

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042630.D
 Acq On : 16 Jun 2025 15:46
 Operator : SY/MD
 Sample : Q2317-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 115-SG1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025
 Supervised By :Mahesh Dadoda 06/17/2025

Quant Time: Jun 17 03:06:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	111111	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	291956	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	266931	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	197287	9.860	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2128	0.156	ppbv	98
4) Chloromethane	1.531	50	8847	1.636	ppbv	98
7) Chloroethane	1.706	64	1235	0.577	ppbv	100
9) Propene	1.482	41	5787	0.764	ppbv	94
10) Heptane	4.984	43	4136m	0.194	ppbv	
11) Trichlorofluoromethane	1.877	101	134347	10.574	ppbv	100
13) Ethanol	1.722	45	153596	170.164	ppbv	98
15) Acetone	1.835	43	73330	5.479	ppbv	98
19) Isopropyl Alcohol	1.887	45	18985	2.373	ppbv #	1
20) Methylene Chloride	2.062	84	8992	2.036	ppbv	89
26) Hexane	2.829	57	11551	0.694	ppbv #	45
27) Carbon Disulfide	2.149	76	7484	0.586	ppbv #	1
29) Chloroform	2.848	83	4149	0.192	ppbv	91
34) 2-Butanone	2.560	43	21779	1.046	ppbv	100
36) Benzene	3.657	78	63818	2.220	ppbv	96
38) Trichloroethene	4.548	130	15028	1.230	ppbv	94
41) Tetrahydrofuran	3.065	42	6513	0.534	ppbv	99
43) Methyl Methacrylate	4.881	69	71010	6.364	ppbv	99
50) 4-Methyl-2-Pentanone	5.777	43	9577m	0.332	ppbv	
52) Tetrachloroethene	8.224	164	983m	0.091	ppbv	
53) Toluene	6.936	91	95713	2.880	ppbv	100
59) m/p-Xylene	9.535	91	6496	0.182	ppbv	97
61) Styrene	9.875	104	2053	0.122	ppbv	94
76) 1,4-Dichlorobenzene	11.671	146	3546	0.139	ppbv	90

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

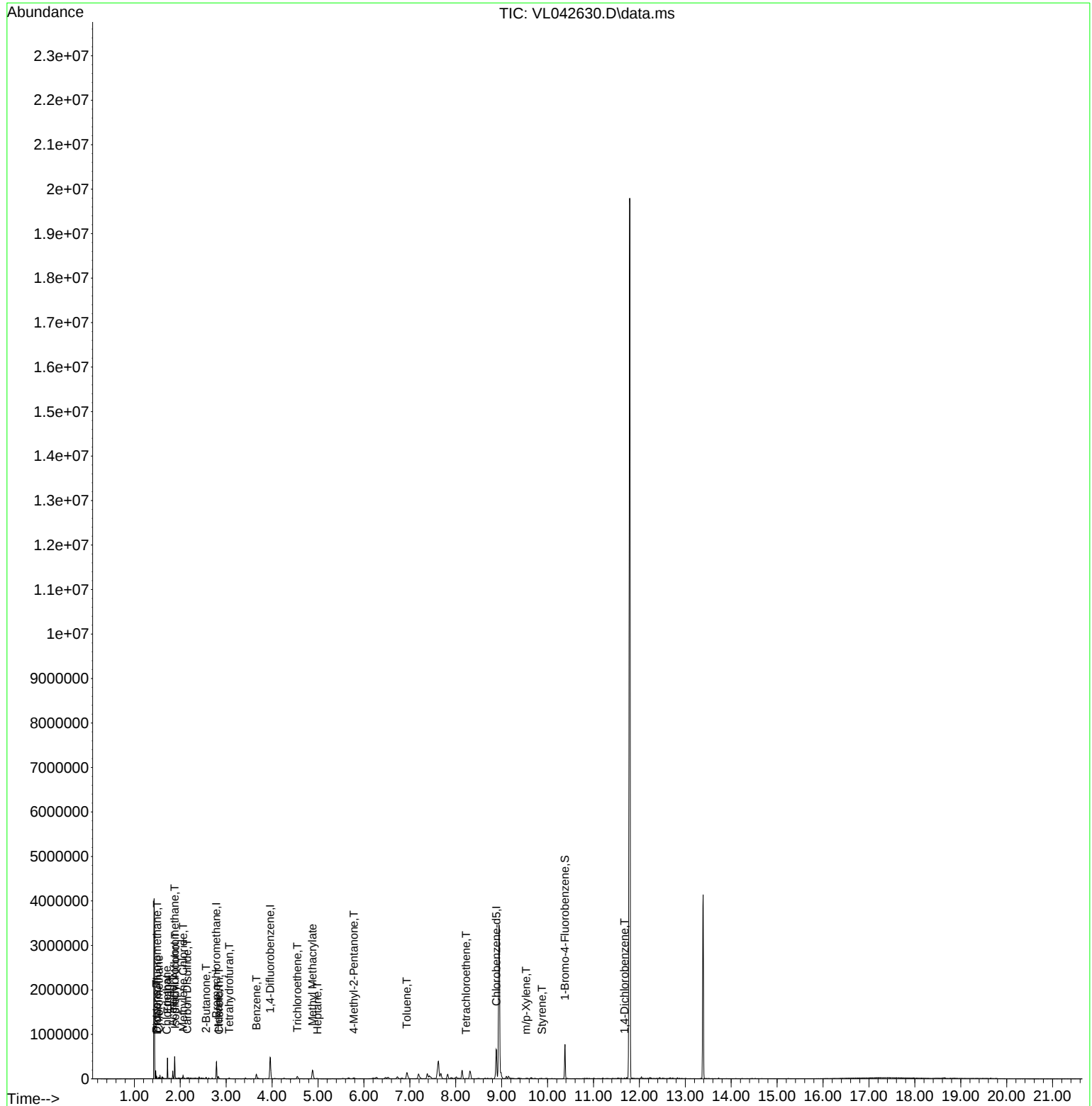
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
Data File : VL042630.D
Acq On : 16 Jun 2025 15:46
Operator : SY/MD
Sample : Q2317-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

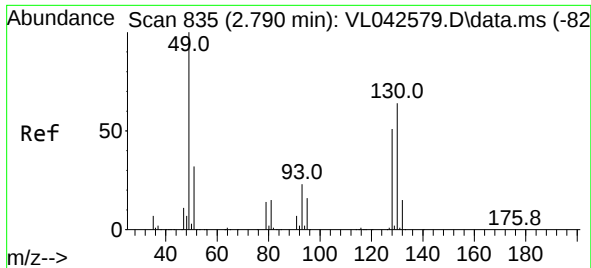
Instrument :
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ClientSampleId :
115-SG1

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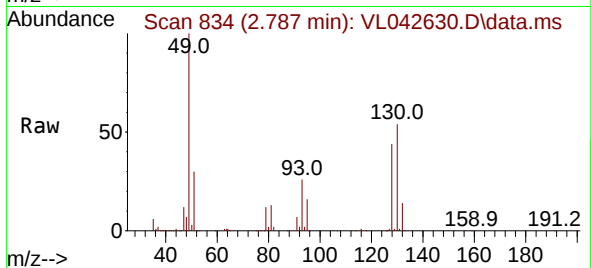
Quant Time: Jun 17 03:06:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

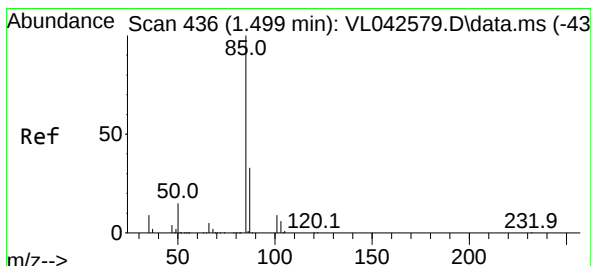
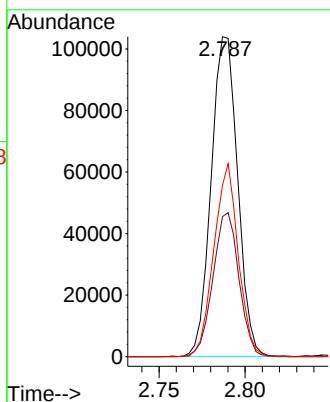
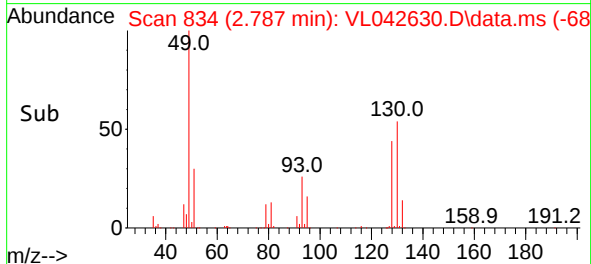
Instrument :
MSVOA_L
ClientSampleId :
115-SG1



