

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042100.D
 Acq On : 05 Mar 2025 12:45
 Operator : SY/MD
 Sample : Q1483-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:06:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.806	49	164636	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	383796	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.907	117	323657	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	236227	9.487	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	10074	0.588	ppbv	99
3) Chlorodifluoromethane	1.482	51	117117	4.895	ppbv	94
4) Chloromethane	1.541	50	4722	0.746	ppbv #	88
7) Chloroethane	1.712	64	1286	0.529	ppbv #	78
9) Propene	1.495	41	62252m	6.386	ppbv	
10) Heptane	5.017	43	6441m	0.212	ppbv	
11) Trichlorofluoromethane	1.887	101	11993	0.699	ppbv	93
13) Ethanol	1.735	45	1322710	2137.524	ppbv	98
15) Acetone	1.845	43	1668409	114.753	ppbv #	84
19) Isopropyl Alcohol	1.916	45	5585741	668.826	ppbv #	34
20) Methylene Chloride	2.075	84	109826	19.970	ppbv	93
25) Ethyl Acetate	2.858	43	109349	1.879	ppbv #	88
27) Carbon Disulfide	2.162	76	1935	0.121	ppbv #	60
29) Chloroform	2.868	83	24361	0.769	ppbv #	83
31) cis-1,2-Dichloroethene	2.742	61	13521	0.607	ppbv	94
34) 2-Butanone	2.576	43	36674	1.227	ppbv	99
35) Carbon Tetrachloride	3.784	117	2378m	0.090	ppbv	
36) Benzene	3.680	78	9735	0.242	ppbv #	82
38) Trichloroethene	4.580	130	15072m	0.919	ppbv	
41) Tetrahydrofuran	3.088	42	15212m	0.861	ppbv	
43) Methyl Methacrylate	4.920	69	63798	4.066	ppbv	96
49) Bromoform	9.509	173	2024m	0.096	ppbv	
52) Tetrachloroethene	8.254	164	542455	39.439	ppbv	96
53) Toluene	6.975	91	19809	0.441	ppbv	98
59) m/p-Xylene	9.555	91	8116m	0.171	ppbv	
74) 1,2,4-Trimethylbenzene	11.555	105	5959	0.105	ppbv #	69
76) 1,4-Dichlorobenzene	11.694	146	6297	0.194	ppbv	91

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

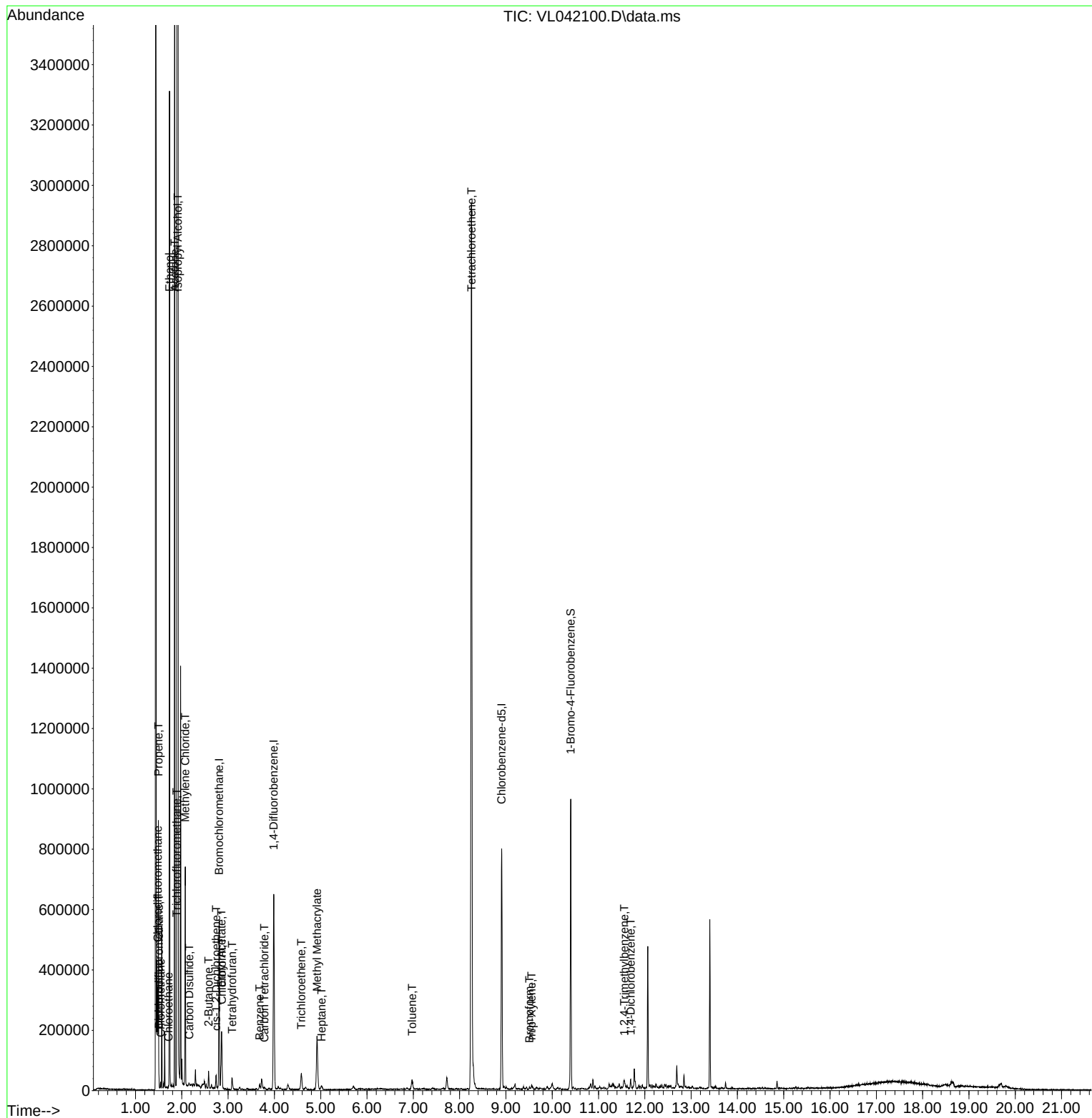
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
Data File : VL042100.D
Acq On : 05 Mar 2025 12:45
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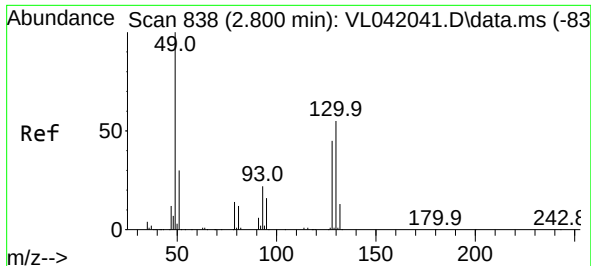
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Mar 06 01:06:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

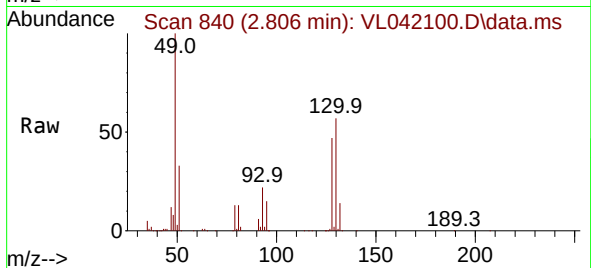
Reviewed By : Semsettin Yesilyurt 03/06/2025
Supervised By : Mahesh Dadoda 03/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

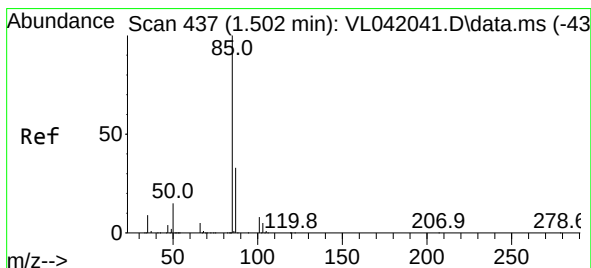
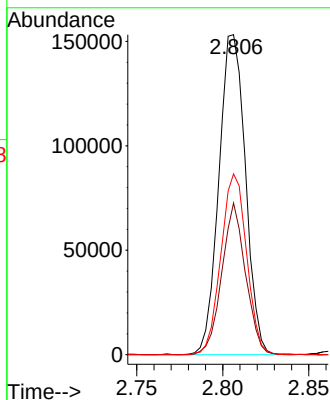
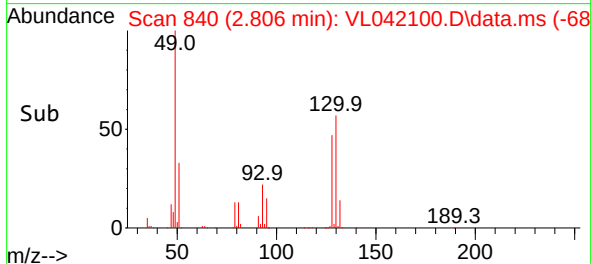
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 164630
Ion Ratio Lower Upper
49 100
128 42.4 21.6 64.8
130 54.6 27.8 83.4

