

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042782.D
 Acq On : 29 Jul 2025 14:24
 Operator : SY/MD
 Sample : Q2712-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:12:06 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

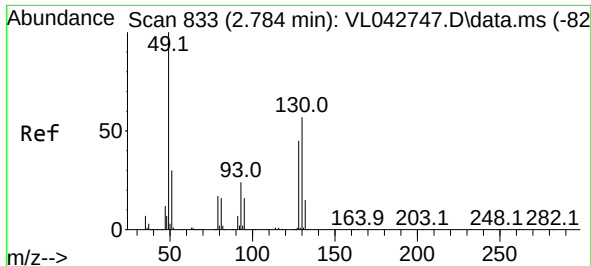
QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	149325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	414208	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	375602	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	309167	10.394	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	16650	0.843	ppbv	98
3) Chlorodifluoromethane	1.473	51	58901m	2.290	ppbv	
4) Chloromethane	1.534	50	7070	0.885	ppbv	94
10) Heptane	4.994	43	15030m	0.596	ppbv	
11) Trichlorofluoromethane	1.884	101	24157	1.187	ppbv	95
13) Ethanol	1.729	45	1607041	2360.036	ppbv	100
15) Acetone	1.839	43	375143	18.194	ppbv	98
19) Isopropyl Alcohol	1.890	45	106307	9.702	ppbv #	12
23) Vinyl Acetate	2.463	43	78293m	3.132	ppbv	
25) Ethyl Acetate	2.842	43	752515	16.488	ppbv #	91
29) Chloroform	2.858	83	22930	0.741	ppbv	97
34) 2-Butanone	2.567	43	66120	2.254	ppbv	99
35) Carbon Tetrachloride	3.771	117	4664	0.152	ppbv #	86
36) Benzene	3.667	78	11868	0.302	ppbv #	94
44) 2,2,4-Trimethylpentane	4.655	57	10995m	0.172	ppbv	
50) 4-Methyl-2-Pentanone	5.791	43	29133m	0.771	ppbv	
51) 2-Hexanone	7.457	43	23562	0.825	ppbv #	97
52) Tetrachloroethene	8.244	164	1884m	0.116	ppbv	
53) Toluene	6.953	91	72108	1.711	ppbv	98
58) Ethyl Benzene	9.367	91	12419	0.209	ppbv	95
59) m/p-Xylene	9.545	91	43961	0.927	ppbv	99
60) o-Xylene	9.972	91	22835	0.482	ppbv	97
61) Styrene	9.878	104	23868	1.198	ppbv	92
64) n-propylbenzene	10.995	120	5095	0.280	ppbv	77
69) p-Isopropyltoluene	11.934	119	52072	0.723	ppbv	99
72) 4-Ethyltoluene	11.134	105	29045	0.513	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	34083	0.732	ppbv	95
74) 1,2,4-Trimethylbenzene	11.545	105	132016	2.598	ppbv #	64
76) 1,4-Dichlorobenzene	11.681	146	10764	0.309	ppbv	97
79) Naphthalene	13.520	128	15108	0.697	ppbv #	94

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



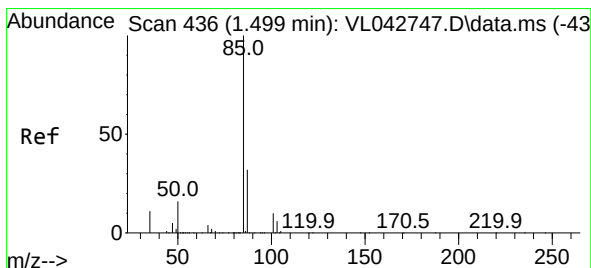
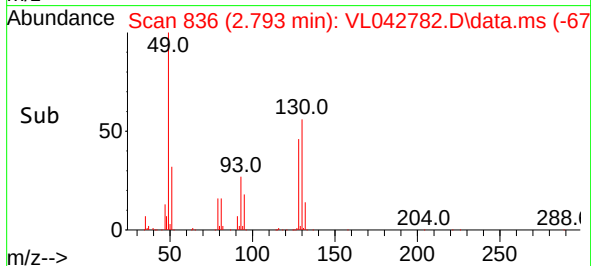
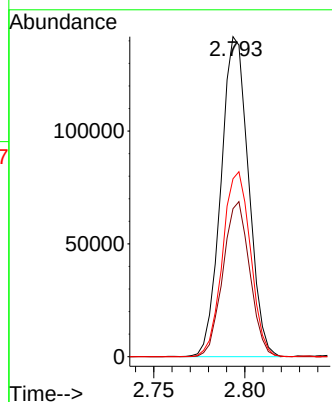
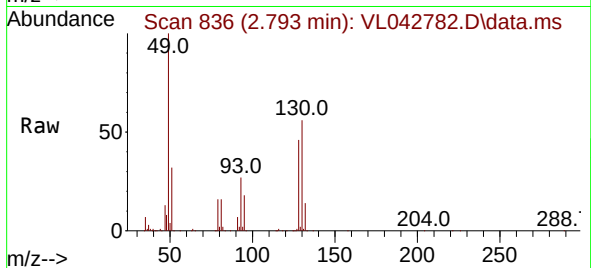
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 149325
Ion Ratio Lower Upper
49 100
128 47.1 23.6 71.0
130 58.6 30.3 90.8

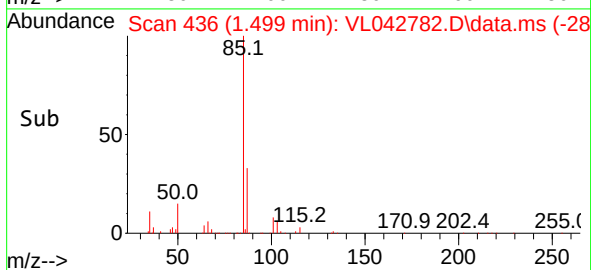
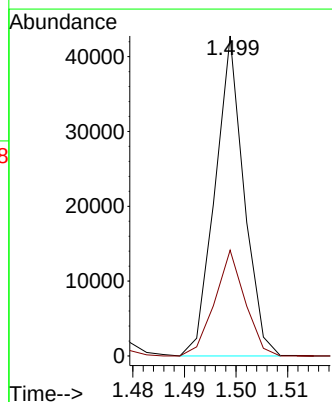
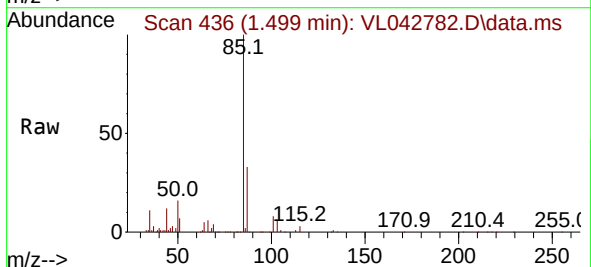
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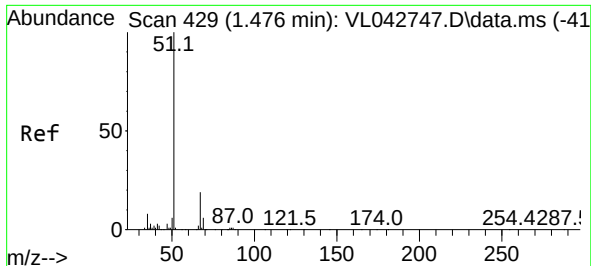
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.843 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

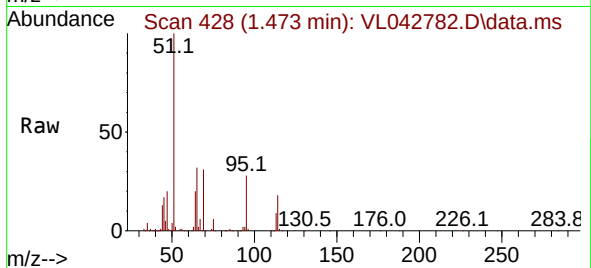
Tgt Ion: 85 Resp: 16650
Ion Ratio Lower Upper
85 100
87 33.1 25.4 38.2





#3
Chlorodifluoromethane
Concen: 2.290 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

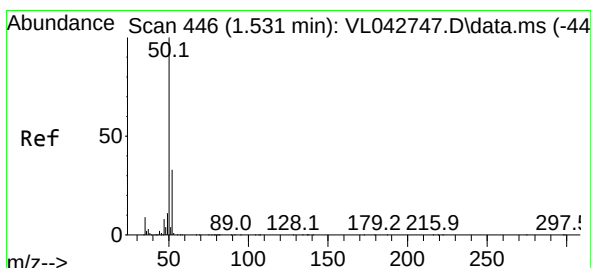
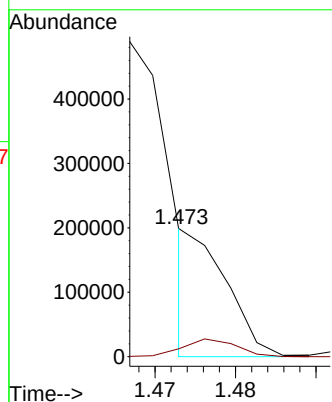
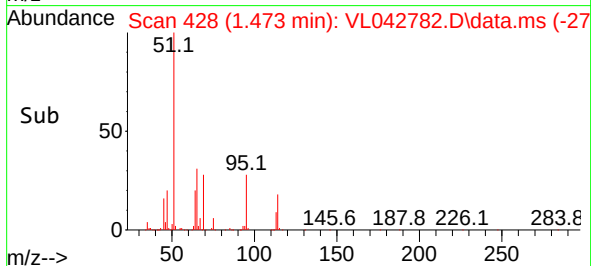
Instrument :
MSVOA_L
ClientSampleId :
IA2



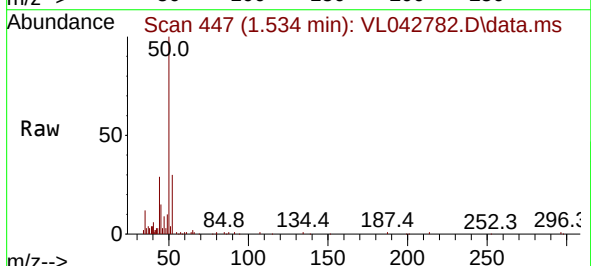
Tgt Ion: 51 Resp: 5890
Ion Ratio Lower Upper
51 100
67 23.7 15.0 22.6

