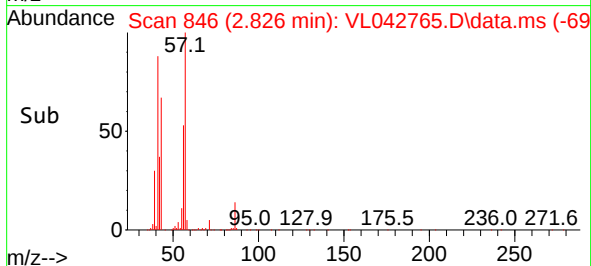
Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP



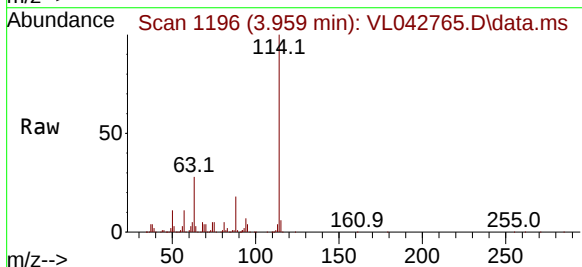
Tgt Ion: 57 Resp: 157154
Ion Ratio Lower Upper
57 100
41 93.5 75.4 113.2
43 71.1 185.0 277.6
56 55.5 42.9 64.3

Manual Integrations
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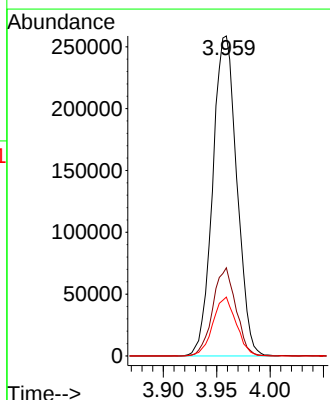
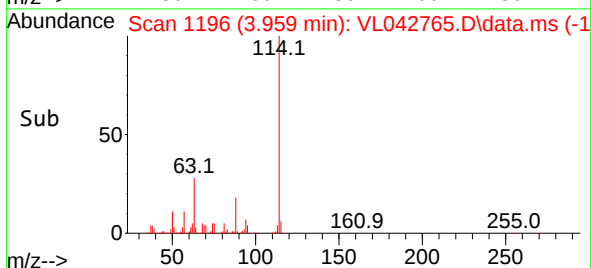
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Supervised By :Mahesh Dadoda 07/26/2025

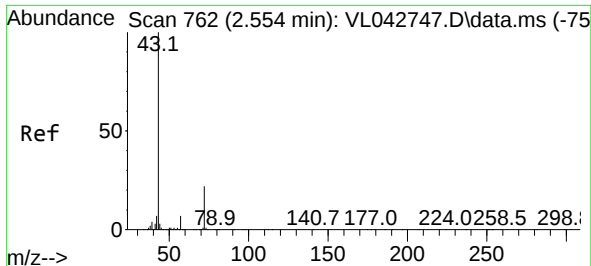


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.004 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05



Tgt Ion:114 Resp: 406880
Ion Ratio Lower Upper
114 100
63 26.5 20.5 30.7
88 17.8 14.0 21.0