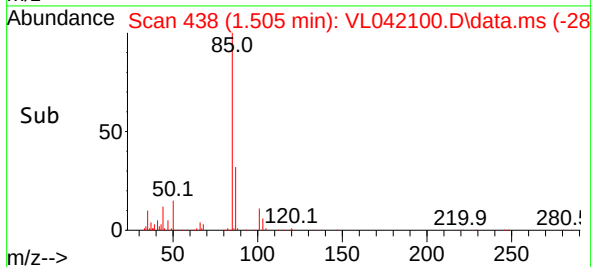
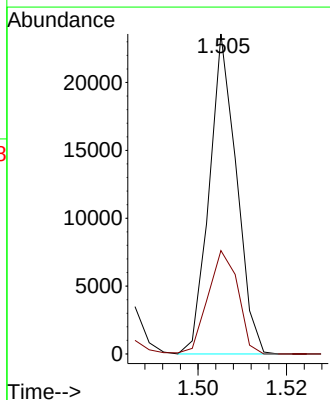
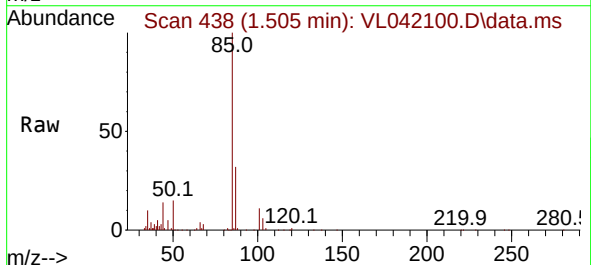
Manual Integrations
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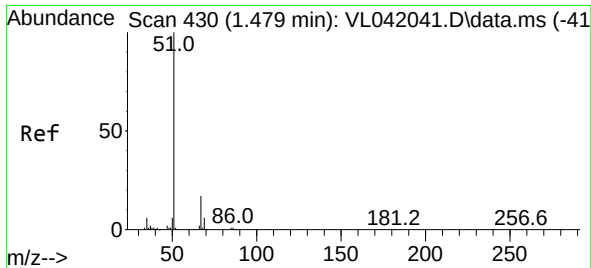
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#2
Dichlorodifluoromethane
Concen: 0.588 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

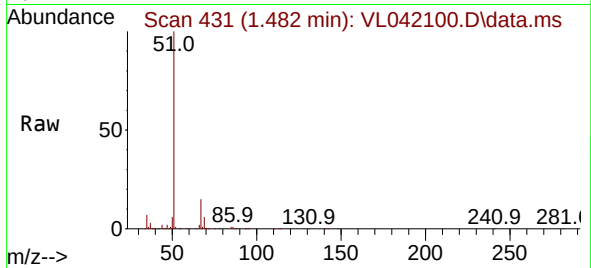
Tgt Ion: 85 Resp: 10074
Ion Ratio Lower Upper
85 100
87 32.3 26.4 39.6





#3
Chlorodifluoromethane
Concen: 4.895 ppbv
RT: 1.482 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

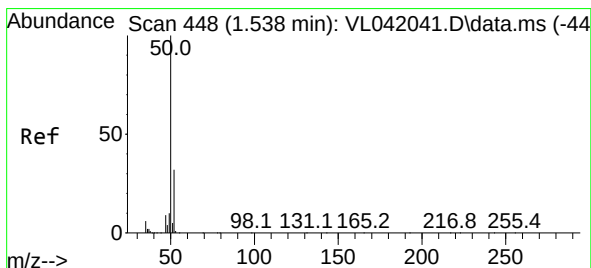
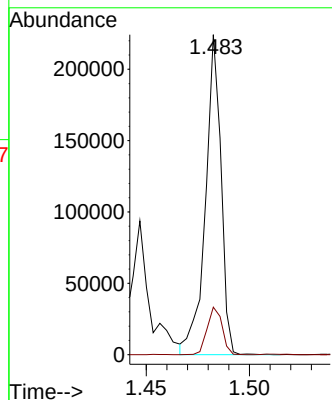
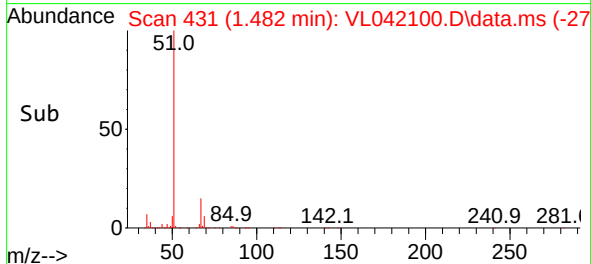
Instrument :
MSVOA_L
ClientSampleId :
IA2



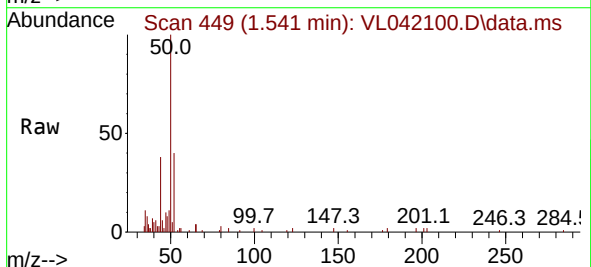
Tgt Ion: 51 Resp: 11711
Ion Ratio Lower Upper
51 100
67 14.6 13.7 20.5

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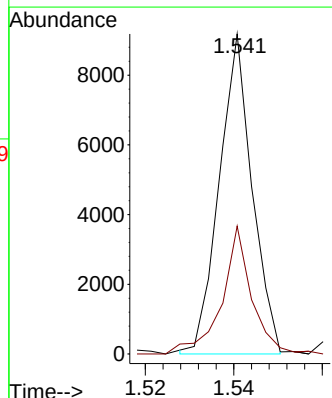
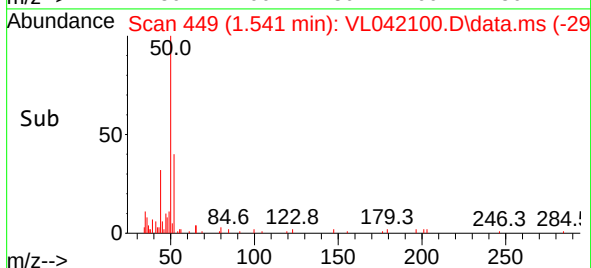
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

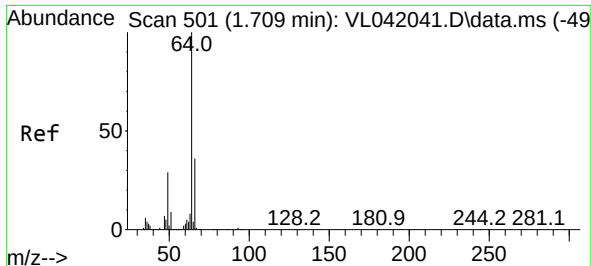


#4
Chloromethane
Concen: 0.746 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



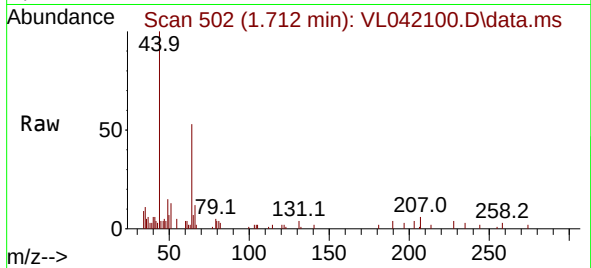
Tgt Ion: 50 Resp: 4722
Ion Ratio Lower Upper
50 100
52 38.3 25.4 38.0#





#7
Chloroethane
Concen: 0.529 ppbv
RT: 1.712 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

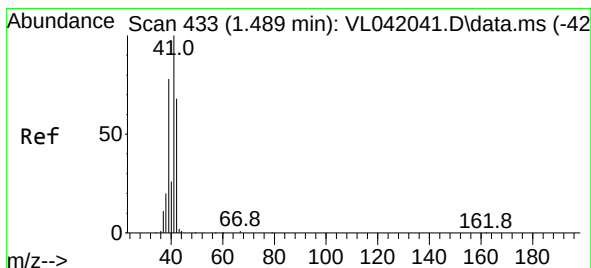
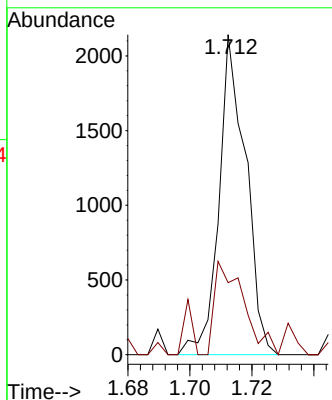
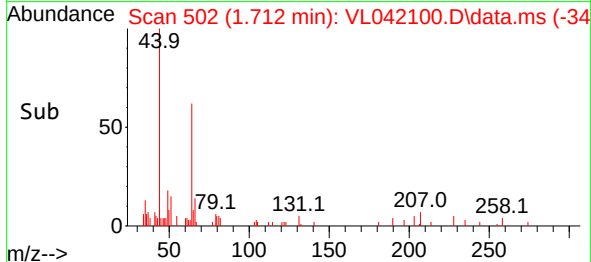
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 64 Resp: 1280
Ion Ratio Lower Upper
64 100
66 22.5 28.4 42.6