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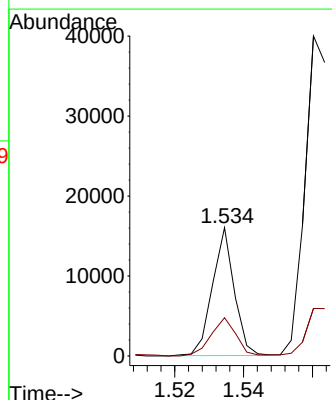
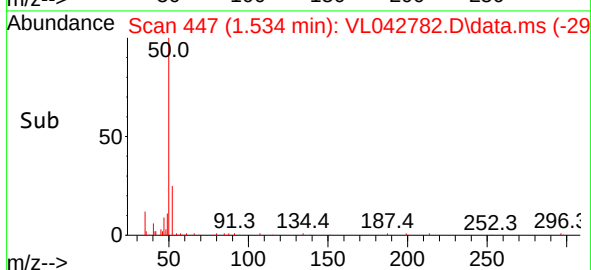
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

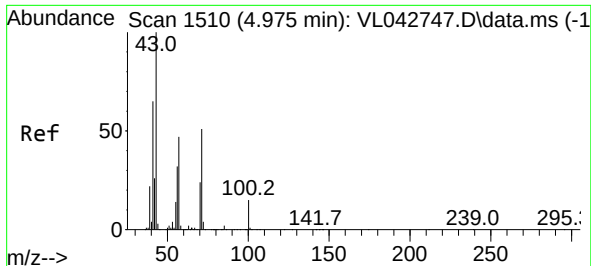


#4
Chloromethane
Concen: 0.885 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



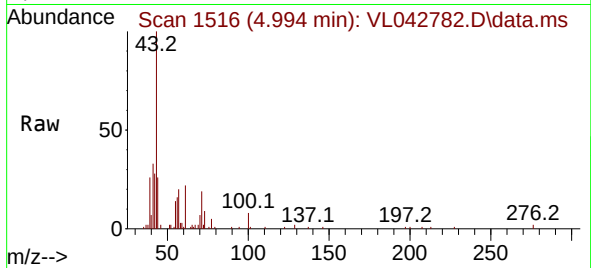
Tgt Ion: 50 Resp: 7070
Ion Ratio Lower Upper
50 100
52 30.0 26.6 40.0





#10
Heptane
Concen: 0.596 ppbv m
RT: 4.994 min Scan# 1510
Delta R.T. 0.019 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

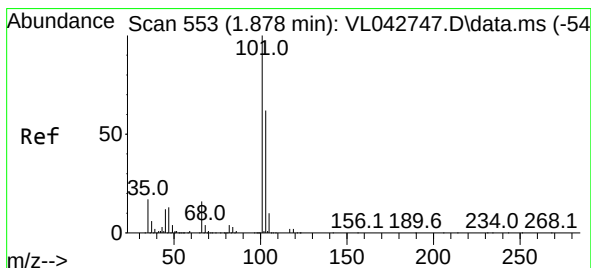
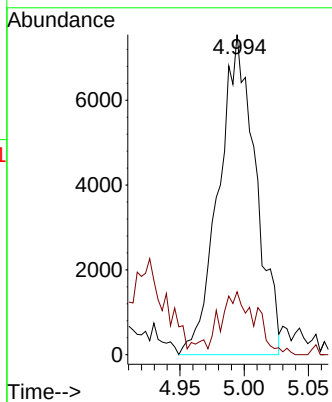
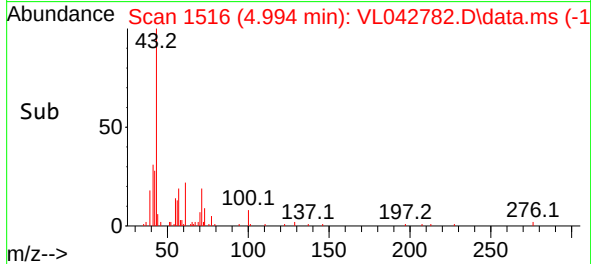
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 15030
Ion Ratio Lower Upper
43 100
57 19.6 39.9 59.9

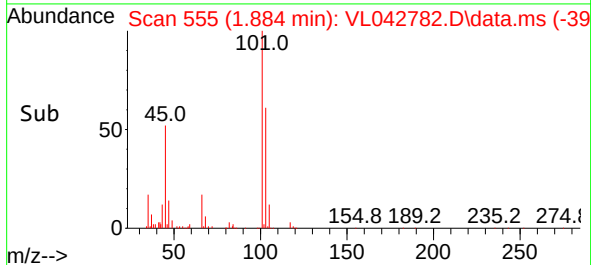
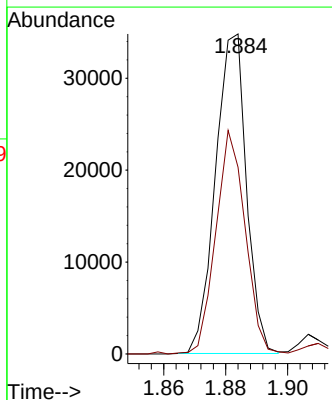
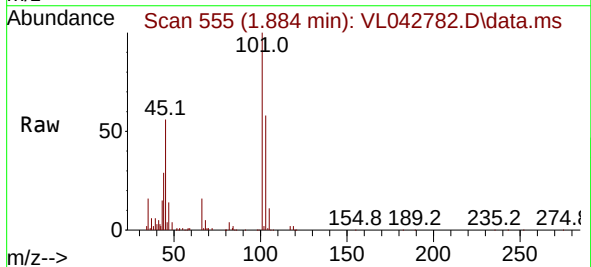
Manual Integrations
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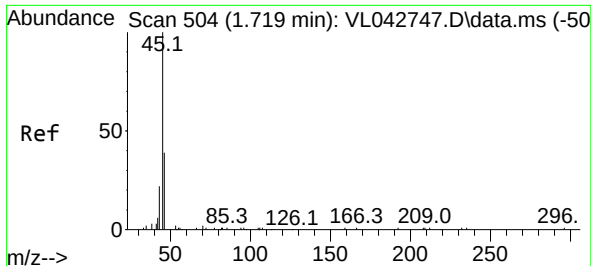
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#11
Trichlorofluoromethane
Concen: 1.187 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

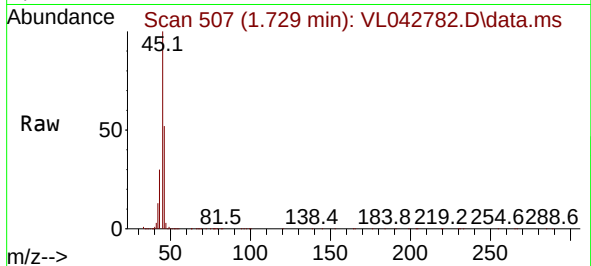
Tgt Ion:101 Resp: 24157
Ion Ratio Lower Upper
101 100
103 58.2 49.6 74.4





#13
Ethanol
Concen: 2360.036 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

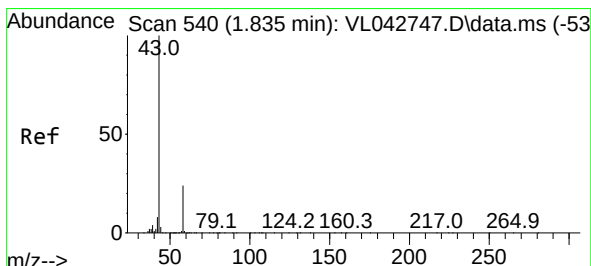
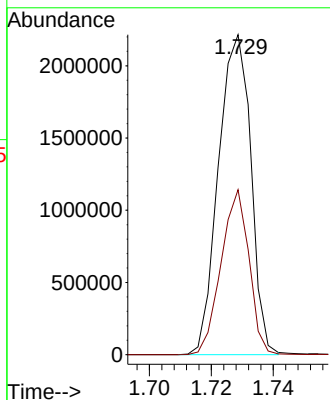
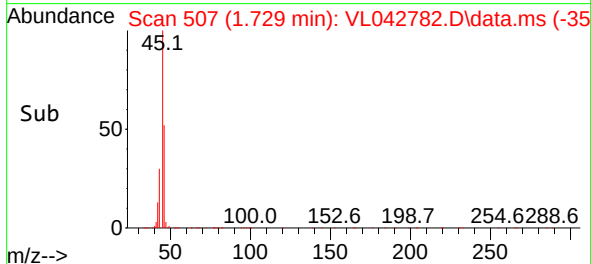
Instrument :
MSVOA_L
ClientSampleId :
IA2



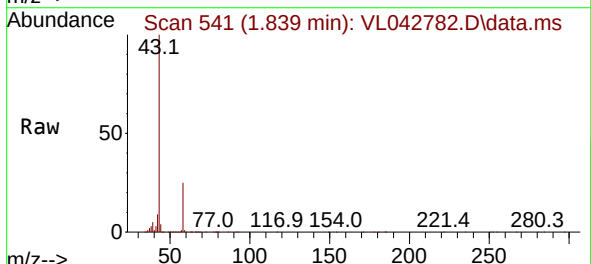
Tgt Ion: 45 Resp: 160704
Ion Ratio Lower Upper
45 100
46 44.7 17.8 71.4

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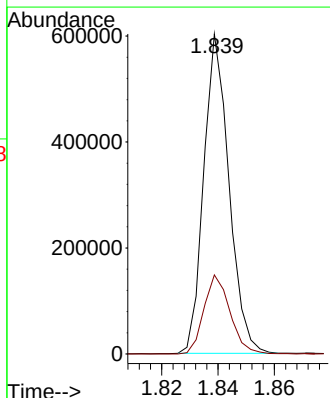
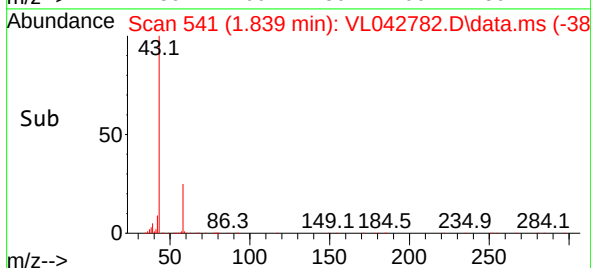
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

