

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042767.D
 Acq On : 24 Jul 2025 16:17
 Operator : SY/MD
 Sample : Q2671-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 118-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/25/2025
 Supervised By :Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 01:28:36 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	2.790	49	149110	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	411819	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	377399	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	300204	10.044	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7879	0.400	ppbv	97
4) Chloromethane	1.534	50	4426	0.555	ppbv #	84
9) Propene	1.489	41	343573m	36.809	ppbv	
10) Heptane	4.991	43	8280m	0.329	ppbv	
11) Trichlorofluoromethane	1.881	101	4048	0.199	ppbv	86
13) Ethanol	1.725	45	878523	1291.503	ppbv	92
15) Acetone	1.839	43	478727	23.251	ppbv	99
19) Isopropyl Alcohol	1.890	45	284464	25.998	ppbv	94
26) Hexane	2.832	57	171539	8.580	ppbv #	53
29) Chloroform	2.852	83	14358	0.465	ppbv	94
32) 1,1,1-Trichloroethane	3.373	97	6414	0.199	ppbv #	86
34) 2-Butanone	2.564	43	19454	0.667	ppbv	94
35) Carbon Tetrachloride	3.771	117	2861m	0.094	ppbv	
36) Benzene	3.664	78	8384m	0.215	ppbv	
37) 1,2-Dichloroethane	3.224	62	9737	0.414	ppbv	98
52) Tetrachloroethene	8.241	164	2682m	0.166	ppbv	
53) Toluene	6.946	91	33987	0.811	ppbv	99
59) m/p-Xylene	9.539	91	11567m	0.243	ppbv	
60) o-Xylene	9.969	91	5451	0.115	ppbv	100
61) Styrene	9.878	104	3503m	0.175	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	8935	0.175	ppbv #	62
79) Naphthalene	13.520	128	2772m	0.483	ppbv	

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

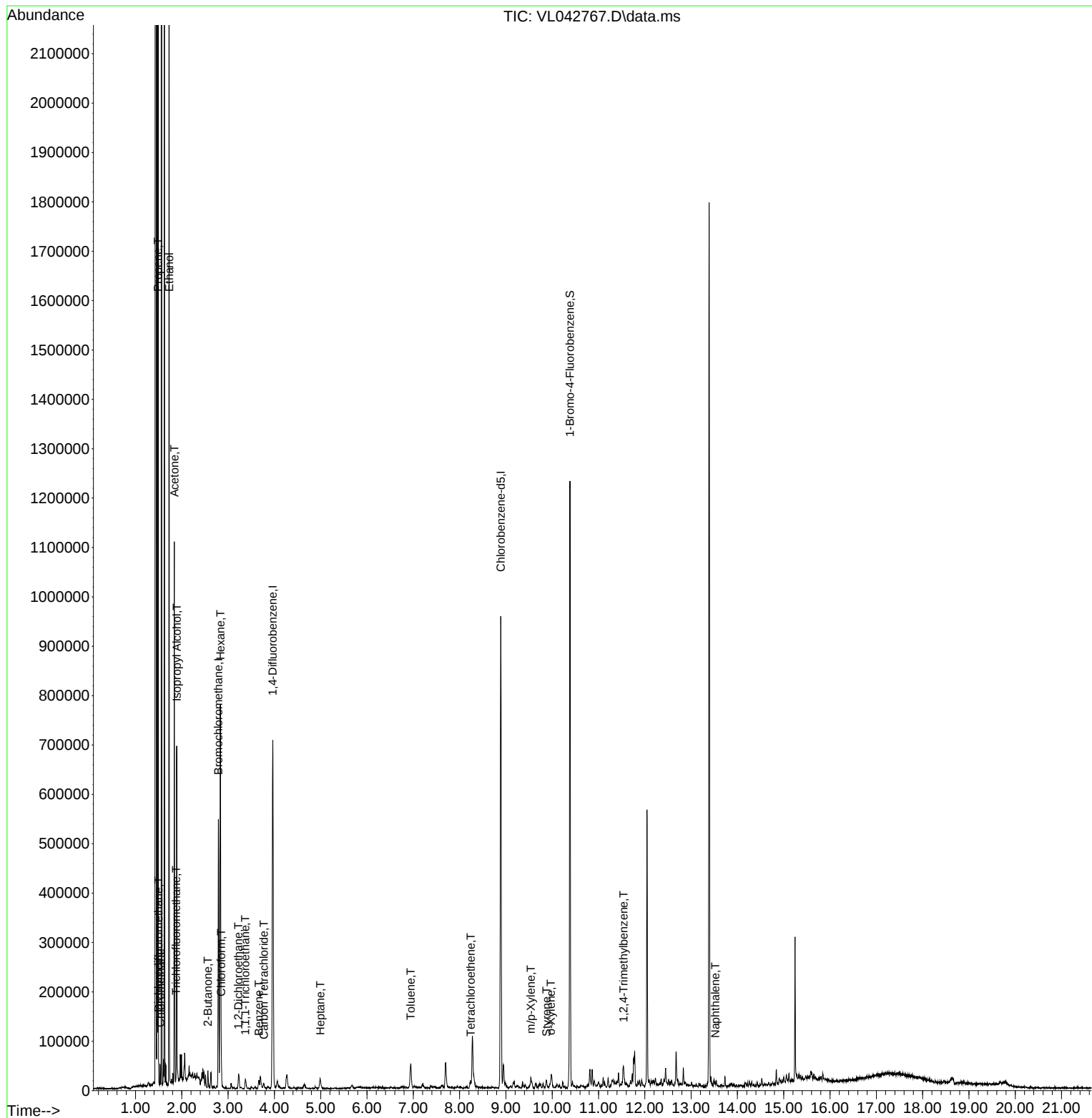
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
Data File : VL042767.D
Acq On : 24 Jul 2025 16:17
Operator : SY/MD
Sample : Q2671-02
Misc : 400mL/MSVOA_L
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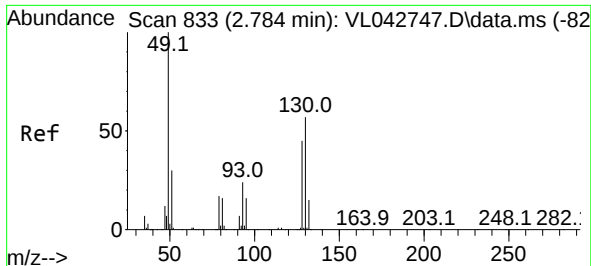
Instrument :
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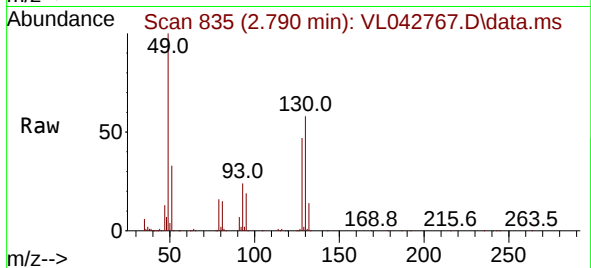
Quant Time: Jul 25 01:28:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

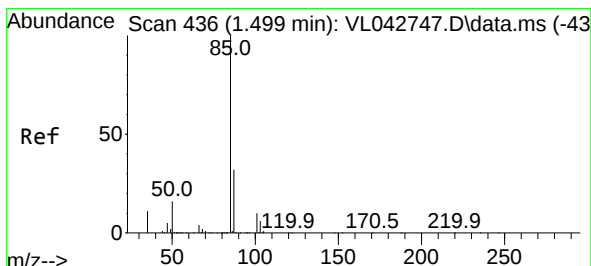
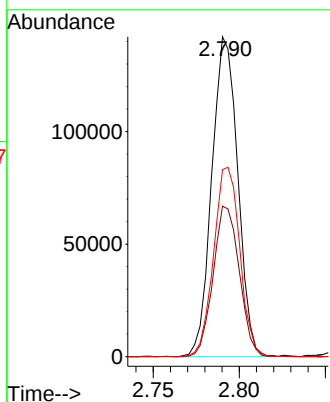
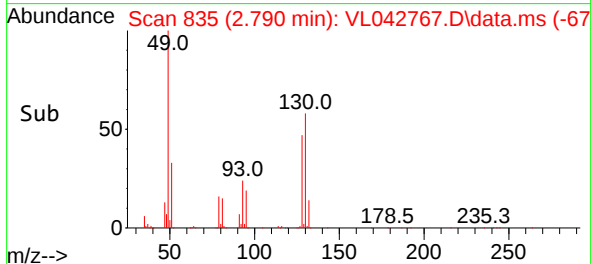
Instrument :
MSVOA_L
ClientSampleId :
118-IA-1