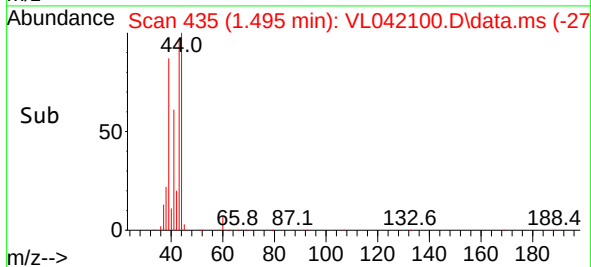
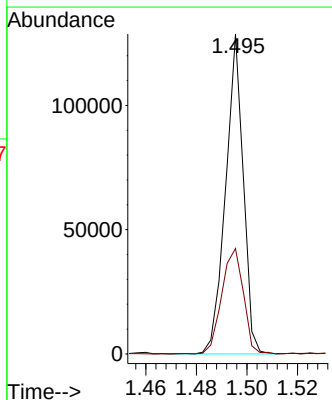
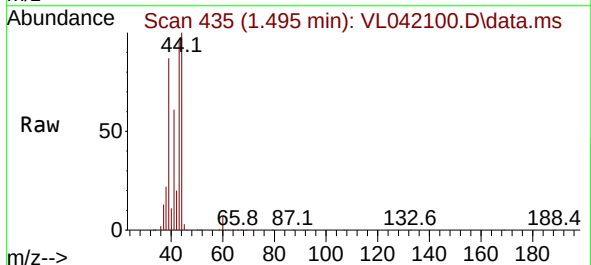
Manual Integrations
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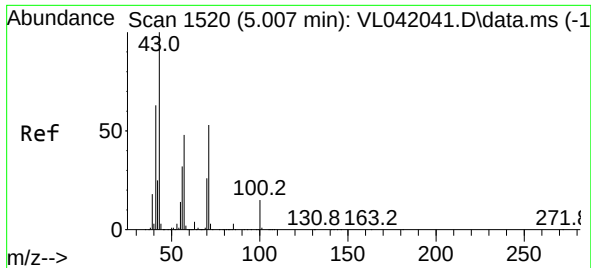
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#9
Propene
Concen: 6.386 ppbv m
RT: 1.495 min Scan# 435
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Tgt Ion: 41 Resp: 62252
Ion Ratio Lower Upper
41 100
42 60.3 55.8 83.6





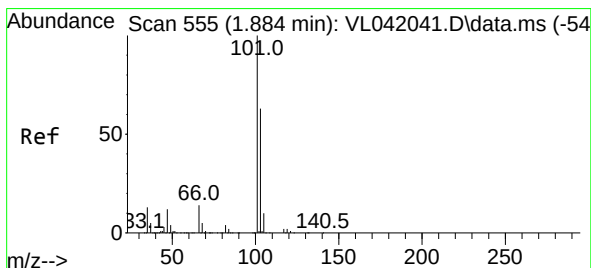
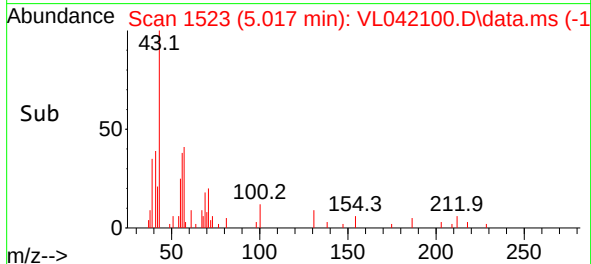
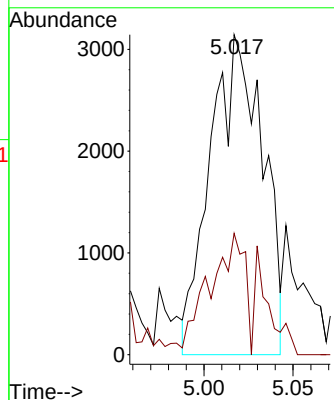
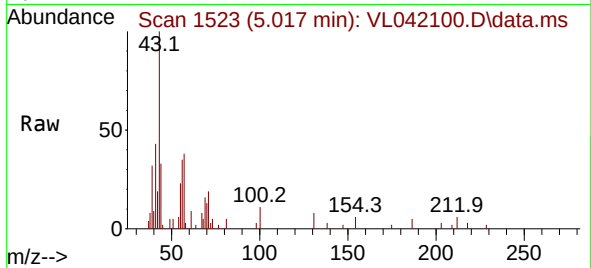
#10
Heptane
Concen: 0.212 ppbv m
RT: 5.017 min Scan# 1523
Delta R.T. 0.009 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 644
Ion Ratio Lower Upper
43 100
57 37.2 39.4 59.0

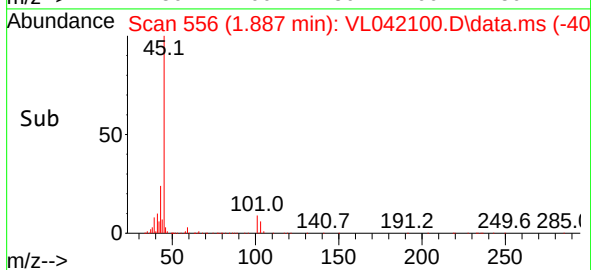
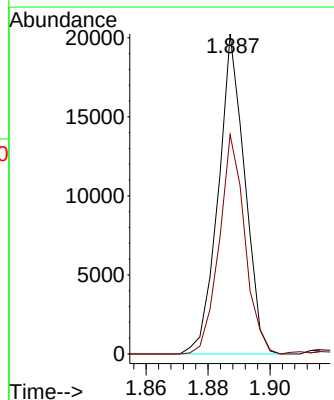
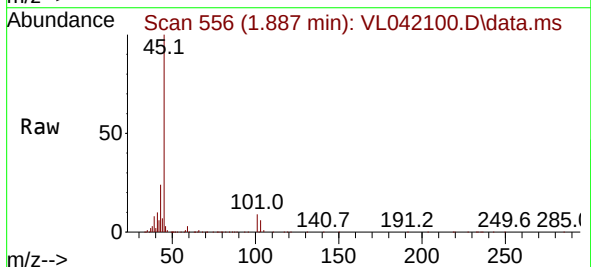
Manual Integrations
APPROVED

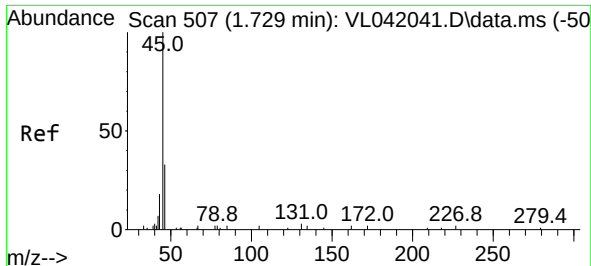
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#11
Trichlorofluoromethane
Concen: 0.699 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

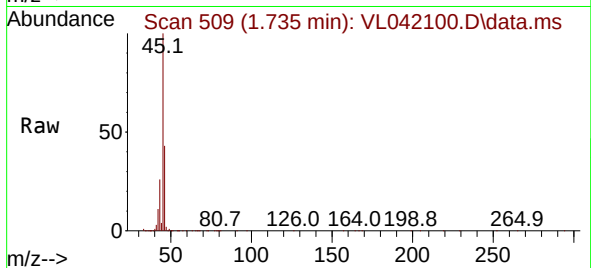
Tgt Ion:101 Resp: 11993
Ion Ratio Lower Upper
101 100
103 68.6 50.6 75.8





#13
Ethanol
Concen: 2137.524 ppbv
RT: 1.735 min Scan# 507
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

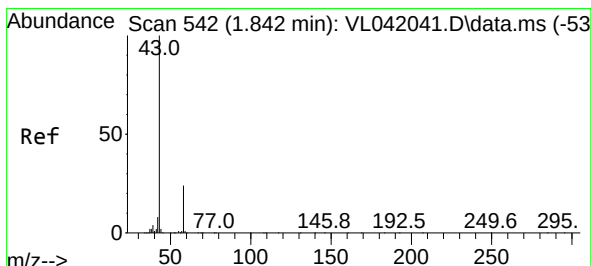
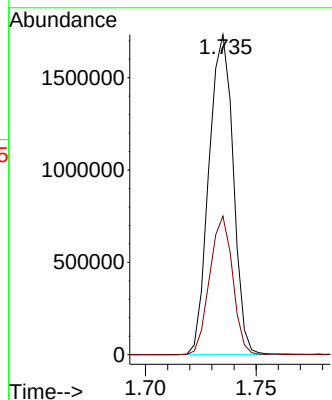
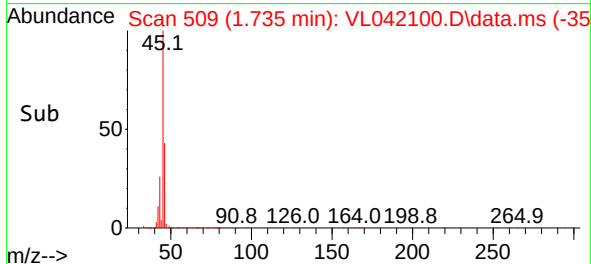
Instrument :
MSVOA_L
ClientSampleId :
IA2



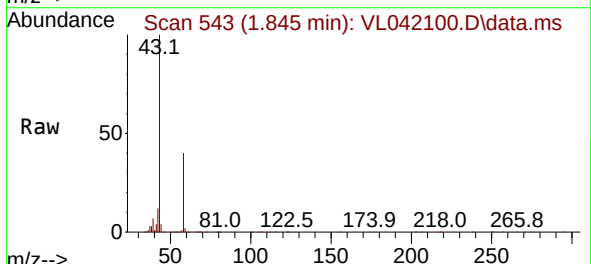
Tgt Ion: 45 Resp: 1322710
Ion Ratio Lower Upper
45 100
46 41.1 17.1 68.3

Manual Integrations
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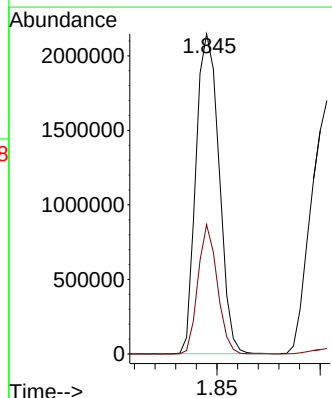
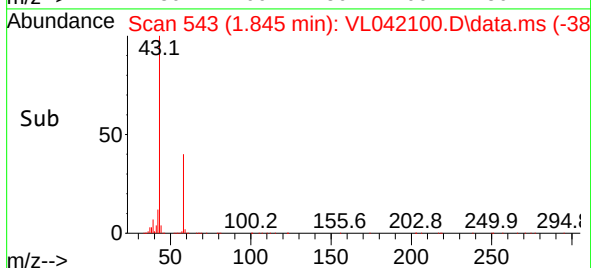
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

