

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042762.D
 Acq On : 24 Jul 2025 13:17
 Operator : SY/MD
 Sample : Q2671-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 118-SG2

Manual Integrations
 APPROVED

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

Quant Time: Jul 25 01:25:59 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

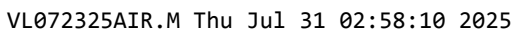
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

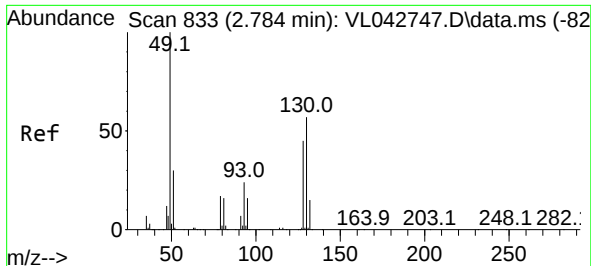
Internal Standards						
1) Bromochloromethane	2.784	49	154296	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	419540	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	381810	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	306627	10.141	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	9247	0.453	ppbv	96
9) Propene	1.486	41	67022m	6.939	ppbv	
10) Heptane	4.978	43	16368m	0.629	ppbv	
11) Trichlorofluoromethane	1.878	101	6222	0.296	ppbv	89
13) Ethanol	1.719	45	462583	656.614	ppbv	89
15) Acetone	1.832	43	463947	21.776	ppbv	98
17) tert-Butyl alcohol	2.039	59	11264	0.586	ppbv #	88
19) Isopropyl Alcohol	1.884	45	36290m	3.205	ppbv	
26) Hexane	2.826	57	49153	2.376	ppbv #	44
27) Carbon Disulfide	2.149	76	40051	2.261	ppbv #	1
29) Chloroform	2.845	83	645551	20.193	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	4361	0.205	ppbv #	89
32) 1,1,1-Trichloroethane	3.366	97	13146	0.395	ppbv	95
34) 2-Butanone	2.554	43	461666	15.535	ppbv	99
35) Carbon Tetrachloride	3.761	117	10371	0.333	ppbv	86
36) Benzene	3.651	78	10733	0.270	ppbv #	90
38) Trichloroethene	4.541	130	420946	22.037	ppbv	97
42) Bromodichloromethane	4.483	83	6924m	0.222	ppbv	
50) 4-Methyl-2-Pentanone	5.765	43	8852m	0.231	ppbv	
51) 2-Hexanone	7.438	43	21380	0.739	ppbv #	92
52) Tetrachloroethene	8.221	164	329198	19.975	ppbv	98
53) Toluene	6.923	91	13871m	0.325	ppbv	
59) m/p-Xylene	9.529	91	10979m	0.228	ppbv	
60) o-Xylene	9.966	91	5517m	0.115	ppbv	
61) Styrene	9.866	104	2858	0.141	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	7139	0.138	ppbv #	54
79) Naphthalene	13.513	128	3165	0.489	ppbv #	95

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

Manual Integrations APPROVED

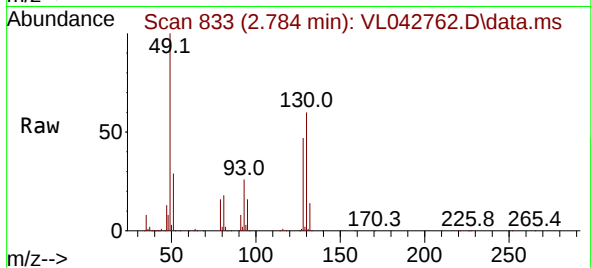
Quant Time: Jul 25 01:25:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

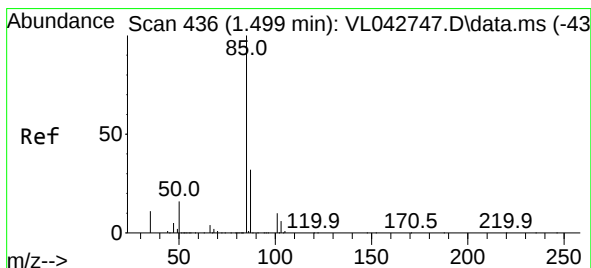
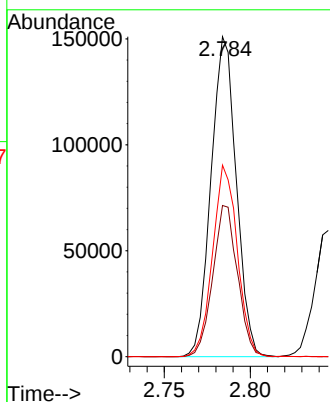
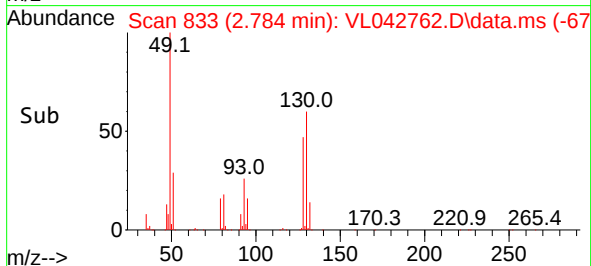
Instrument :
MSVOA_L
ClientSampleId :
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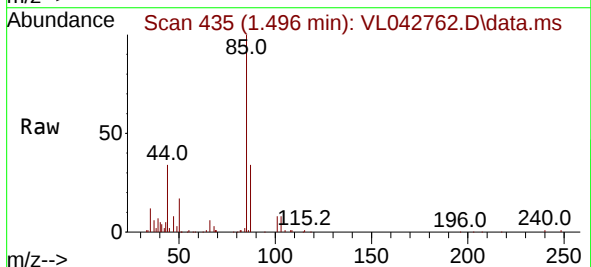
Tgt Ion: 49 Resp: 154290
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 58.5 30.3 90.8

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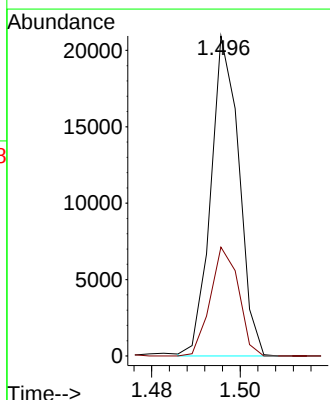
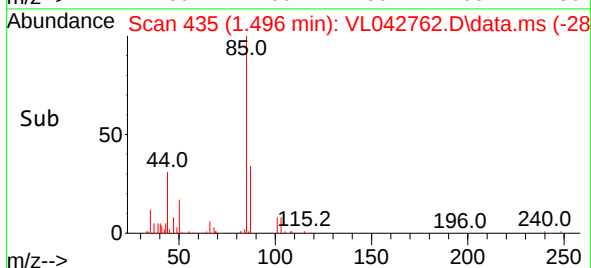
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

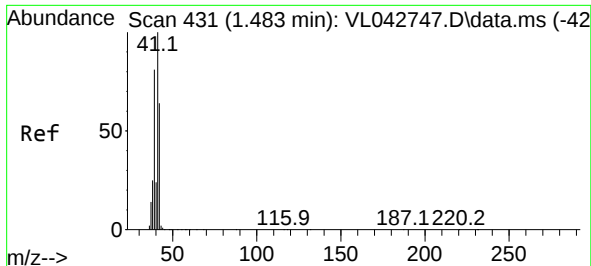


#2
Dichlorodifluoromethane
Concen: 0.453 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



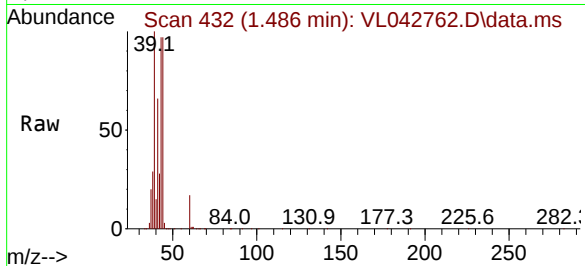
Tgt Ion: 85 Resp: 9247
Ion Ratio Lower Upper
85 100
87 34.0 25.4 38.2