Tgt Ion: 49 Resp: 149110
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 59.8 30.3 90.8

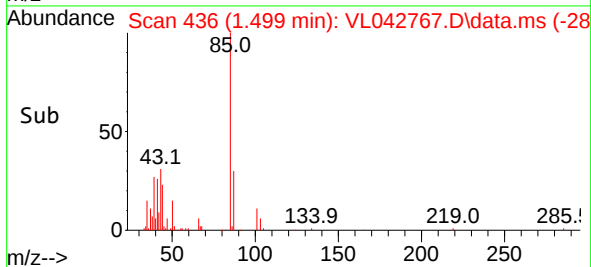
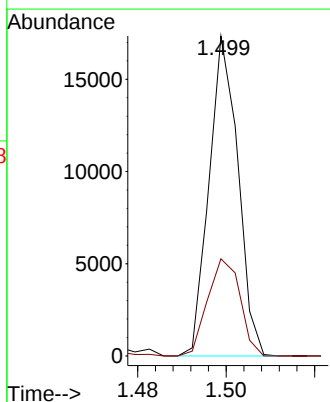
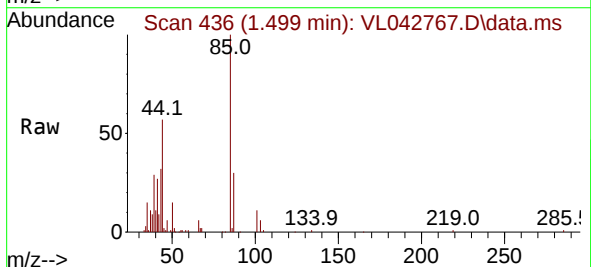
Manual Integrations
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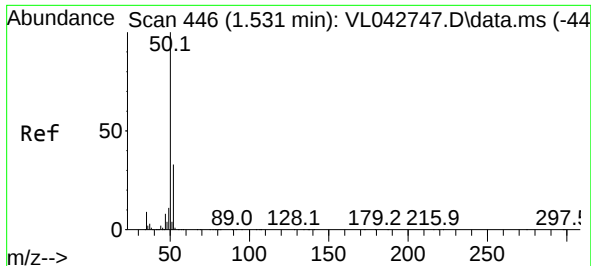
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 85 Resp: 7879
Ion Ratio Lower Upper
85 100
87 30.4 25.4 38.2





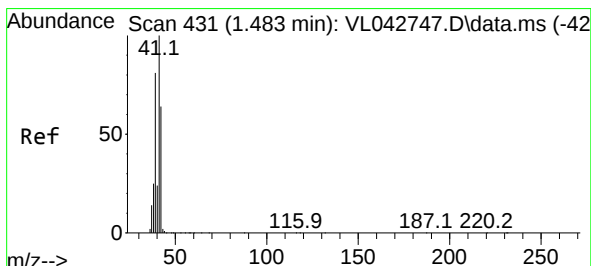
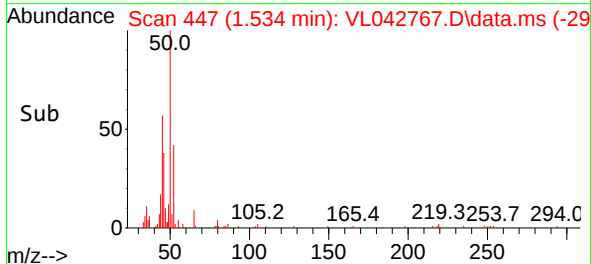
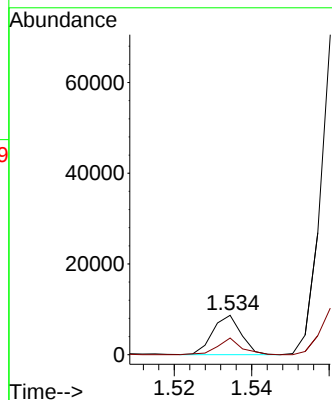
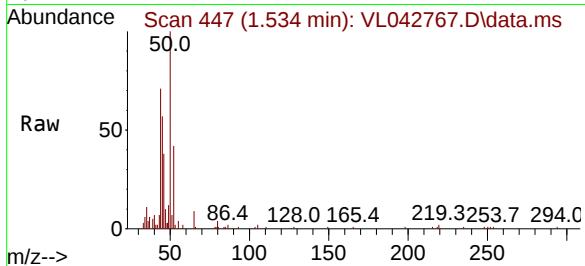
#4
Chloromethane
Concen: 0.555 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
118-IA-1

Tgt Ion: 50 Resp: 4420
Ion Ratio Lower Upper
50 100
52 42.3 26.6 40.0

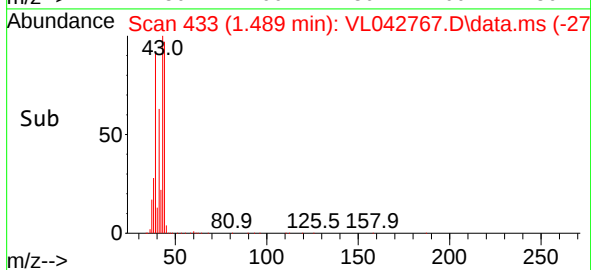
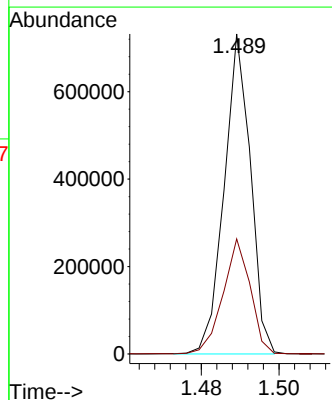
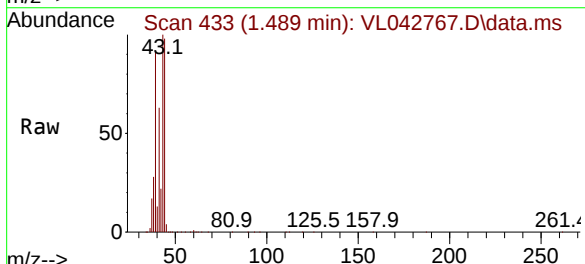
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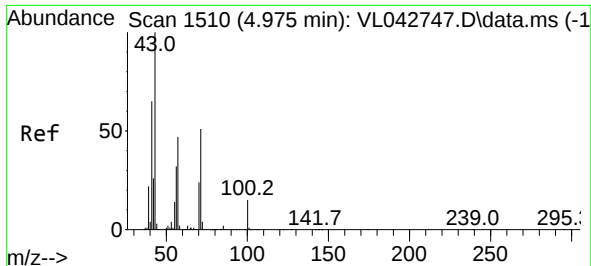
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#9
Propene
Concen: 36.809 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

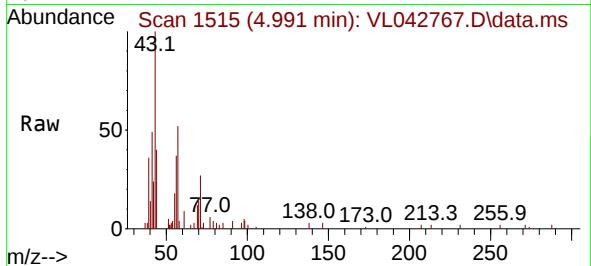
Tgt Ion: 41 Resp: 343573
Ion Ratio Lower Upper
41 100
42 282.9 53.2 79.8





#10
Heptane
Concen: 0.329 ppbv m
RT: 4.991 min Scan# 111
Delta R.T. 0.016 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