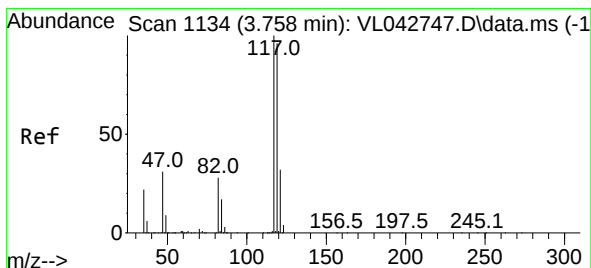
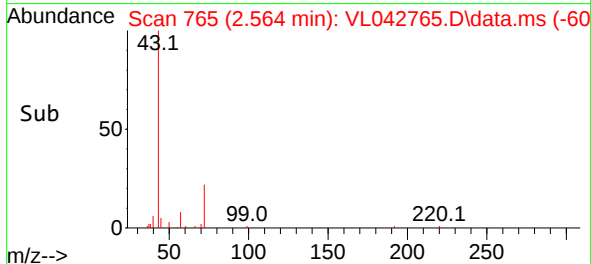
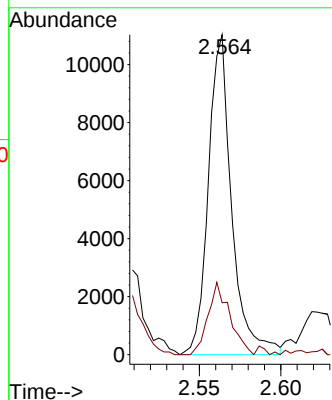
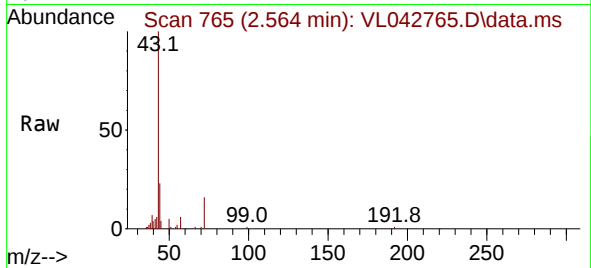
#34
2-Butanone
Concen: 0.380 ppbv
RT: 2.564 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP

Tgt Ion: 43 Resp: 1096
Ion Ratio Lower Upper
43 100
72 23.9 17.4 26.0

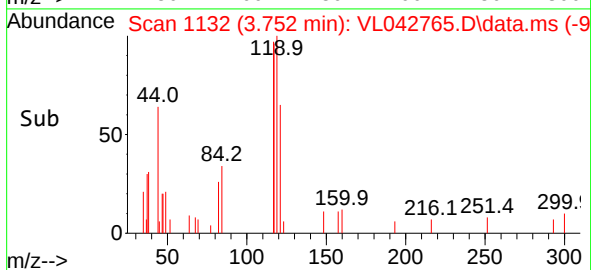
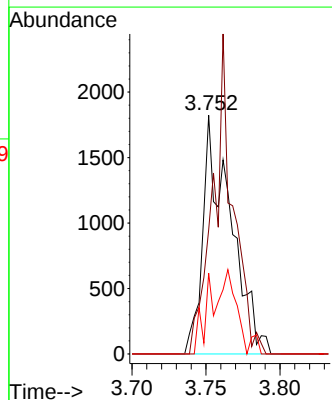
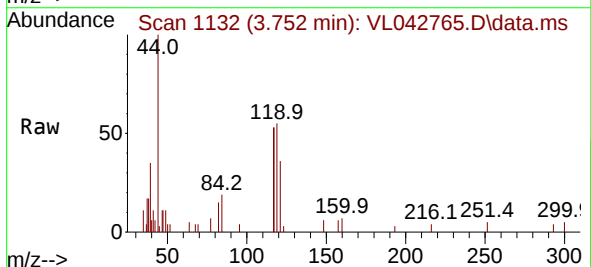
Manual Integrations
APPROVED

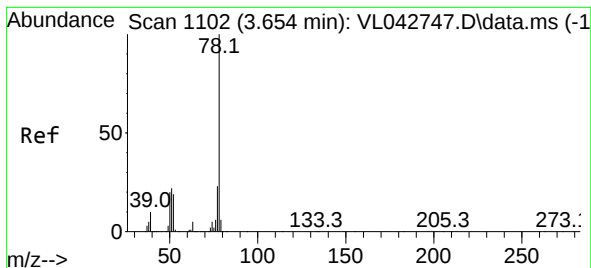
Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025



#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Tgt Ion:117 Resp: 2382
Ion Ratio Lower Upper
117 100
119 103.6 77.1 115.7
121 67.4 25.5 38.3#





#36

Benzene

Concen: 0.132 ppbv m

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042765.D

Acq: 24 Jul 2025 15:05

Instrument :

MSVOA_L

ClientSampleId :