#9
Propene
Concen: 6.939 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

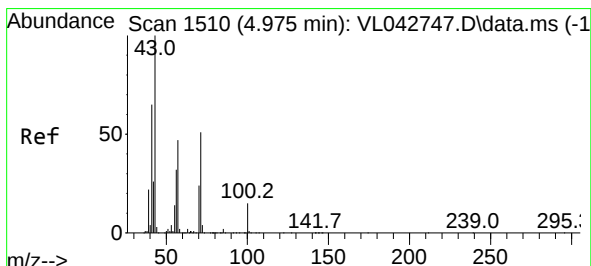
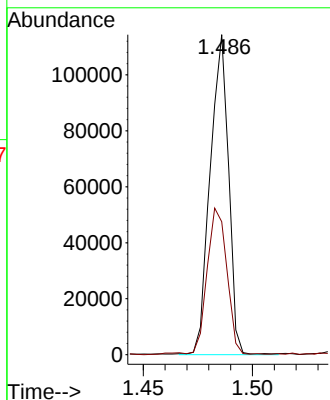
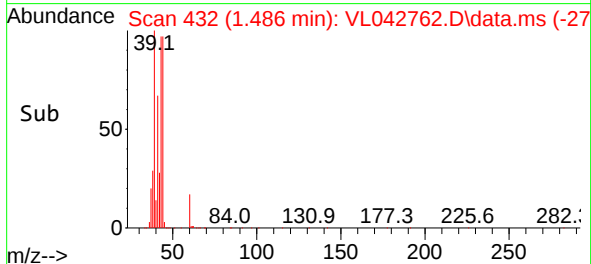
Instrument :
MSVOA_L
ClientSampleId :
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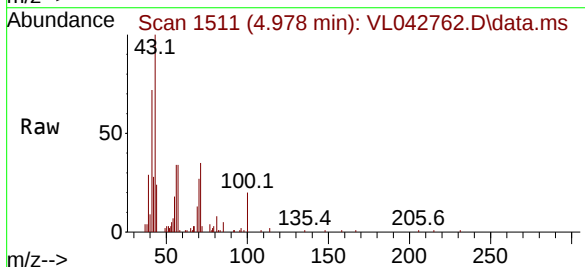
Tgt Ion: 41 Resp: 6702
Ion Ratio Lower Upper
41 100
42 0.0 53.2 79.8

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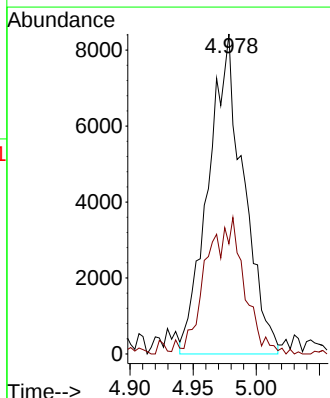
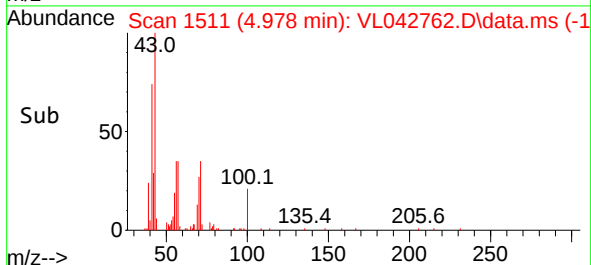
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

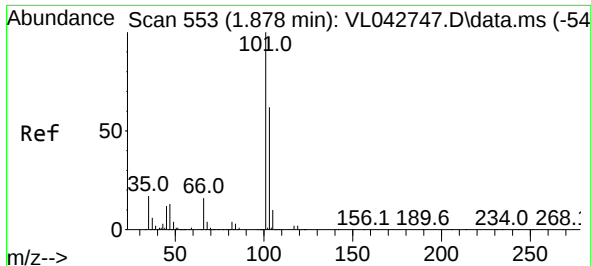


#10
Heptane
Concen: 0.629 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



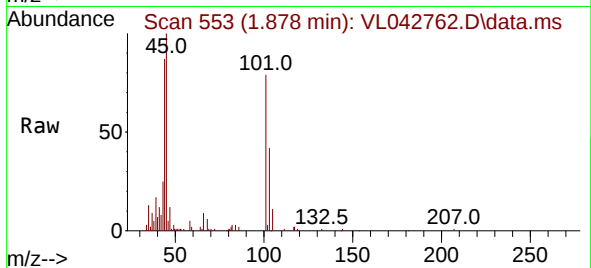
Tgt Ion: 43 Resp: 16368
Ion Ratio Lower Upper
43 100
57 47.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.296 ppbv
RT: 1.878 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

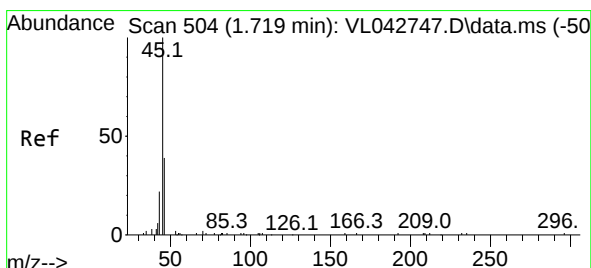
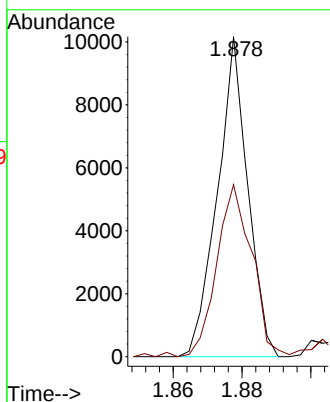
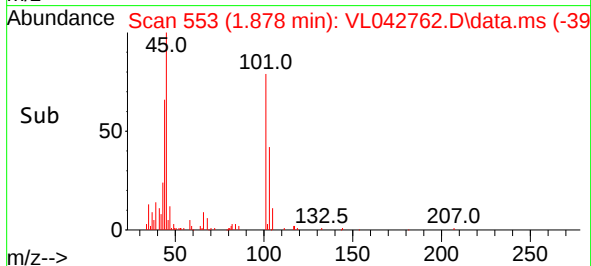
Instrument :
MSVOA_L
ClientSampleId :
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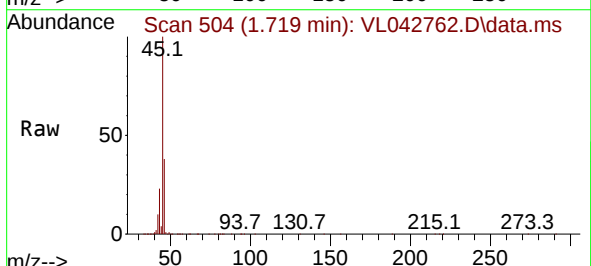
Tgt Ion: 101 Resp: 622
Ion Ratio Lower Upper
101 100
103 53.7 49.6 74.4

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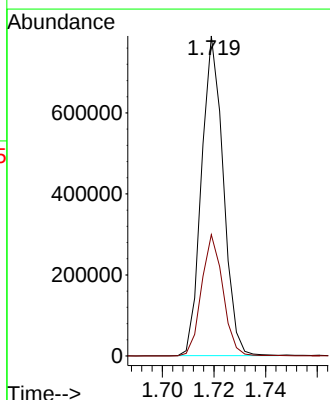
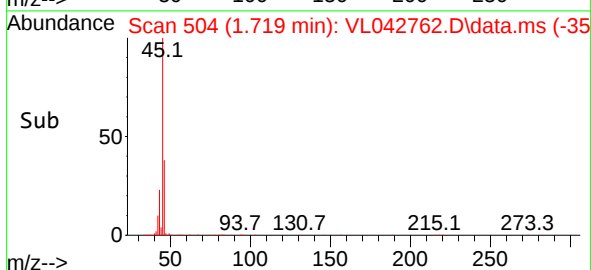
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

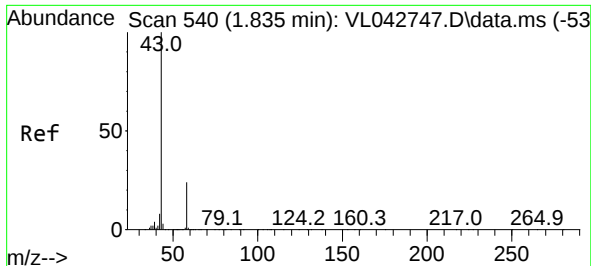


#13
Ethanol
Concen: 656.614 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



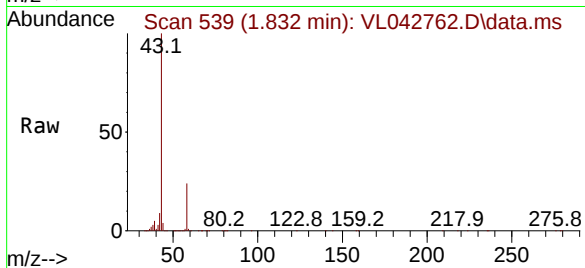
Tgt Ion: 45 Resp: 462583
Ion Ratio Lower Upper
45 100
46 37.5 17.8 71.4





#15
Acetone
Concen: 21.776 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

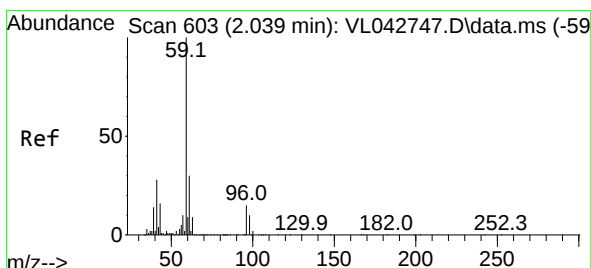
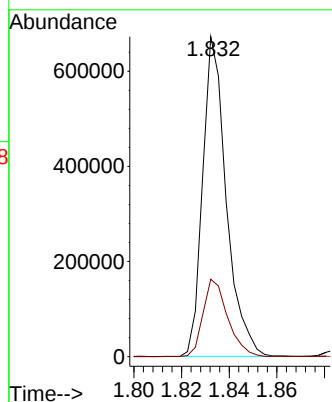
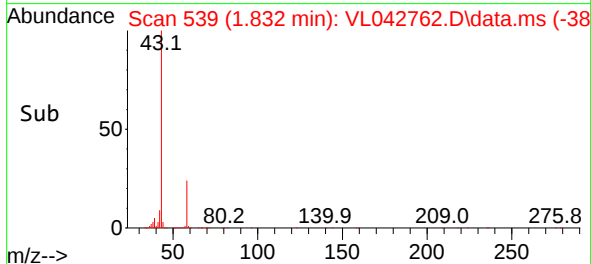
Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 43 Resp: 46394
Ion Ratio Lower Upper
43 100
58 25.7 19.8 29.8