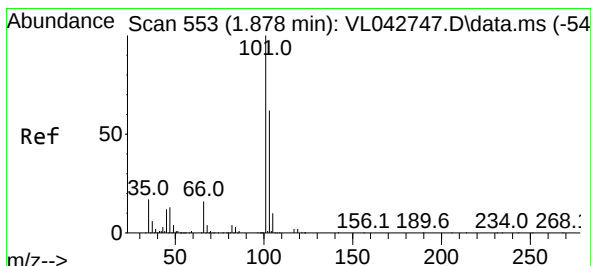
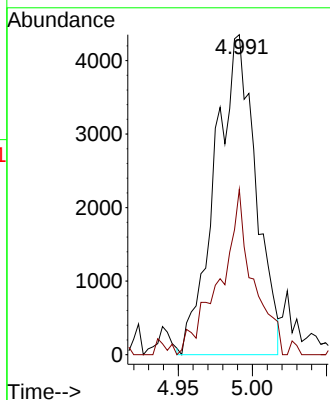
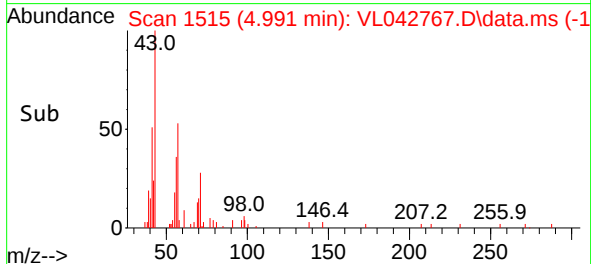
Instrument :
MSVOA_L
ClientSampleId :
118-IA-1



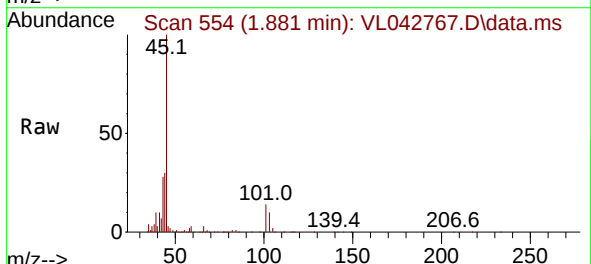
Tgt Ion: 43 Resp: 8280
Ion Ratio Lower Upper
43 100
57 43.9 39.9 59.9

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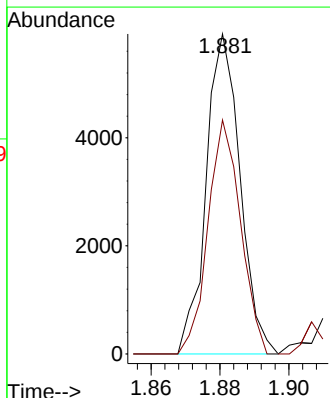
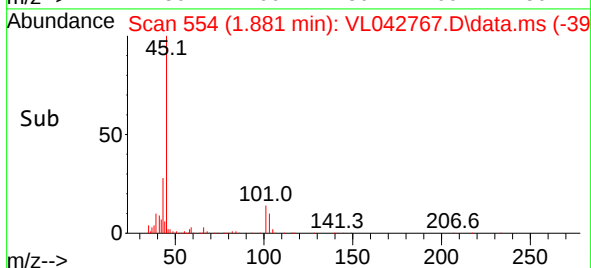
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

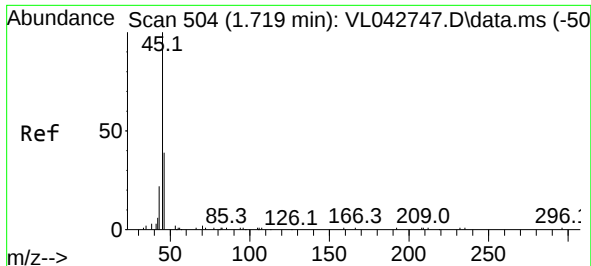


#11
Trichlorofluoromethane
Concen: 0.199 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17



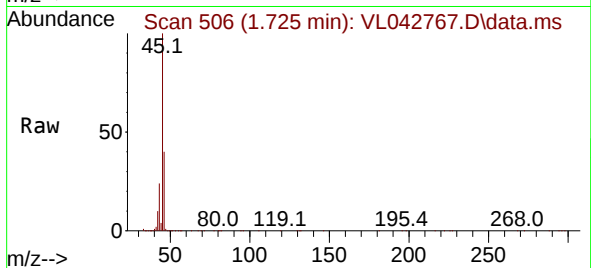
Tgt Ion:101 Resp: 4048
Ion Ratio Lower Upper
101 100
103 73.1 49.6 74.4





#13
Ethanol
Concen: 1291.503 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

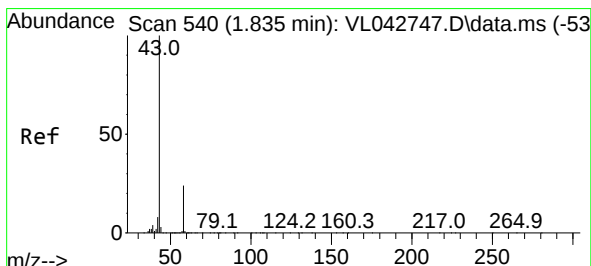
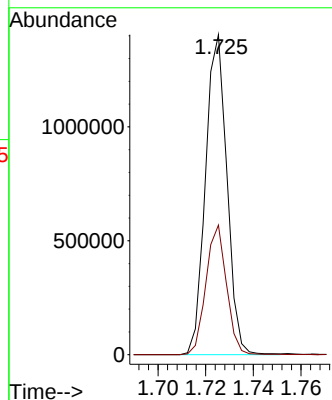
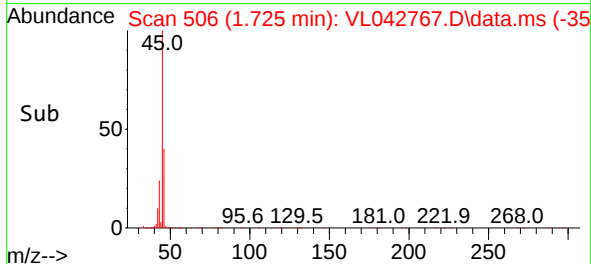
Instrument :
MSVOA_L
ClientSampleId :
118-IA-1



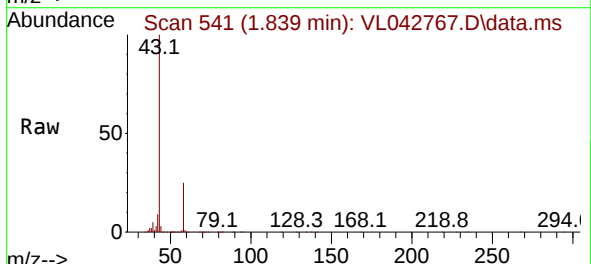
Tgt Ion: 45 Resp: 878523
Ion Ratio Lower Upper
45 100
46 39.1 17.8 71.4

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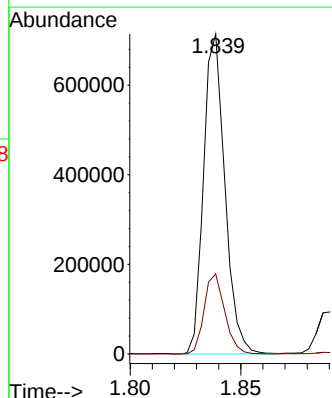
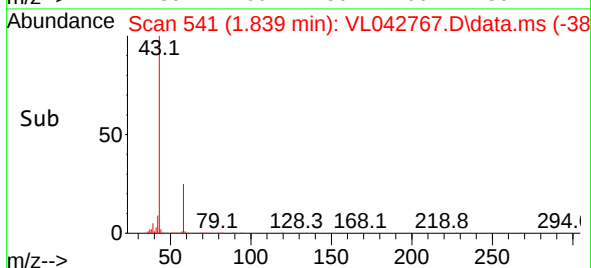
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