Tgt Ion: 49 Resp: 11111
Ion Ratio Lower Upper
49 100
128 44.4 24.2 72.6
130 55.6 30.4 91.2

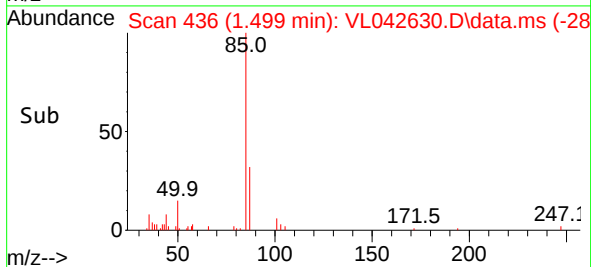
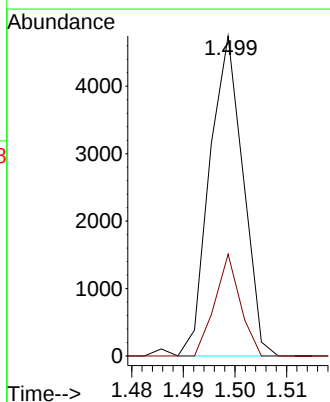
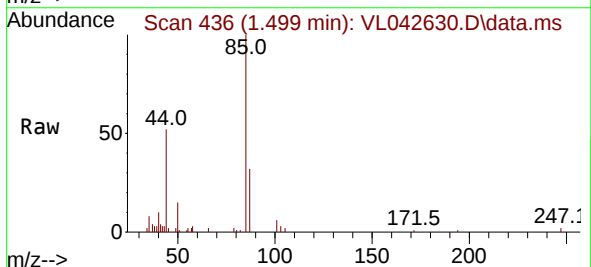
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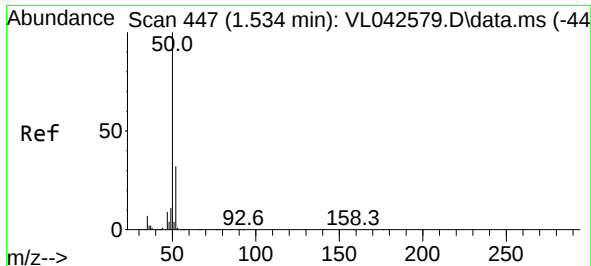
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#2
Dichlorodifluoromethane
Concen: 0.156 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 85 Resp: 2128
Ion Ratio Lower Upper
85 100
87 31.8 26.6 39.8





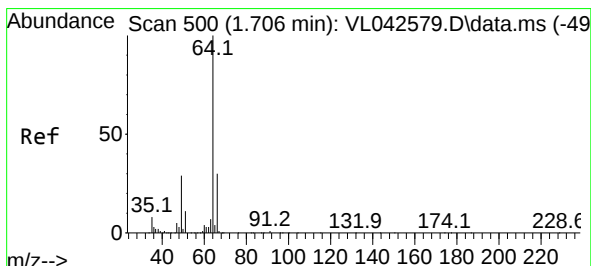
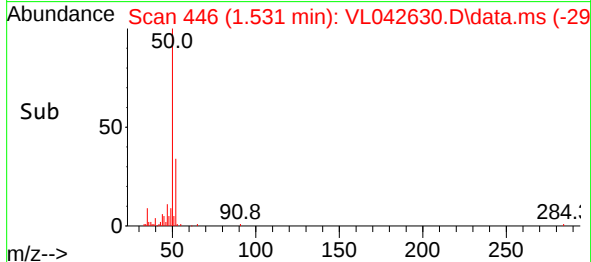
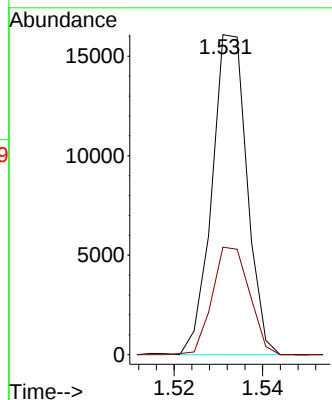
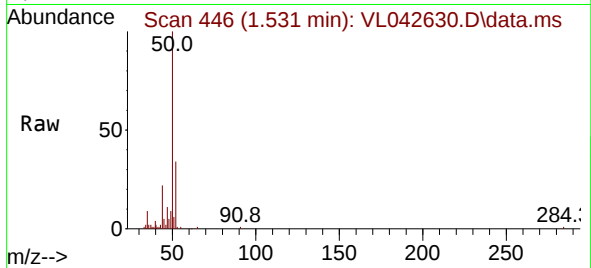
#4
Chloromethane
Concen: 1.636 ppbv
RT: 1.531 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
115-SG1

Tgt Ion: 50 Resp: 884
Ion Ratio Lower Upper
50 100
52 33.2 25.8 38.6

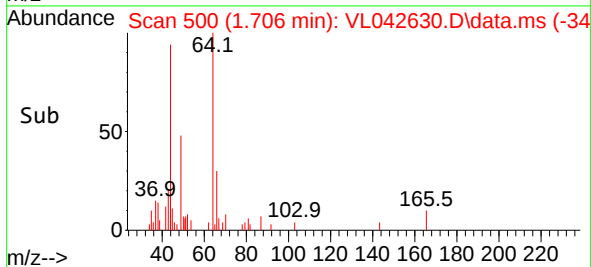
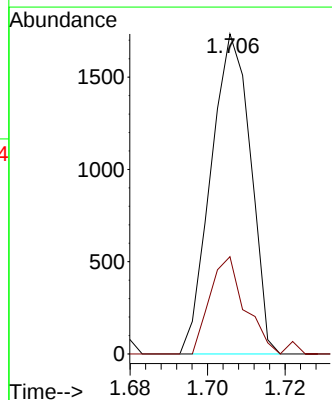
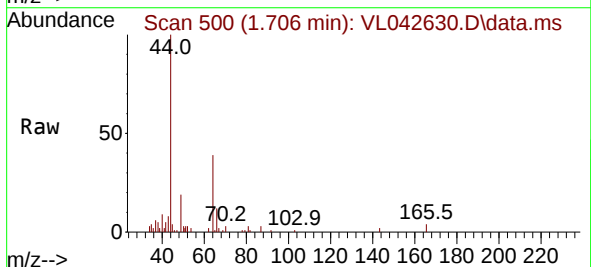
Manual Integrations
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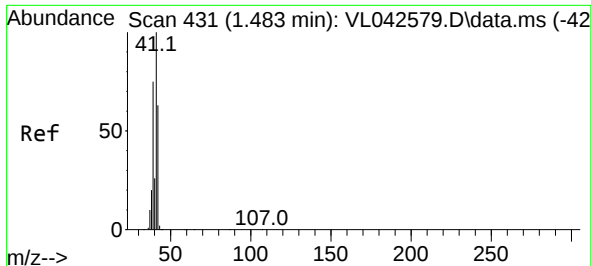
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#7
Chloroethane
Concen: 0.577 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

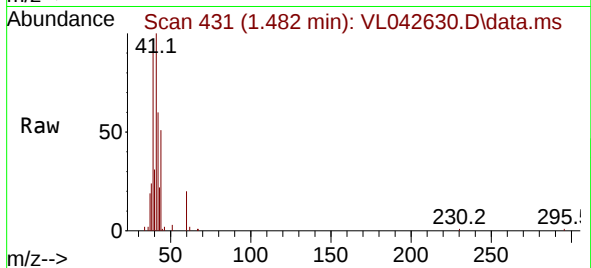
Tgt Ion: 64 Resp: 1235
Ion Ratio Lower Upper
64 100
66 30.4 24.3 36.5





#9
 Propene
 Concen: 0.764 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

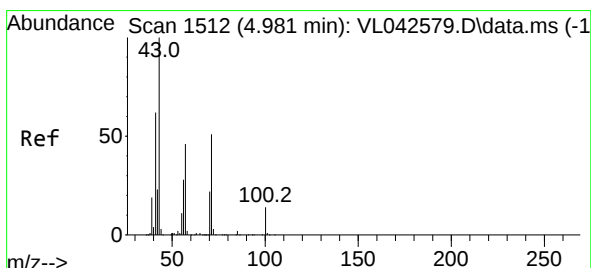
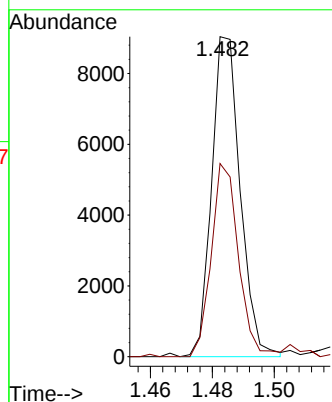
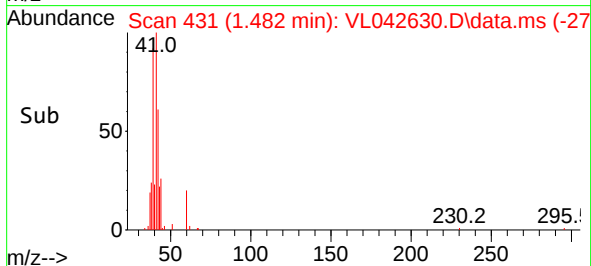
Instrument :
 MSVOA_L
 ClientSampleId :
 115-SG1