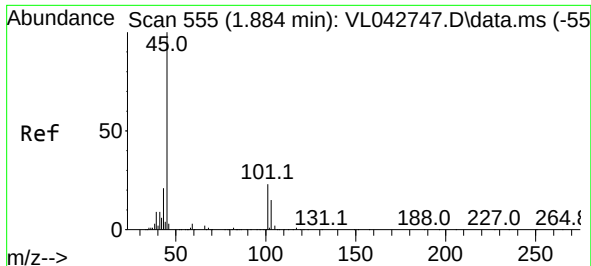


#15
Acetone
Concen: 18.194 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



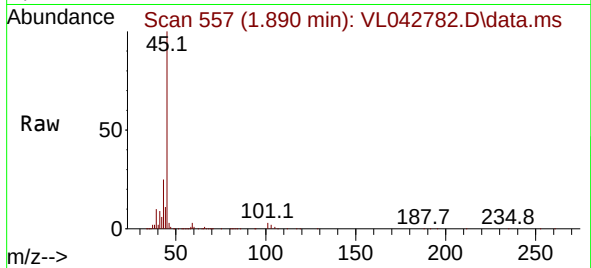
Tgt Ion: 43 Resp: 375143
Ion Ratio Lower Upper
43 100
58 25.6 19.8 29.8





#19
Isopropyl Alcohol
Concen: 9.702 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

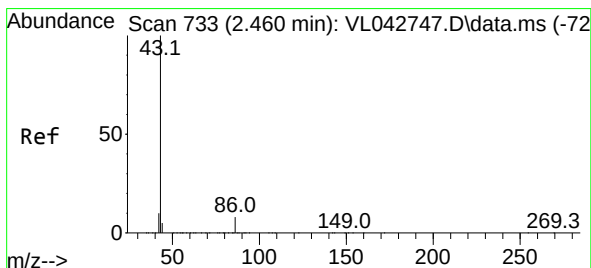
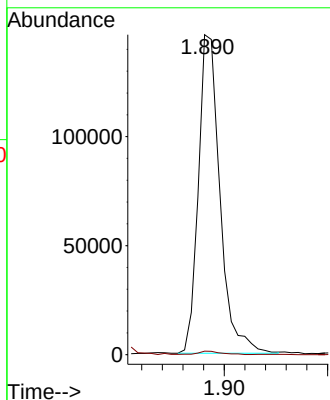
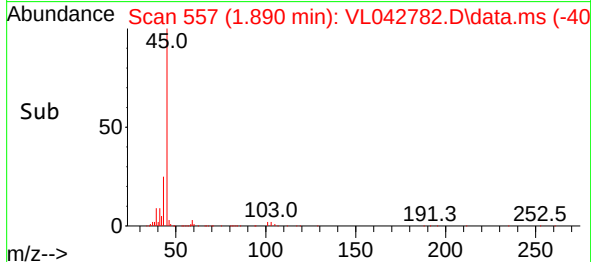
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 106307
Ion Ratio Lower Upper
45 100
58 90.4 30.0 45.0

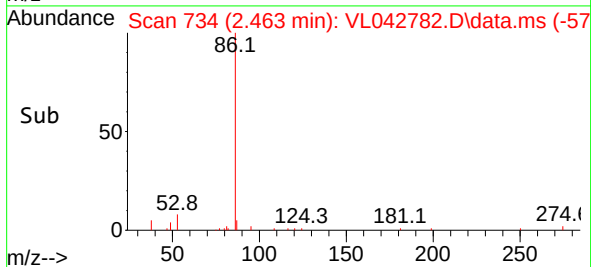
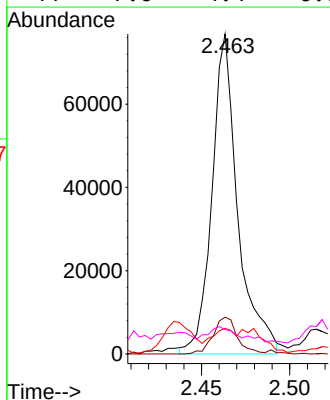
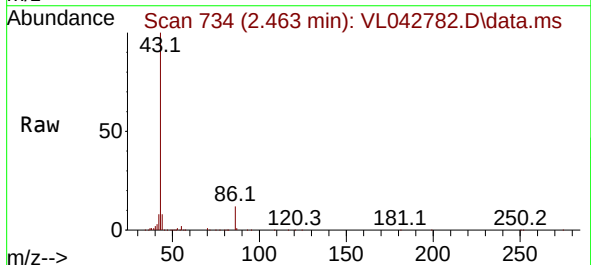
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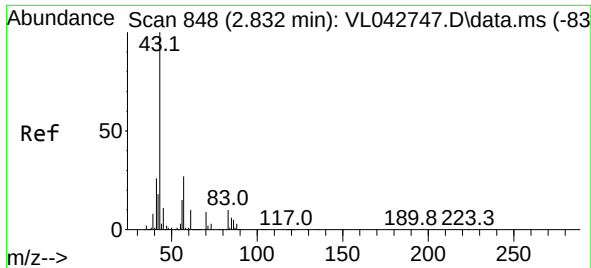
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#23
Vinyl Acetate
Concen: 3.132 ppbv m
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

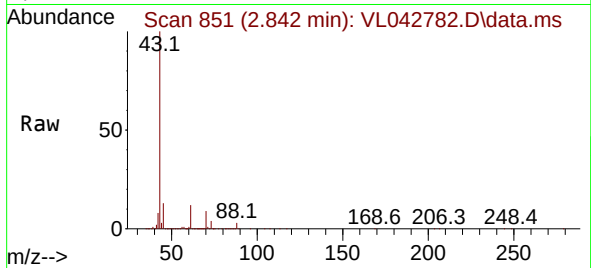
Tgt Ion: 43 Resp: 78293
Ion Ratio Lower Upper
43 100
86 11.5 6.1 9.1#
42 8.0 7.8 11.8
44 7.6 4.4 6.6#





#25
Ethyl Acetate
Concen: 16.488 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

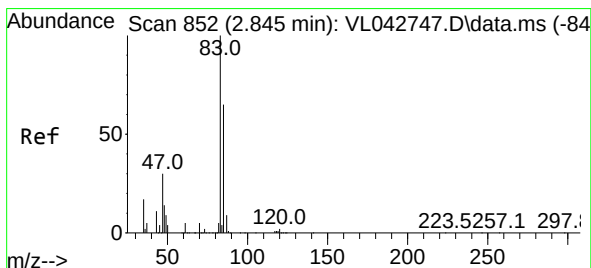
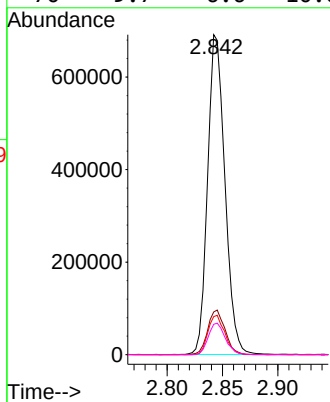
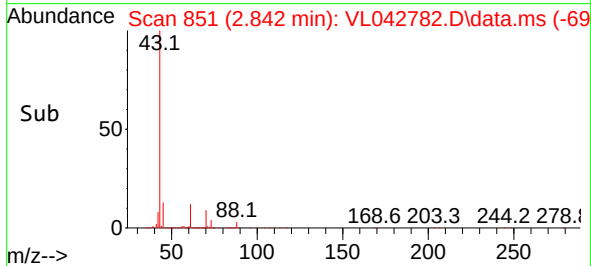
Instrument :
MSVOA_L
ClientSampleId :
IA2



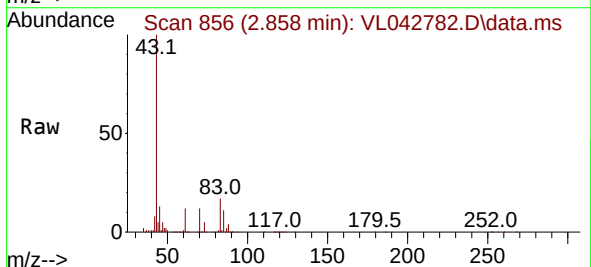
Tgt Ion: 43 Resp: 75251
Ion Ratio Lower Upper
43 100
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61 12.1 6.7 10.1
70 9.7 6.6 10.0

Manual Integrations
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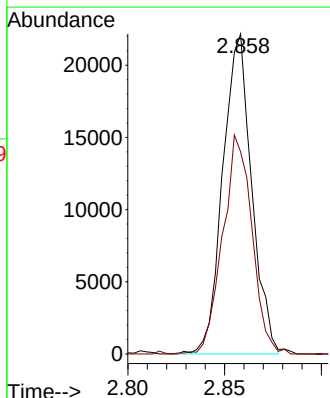
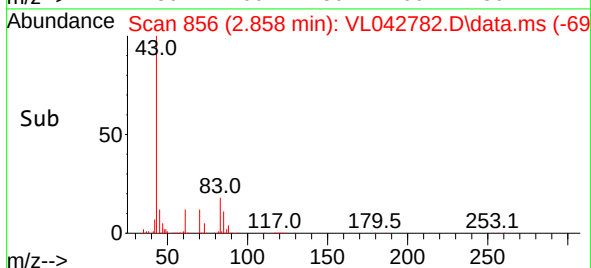
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Supervised By :Mahesh Dadoda 07/30/2025