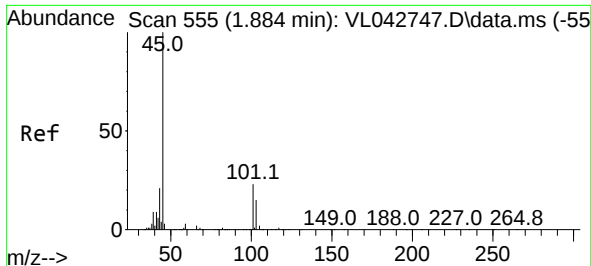


#15
Acetone
Concen: 23.251 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17



Tgt Ion: 43 Resp: 478727
Ion Ratio Lower Upper
43 100
58 24.3 19.8 29.8





#19

Isopropyl Alcohol

Concen: 25.998 ppbv

RT: 1.890 min Scan# 511

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

118-IA-1

Tgt Ion: 45 Resp: 284464

Ion Ratio Lower Upper

45 100

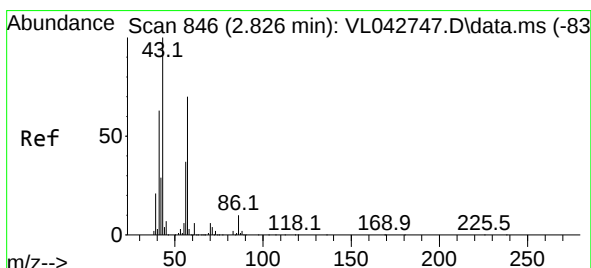
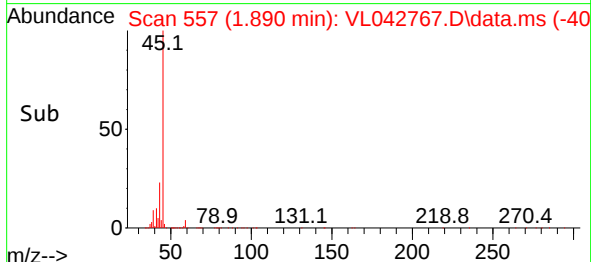
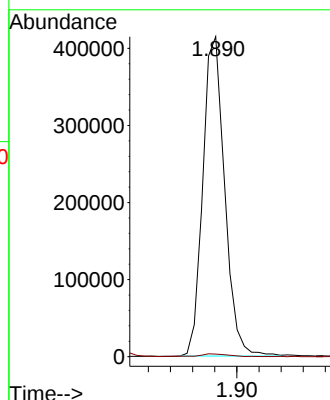
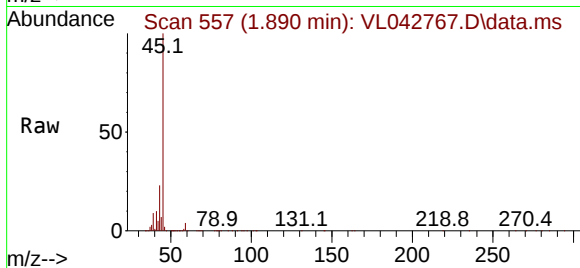
58 40.9 30.0 45.0

Manual Integrations

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Supervised By :Mahesh Dadoda 07/25/2025



#26

Hexane

Concen: 8.580 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion: 57 Resp: 171539

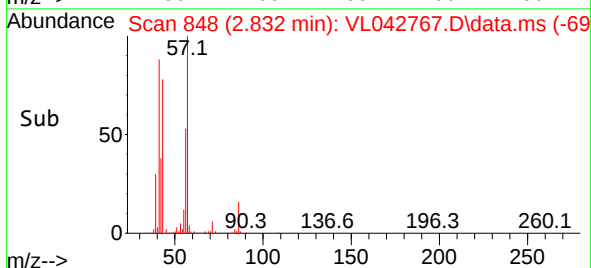
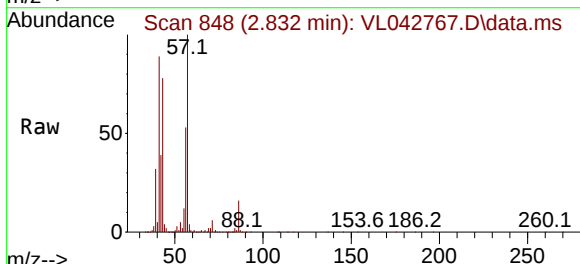
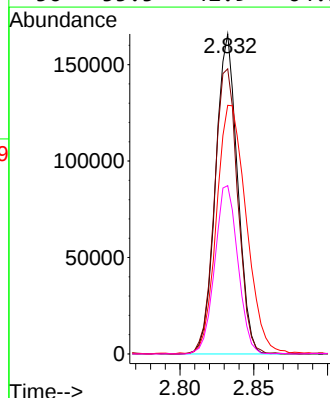
Ion Ratio Lower Upper

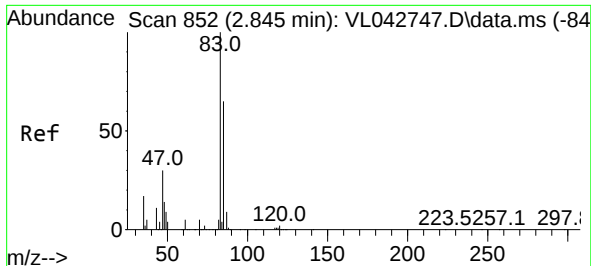
57 100

41 95.5 75.4 113.2

43 105.8 185.0 277.6#

56 55.5 42.9 64.3





#29

Chloroform

Concen: 0.465 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

118-IA-1

Tgt Ion: 83 Resp: 1435

Ion Ratio Lower Upper

83 100

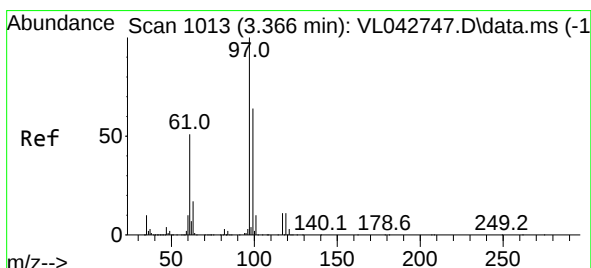
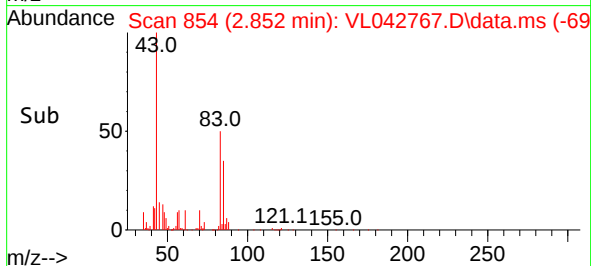
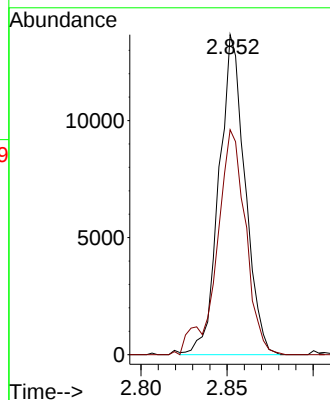
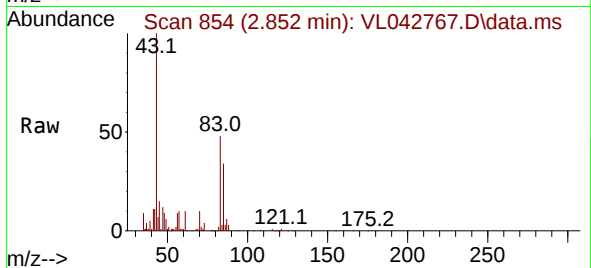
85 70.3 52.2 78.2