Tgt Ion: 41 Resp: 578
 Ion Ratio Lower Upper
 41 100
 42 61.9 53.3 79.9

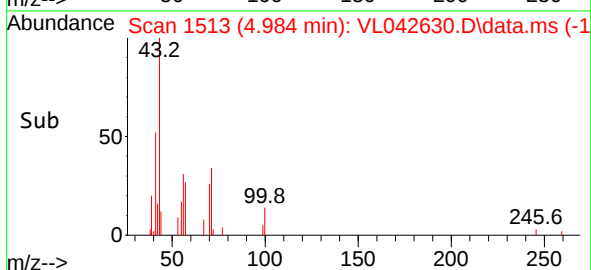
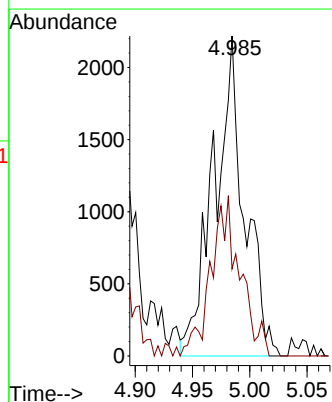
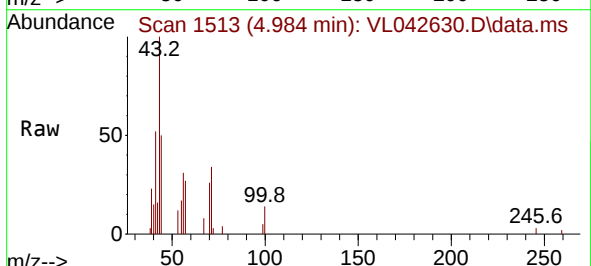
Manual Integrations
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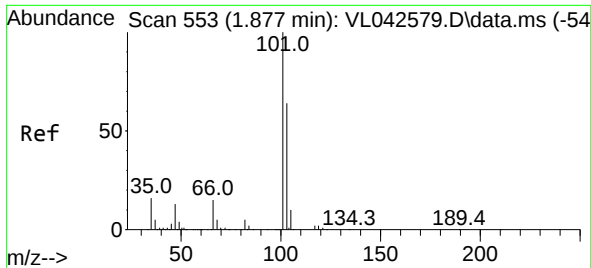
Reviewed By :Semsettin Yesilyurt 06/17/2025
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#10
 Heptane
 Concen: 0.194 ppbv m
 RT: 4.984 min Scan# 1513
 Delta R.T. 0.003 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

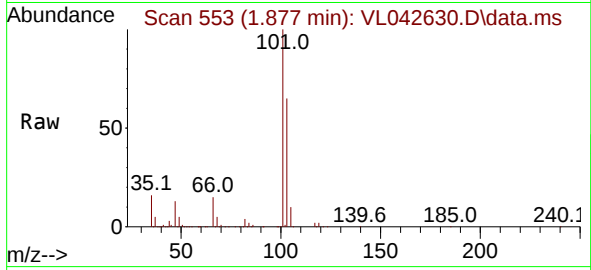
Tgt Ion: 43 Resp: 4136
 Ion Ratio Lower Upper
 43 100
 57 47.5 38.9 58.3





#11
Trichlorofluoromethane
Concen: 10.574 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

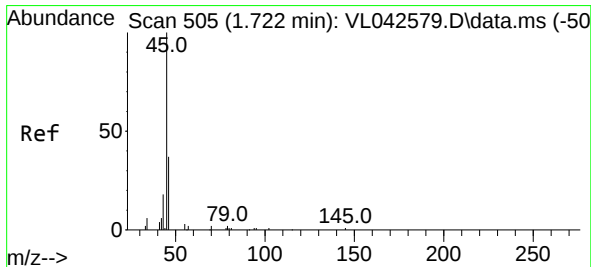
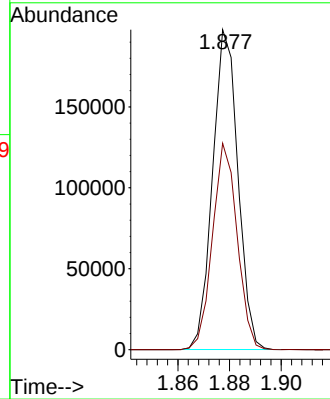
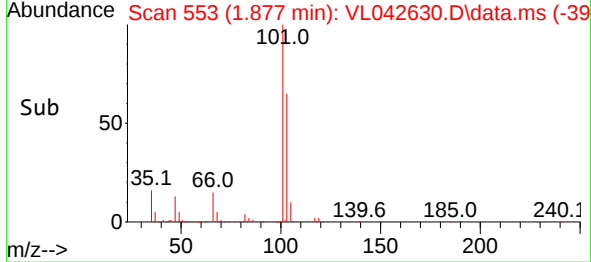
Instrument :
MSVOA_L
ClientSampleId :
115-SG1



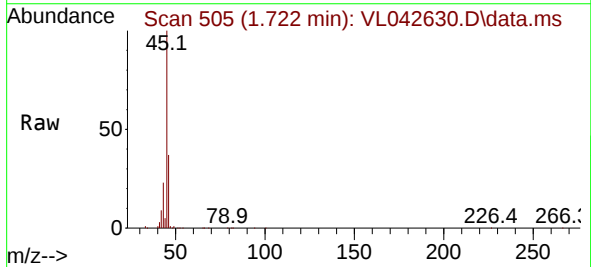
Tgt Ion:101 Resp: 13434
Ion Ratio Lower Upper
101 100
103 64.5 51.5 77.3

Manual Integrations
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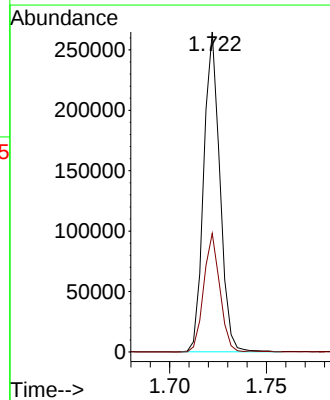
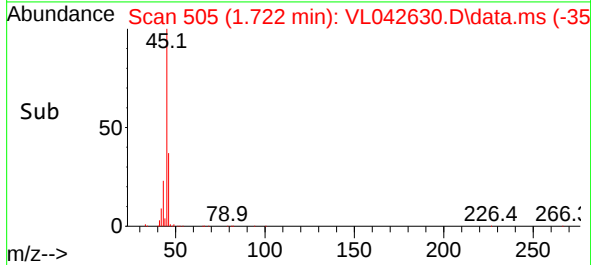
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

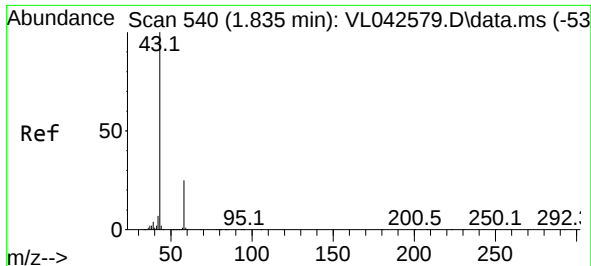


#13
Ethanol
Concen: 170.164 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46



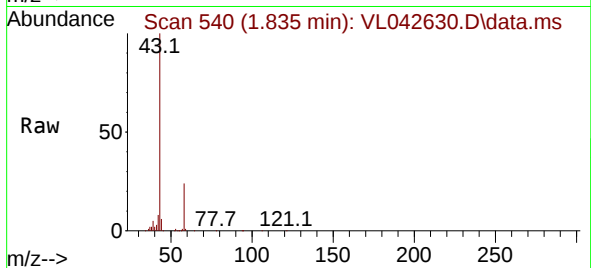
Tgt Ion: 45 Resp: 153596
Ion Ratio Lower Upper
45 100
46 37.3 14.5 58.1