118-AAIDUP

Tgt Ion: 78 Resp: 5099

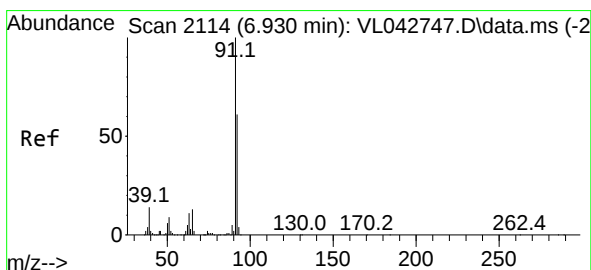
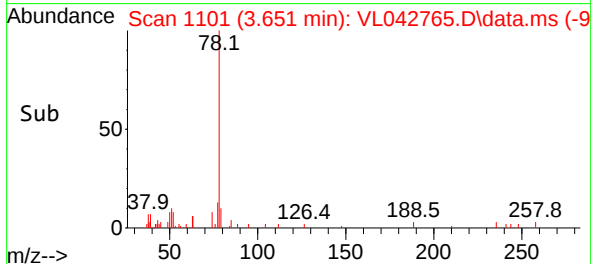
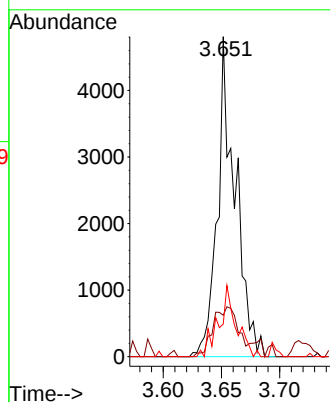
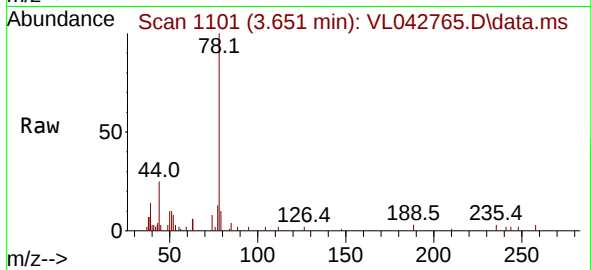
Ion	Ratio	Lower	Upper
78	100		
77	13.0	18.5	27.7
50	10.2	16.2	24.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/26/2025

Supervised By :Mahesh Dadoda 07/26/2025



#53

Toluene

Concen: 0.223 ppbv m

RT: 6.933 min Scan# 2115

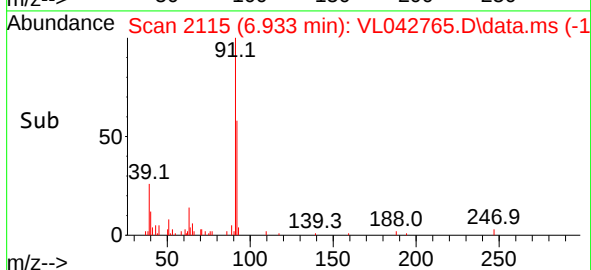
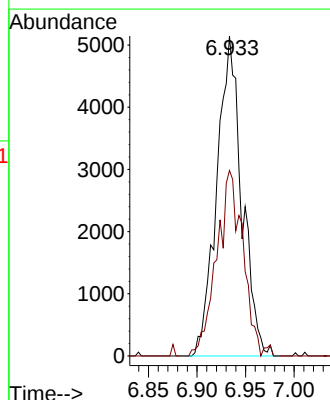
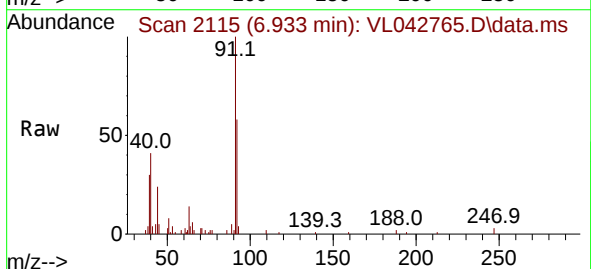
Delta R.T. 0.003 min