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 0.199 ppbv

RT: 3.373 min Scan# 1015

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

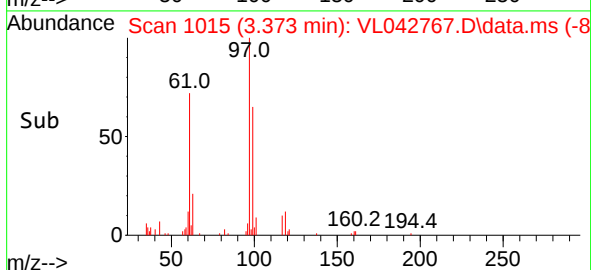
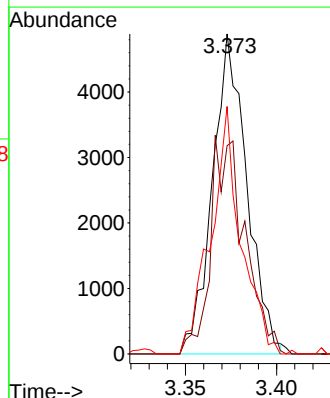
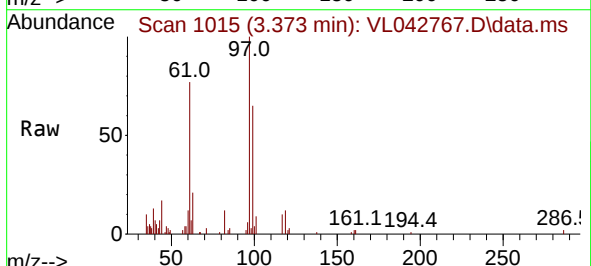
Tgt Ion: 97 Resp: 6414

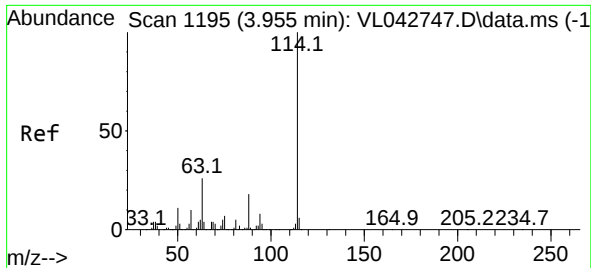
Ion Ratio Lower Upper

97 100

99 67.3 51.0 76.6

61 68.5 40.9 61.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

118-IA-1

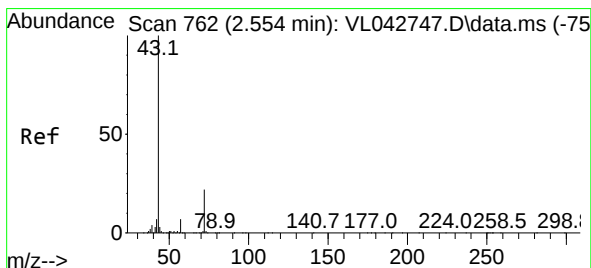
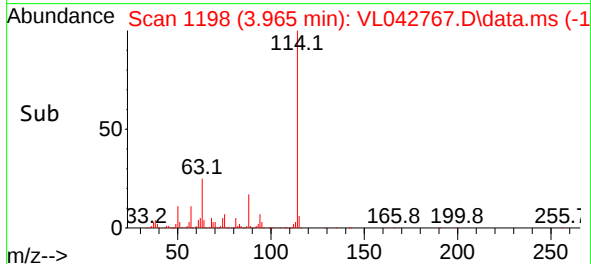
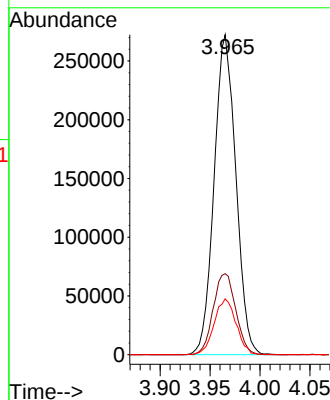
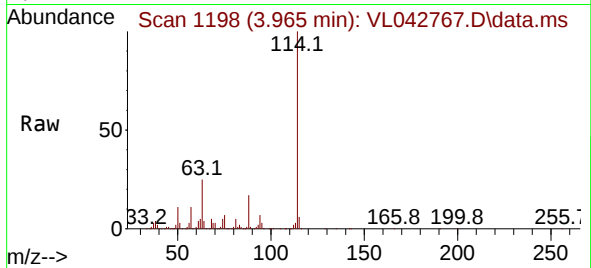
Tgt Ion:114 Resp: 411819
 Ion Ratio Lower Upper
 114 100
 63 26.3 20.5 30.7
 88 17.7 14.0 21.0

Manual Integrations

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Supervised By :Mahesh Dadoda 07/25/2025



#34

2-Butanone

Concen: 0.667 ppbv

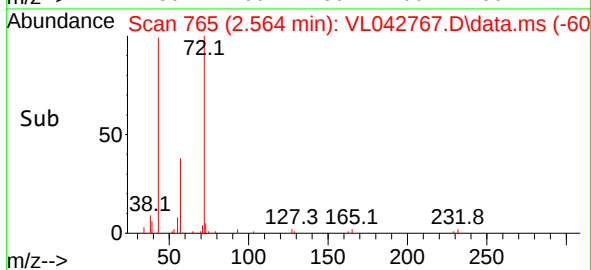
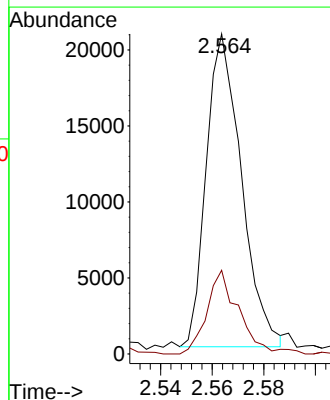
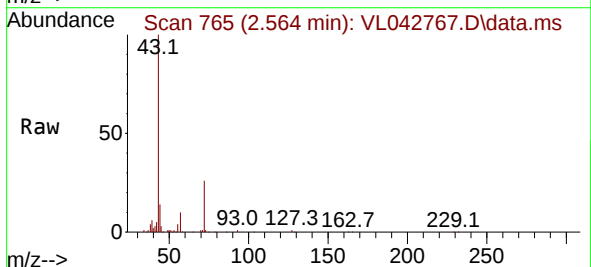
RT: 2.564 min Scan# 765

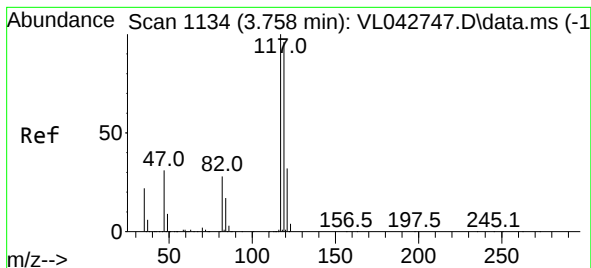
Delta R.T. 0.010 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion: 43 Resp: 19454
 Ion Ratio Lower Upper
 43 100
 72 24.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.094 ppbv m

RT: 3.771 min Scan# 1138

Delta R.T. 0.013 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

118-IA-1

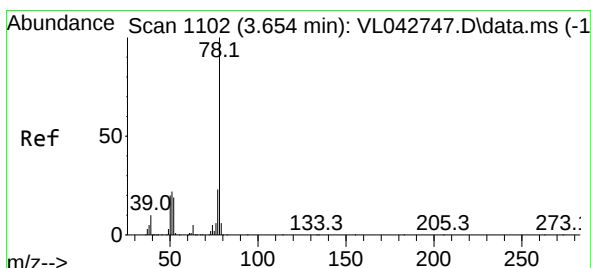
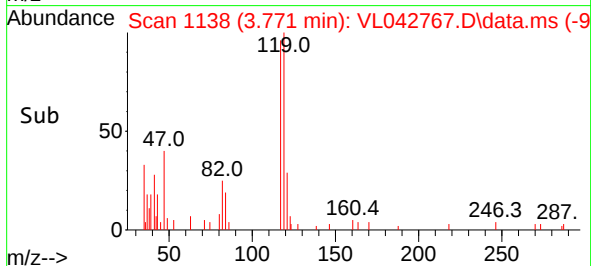
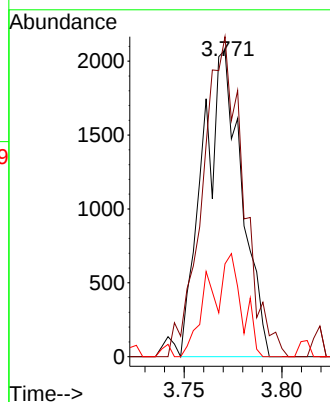
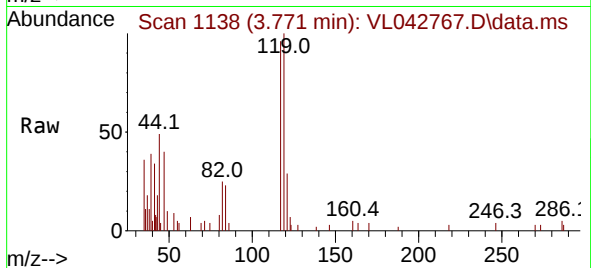
Tgt Ion:	117	Resp:	286
Ion	Ratio	Lower	Upper
117	100		
119	104.4	77.1	115.7
121	30.3	25.5	38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#36