#15
Acetone
Concen: 5.479 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

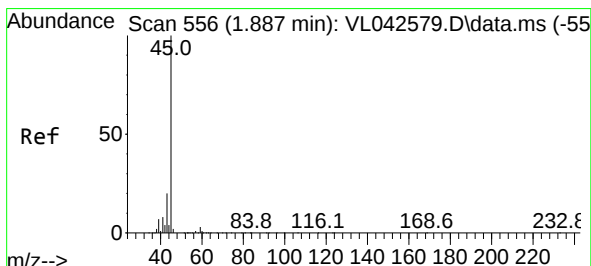
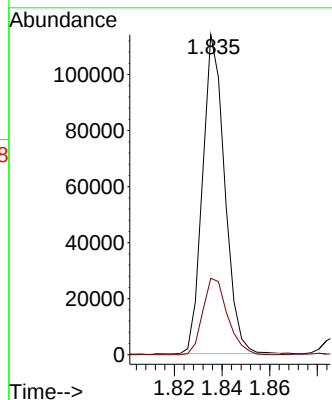
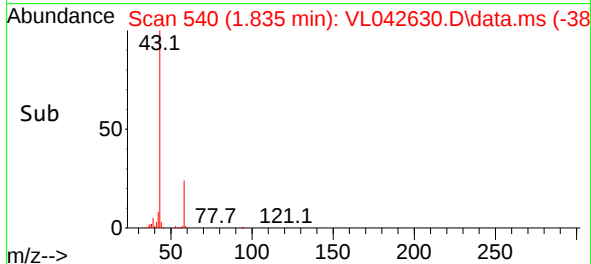
Instrument :
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ClientSampleId :
115-SG1



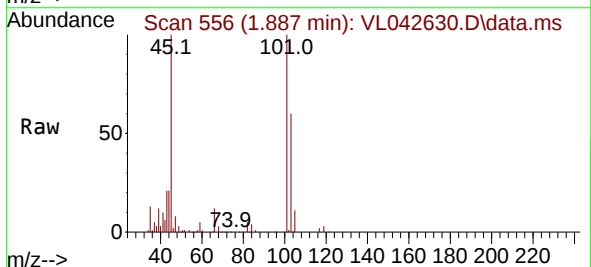
Tgt Ion: 43 Resp: 73330
Ion Ratio Lower Upper
43 100
58 27.0 21.0 31.4

Manual Integrations
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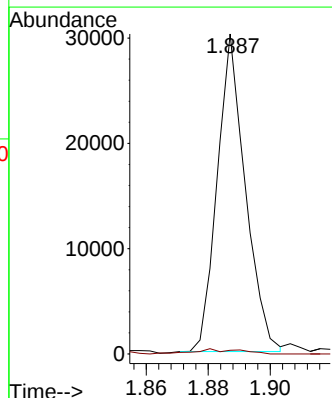
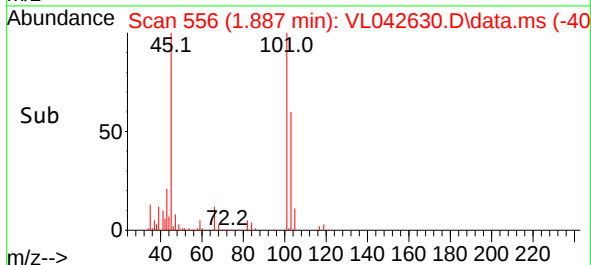
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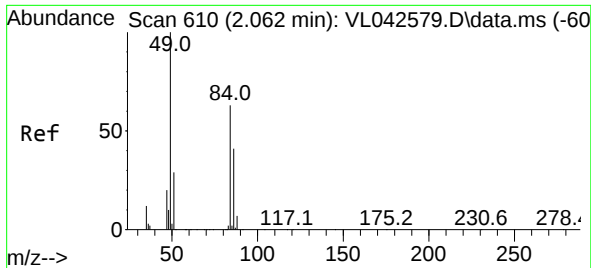


#19
Isopropyl Alcohol
Concen: 2.373 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46



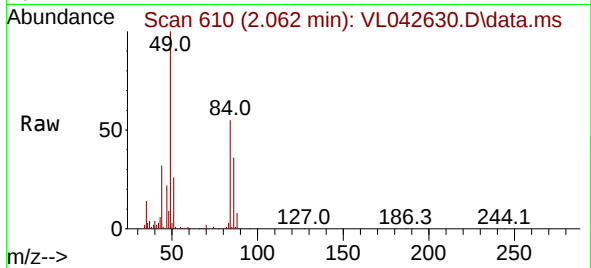
Tgt Ion: 45 Resp: 18985
Ion Ratio Lower Upper
45 100
58 104.2 29.4 44.2#





#20
Methylene Chloride
Concen: 2.036 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

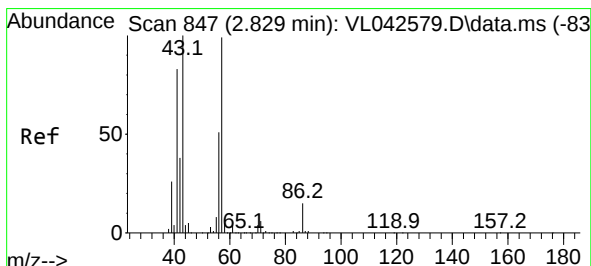
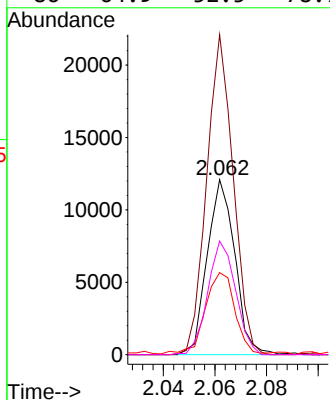
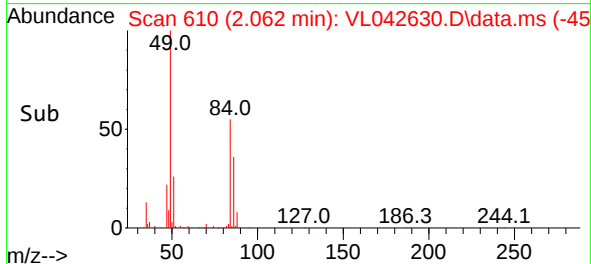
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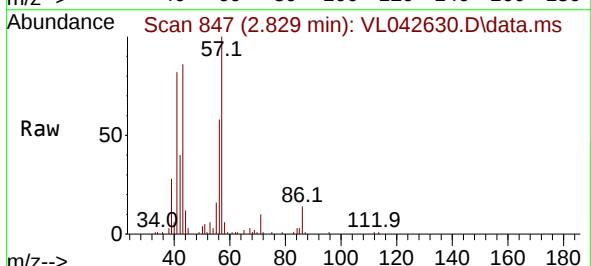
Tgt Ion: 84 Resp: 8992
Ion Ratio Lower Upper
84 100
49 182.9 128.8 193.2
51 45.6 38.6 57.8
86 64.9 52.5 78.7

Manual Integrations
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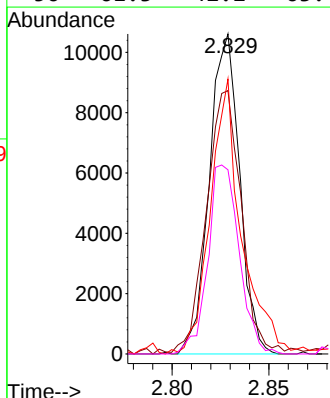
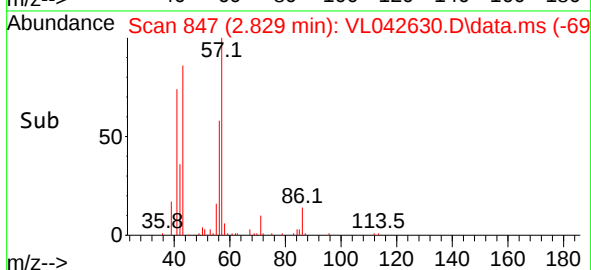
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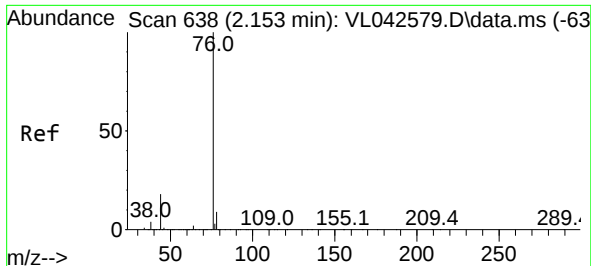


#26
Hexane
Concen: 0.694 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46



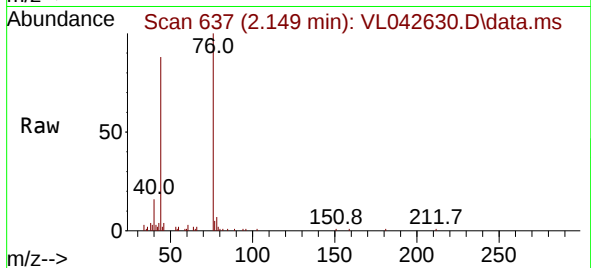
Tgt Ion: 57 Resp: 11551
Ion Ratio Lower Upper
57 100
41 91.2 70.6 106.0
43 87.1 181.1 271.7#
56 61.3 42.2 63.4