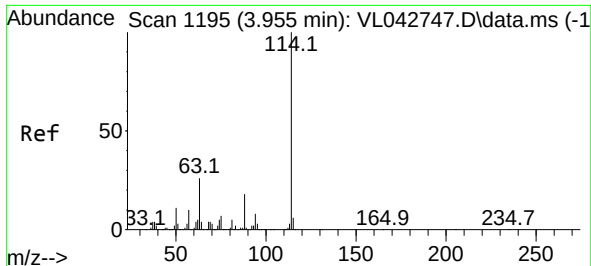


#29
Chloroform
Concen: 0.741 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



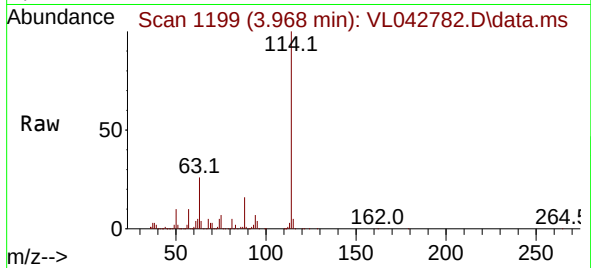
Tgt Ion: 83 Resp: 22930
Ion Ratio Lower Upper
83 100
85 62.9 52.2 78.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

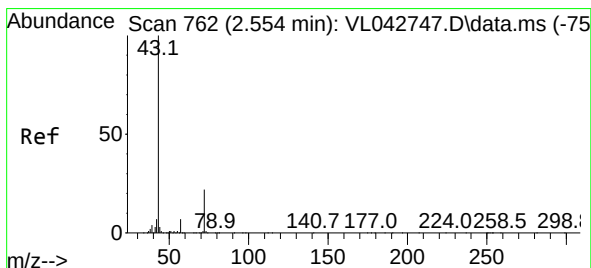
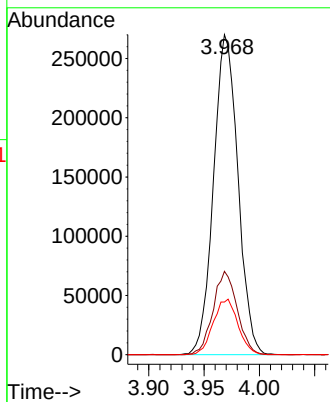
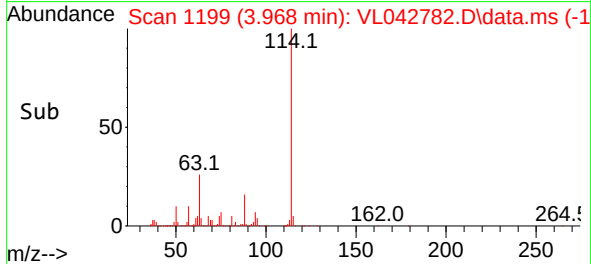
Instrument :
MSVOA_L
ClientSampleId :
IA2



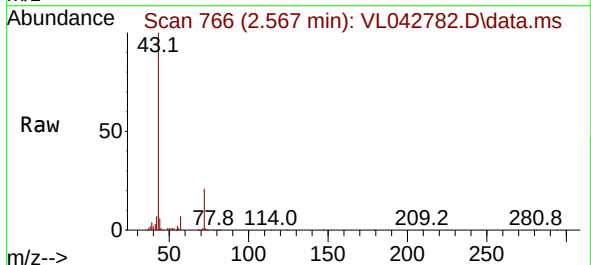
Tgt Ion:114 Resp: 414208
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.6 14.0 21.0

Manual Integrations
APPROVED

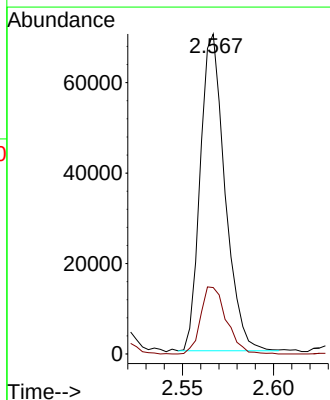
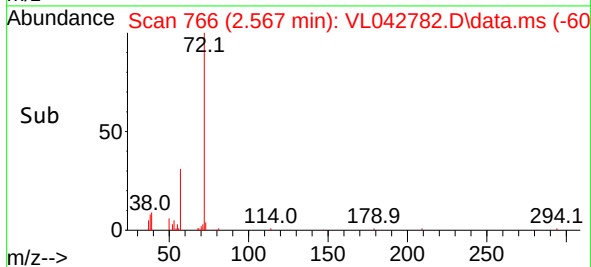
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

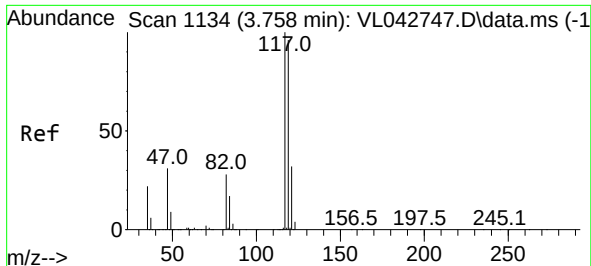


#34
2-Butanone
Concen: 2.254 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



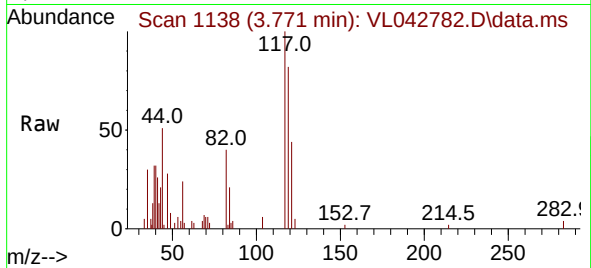
Tgt Ion: 43 Resp: 66120
Ion Ratio Lower Upper
43 100
72 22.1 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.152 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

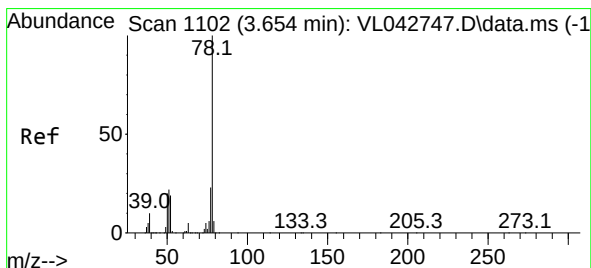
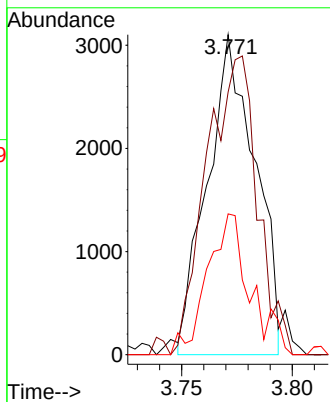
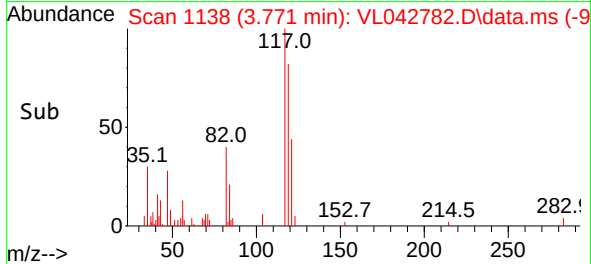
Instrument :
MSVOA_L
ClientSampleId :
IA2



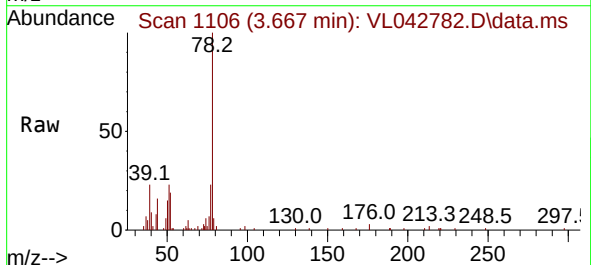
Tgt Ion: 117 Resp: 4664
Ion Ratio Lower Upper
117 100
119 82.2 77.1 115.7
121 38.6 25.5 38.3

Manual Integrations
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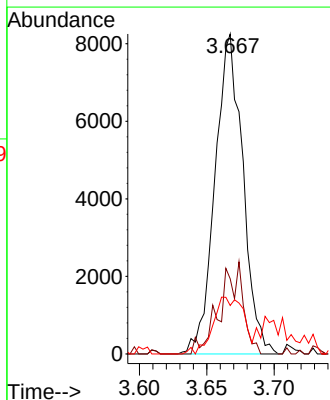
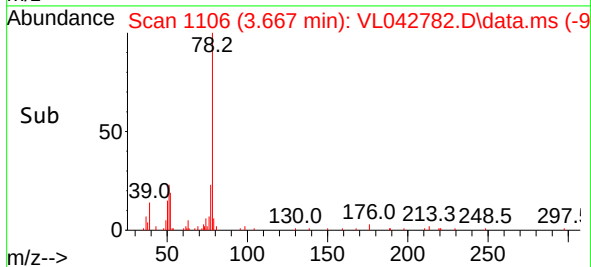
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

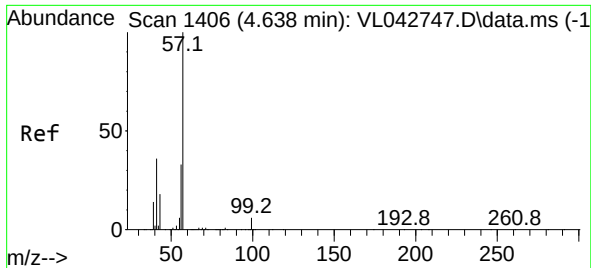


#36
Benzene
Concen: 0.302 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



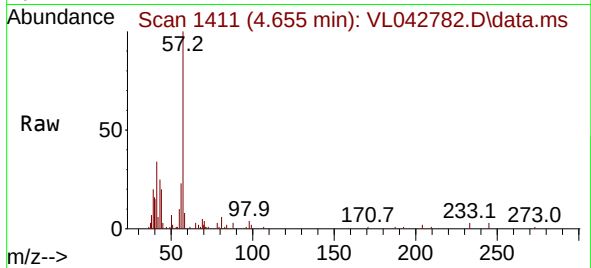
Tgt Ion: 78 Resp: 11868
Ion Ratio Lower Upper
78 100
77 23.5 18.5 27.7
50 15.1 16.2 24.2