Benzene

Concen: 0.215 ppbv m

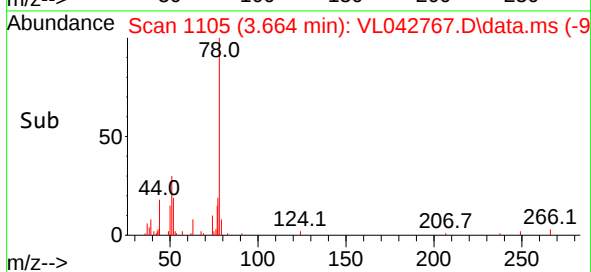
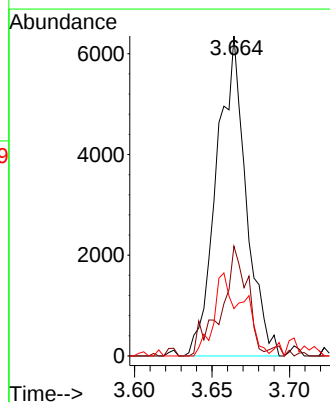
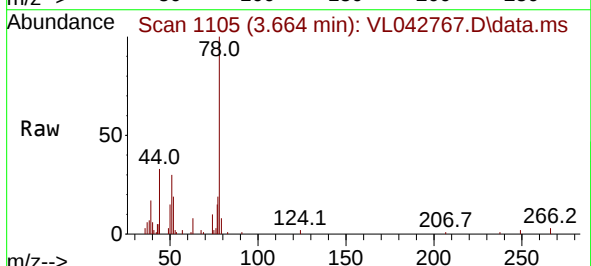
RT: 3.664 min Scan# 1105

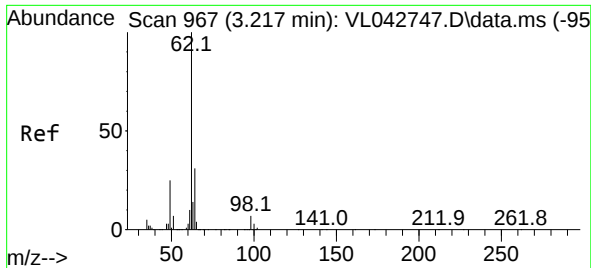
Delta R.T. 0.010 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion:	78	Resp:	8384
Ion	Ratio	Lower	Upper
78	100		
77	18.8	18.5	27.7
50	14.8	16.2	24.2





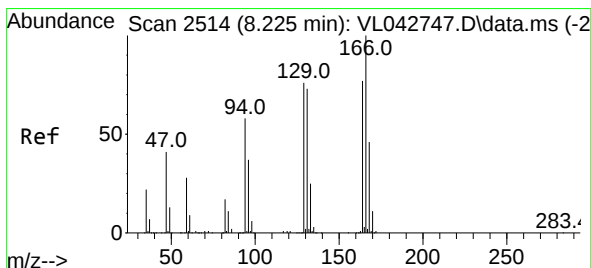
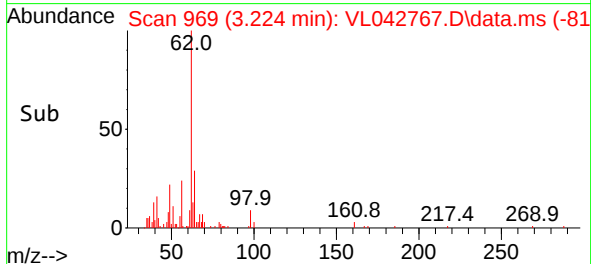
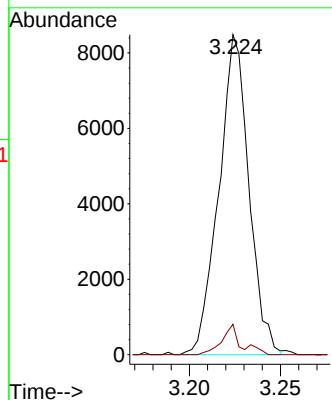
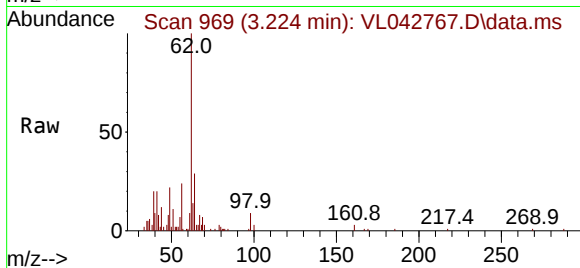
#37
1,2-Dichloroethane
Concen: 0.414 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
118-IA-1

Tgt Ion: 62 Resp: 973
Ion Ratio Lower Upper
62 100
98 5.9 5.2 7.8

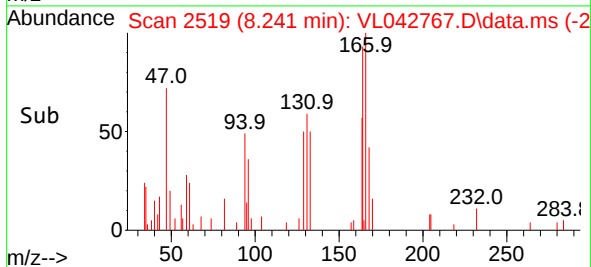
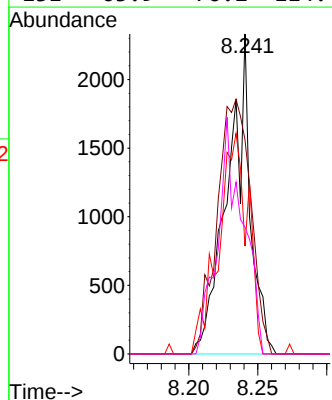
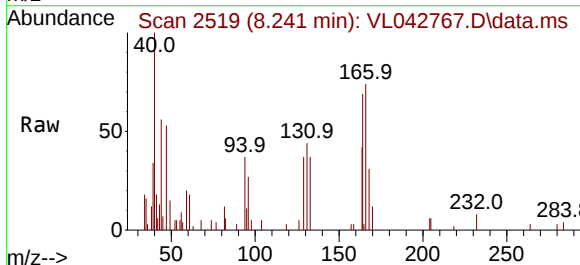
Manual Integrations
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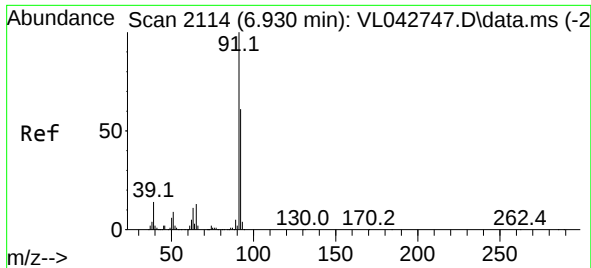
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#52
Tetrachloroethene
Concen: 0.166 ppbv m
RT: 8.241 min Scan# 2519
Delta R.T. 0.016 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion:164 Resp: 2682
Ion Ratio Lower Upper
164 100
166 107.8 104.0 156.0
129 54.3 79.2 118.8#
131 63.9 76.2 114.4#