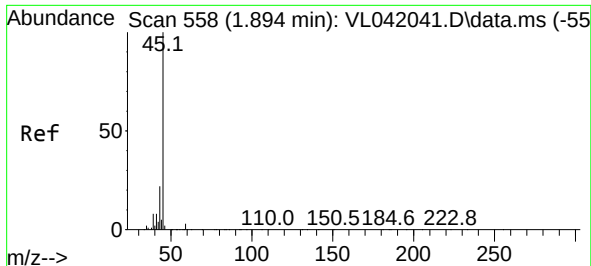


#15
Acetone
Concen: 114.753 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



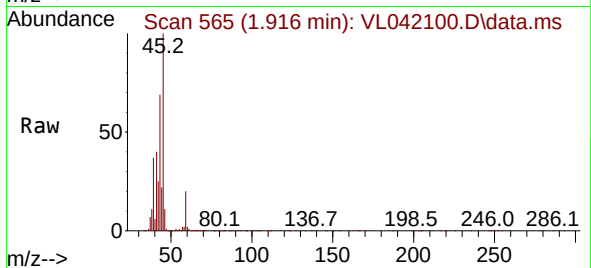
Tgt Ion: 43 Resp: 1668409
Ion Ratio Lower Upper
43 100
58 33.9 20.7 31.1#





#19
Isopropyl Alcohol
Concen: 668.826 ppbv
RT: 1.916 min Scan# 558
Delta R.T. 0.022 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

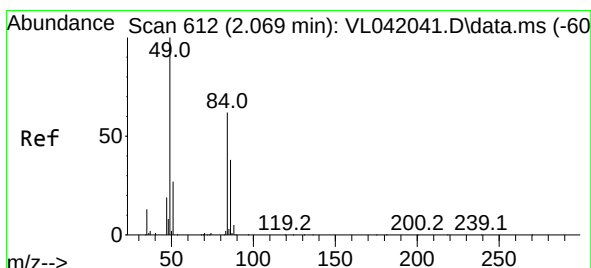
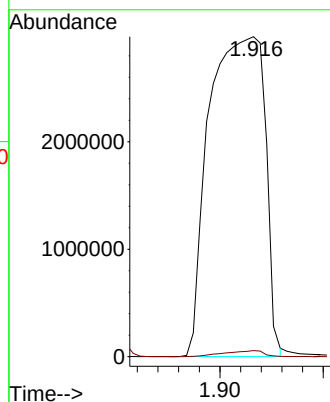
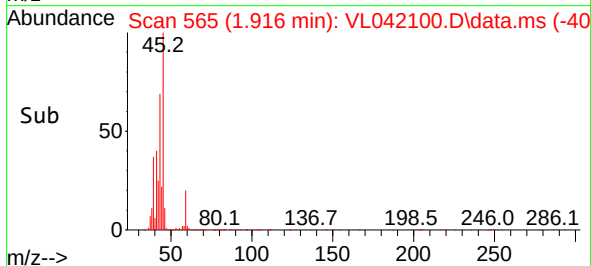
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 558574
Ion Ratio Lower Upper
45 100
58 1.4 35.3 52.9

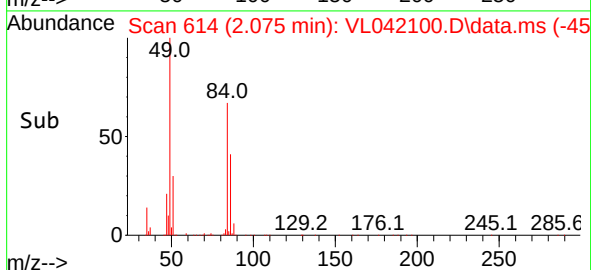
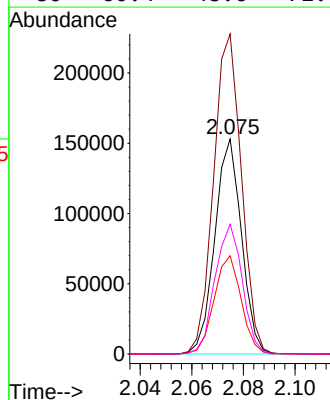
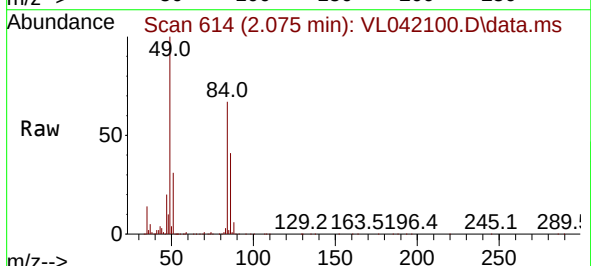
Manual Integrations
APPROVED

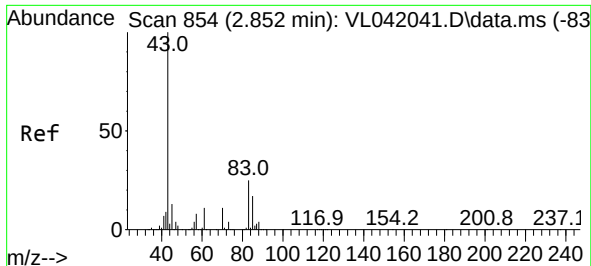
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#20
Methylene Chloride
Concen: 19.970 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

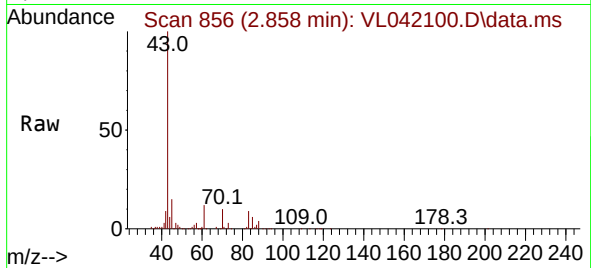
Tgt Ion: 84 Resp: 109826
Ion Ratio Lower Upper
84 100
49 148.7 130.0 195.0
51 45.6 37.4 56.0
86 60.4 48.6 72.8





#25
Ethyl Acetate
Concen: 1.879 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

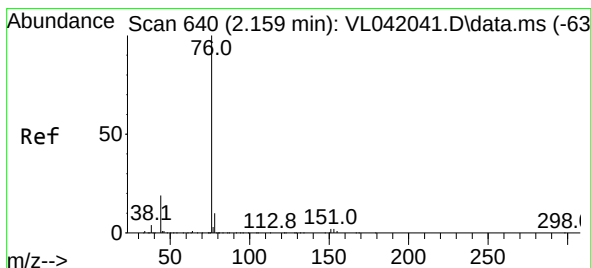
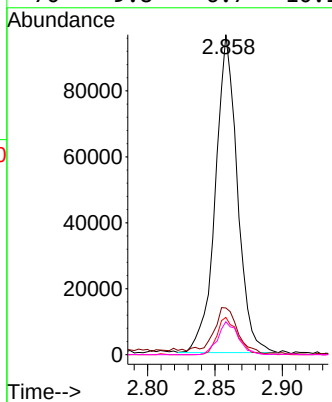
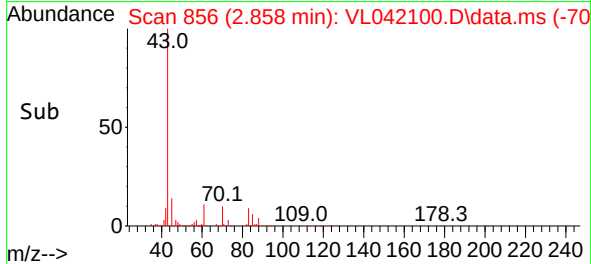
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 109349
Ion Ratio Lower Upper
43 100
45 19.0 8.1 12.1#
61 11.1 7.2 10.8#
70 9.8 6.7 10.1#

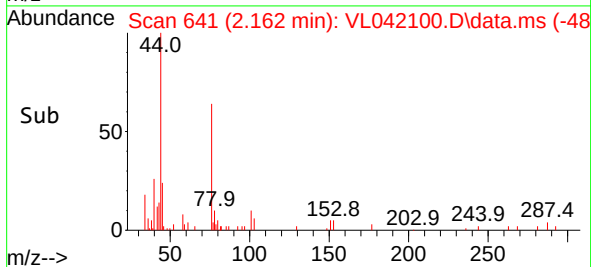
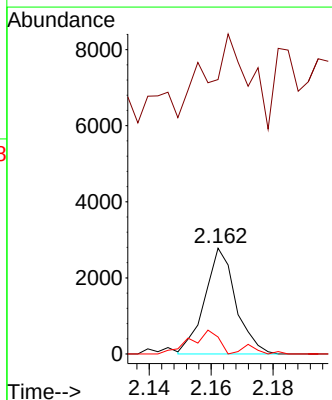
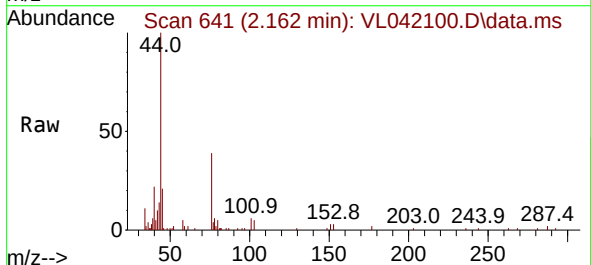
Manual Integrations
APPROVED