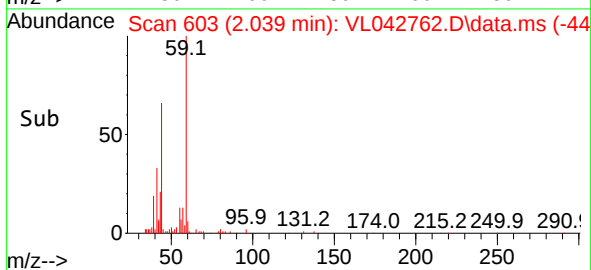
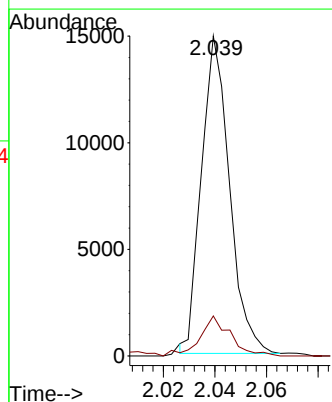
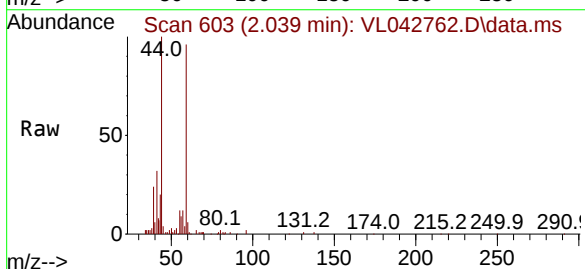
Manual Integrations
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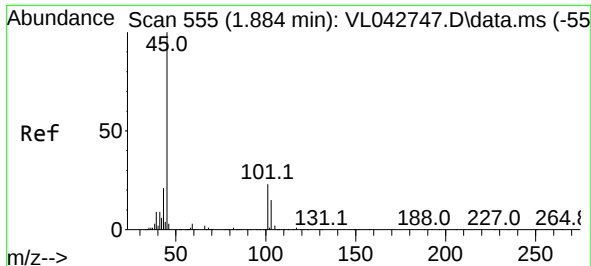
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#17
tert-Butyl alcohol
Concen: 0.586 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

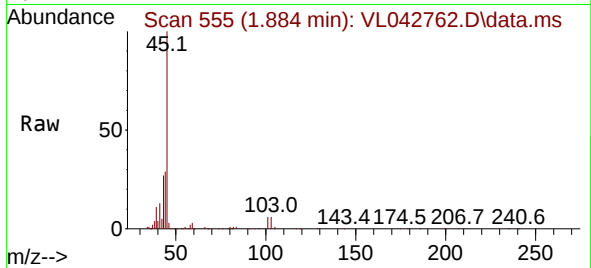
Tgt Ion: 59 Resp: 11264
Ion Ratio Lower Upper
59 100
57 14.7 8.3 12.5#





#19
Isopropyl Alcohol
Concen: 3.205 ppbv m
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

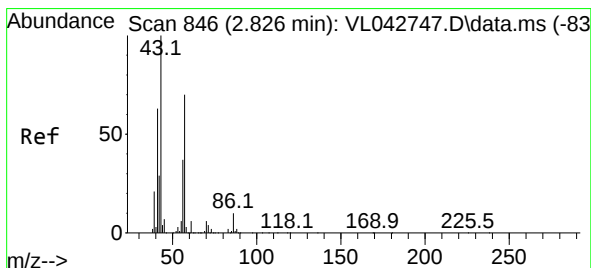
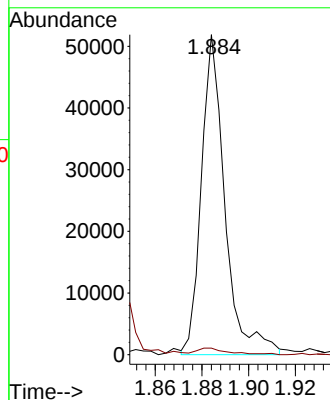
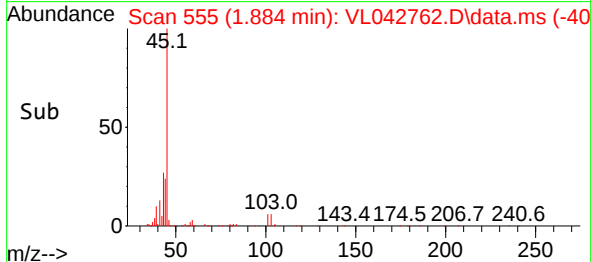
Instrument :
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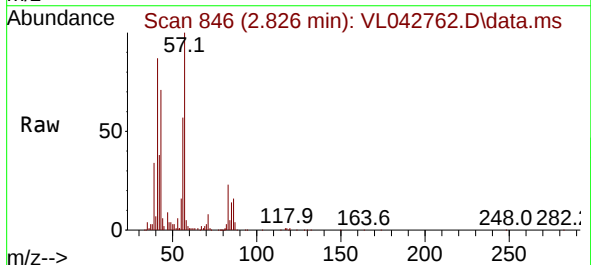
Tgt Ion: 45 Resp: 36290
Ion Ratio Lower Upper
45 100
58 0.0 30.0 45.0

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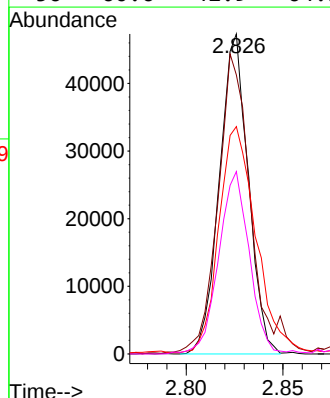
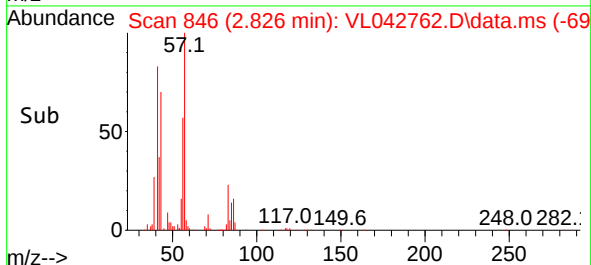
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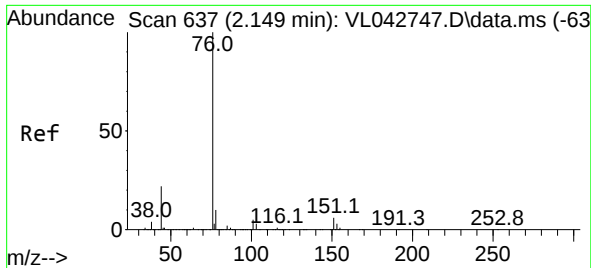


#26
Hexane
Concen: 2.376 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



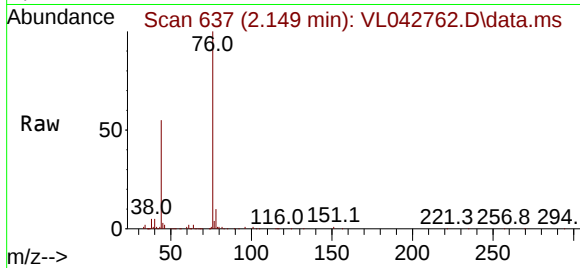
Tgt Ion: 57 Resp: 49153
Ion Ratio Lower Upper
57 100
41 105.4 75.4 113.2
43 90.6 185.0 277.6#
56 60.6 42.9 64.3





#27
Carbon Disulfide
Concen: 2.261 ppbv
RT: 2.149 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