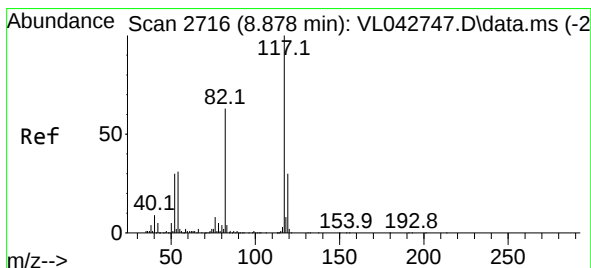
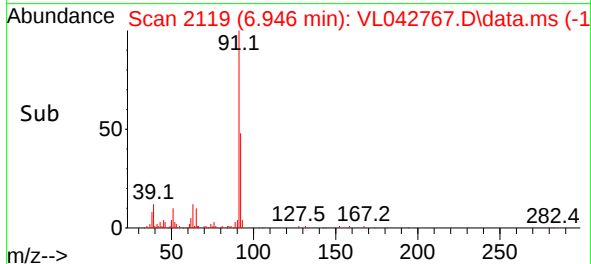
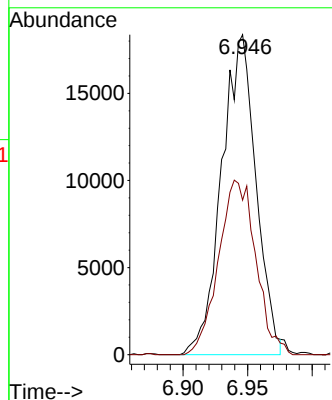
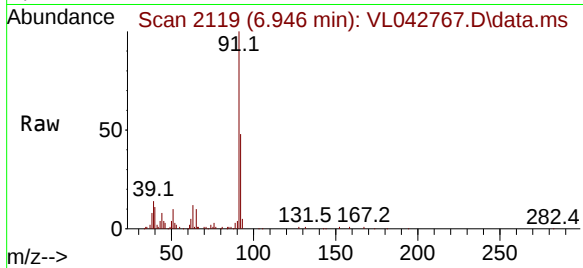
#53
Toluene
Concen: 0.811 ppbv
RT: 6.946 min Scan# 2114
Delta R.T. 0.016 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
118-IA-1

Tgt Ion: 91 Resp: 3398
Ion Ratio Lower Upper
91 100
92 59.2 48.0 72.0

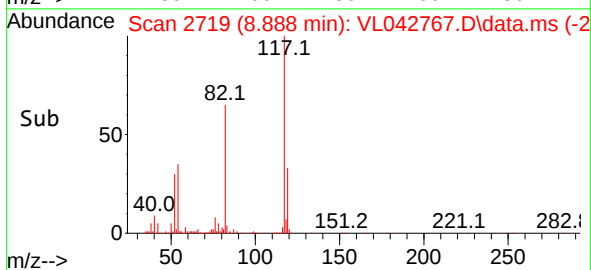
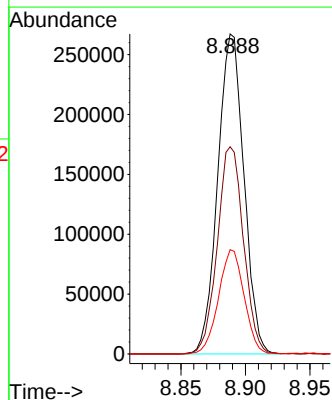
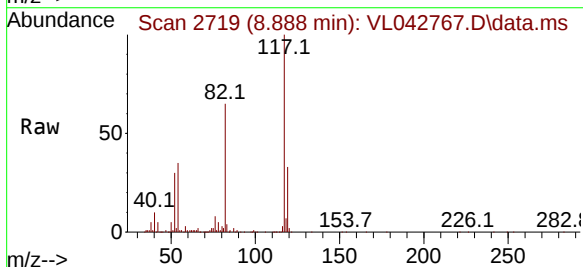
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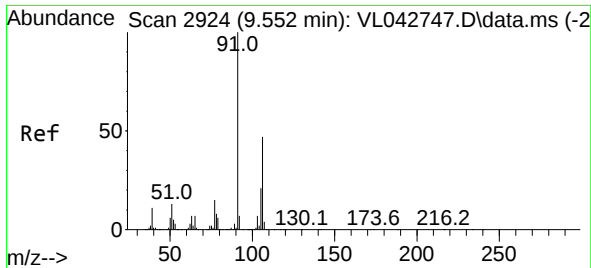
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion:117 Resp: 377399
Ion Ratio Lower Upper
117 100
82 64.7 53.3 79.9
119 32.0 25.8 38.6





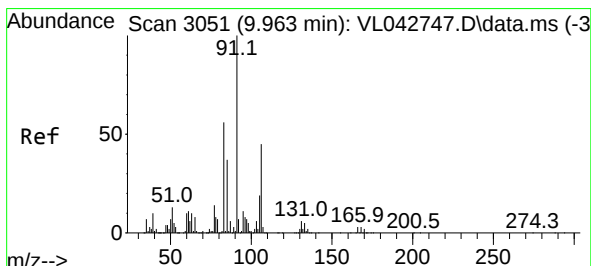
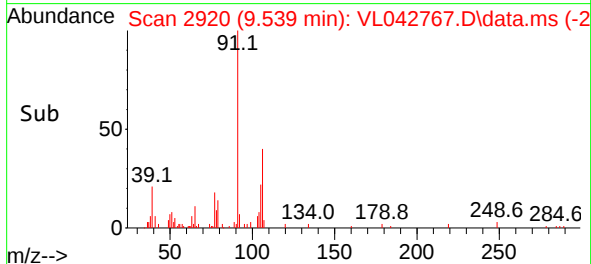
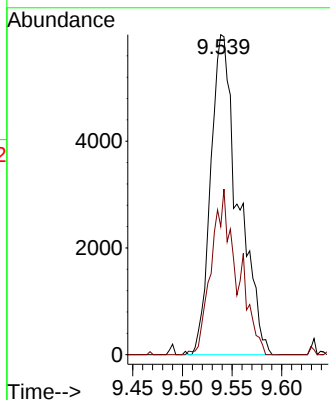
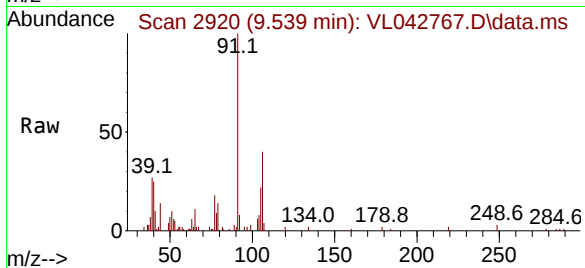
#59
m/p-Xylene
Concen: 0.243 ppbv m
RT: 9.539 min Scan# 2924
Delta R.T. -0.013 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
118-IA-1

Tgt Ion: 91 Resp: 1156
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

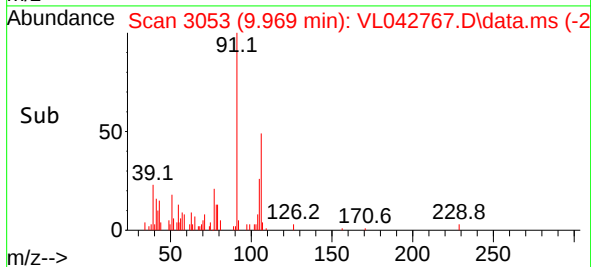
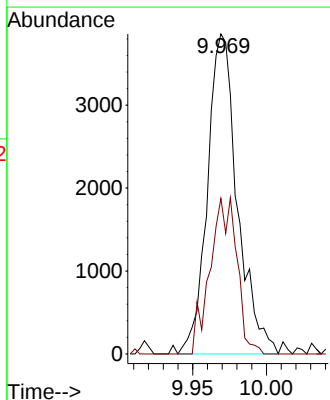
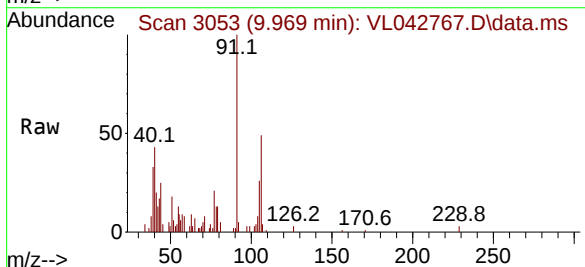
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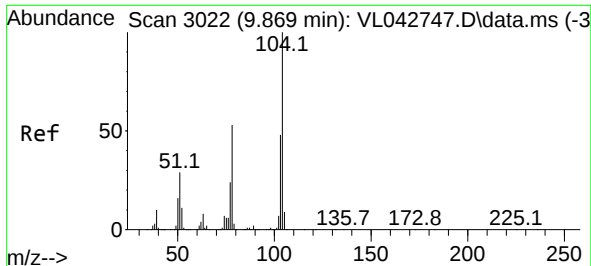
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#60
o-Xylene
Concen: 0.115 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 91 Resp: 5451
Ion Ratio Lower Upper
91 100
106 43.9 22.0 66.0