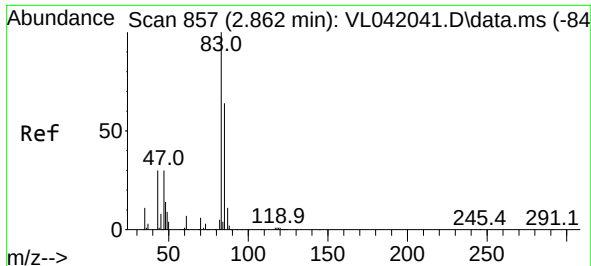
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#27
Carbon Disulfide
Concen: 0.121 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Tgt Ion: 76 Resp: 1935
Ion Ratio Lower Upper
76 100
44 0.0 16.2 24.2#
78 24.3 9.4 14.0#





#29

Chloroform

Concen: 0.769 ppbv

RT: 2.868 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 83 Resp: 2436

Ion Ratio Lower Upper

83 100

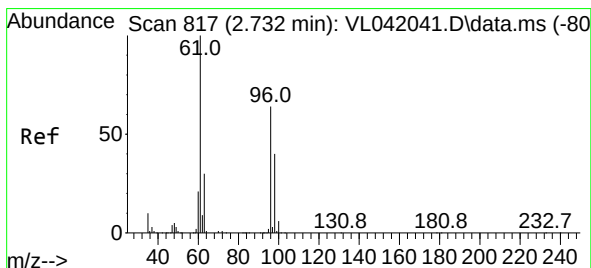
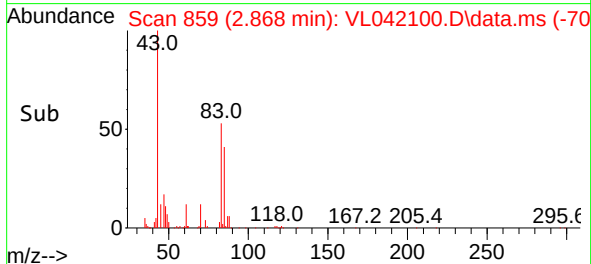
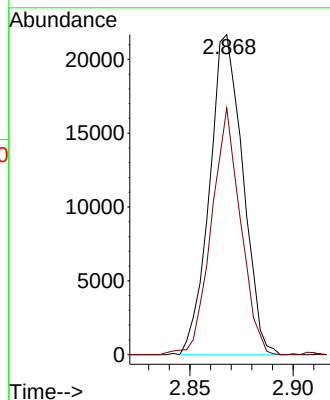
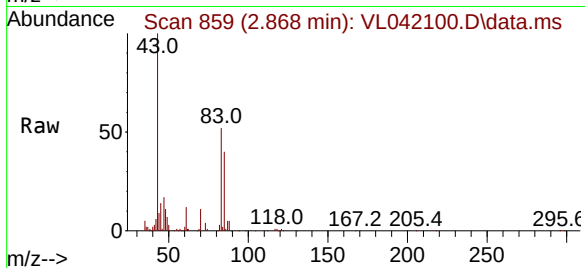
85 77.1 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#31

cis-1,2-Dichloroethene

Concen: 0.607 ppbv

RT: 2.742 min Scan# 820

Delta R.T. 0.009 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

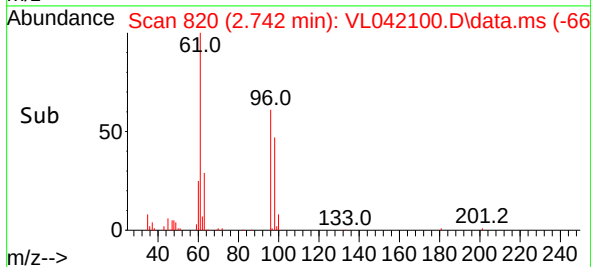
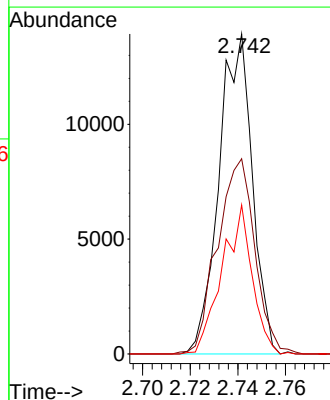
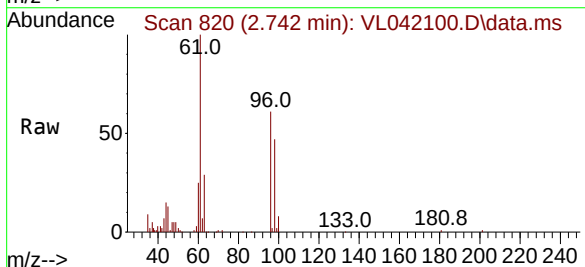
Tgt Ion: 61 Resp: 13521

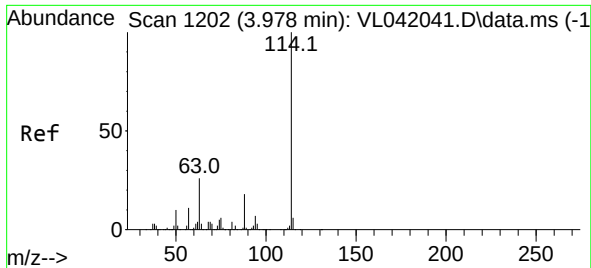
Ion Ratio Lower Upper

61 100

96 62.4 51.5 77.3

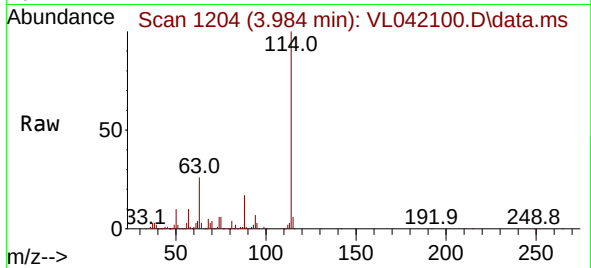
98 46.6 32.0 48.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.984 min Scan# 114
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

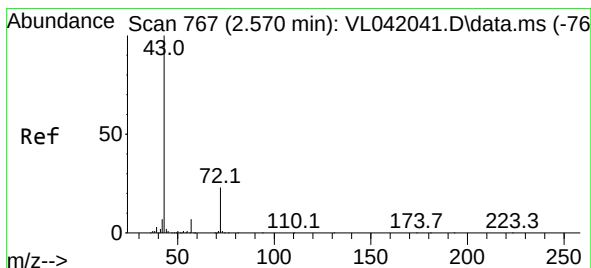
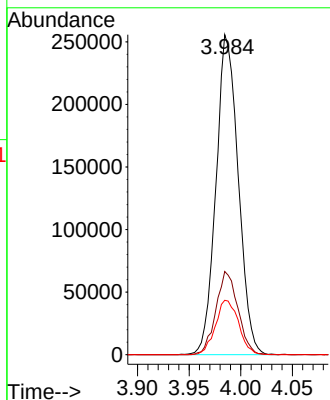
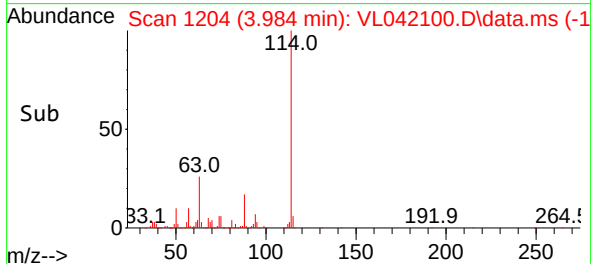
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:114 Resp: 383790
Ion Ratio Lower Upper
114 100
63 25.7 20.1 30.1
88 17.7 14.3 21.5

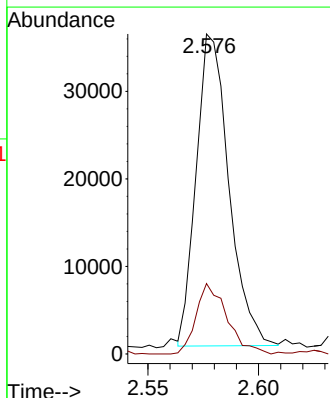
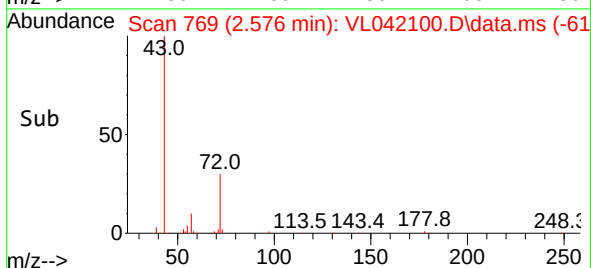
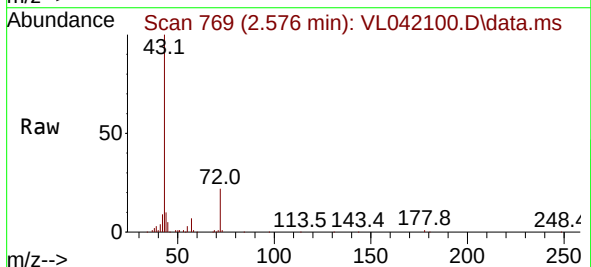
Manual Integrations
APPROVED

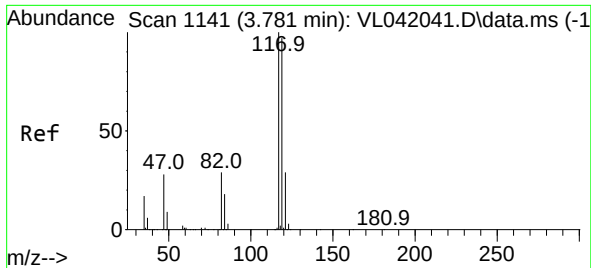
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#34
2-Butanone
Concen: 1.227 ppbv
RT: 2.576 min Scan# 769
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