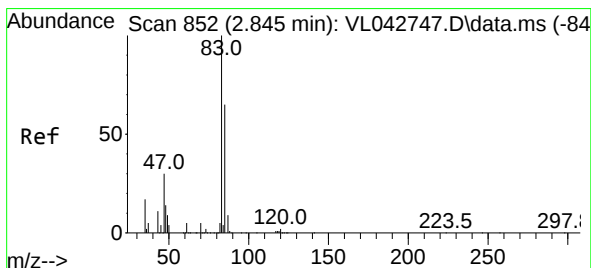
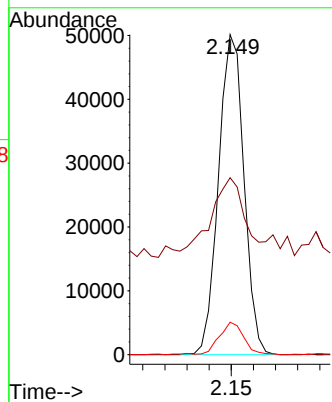
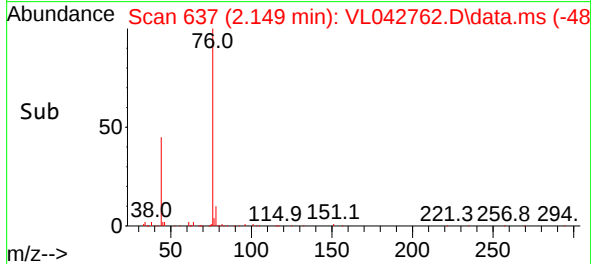
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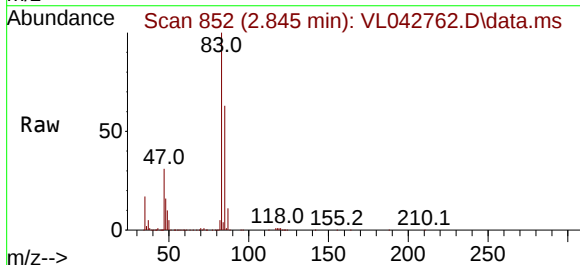
Tgt Ion: 76 Resp: 4005
Ion Ratio Lower Upper
76 100
44 126.2 19.3 28.9
78 10.1 9.9 14.9

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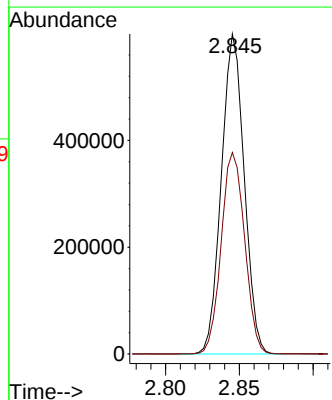
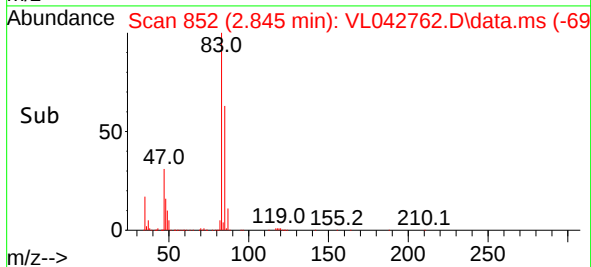
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

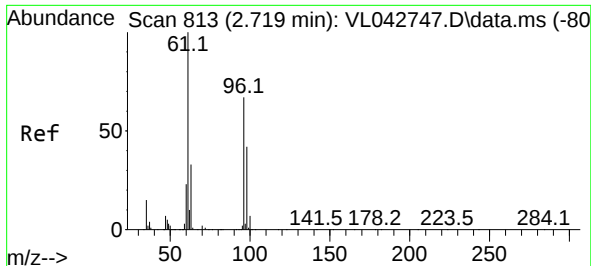


#29
Chloroform
Concen: 20.193 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



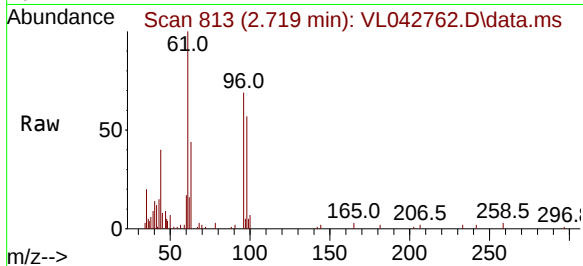
Tgt Ion: 83 Resp: 645551
Ion Ratio Lower Upper
83 100
85 62.9 52.2 78.2





#31
 cis-1,2-Dichloroethene
 Concen: 0.205 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

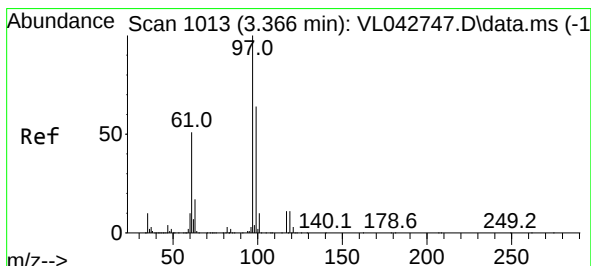
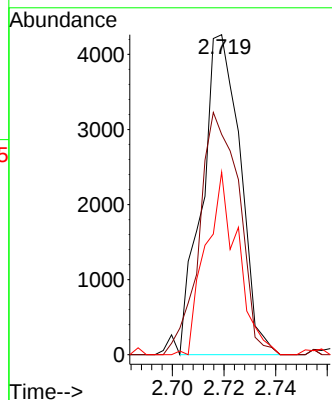
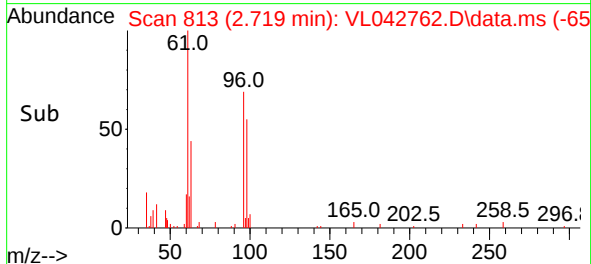
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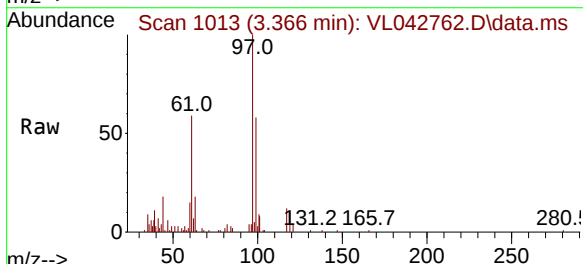
Tgt Ion: 61 Resp: 436
 Ion Ratio Lower Upper
 61 100
 96 68.9 53.5 80.3
 98 57.0 33.6 50.4

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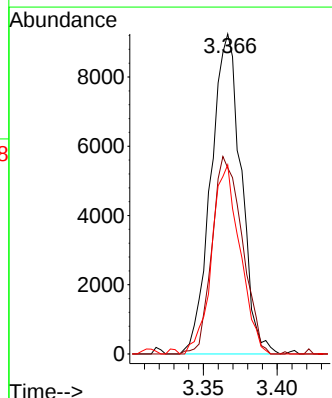
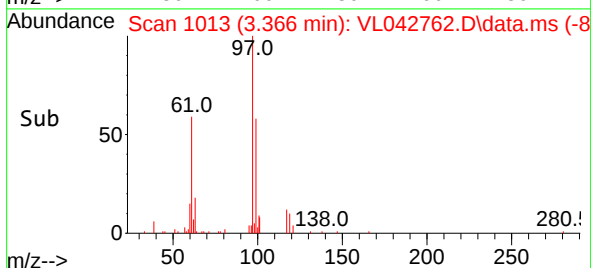
Reviewed By :Semsettin Yesilyurt 07/25/2025
 Supervised By :Mahesh Dadoda 07/25/2025

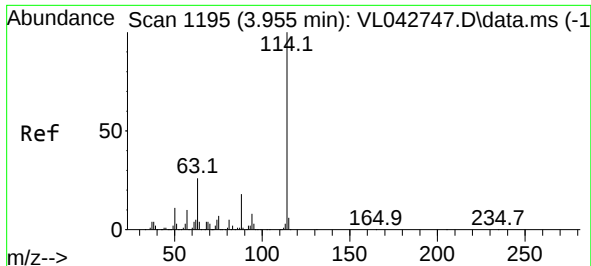


#32
 1,1,1-Trichloroethane
 Concen: 0.395 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17



Tgt Ion: 97 Resp: 13146
 Ion Ratio Lower Upper
 97 100
 99 61.9 51.0 76.6
 61 56.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

118-SG2

Tgt Ion:114 Resp: 419540

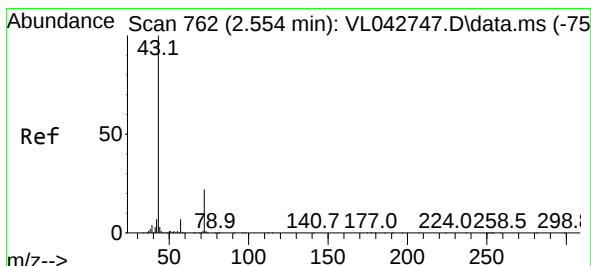
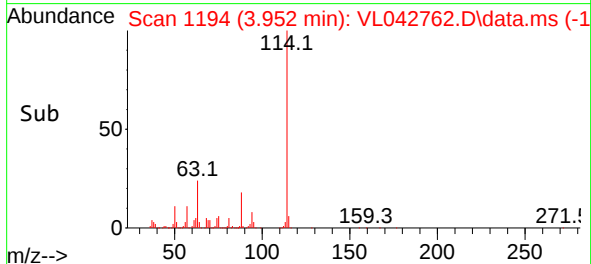
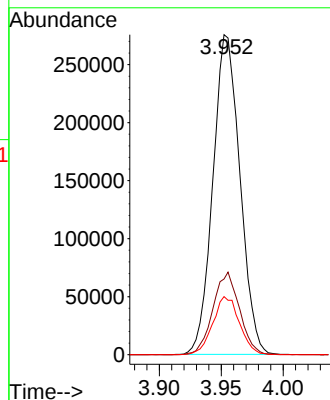
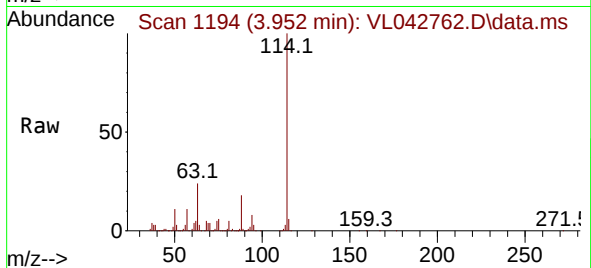
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.9	14.0	21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#34