#44
2,2,4-Trimethylpentane
Concen: 0.172 ppbv m
RT: 4.655 min Scan# 1406
Delta R.T. 0.016 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

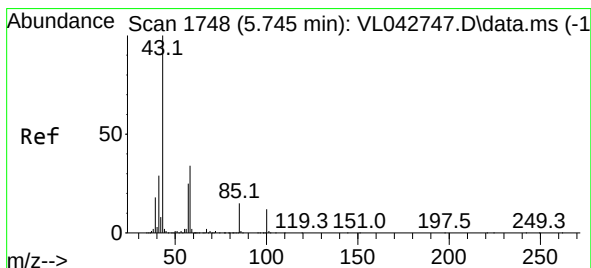
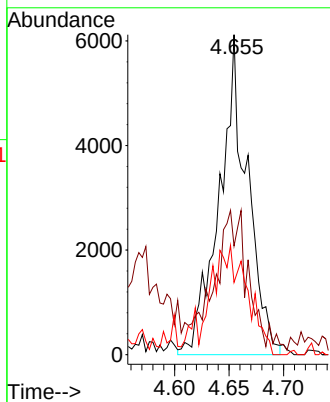
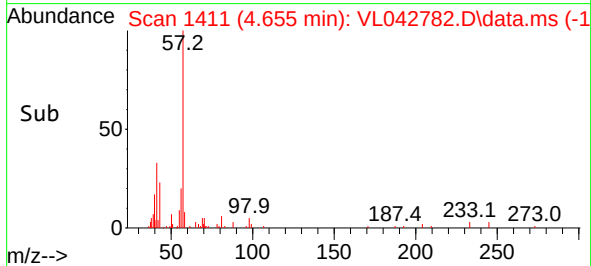
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 1099
Ion Ratio Lower Upper
57 100
41 50.5 28.3 42.5
56 46.3 25.8 38.6

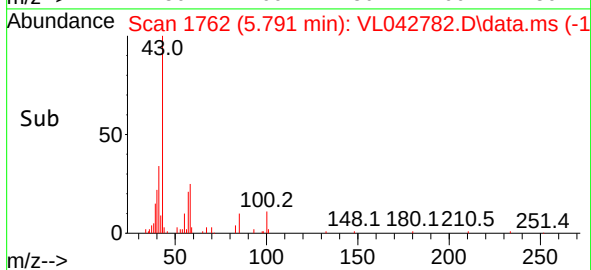
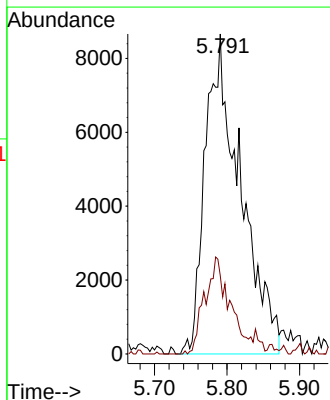
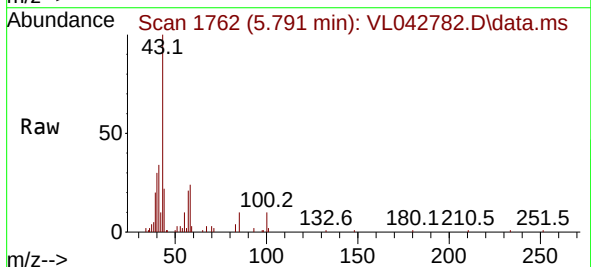
Manual Integrations
APPROVED

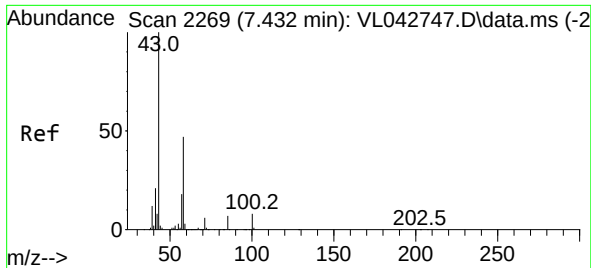
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#50
4-Methyl-2-Pentanone
Concen: 0.771 ppbv m
RT: 5.791 min Scan# 1762
Delta R.T. 0.045 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

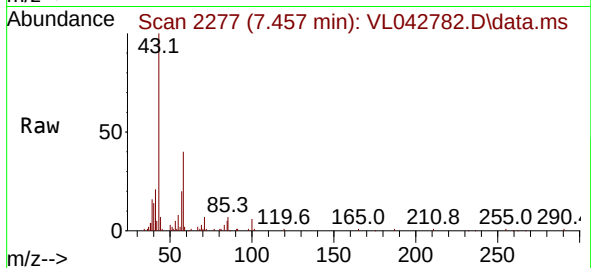
Tgt Ion: 43 Resp: 29133
Ion Ratio Lower Upper
43 100
58 24.0 27.8 41.8





#51
2-Hexanone
Concen: 0.825 ppbv
RT: 7.457 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

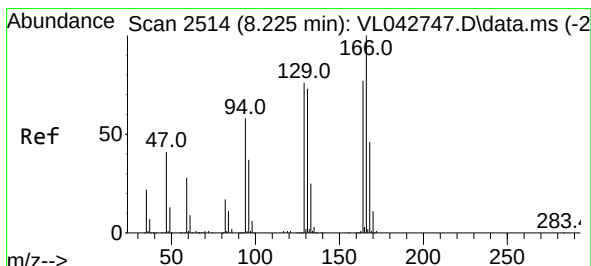
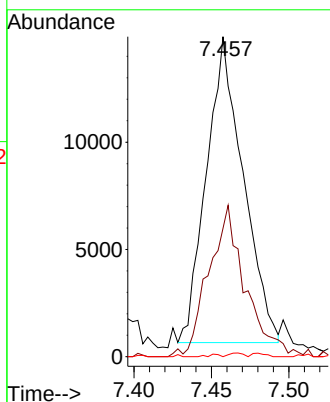
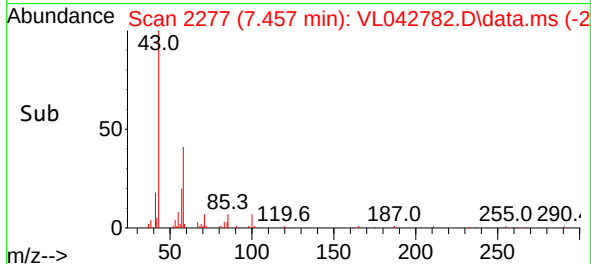
Instrument :
MSVOA_L
ClientSampleId :
IA2



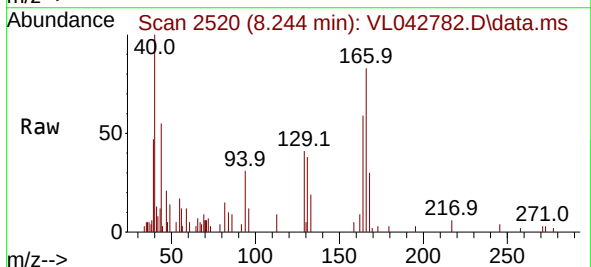
Tgt Ion: 43 Resp: 2356
Ion Ratio Lower Upper
43 100
58 49.5 38.0 57.0
98 1.1 0.2 0.4

Manual Integrations
APPROVED

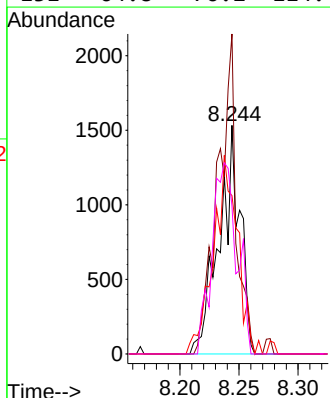
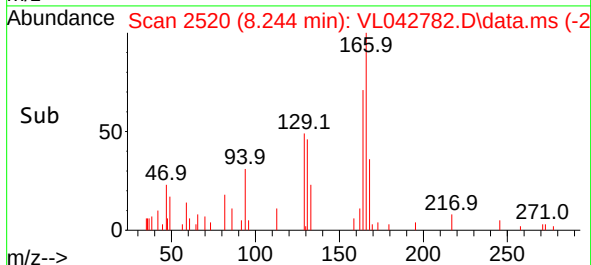
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

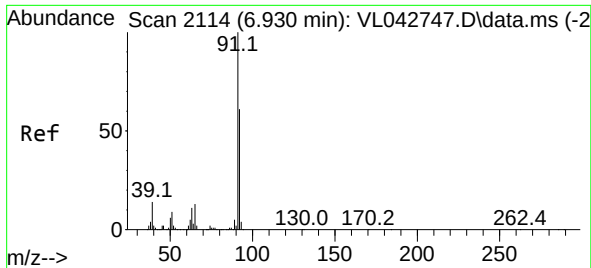


#52
Tetrachloroethene
Concen: 0.116 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. 0.019 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



Tgt Ion:164 Resp: 1884
Ion Ratio Lower Upper
164 100
166 140.0 104.0 156.0
129 69.3 79.2 118.8#
131 64.8 76.2 114.4#