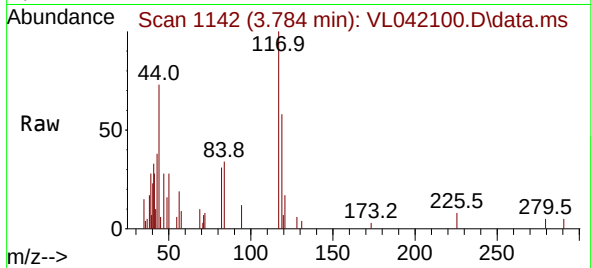
Tgt Ion: 43 Resp: 36674
Ion Ratio Lower Upper
43 100
72 22.5 18.5 27.7





#35
Carbon Tetrachloride
Concen: 0.090 ppbv m
RT: 3.784 min Scan# 1141
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

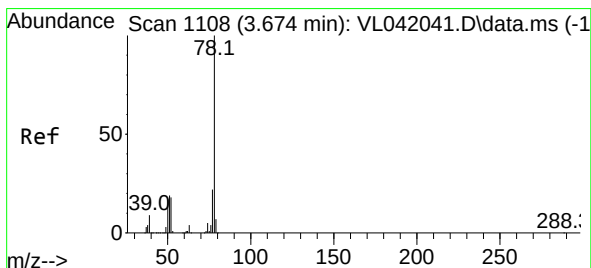
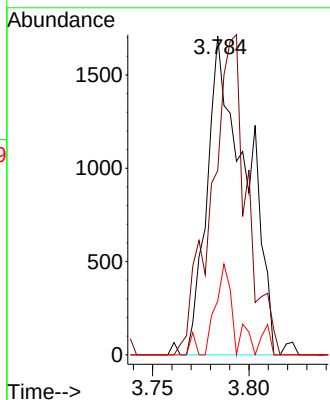
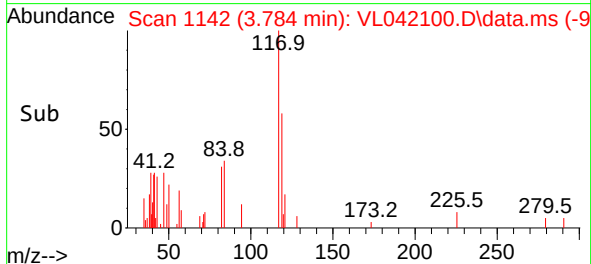
Instrument :
MSVOA_L
ClientSampleId :
IA2



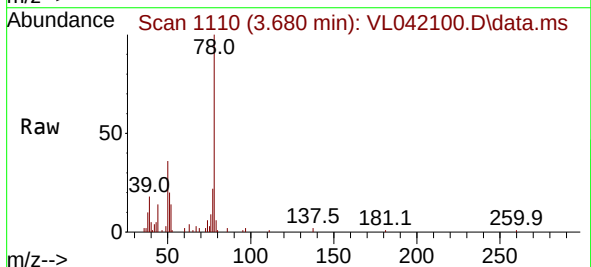
Tgt Ion:117 Resp: 2378
Ion Ratio Lower Upper
117 100
119 57.8 77.8 116.8
121 16.9 23.4 35.0

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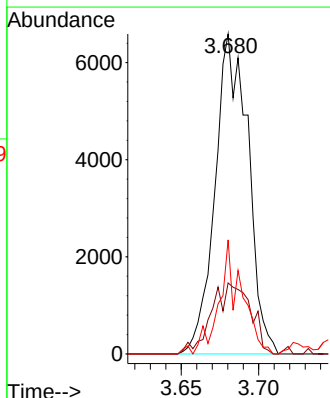
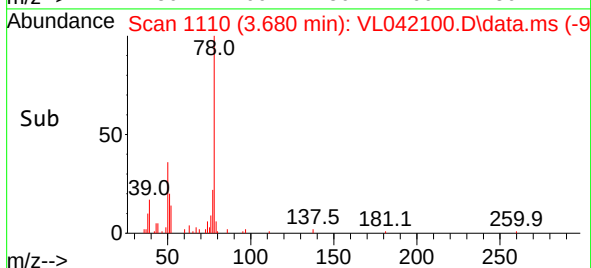
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

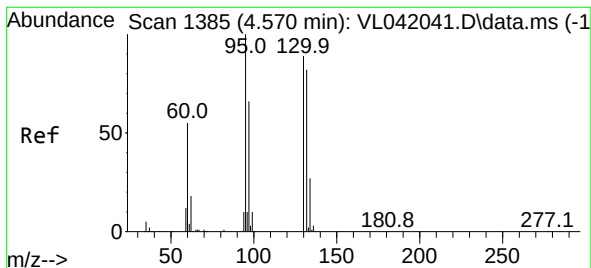


#36
Benzene
Concen: 0.242 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



Tgt Ion: 78 Resp: 9735
Ion Ratio Lower Upper
78 100
77 22.2 17.7 26.5
50 35.6 13.9 20.9





#38

Trichloroethene

Concen: 0.919 ppbv m

RT: 4.580 min Scan# 1388

Delta R.T. 0.010 min

Lab File: VL042100.D

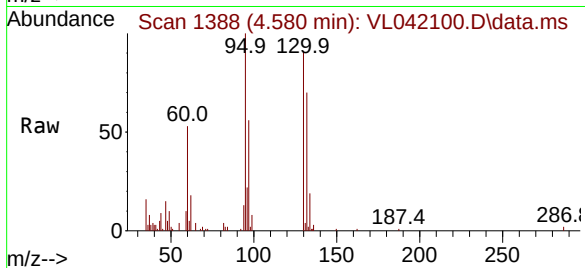
Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

IA2



Tgt Ion:130 Resp: 15072

Ion Ratio Lower Upper

130 100

95 110.2 89.5 134.3

132 77.7 73.8 110.6

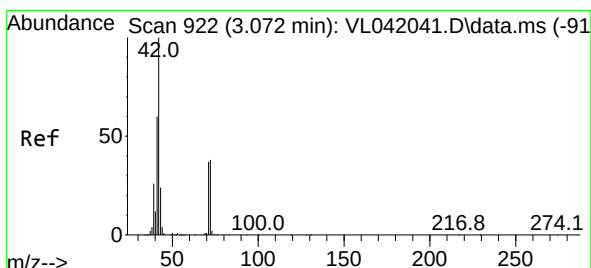
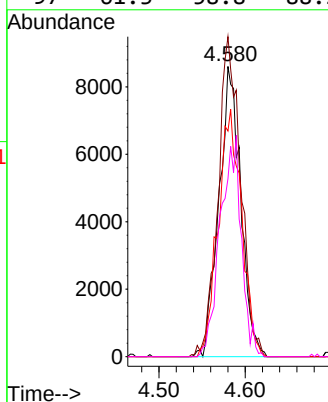
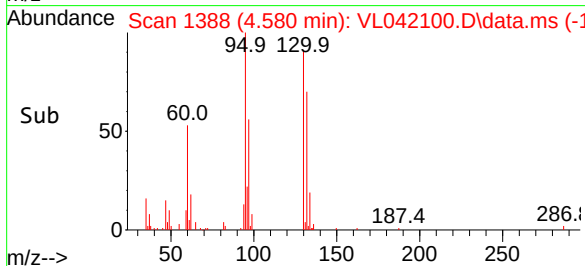
97 61.3 58.8 88.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#41

Tetrahydrofuran

Concen: 0.861 ppbv m

RT: 3.088 min Scan# 927

Delta R.T. 0.016 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

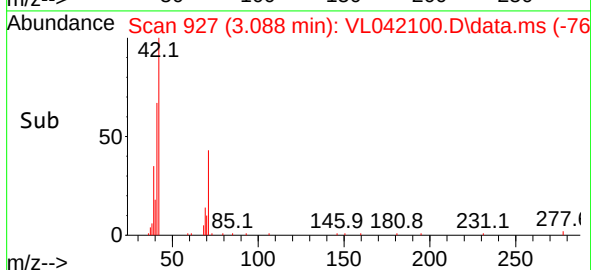
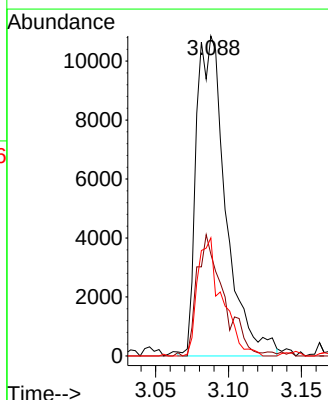
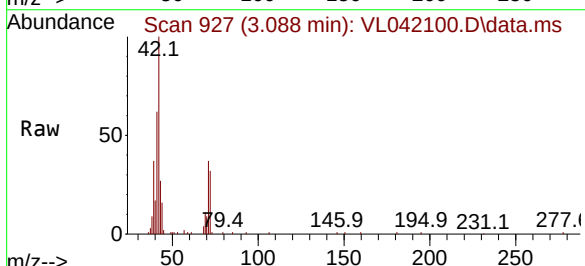
Tgt Ion: 42 Resp: 15212

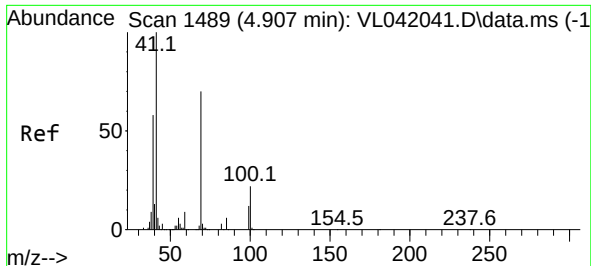
Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