#27
Carbon Disulfide
Concen: 0.586 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

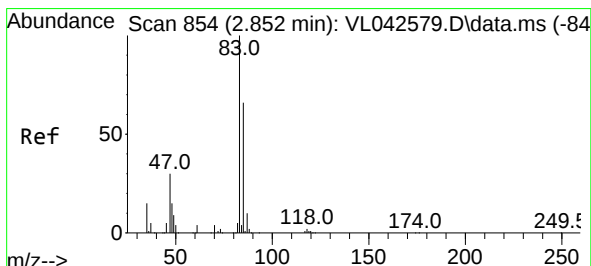
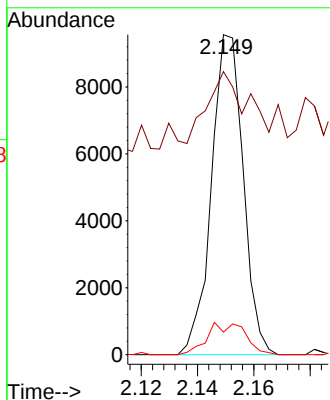
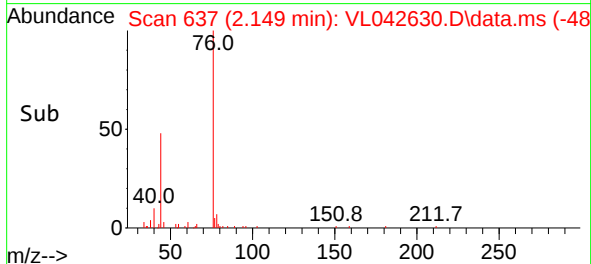
Instrument :
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ClientSampleId :
115-SG1



Tgt Ion: 76 Resp: 7484
Ion Ratio Lower Upper
76 100
44 189.6 21.3 31.9
78 12.1 9.4 14.0

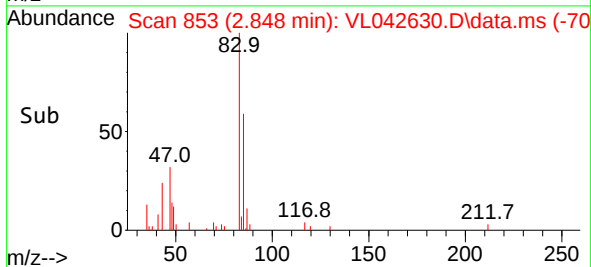
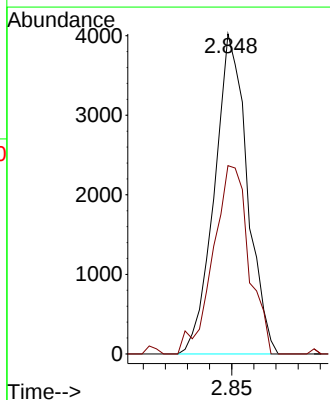
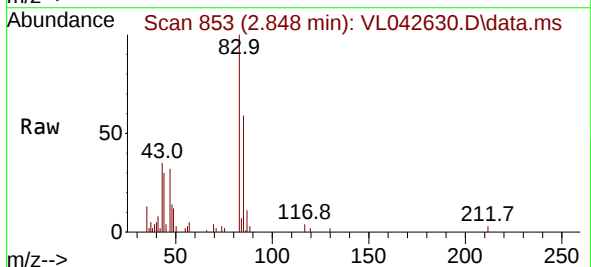
Manual Integrations
APPROVED

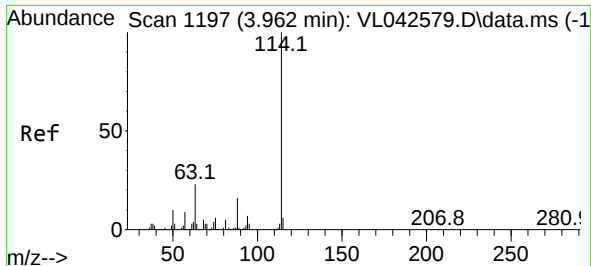
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#29
Chloroform
Concen: 0.192 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

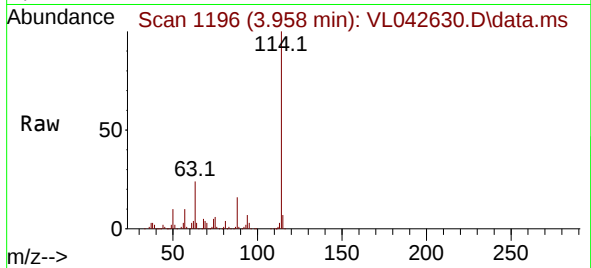
Tgt Ion: 83 Resp: 4149
Ion Ratio Lower Upper
83 100
85 58.8 52.8 79.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

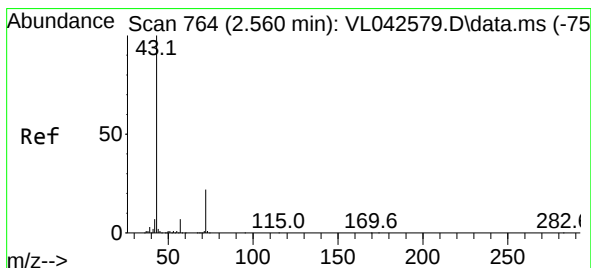
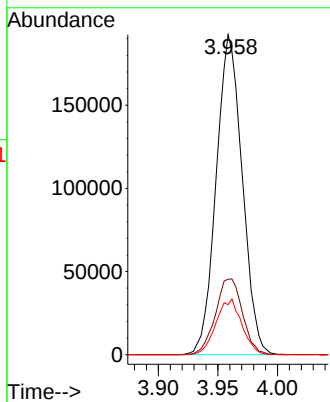
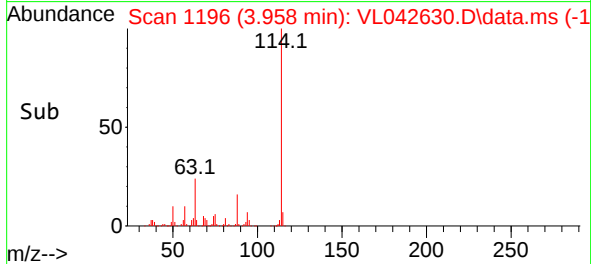
Instrument :
MSVOA_L
ClientSampleId :
115-SG1



Tgt Ion:114 Resp: 291950
Ion Ratio Lower Upper
114 100
63 24.7 19.0 28.6
88 17.2 13.6 20.4

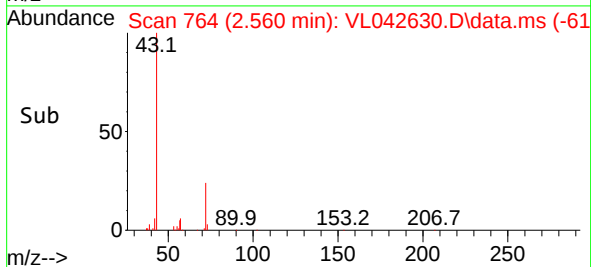
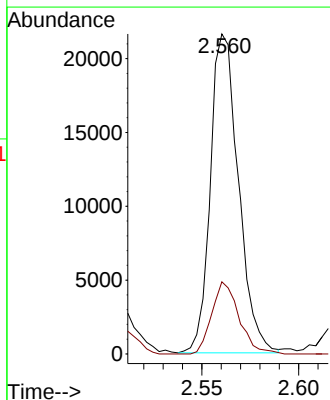
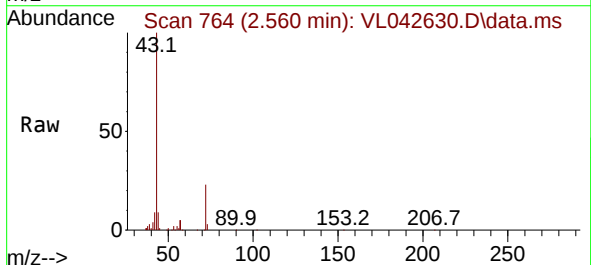
Manual Integrations
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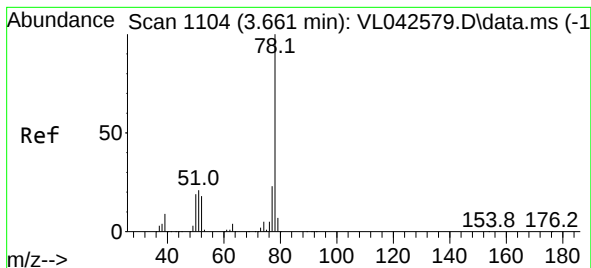
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#34
2-Butanone
Concen: 1.046 ppbv
RT: 2.560 min Scan# 764
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 43 Resp: 21779
Ion Ratio Lower Upper
43 100
72 22.0 17.7 26.5