2-Butanone

Concen: 15.535 ppbv

RT: 2.554 min Scan# 762

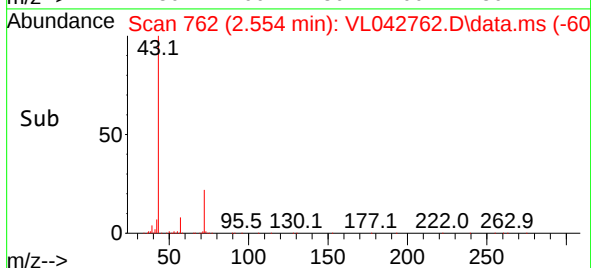
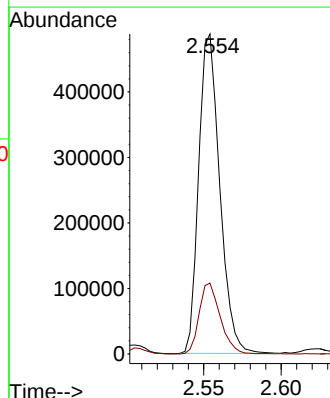
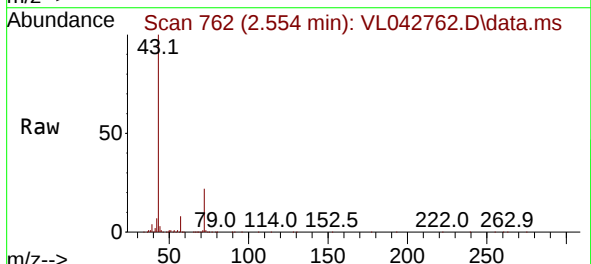
Delta R.T. 0.000 min

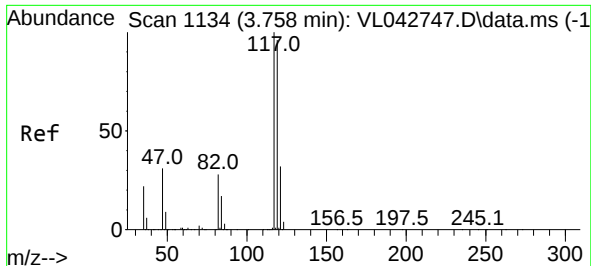
Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Tgt Ion: 43 Resp: 461666

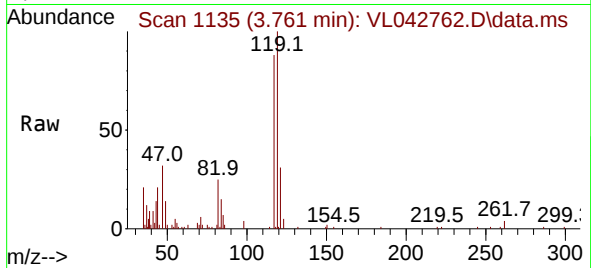
Ion	Ratio	Lower	Upper
43	100		
72	22.2	17.4	26.0





#35
Carbon Tetrachloride
Concen: 0.333 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

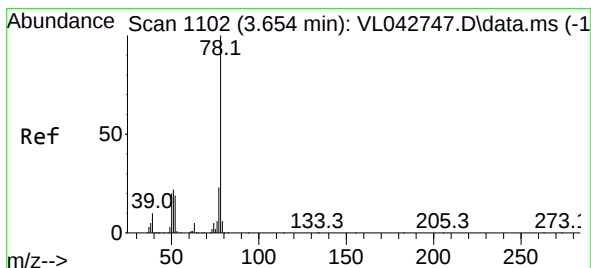
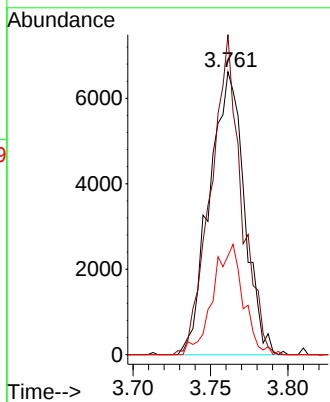
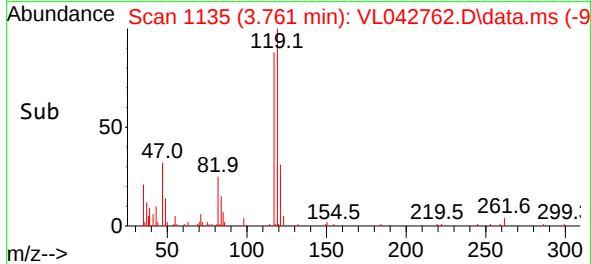
Instrument :
MSVOA_L
ClientSampleId :
118-SG2



Tgt Ion:117 Resp: 1037
Ion Ratio Lower Upper
117 100
119 113.1 77.1 115.7
121 35.0 25.5 38.3

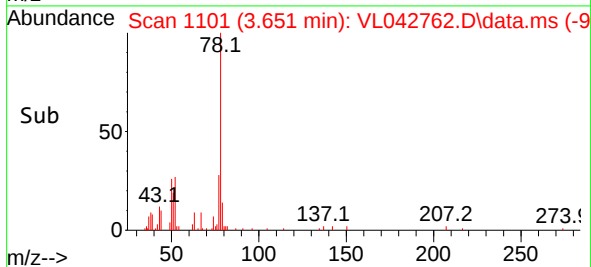
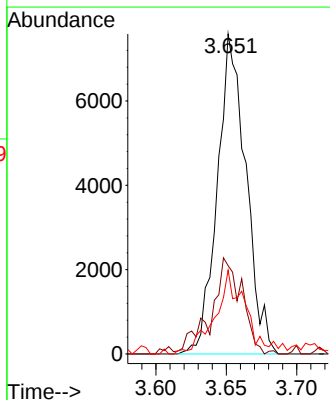
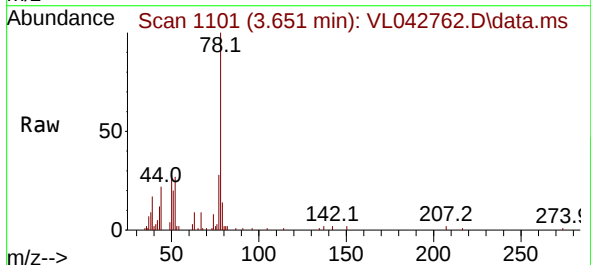
Manual Integrations
APPROVED

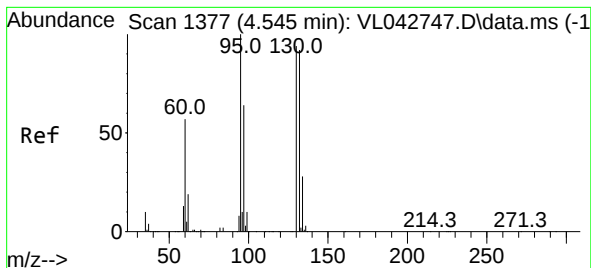
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#36
Benzene
Concen: 0.270 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 78 Resp: 10733
Ion Ratio Lower Upper
78 100
77 27.6 18.5 27.7
50 25.2 16.2 24.2#





#38

Trichloroethene

Concen: 22.037 ppbv

RT: 4.541 min Scan# 1377

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

118-SG2

Tgt Ion:130 Resp: 420940

Ion Ratio Lower Upper

130 100

95 109.3 85.4 128.2

132 94.7 78.2 117.2

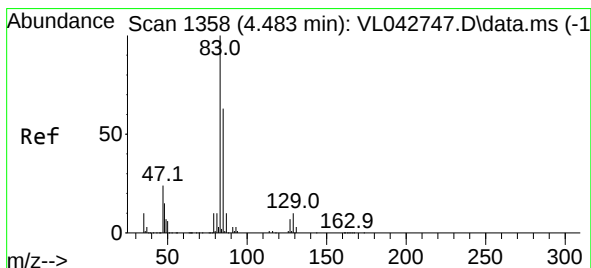
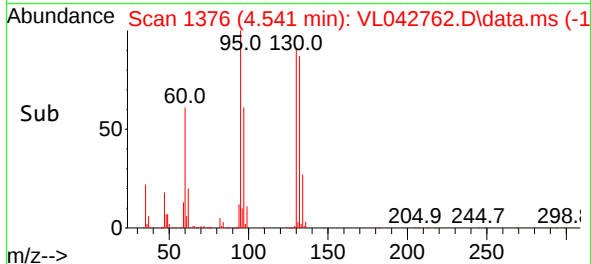
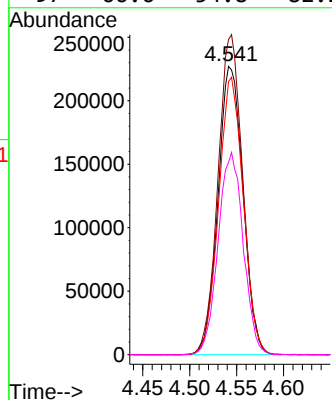
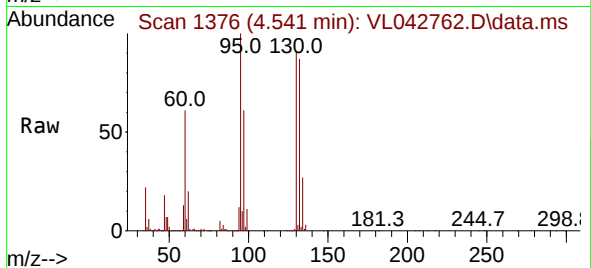
97 66.6 54.8 82.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#42