71 0.0 28.2 42.4#





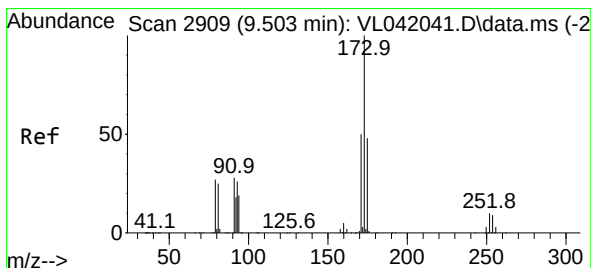
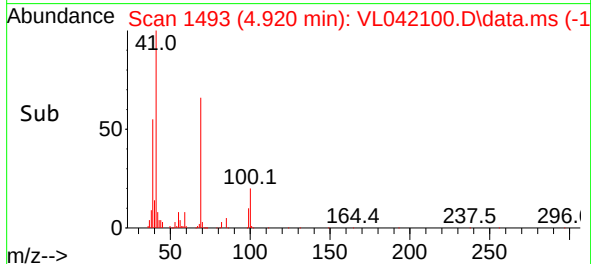
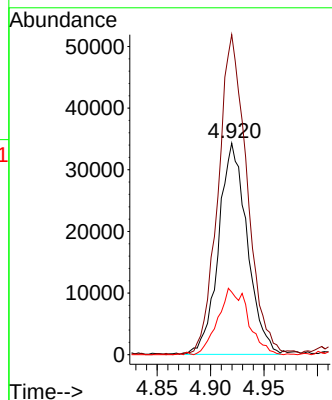
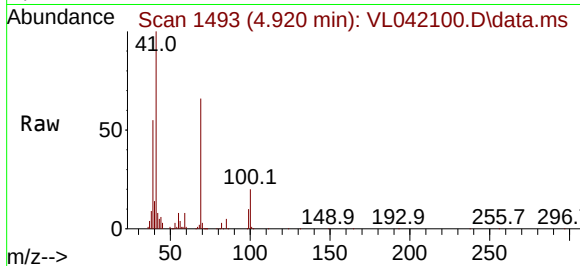
#43
Methyl Methacrylate
Concen: 4.066 ppbv
RT: 4.920 min Scan# 1489
Delta R.T. 0.013 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 69 Resp: 63798
Ion Ratio Lower Upper
69 100
41 154.1 118.2 177.4
100 33.5 27.0 40.4

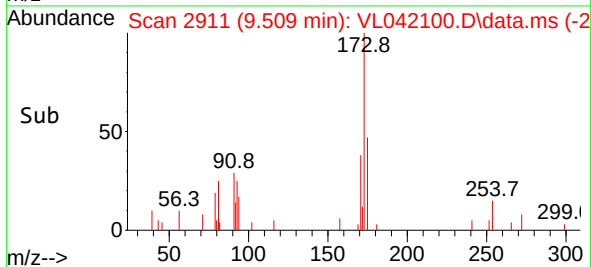
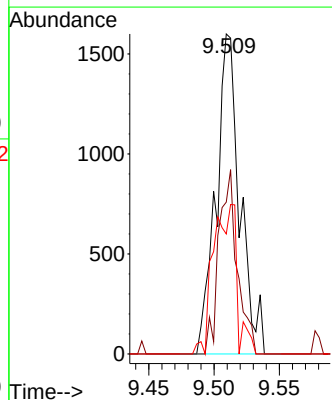
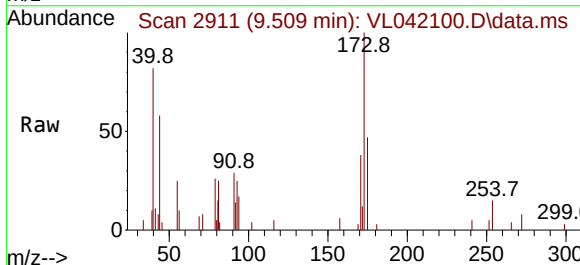
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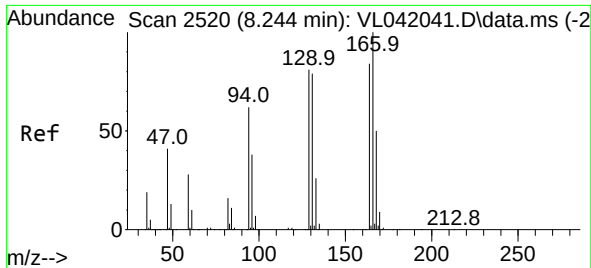
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#49
Bromoform
Concen: 0.096 ppbv m
RT: 9.509 min Scan# 2911
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

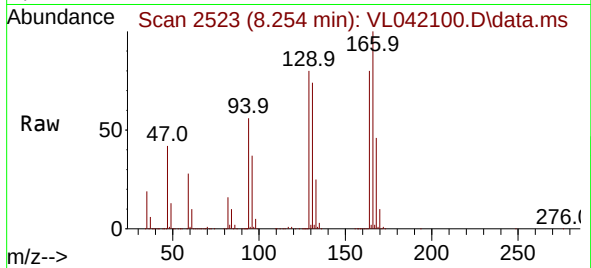
Tgt Ion:173 Resp: 2024
Ion Ratio Lower Upper
173 100
175 44.5 38.3 57.5
171 46.6 40.2 60.2





#52
Tetrachloroethene
Concen: 39.439 ppbv
RT: 8.254 min Scan# 2128
Delta R.T. 0.009 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

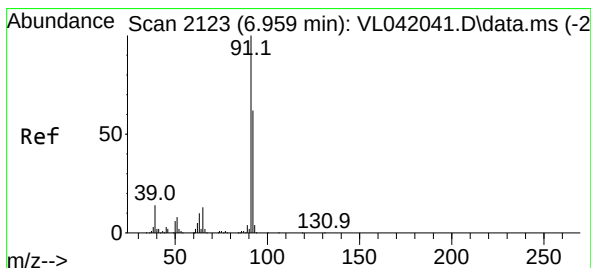
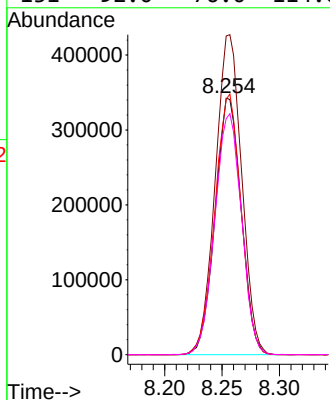
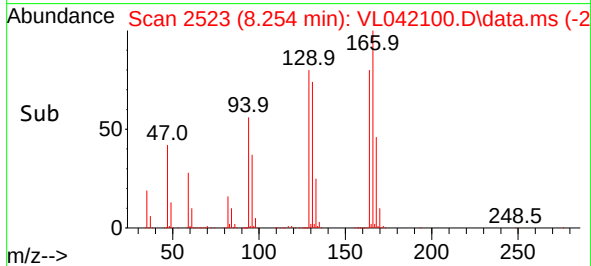
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 54245
Ion Ratio Lower Upper
164 100
166 124.2 95.7 143.5
129 99.5 77.1 115.7
131 92.0 76.0 114.0

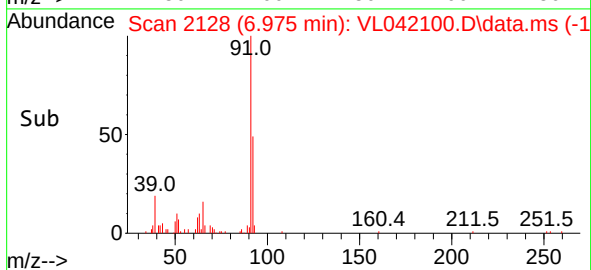
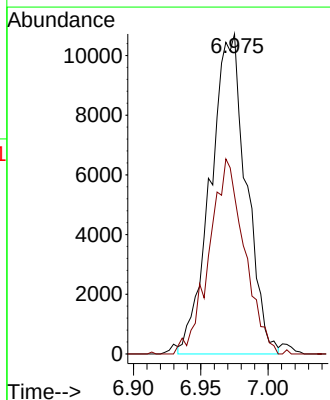
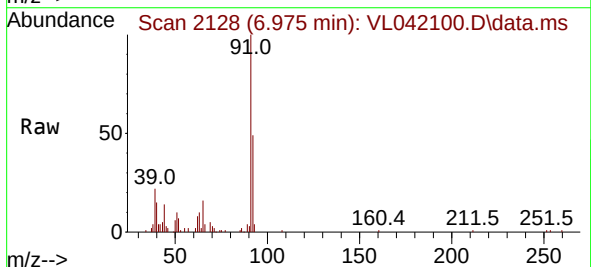
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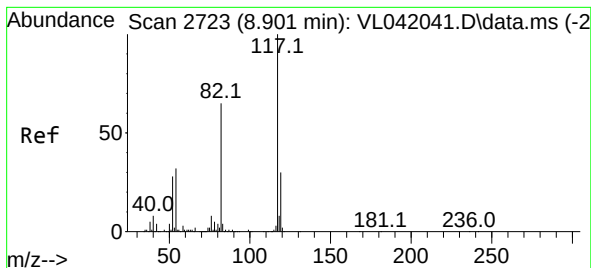
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#53
Toluene
Concen: 0.441 ppbv
RT: 6.975 min Scan# 2128
Delta R.T. 0.016 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Tgt Ion: 91 Resp: 19809
Ion Ratio Lower Upper
91 100
92 59.9 49.0 73.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.907 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