#36

Benzene

Concen: 2.220 ppbv

RT: 3.657 min Scan# 1103

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_L

ClientSampleId :

115-SG1

Tgt Ion: 78 Resp: 63818

Ion Ratio Lower Upper

78 100

77 25.1 18.2 27.2

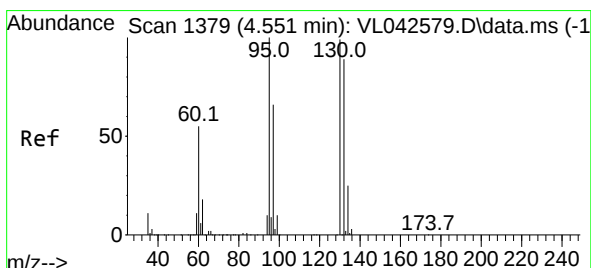
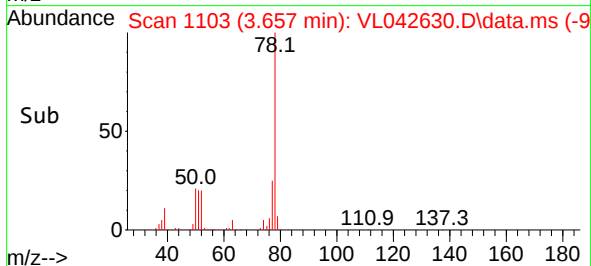
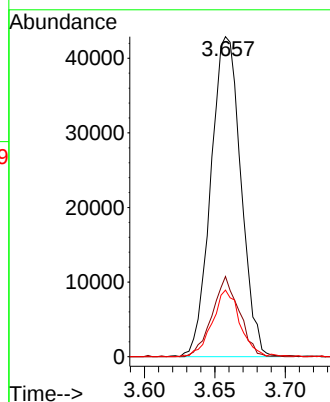
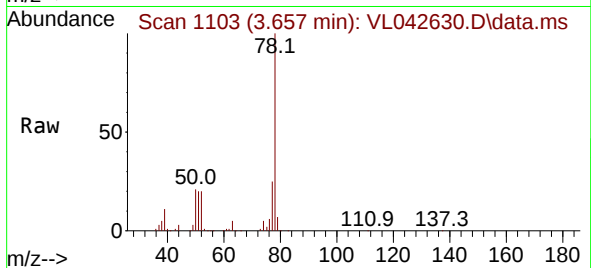
50 20.7 15.2 22.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/17/2025

Supervised By :Mahesh Dadoda 06/17/2025



#38

Trichloroethene

Concen: 1.230 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Tgt Ion:130 Resp: 15028

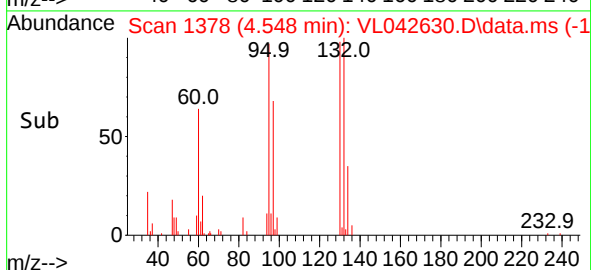
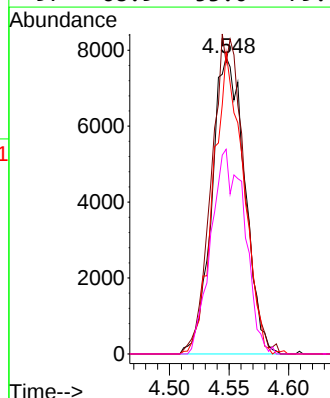
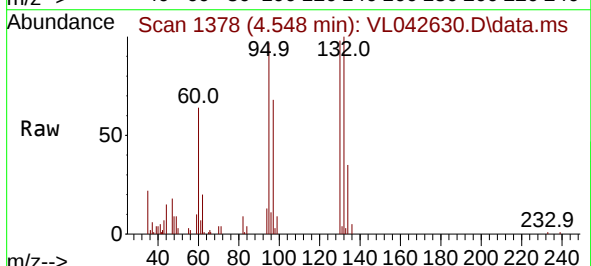
Ion Ratio Lower Upper

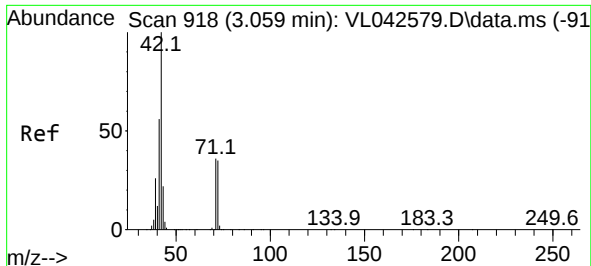
130 100

95 98.1 80.6 121.0

132 101.5 71.8 107.6

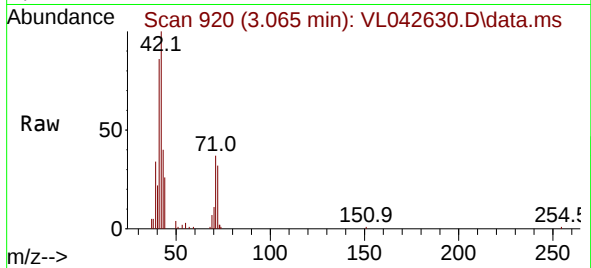
97 68.9 53.0 79.4





#41
Tetrahydrofuran
Concen: 0.534 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

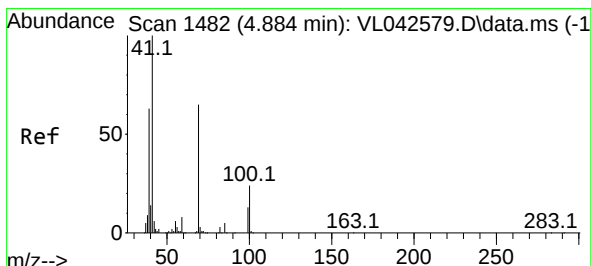
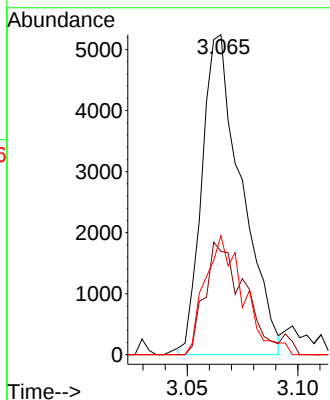
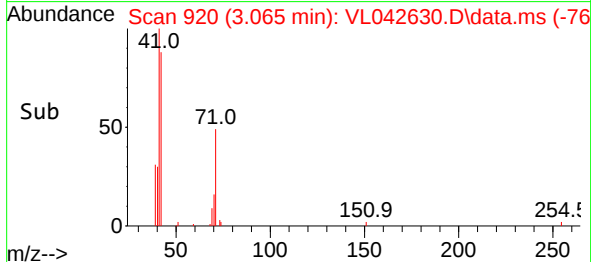
Instrument :
MSVOA_L
ClientSampleId :
115-SG1



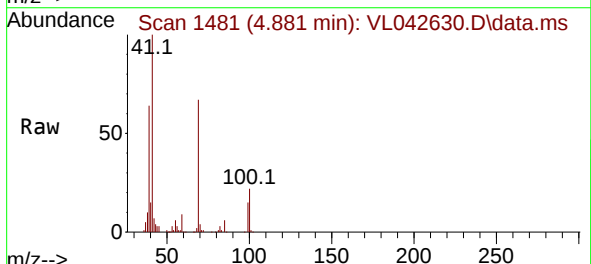
Tgt Ion: 42 Resp: 651
Ion Ratio Lower Upper
42 100
72 36.7 28.9 43.3
71 36.4 28.5 42.7

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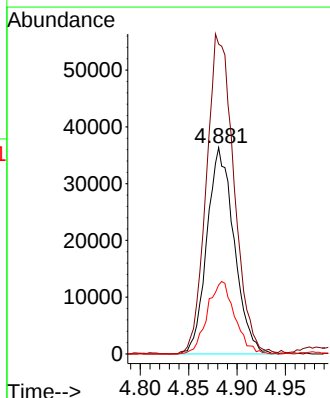
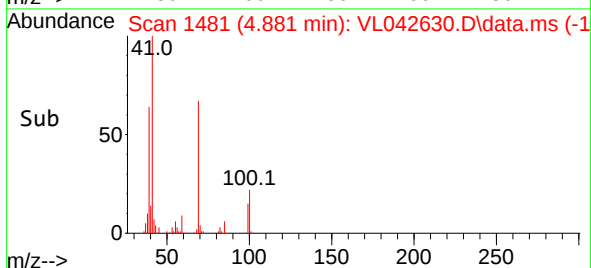
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