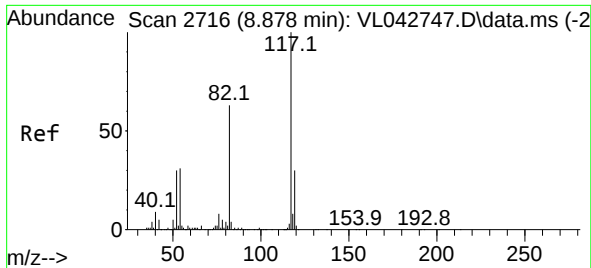
Lab File: VL042765.D

Acq: 24 Jul 2025 15:05

Tgt Ion: 91 Resp: 9247

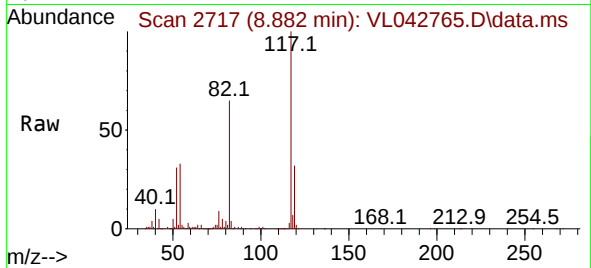
Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.0	72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

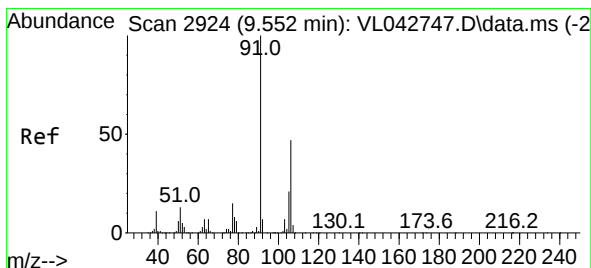
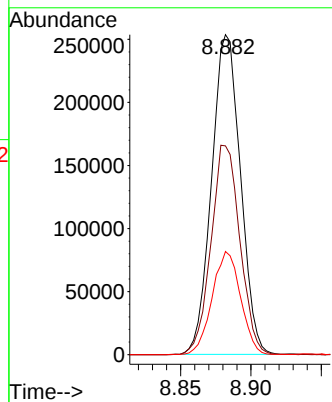
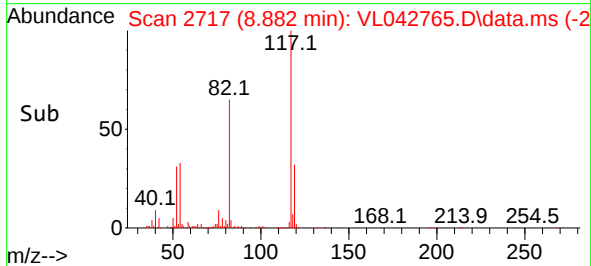
Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP



Tgt Ion:117 Resp: 361574
Ion Ratio Lower Upper
117 100
82 65.8 53.3 79.9
119 31.9 25.8 38.6