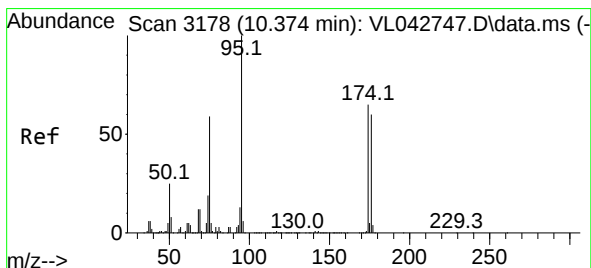
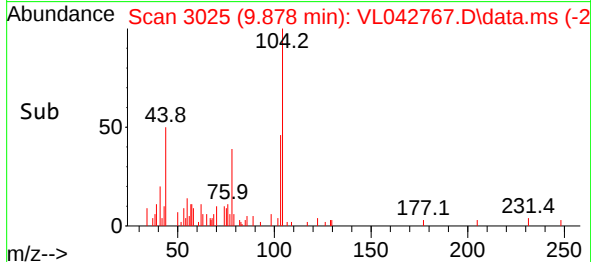
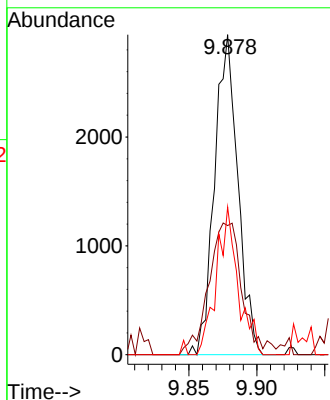
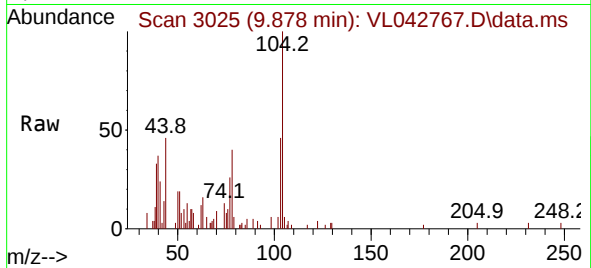
#61
Styrene
Concen: 0.175 ppbv m
RT: 9.878 min Scan# 3022
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
118-IA-1

Tgt Ion:104 Resp: 3500
Ion Ratio Lower Upper
104 100
78 0.0 41.5 62.3
103 0.0 37.5 56.3

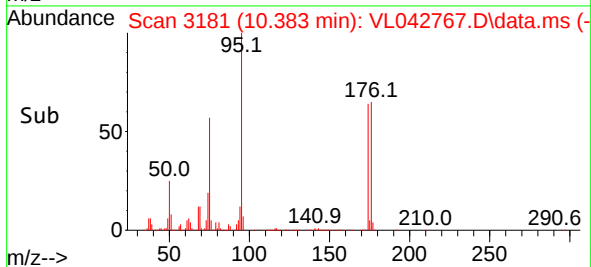
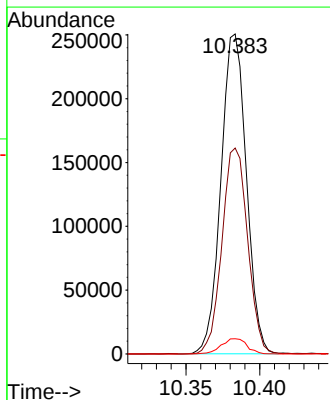
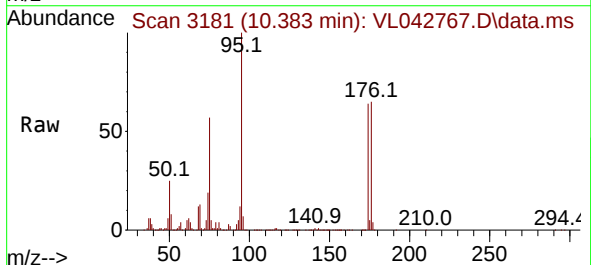
Manual Integrations
APPROVED

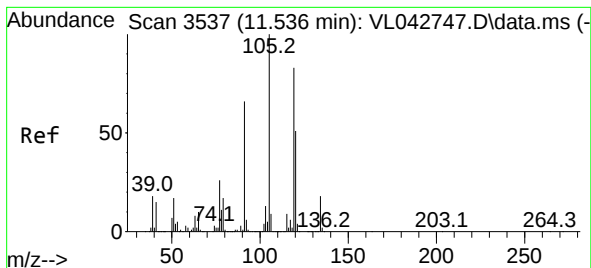
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.044 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 95 Resp: 300204
Ion Ratio Lower Upper
95 100
174 65.3 53.8 80.6
175 4.8 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.175 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

118-IA-1

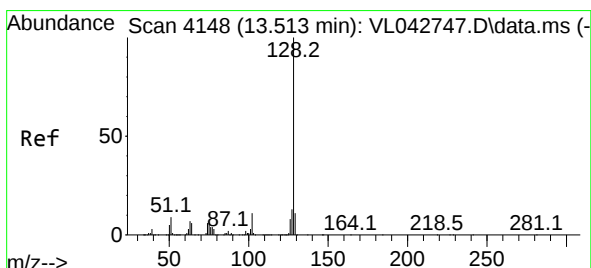
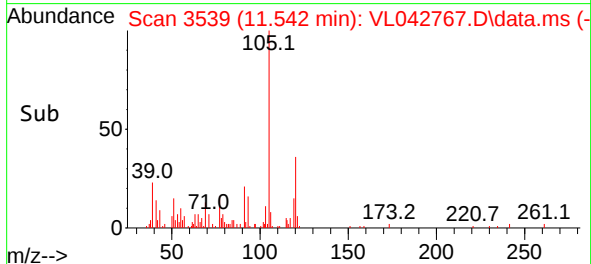
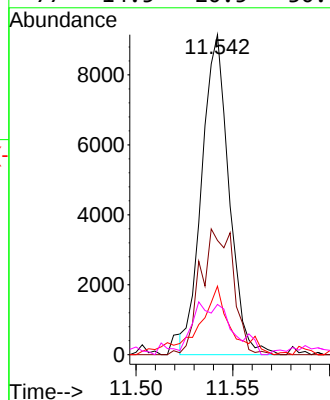
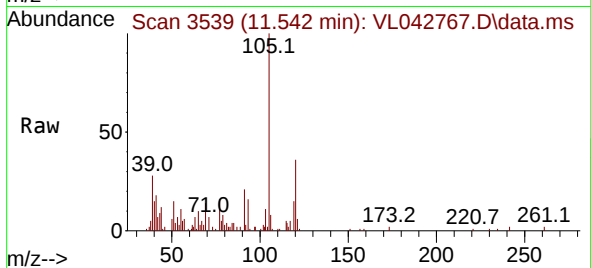
Tgt Ion:	105	Resp:	893
Ion Ratio	Lower	Upper	
105	100		
120	36.0	40.8	61.2
91	21.0	53.0	79.4
77	14.5	20.5	30.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#79

Naphthalene

Concen: 0.483 ppbv m

RT: 13.520 min Scan# 4150

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion:	128	Resp:	2772
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.5	15.7
129	12.1	8.6	13.0