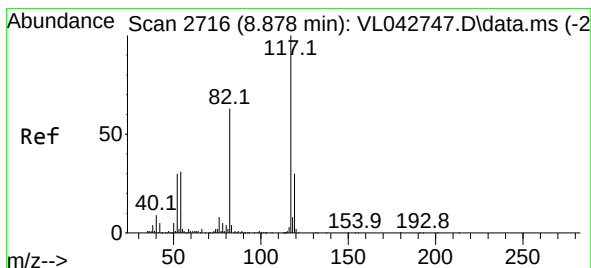
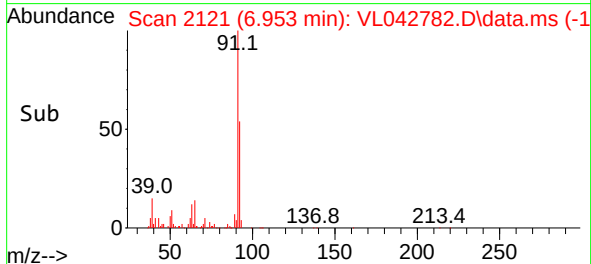
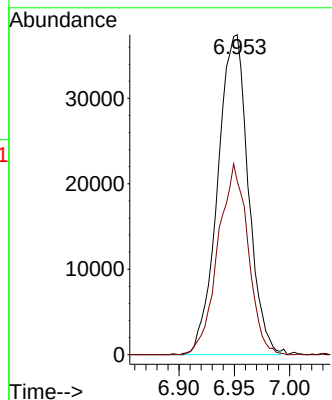
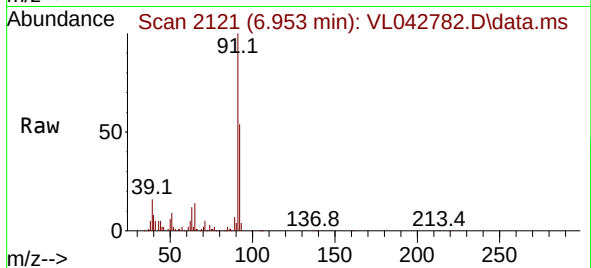
#53
Toluene
Concen: 1.711 ppbv
RT: 6.953 min Scan# 2114
Delta R.T. 0.023 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 72108
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0

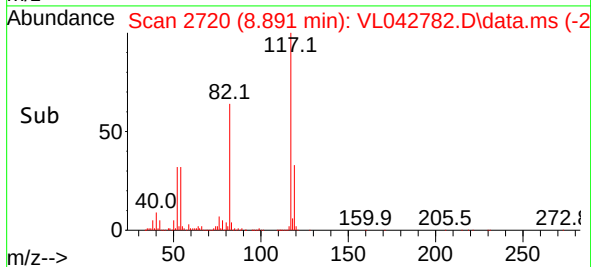
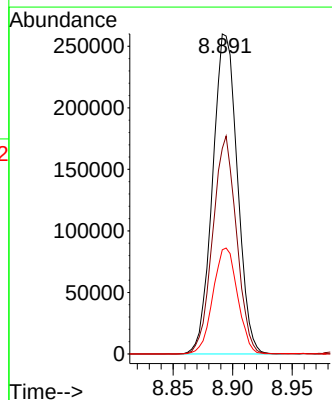
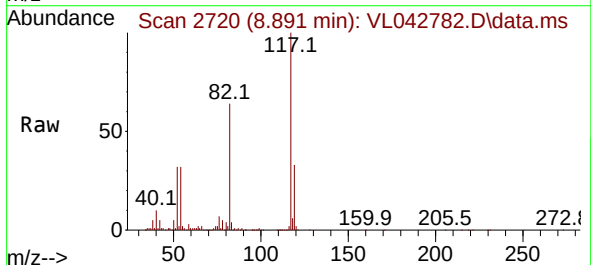
Manual Integrations
APPROVED

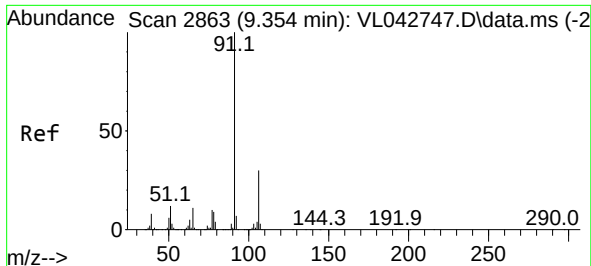
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

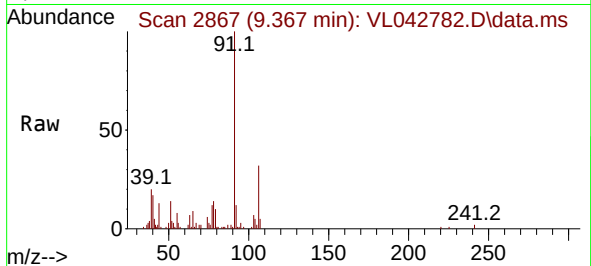
Tgt Ion:117 Resp: 375602
Ion Ratio Lower Upper
117 100
82 65.3 53.3 79.9
119 32.9 25.8 38.6





#58
Ethyl Benzene
Concen: 0.209 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

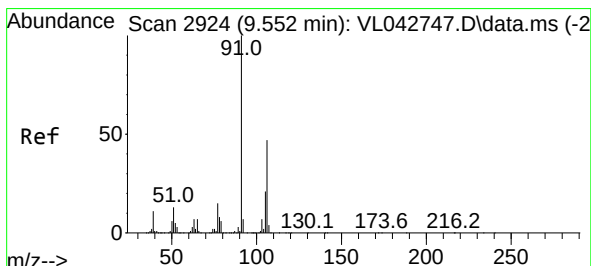
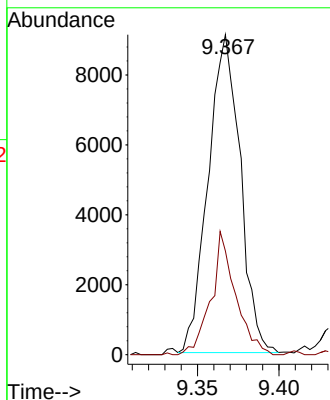
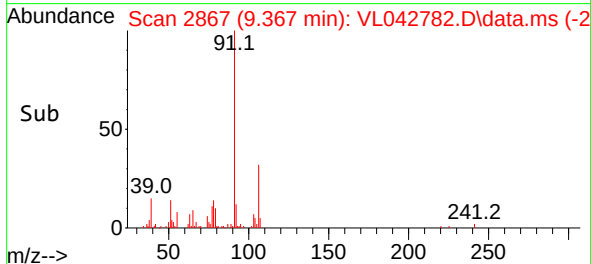
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 12419
Ion Ratio Lower Upper
91 100
106 32.6 23.8 35.6

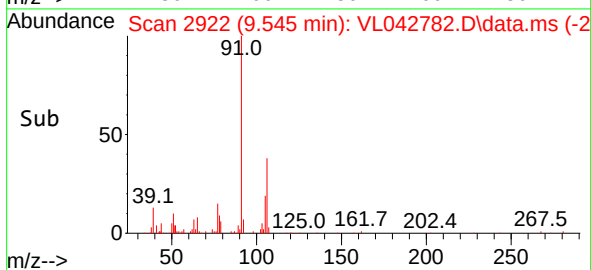
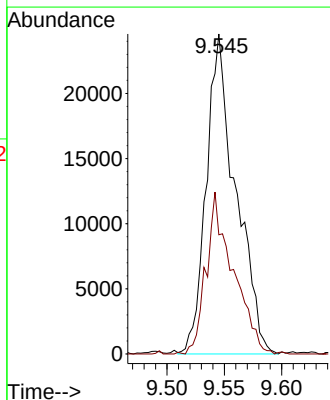
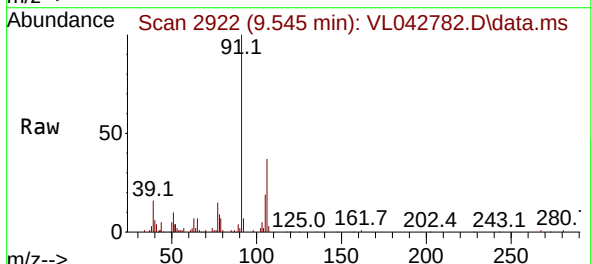
Manual Integrations
APPROVED

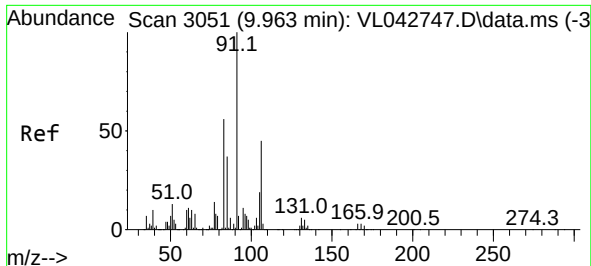
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#59
m/p-Xylene
Concen: 0.927 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. -0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

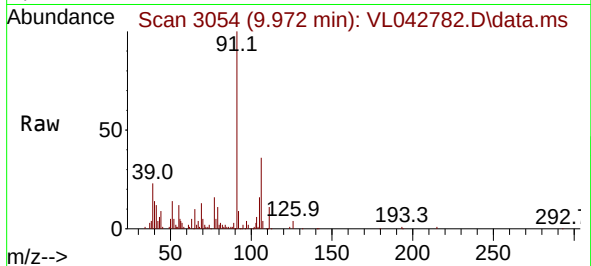
Tgt Ion: 91 Resp: 43961
Ion Ratio Lower Upper
91 100
106 46.2 37.4 56.2





#60
o-Xylene
Concen: 0.482 ppbv
RT: 9.972 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

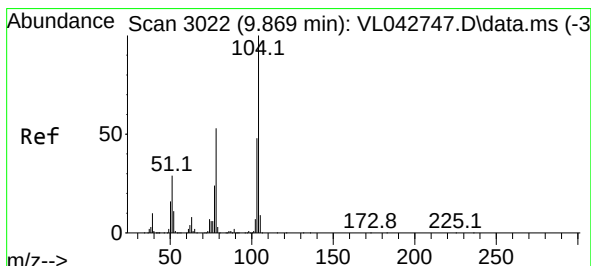
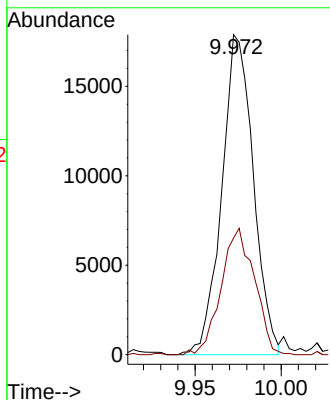
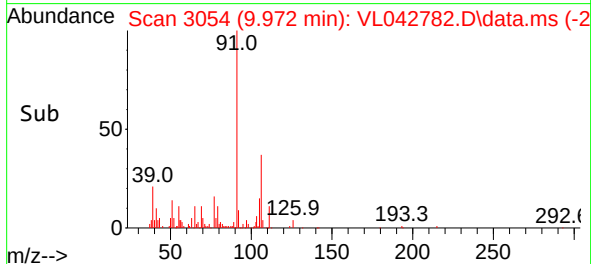
Instrument :
MSVOA_L
ClientSampleId :
IA2