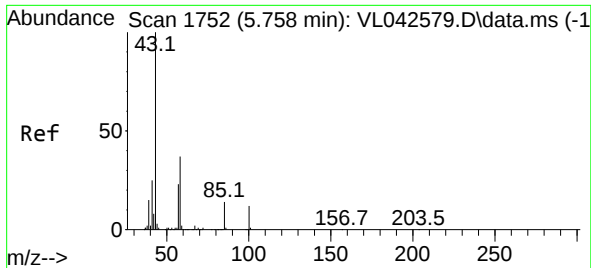


#43
Methyl Methacrylate
Concen: 6.364 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46



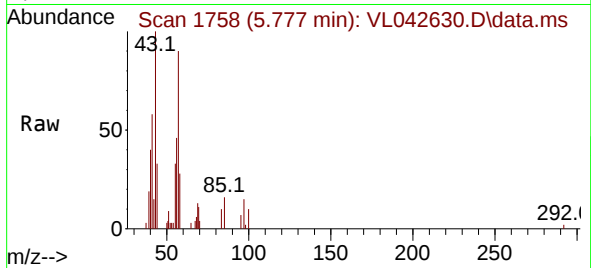
Tgt Ion: 69 Resp: 71010
Ion Ratio Lower Upper
69 100
41 156.9 124.6 187.0
100 35.6 29.9 44.9





#50
4-Methyl-2-Pentanone
Concen: 0.332 ppbv m
RT: 5.777 min Scan# 1758
Delta R.T. 0.019 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

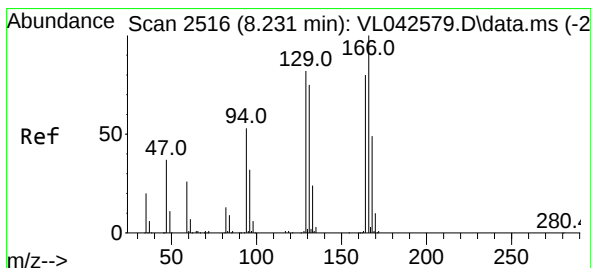
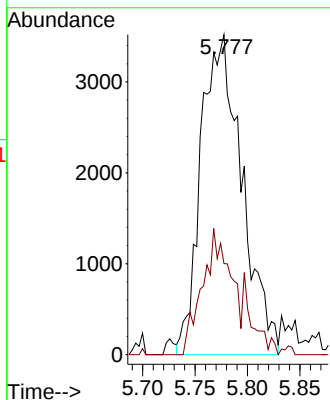
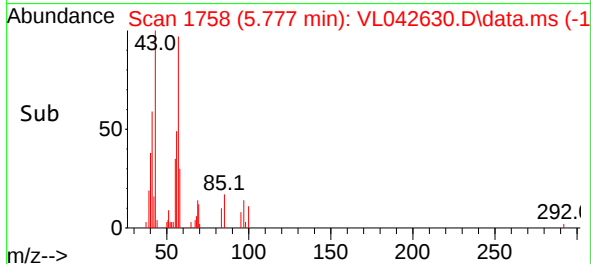
Instrument :
MSVOA_L
ClientSampleId :
115-SG1



Tgt Ion: 43 Resp: 957
Ion Ratio Lower Upper
43 100
58 0.0 28.3 42.5

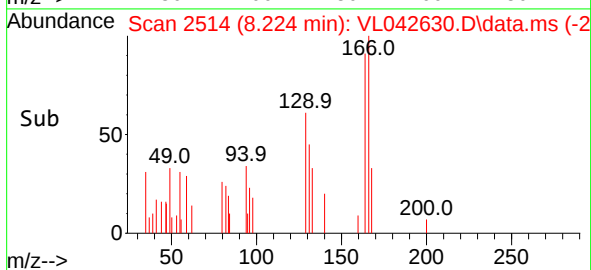
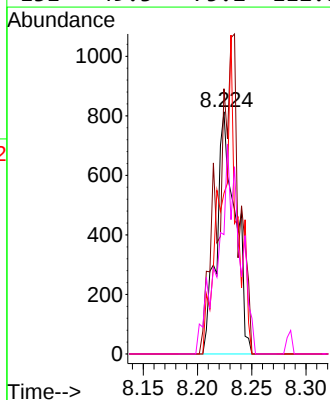
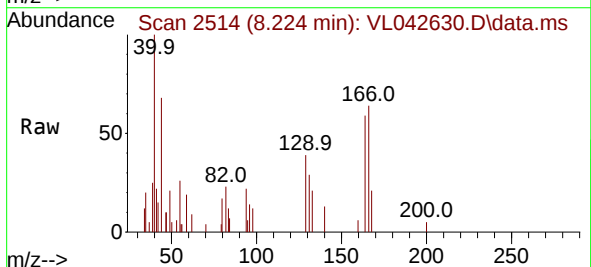
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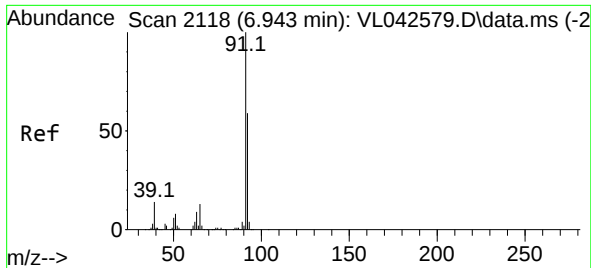
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#52
Tetrachloroethene
Concen: 0.091 ppbv m
RT: 8.224 min Scan# 2514
Delta R.T. -0.007 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

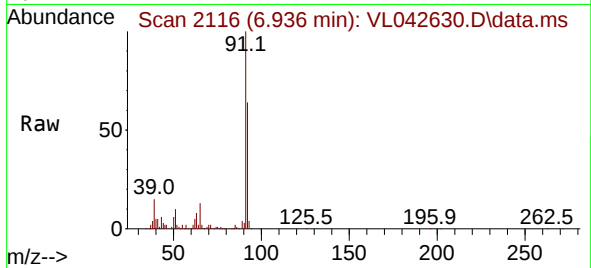
Tgt Ion:164 Resp: 983
Ion Ratio Lower Upper
164 100
166 109.5 100.0 150.0
129 66.3 82.2 123.4#
131 49.3 75.2 112.8#





#53
Toluene
Concen: 2.880 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.007 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

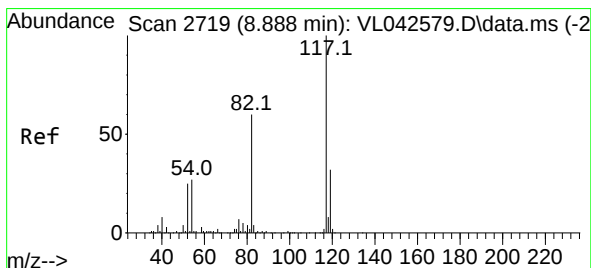
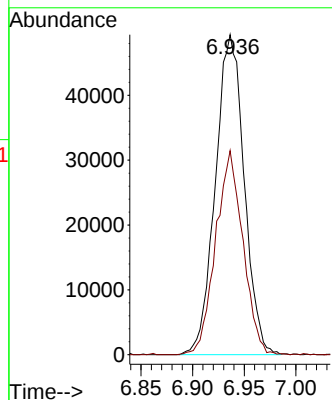
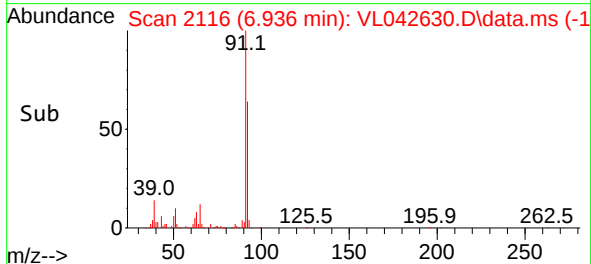
Instrument : MSVOA_L
ClientSampleId : 115-SG1