Bromodichloromethane

Concen: 0.222 ppbv m

RT: 4.483 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

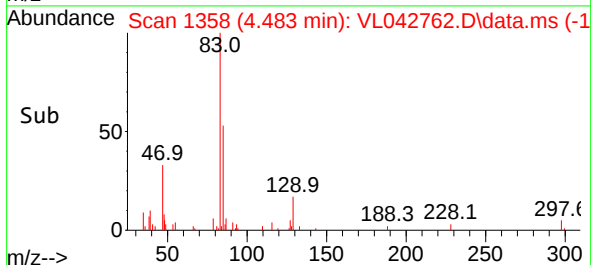
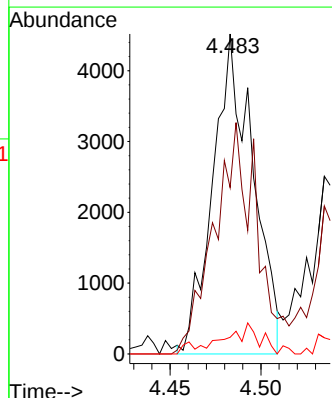
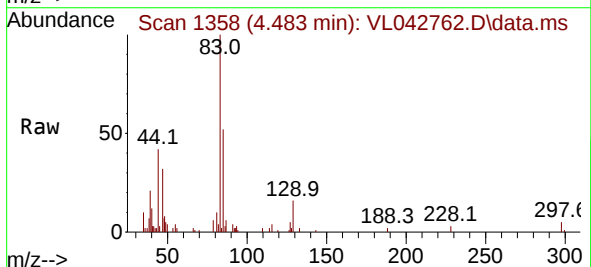
Tgt Ion: 83 Resp: 6924

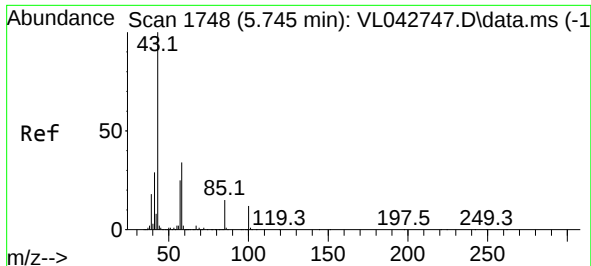
Ion Ratio Lower Upper

83 100

85 52.0 50.2 75.4

127 5.2 5.4 8.2#





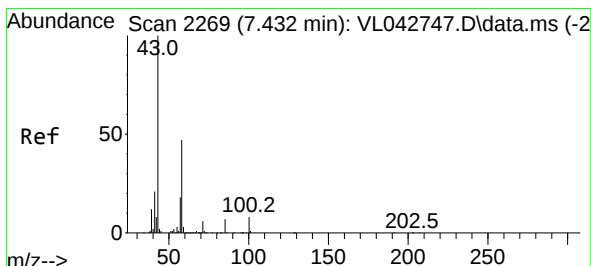
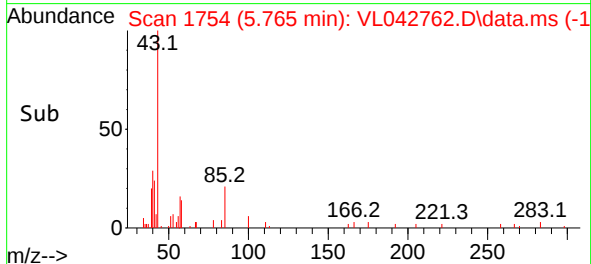
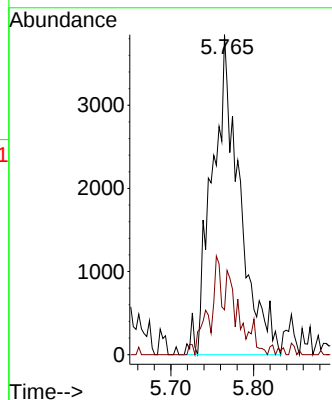
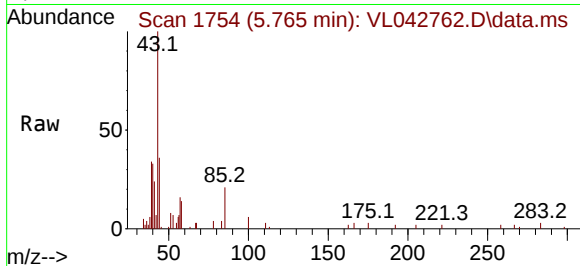
#50
4-Methyl-2-Pentanone
Concen: 0.231 ppbv
RT: 5.765 min Scan# 111
Delta R.T. 0.019 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
118-SG2

Tgt Ion: 43 Resp: 885
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8

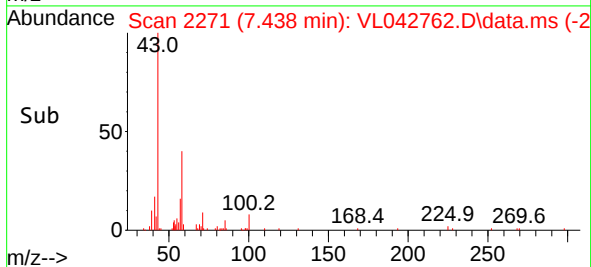
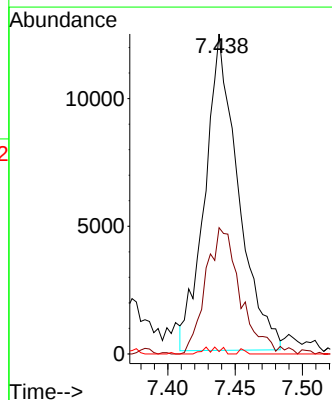
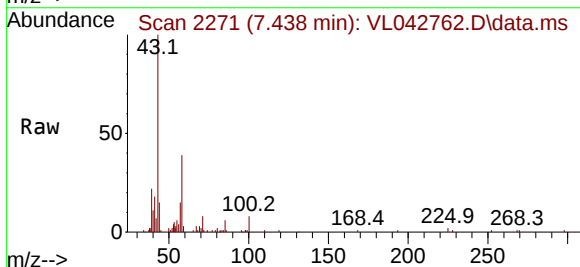
Manual Integrations
APPROVED

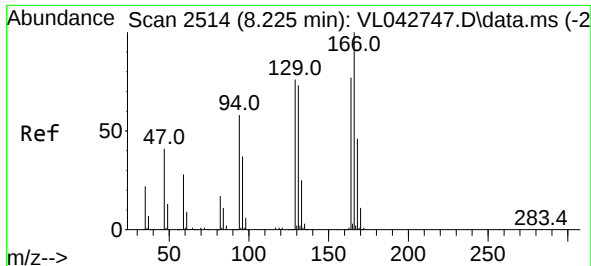
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#51
2-Hexanone
Concen: 0.739 ppbv
RT: 7.438 min Scan# 2271
Delta R.T. 0.006 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

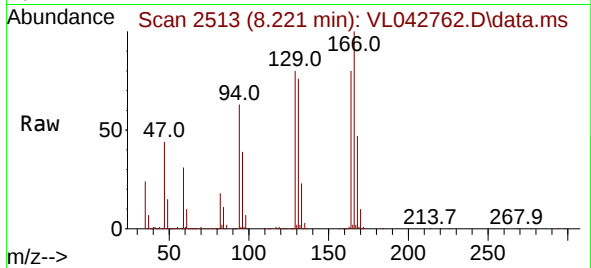
Tgt Ion: 43 Resp: 21380
Ion Ratio Lower Upper
43 100
58 42.0 38.0 57.0
98 1.4 0.2 0.4





#52
Tetrachloroethene
Concen: 19.975 ppbv
RT: 8.221 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