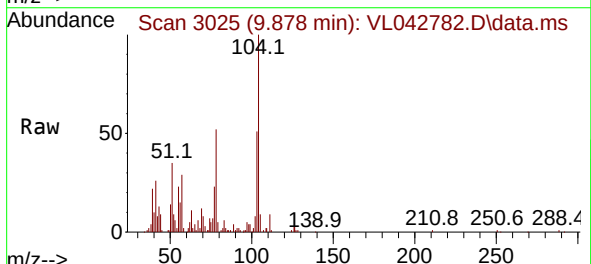
Tgt Ion: 91 Resp: 22835
Ion Ratio Lower Upper
91 100
106 41.9 22.0 66.0

Manual Integrations
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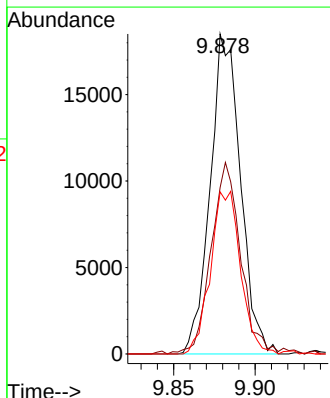
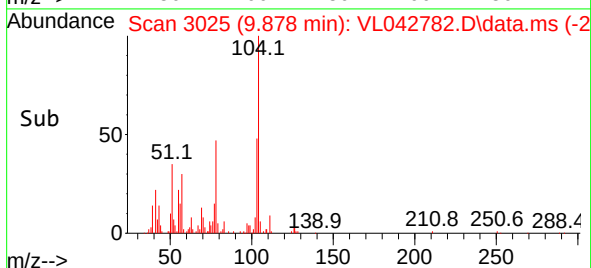
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

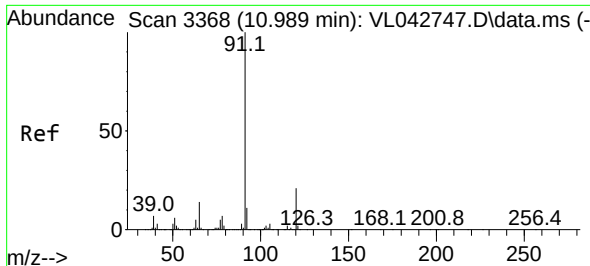


#61
Styrene
Concen: 1.198 ppbv
RT: 9.878 min Scan# 3025
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



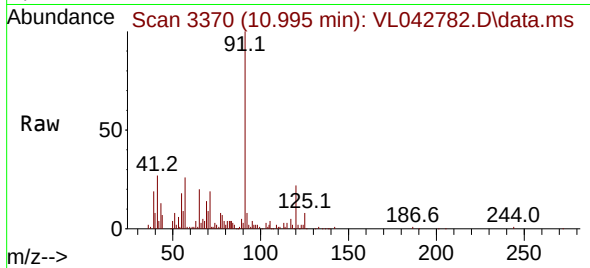
Tgt Ion:104 Resp: 23868
Ion Ratio Lower Upper
104 100
78 59.2 41.5 62.3
103 50.8 37.5 56.3





#64
n-propylbenzene
Concen: 0.280 ppbv
RT: 10.995 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

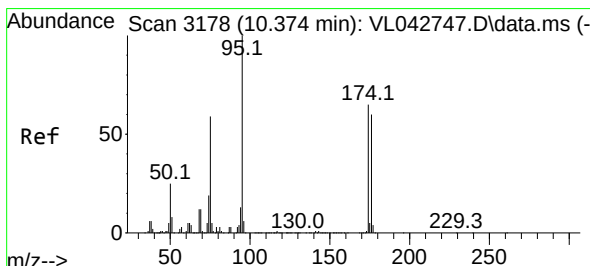
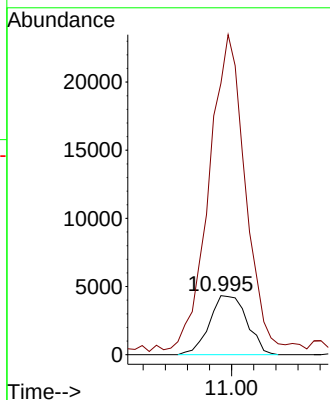
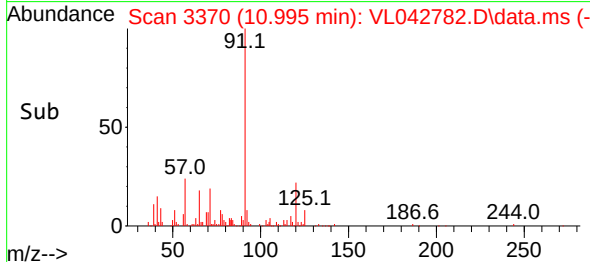
Instrument :
MSVOA_L
ClientSampleId :
IA2



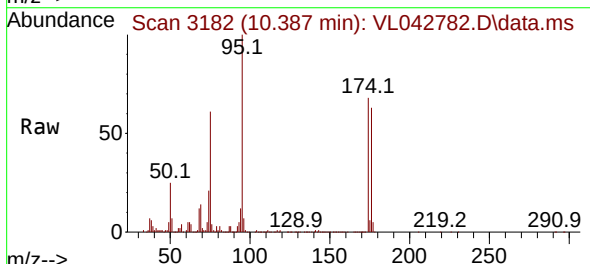
Tgt Ion:120 Resp: 509
Ion Ratio Lower Upper
120 100
91 526.8 372.7 559.1

Manual Integrations
APPROVED

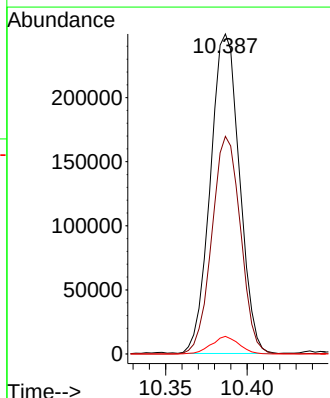
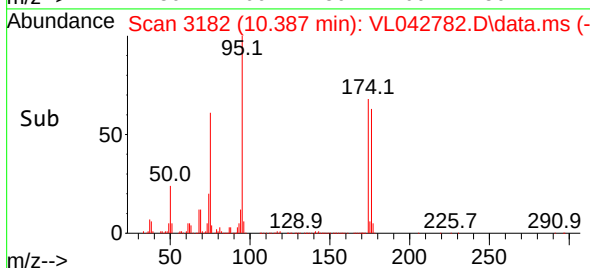
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

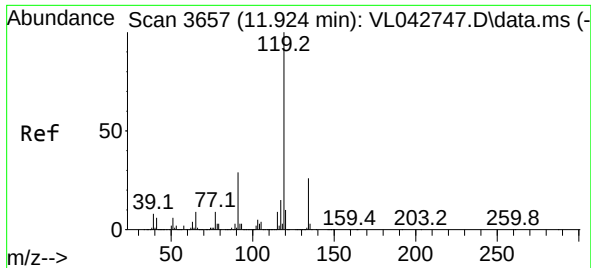


#68
1-Bromo-4-Fluorobenzene
Concen: 10.394 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



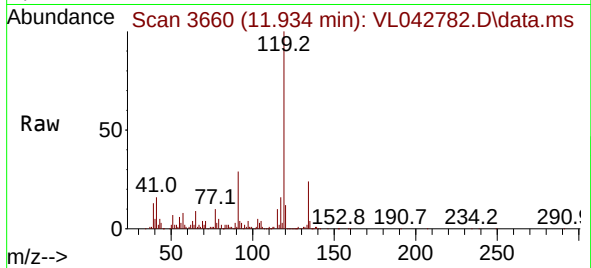
Tgt Ion: 95 Resp: 309167
Ion Ratio Lower Upper
95 100
174 67.2 53.8 80.6
175 5.2 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 0.723 ppbv
 RT: 11.934 min Scan# 3657
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

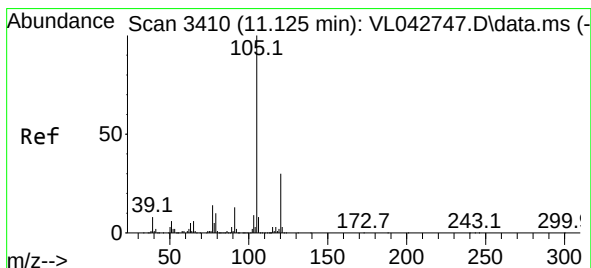
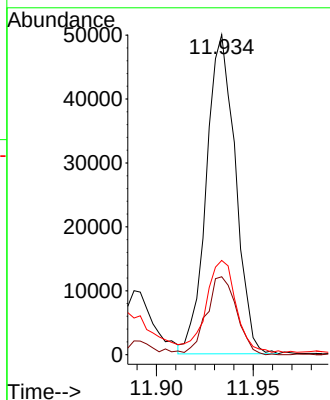
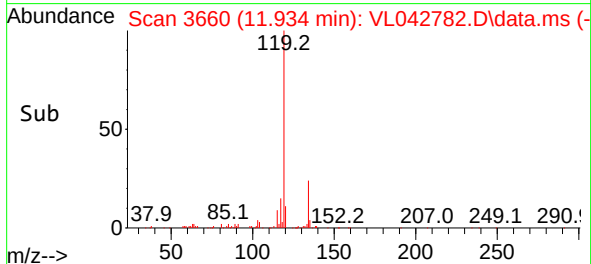
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