Tgt Ion: 91 Resp: 9571
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4

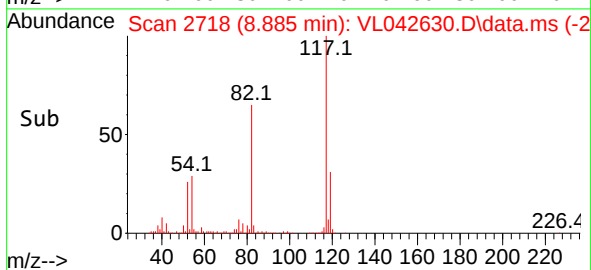
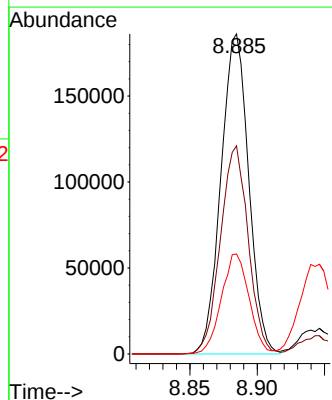
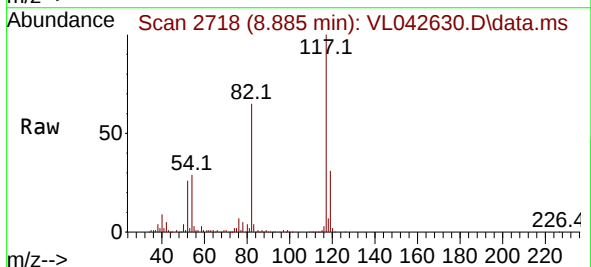
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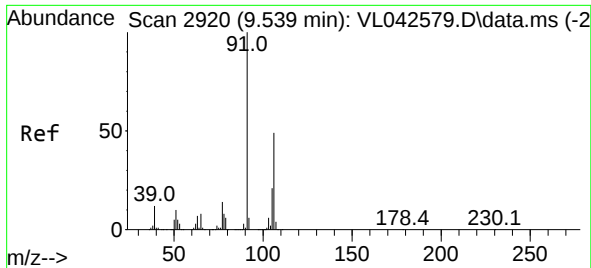
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion:117 Resp: 266931
Ion Ratio Lower Upper
117 100
82 65.1 51.2 76.8
119 31.4 26.3 39.5





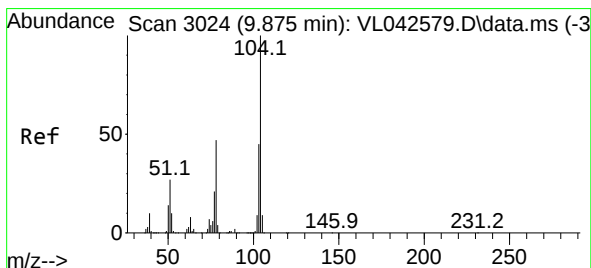
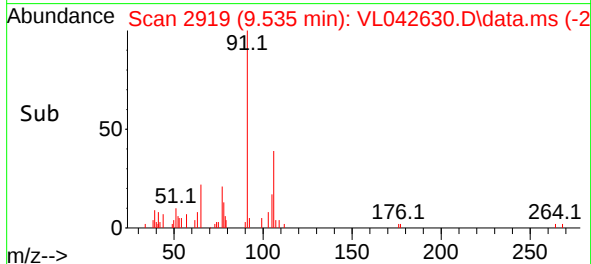
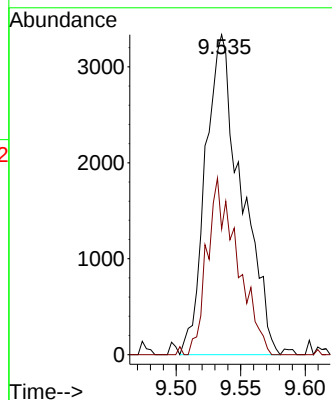
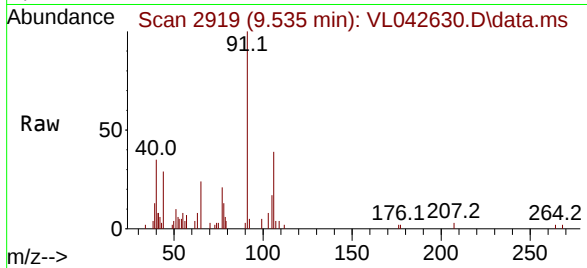
#59
m/p-Xylene
Concen: 0.182 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
115-SG1

Tgt Ion: 91 Resp: 6490
Ion Ratio Lower Upper
91 100
106 46.6 38.8 58.2

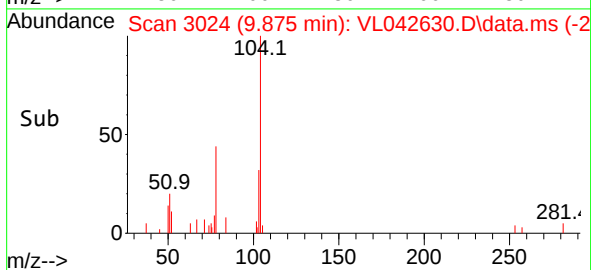
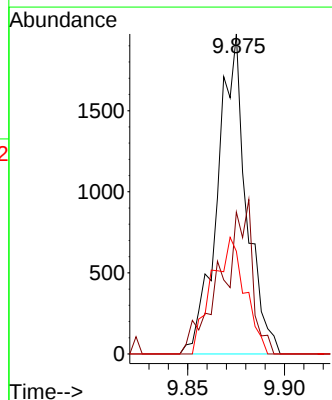
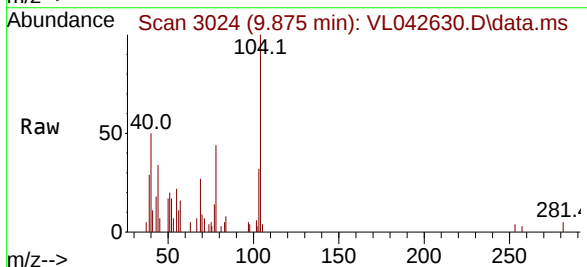
Manual Integrations
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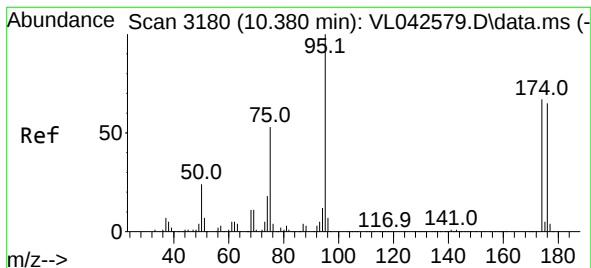
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#61
Styrene
Concen: 0.122 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion:104 Resp: 2053
Ion Ratio Lower Upper
104 100
78 50.7 38.2 57.4
103 41.4 36.7 55.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.860 ppbv

RT: 10.377 min Scan# 3180

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_L

ClientSampleId :

115-SG1

Tgt Ion: 95 Resp: 19728

Ion Ratio Lower Upper

95 100

174 62.9 53.1 79.7

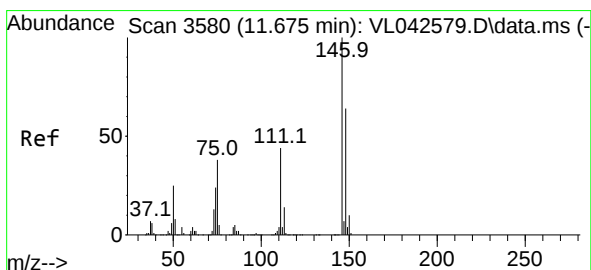
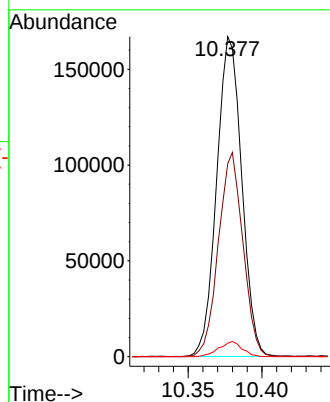
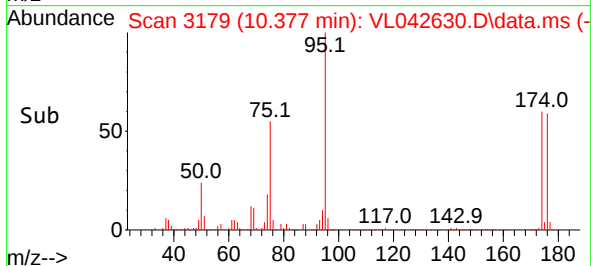
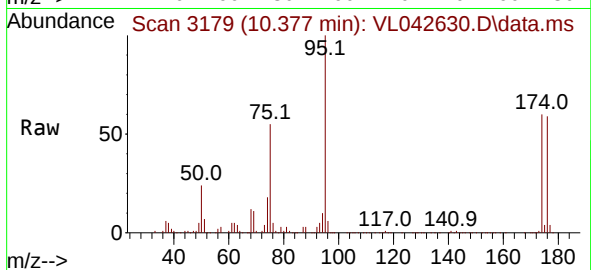
175 4.4 4.2 6.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/17/2025

Supervised By :Mahesh Dadoda 06/17/2025



#76

1,4-Dichlorobenzene

Concen: 0.139 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Tgt Ion:146 Resp: 3546

Ion Ratio Lower Upper

146 100

111 55.3 21.6 64.8

148 67.6 32.1 96.5