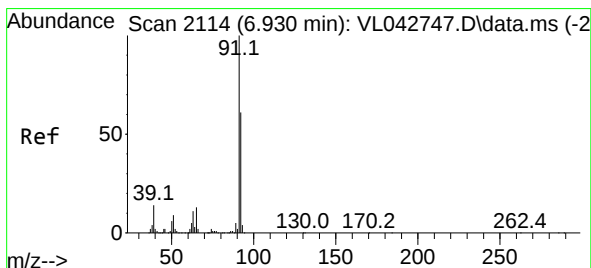
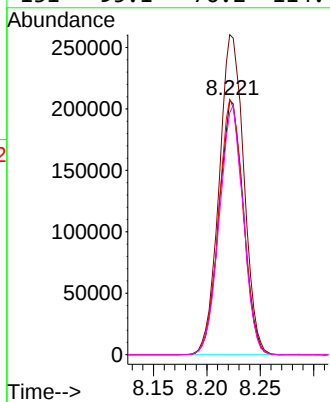
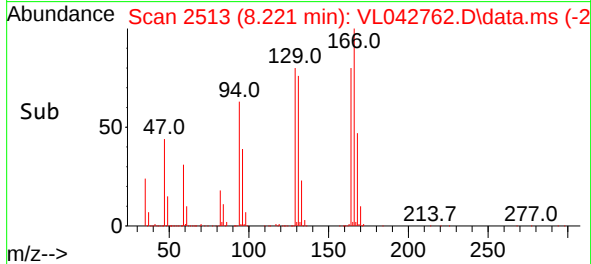
Instrument :
MSVOA_L
ClientSampleId :
118-SG2



Tgt Ion:164 Resp: 329198
Ion Ratio Lower Upper
164 100
166 125.8 104.0 156.0
129 100.4 79.2 118.8
131 95.1 76.2 114.4

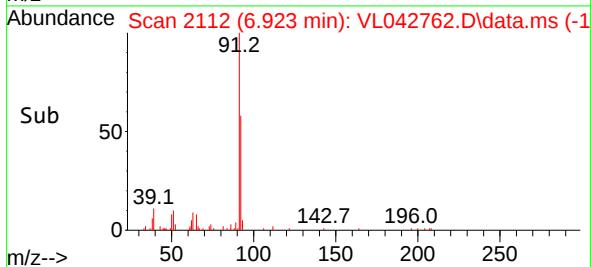
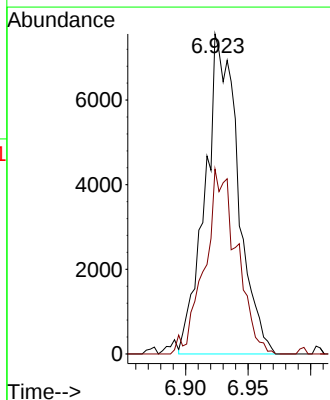
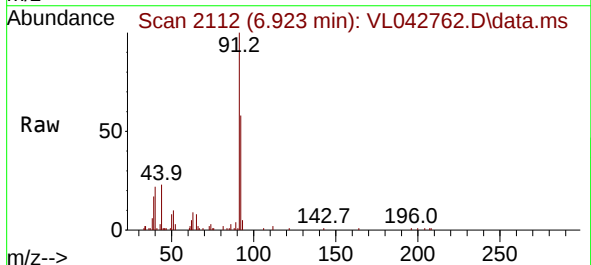
Manual Integrations
APPROVED

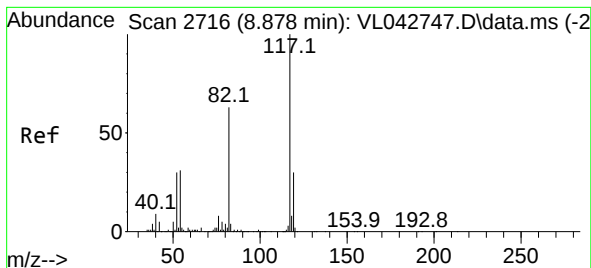
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#53
Toluene
Concen: 0.325 ppbv m
RT: 6.923 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 91 Resp: 13871
Ion Ratio Lower Upper
91 100
92 56.6 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

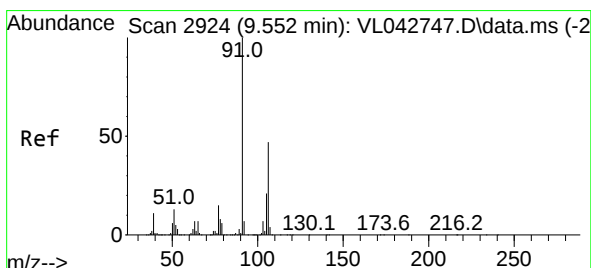
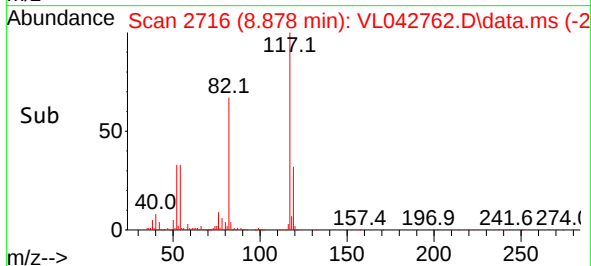
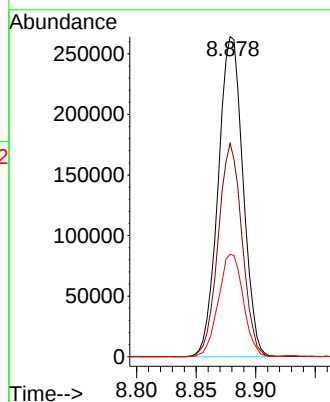
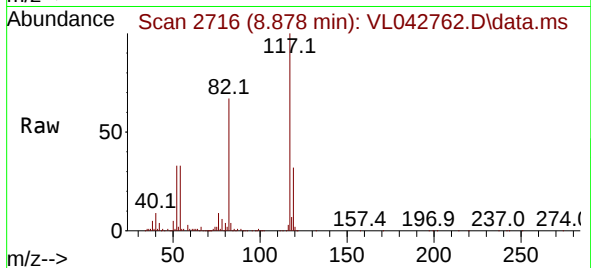
118-SG2

Tgt Ion:	117	Resp:	381810
Ion	Ratio	Lower	Upper
117	100		
82	64.4	53.3	79.9
119	32.4	25.8	38.6

Manual Integrations

APPROVED

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



#59

m/p-Xylene

Concen: 0.228 ppbv m

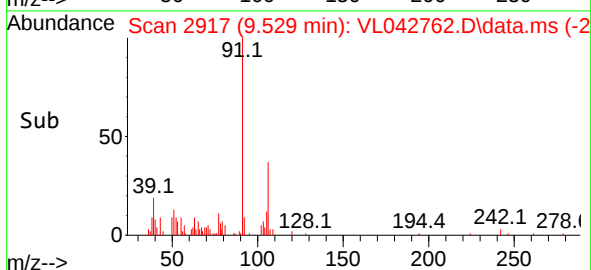
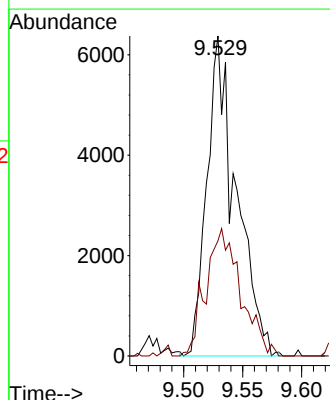
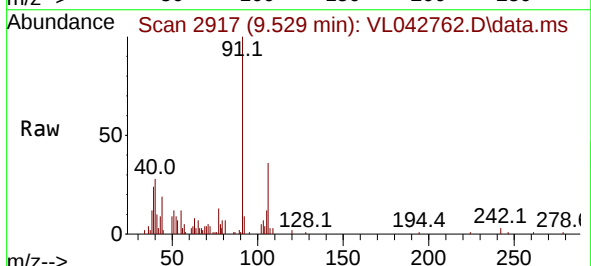
RT: 9.529 min Scan# 2917

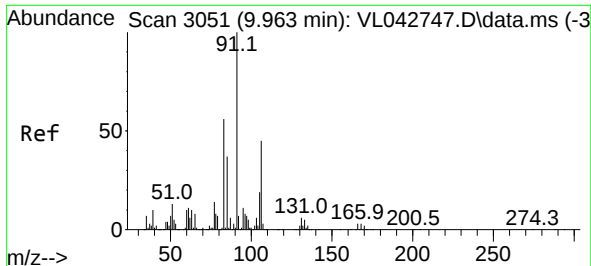
Delta R.T. -0.023 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

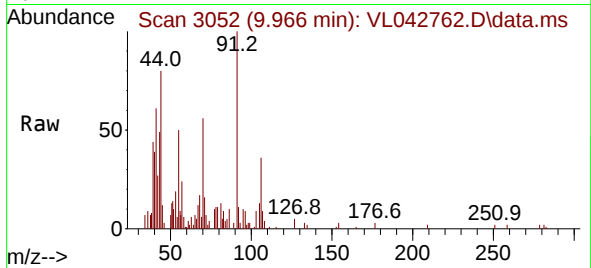
Tgt Ion:	91	Resp:	10979
Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#





#60
o-Xylene
Concen: 0.115 ppbv m
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