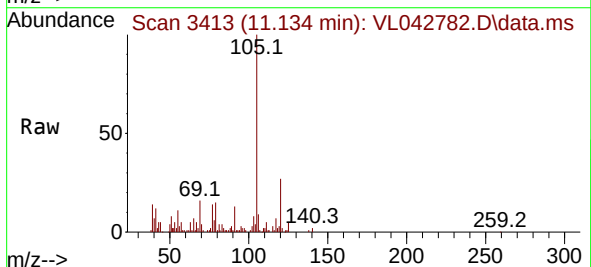
Tgt Ion:119 Resp: 52072
 Ion Ratio Lower Upper
 119 100
 134 25.5 20.6 31.0
 91 30.1 23.2 34.8

Manual Integrations
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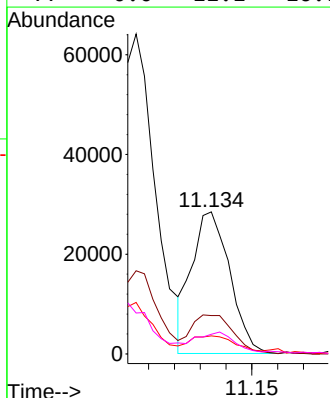
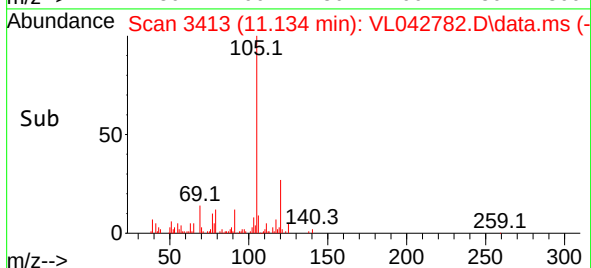
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

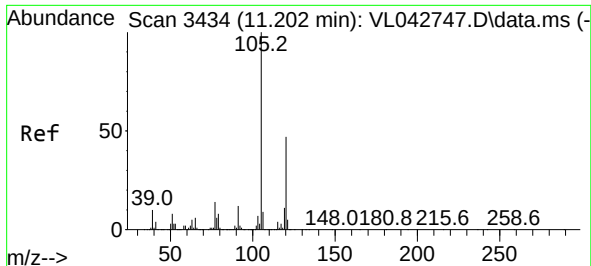


#72
 4-Ethyltoluene
 Concen: 0.513 ppbv
 RT: 11.134 min Scan# 3413
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24



Tgt Ion:105 Resp: 29045
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.4 36.6#
 91 0.0 10.6 15.8#
 77 0.0 11.1 16.7#





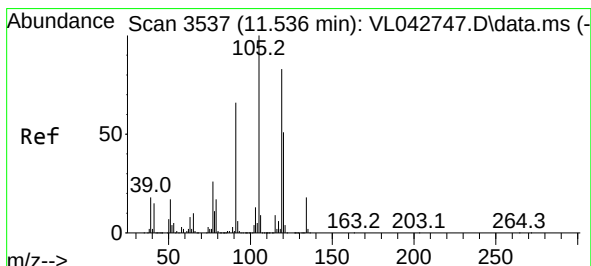
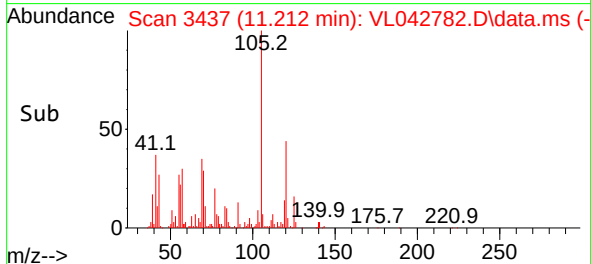
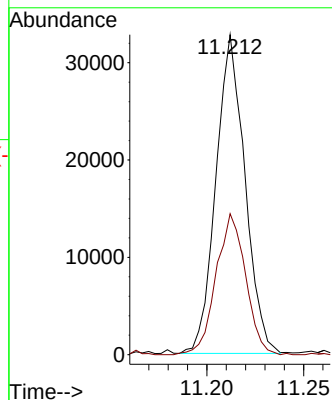
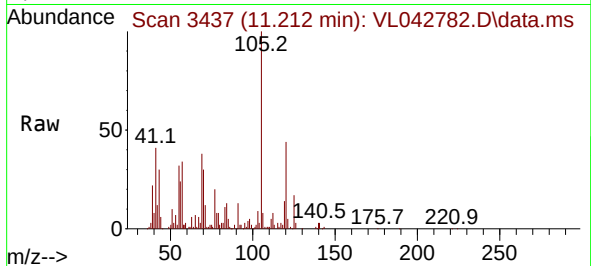
#73
 1,3,5-Trimethylbenzene
 Concen: 0.732 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion:105 Resp: 3408
 Ion Ratio Lower Upper
 105 100
 120 44.2 37.8 56.8

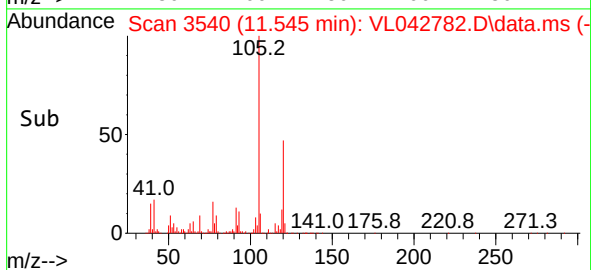
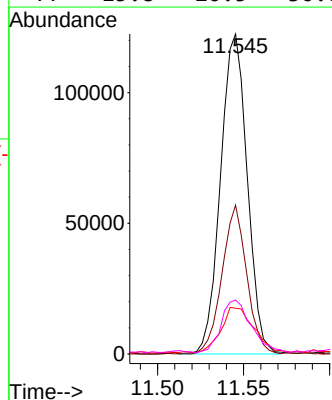
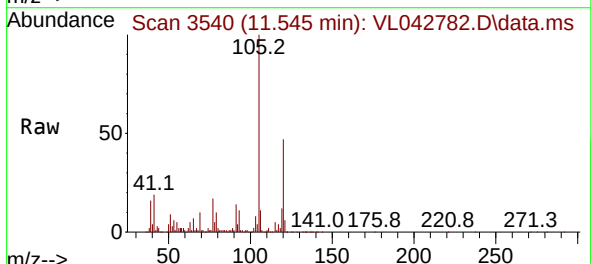
Manual Integrations
 APPROVED

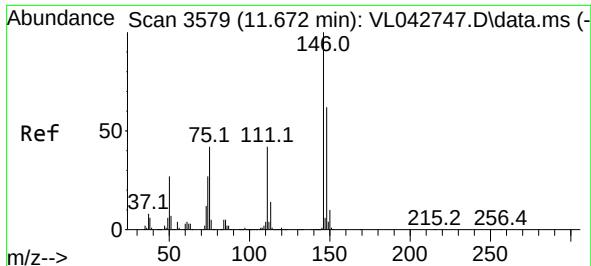
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 2.598 ppbv
 RT: 11.545 min Scan# 3540
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

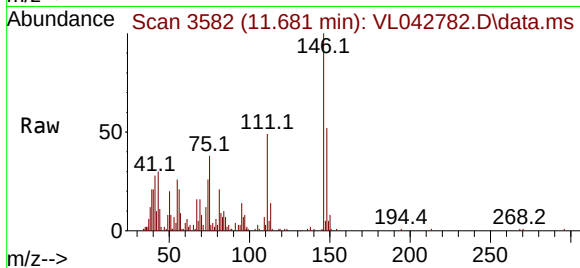
Tgt Ion:105 Resp: 132016
 Ion Ratio Lower Upper
 105 100
 120 46.5 40.8 61.2
 91 13.8 53.0 79.4#
 77 15.8 20.5 30.7#





#76
1,4-Dichlorobenzene
Concen: 0.309 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

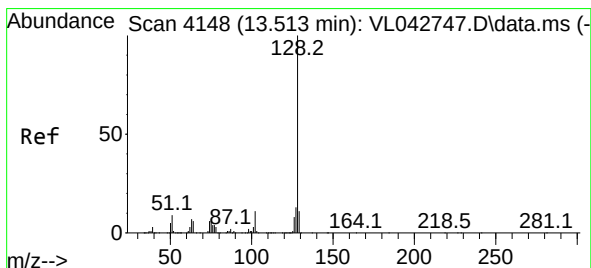
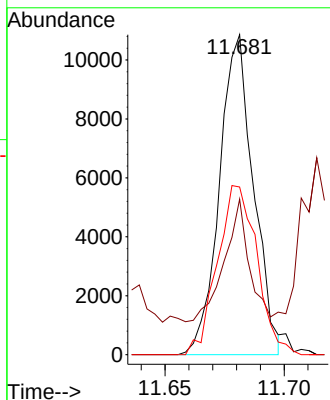
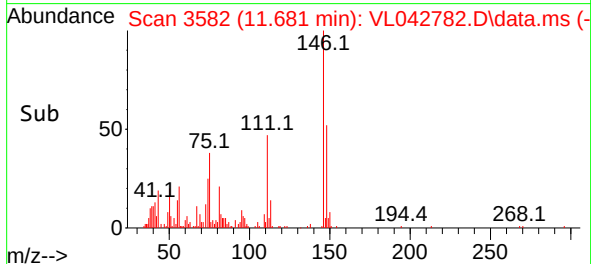
Instrument :
MSVOA_L
ClientSampleId :
IA2



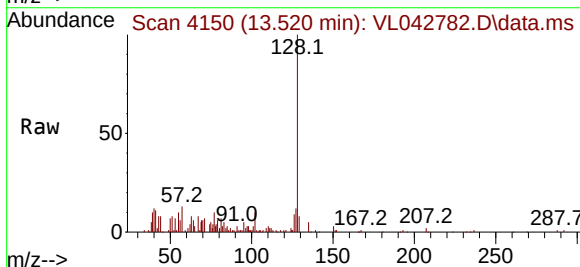
Tgt Ion:146 Resp: 10764
Ion Ratio Lower Upper
146 100
111 44.2 21.4 64.2
148 61.6 32.1 96.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#79
Naphthalene
Concen: 0.697 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



Tgt Ion:128 Resp: 15108
Ion Ratio Lower Upper
128 100
127 12.0 10.5 15.7
129 7.0 8.6 13.0#