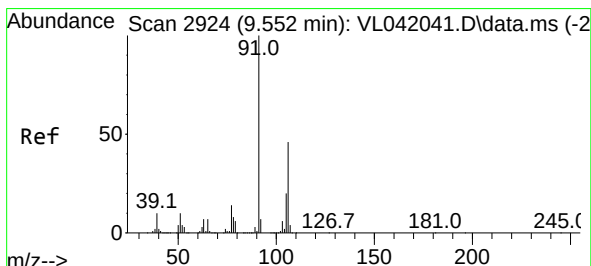
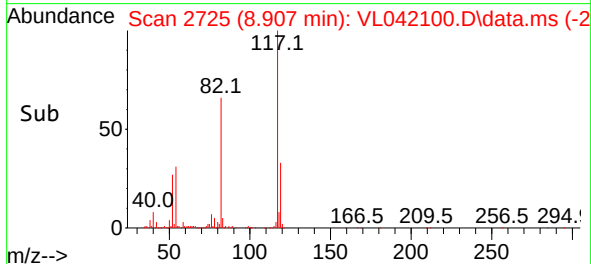
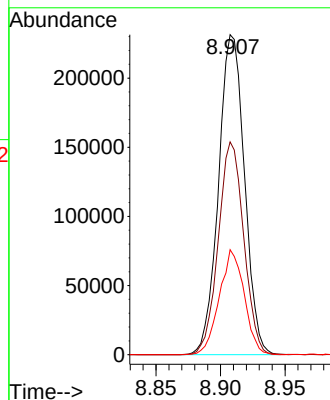
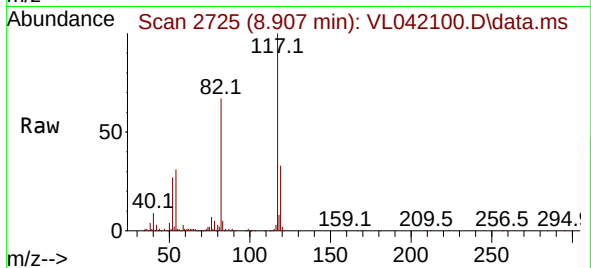
IA2

Tgt Ion:	117	Resp:	32365
Ion	Ratio	Lower	Upper
117	100		
82	65.3	55.0	82.6
119	31.4	25.9	38.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#59

m/p-Xylene

Concen: 0.171 ppbv m

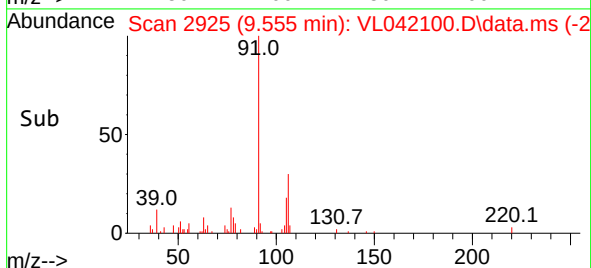
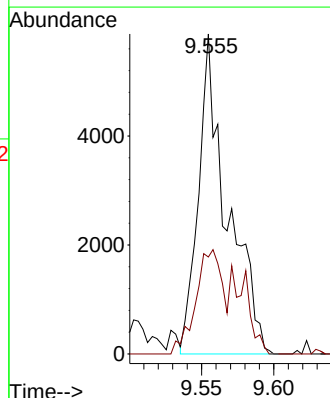
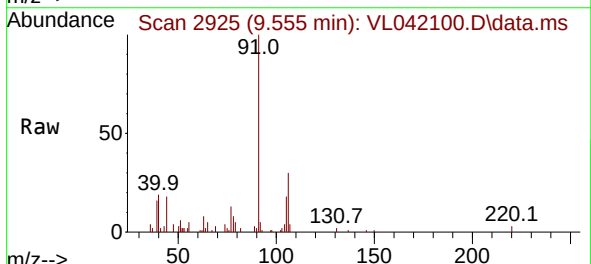
RT: 9.555 min Scan# 2925

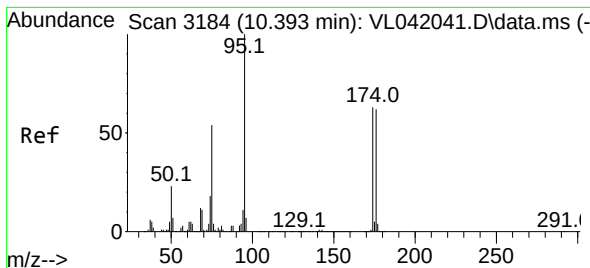
Delta R.T. 0.003 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

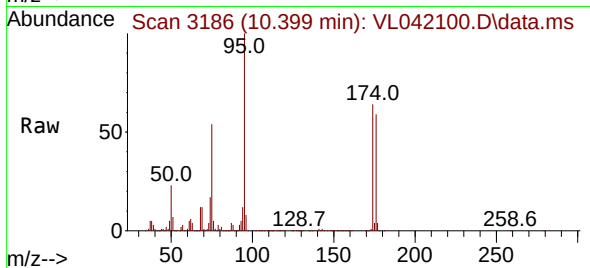
Tgt Ion:	91	Resp:	8116
Ion	Ratio	Lower	Upper
91	100		
106	46.5	0.0	0.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.487 ppbv
RT: 10.399 min Scan# 3184
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

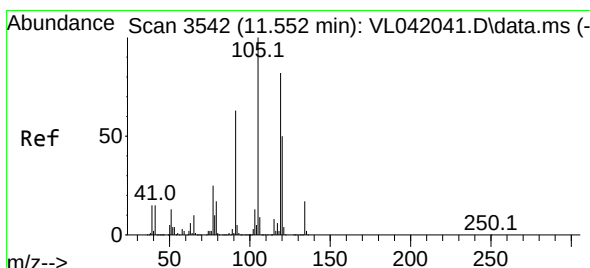
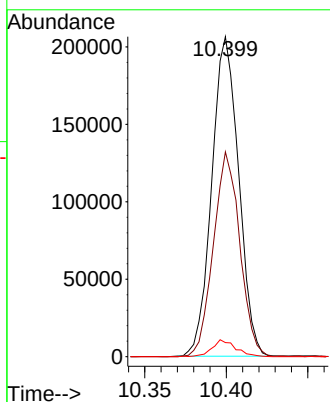
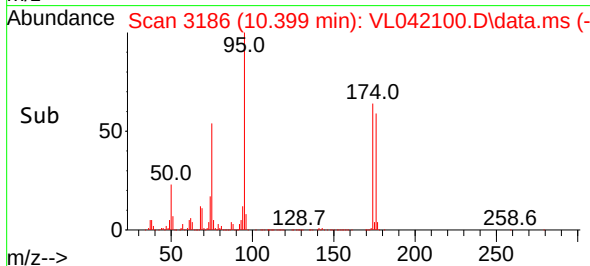
Instrument :
MSVOA_L
ClientSampleId :
IA2



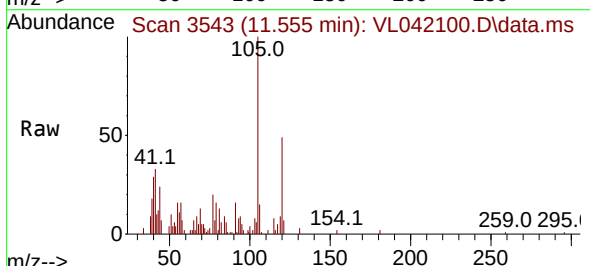
Tgt Ion: 95 Resp: 23622
Ion Ratio Lower Upper
95 100
174 63.2 51.8 77.6
175 4.7 3.9 5.9

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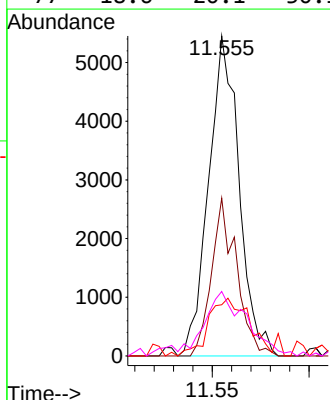
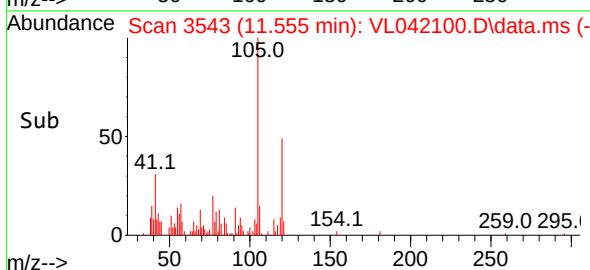
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

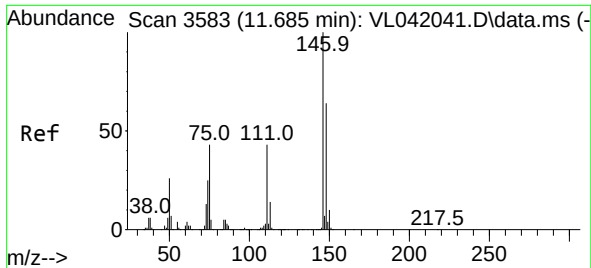


#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



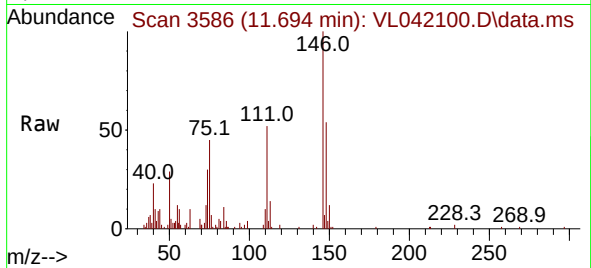
Tgt Ion:105 Resp: 5959
Ion Ratio Lower Upper
105 100
120 49.3 40.2 60.2
91 16.0 51.4 77.2#
77 18.6 20.1 30.1#





#76
 1,4-Dichlorobenzene
 Concen: 0.194 ppbv
 RT: 11.694 min Scan# 3586
 Delta R.T. 0.010 min
 Lab File: VL042100.D
 Acq: 05 Mar 2025 12:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion:146 Resp: 629
 Ion Ratio Lower Upper
 146 100
 111 56.9 21.5 64.5
 148 64.0 31.6 95.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