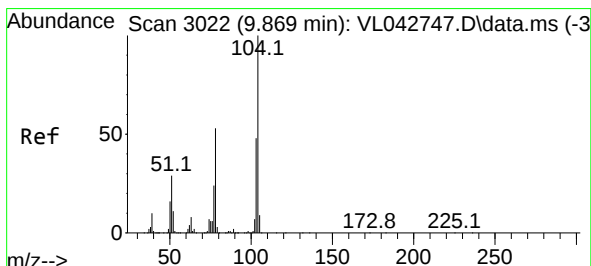
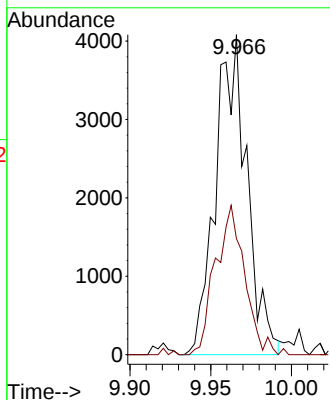
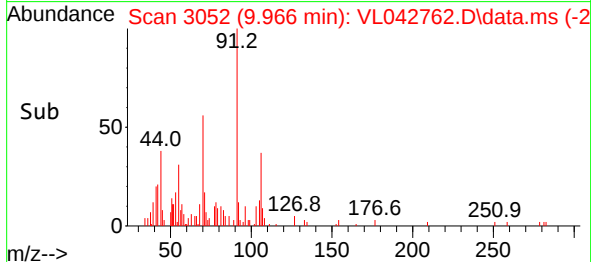
Instrument :
MSVOA_L
ClientSampleId :
118-SG2



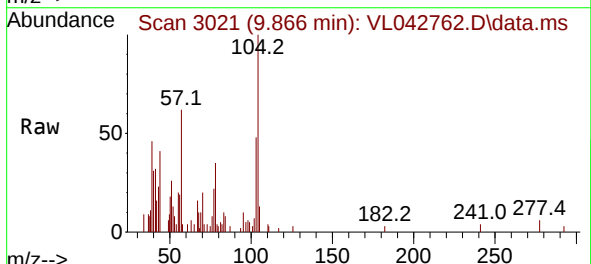
Tgt Ion: 91 Resp: 551
Ion Ratio Lower Upper
91 100
106 44.2 22.0 66.0

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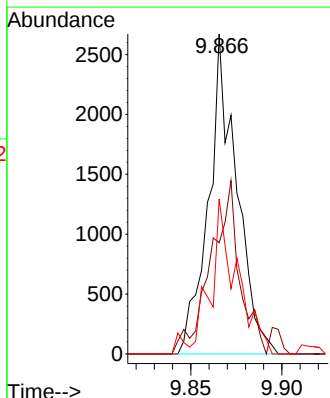
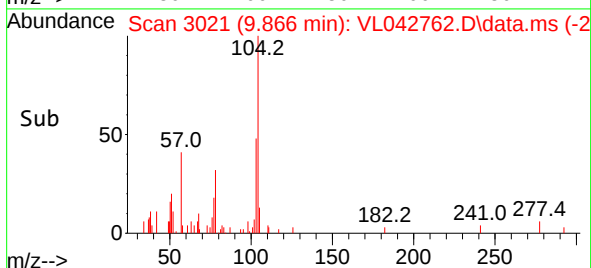
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

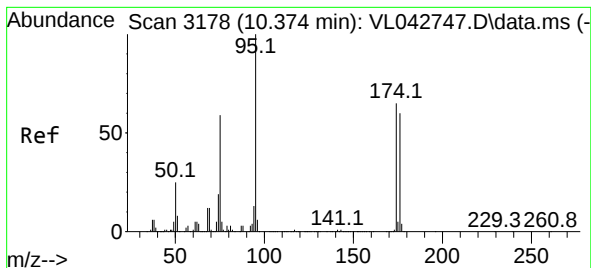


#61
Styrene
Concen: 0.141 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



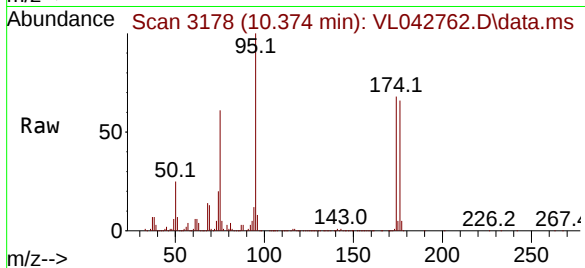
Tgt Ion:104 Resp: 2858
Ion Ratio Lower Upper
104 100
78 59.1 41.5 62.3
103 46.7 37.5 56.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.141 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

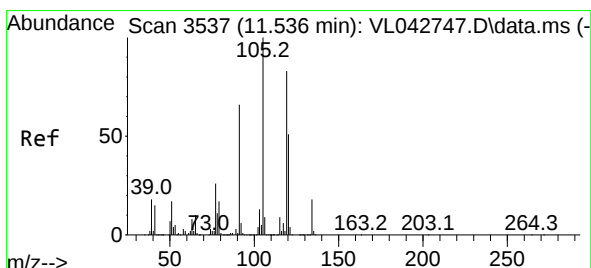
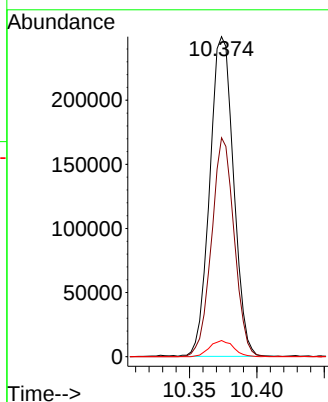
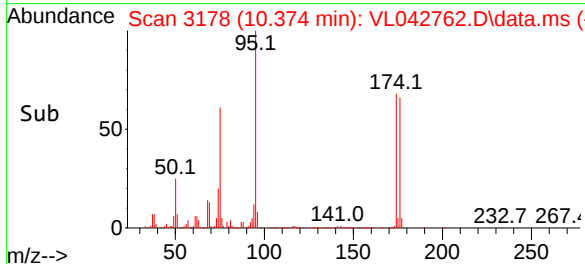
Instrument :
MSVOA_L
ClientSampleId :
118-SG2



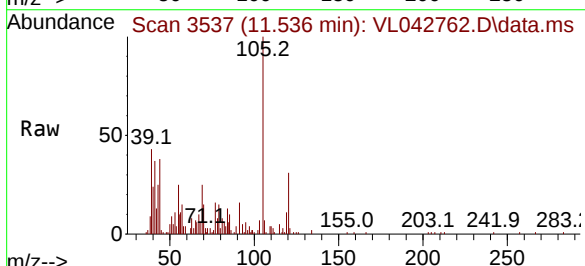
Tgt Ion: 95 Resp: 30662
Ion Ratio Lower Upper
95 100
174 65.2 53.8 80.6
175 5.1 4.0 6.0

Manual Integrations
APPROVED

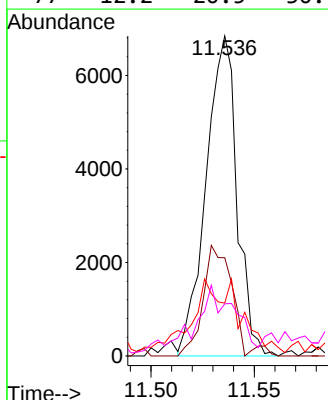
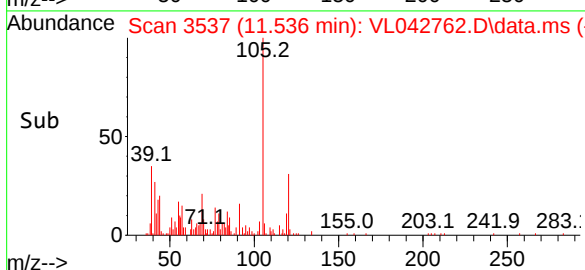
Reviewed By :Semsettin Yesilyurt 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

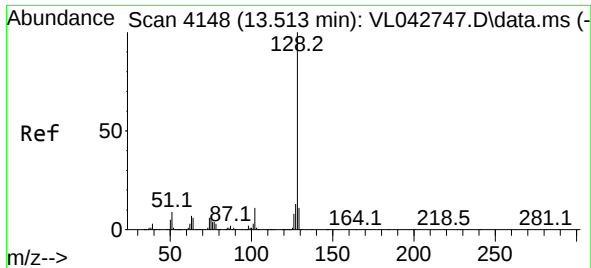


#74
1,2,4-Trimethylbenzene
Concen: 0.138 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17



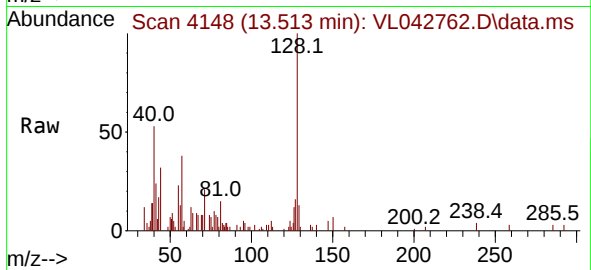
Tgt Ion:105 Resp: 7139
Ion Ratio Lower Upper
105 100
120 30.7 40.8 61.2#
91 13.8 53.0 79.4#
77 12.2 20.5 30.7#





#79
Naphthalene
Concen: 0.489 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
118-SG2



Tgt Ion:128 Resp: 3168
Ion Ratio Lower Upper
128 100
127 14.2 10.5 15.7
129 13.7 8.6 13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/25/2025
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