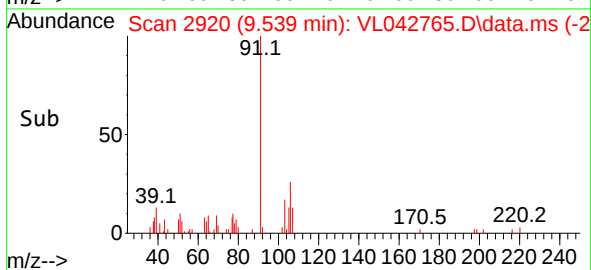
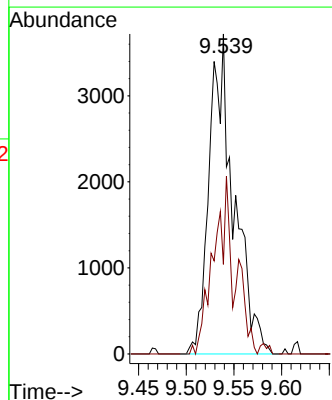
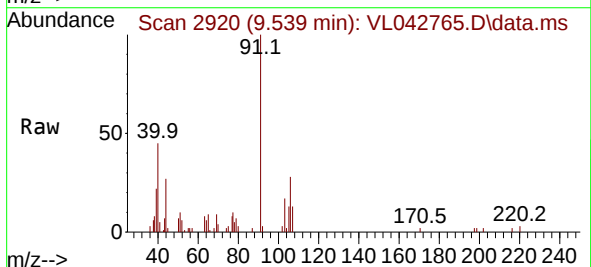
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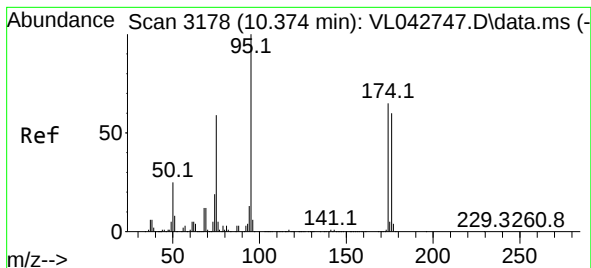
Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025



#59
m/p-Xylene
Concen: 0.146 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.013 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Tgt Ion: 91 Resp: 6680
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





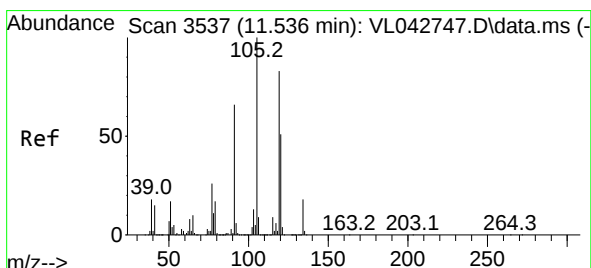
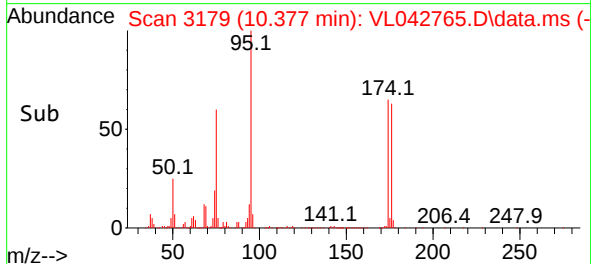
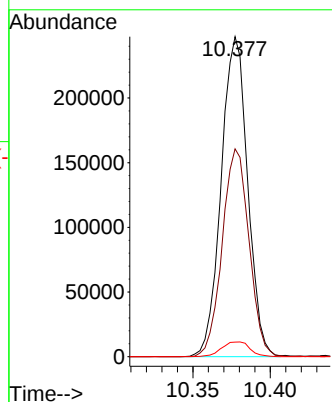
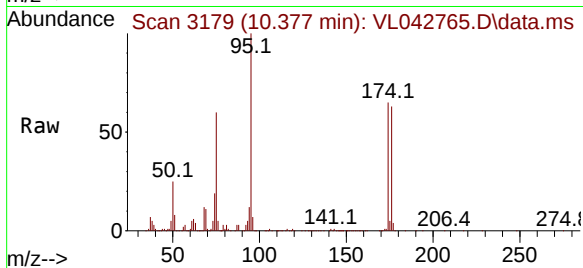
#68
1-Bromo-4-Fluorobenzene
Concen: 10.257 ppbv
RT: 10.377 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Instrument :
MSVOA_L
ClientSampleId :
118-AAIDUP

Tgt Ion: 95 Resp: 29371
Ion Ratio Lower Upper
95 100
174 65.8 53.8 80.6
175 5.0 4.0 6.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2025
Supervised By :Mahesh Dadoda 07/26/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.171 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042765.D
Acq: 24 Jul 2025 15:05

Tgt Ion:105 Resp: 8363
Ion Ratio Lower Upper
105 100
120 38.3 40.8 61.2#
91 12.2 53.0 79.4#
77 15.6 20.5 30.7#

