

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042540.D
 Acq On : 14 May 2025 13:12
 Operator : SY/MD
 Sample : Q2011-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:34:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	130590	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.972	114	371118	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.888	117	351568	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	304412	9.951	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2743	0.129	ppbv #	87
9) Propene	1.483	41	2302	0.491	ppbv #	1
10) Heptane	5.007	43	3780m	0.211	ppbv	
15) Acetone	1.842	43	56491	2.684	ppbv	94
20) Methylene Chloride	2.069	84	2031m	0.280	ppbv	
26) Hexane	2.836	57	19490	1.296	ppbv #	36
34) 2-Butanone	2.564	43	34360	1.405	ppbv	99
41) Tetrahydrofuran	3.069	42	4353m	0.411	ppbv	
51) 2-Hexanone	7.445	43	73358m	3.433	ppbv	
52) Tetrachloroethene	8.234	164	4645m	0.369	ppbv	
53) Toluene	6.943	91	24657	0.764	ppbv	98
58) Ethyl Benzene	9.361	91	33945	0.708	ppbv	89
59) m/p-Xylene	9.539	91	92047	2.163	ppbv #	100
60) o-Xylene	9.972	91	59983	1.443	ppbv	97
62) Isopropylbenzene	10.549	105	26923	0.430	ppbv	99
64) n-propylbenzene	10.995	120	19646	1.236	ppbv	86
67) sec-Butylbenzene	11.772	105	58550m	0.710	ppbv	
69) p-Isopropyltoluene	11.931	119	29161	0.430	ppbv	94
70) n-Butylbenzene	12.290	91	14841m	0.222	ppbv	
72) 4-Ethyltoluene	11.131	105	55381	1.074	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	64408	1.434	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	157948	2.859	ppbv #	62

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

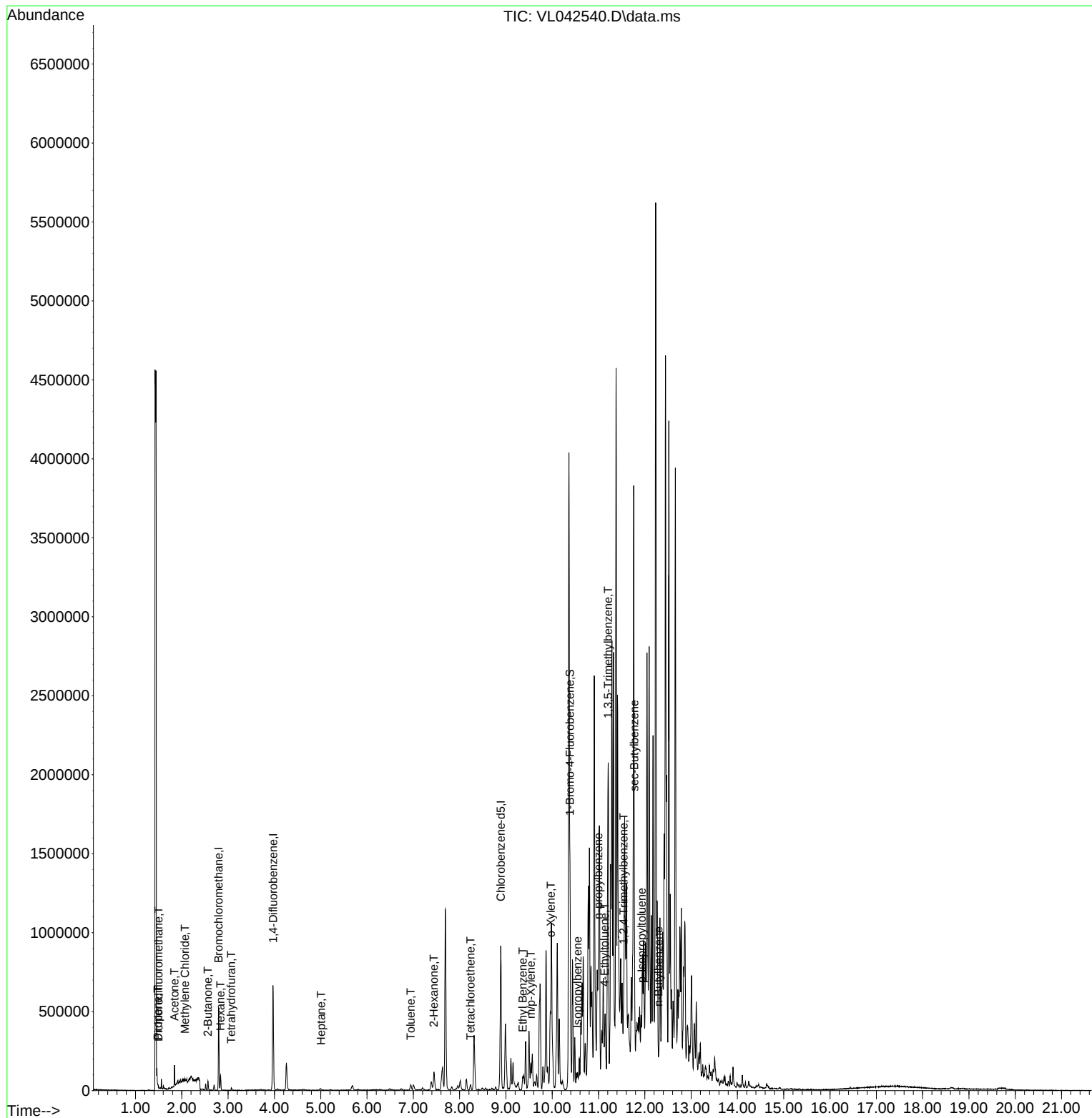
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042540.D
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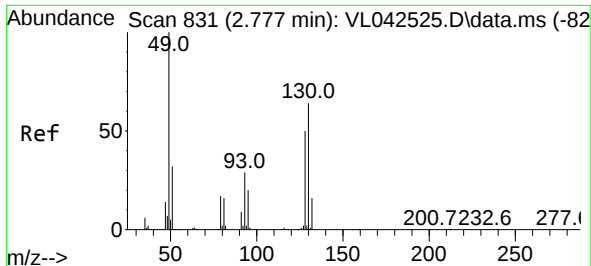
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: May 15 01:34:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 13 02:07:03 2025
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Supervised By : Mahesh Dadoda 05/15/2025





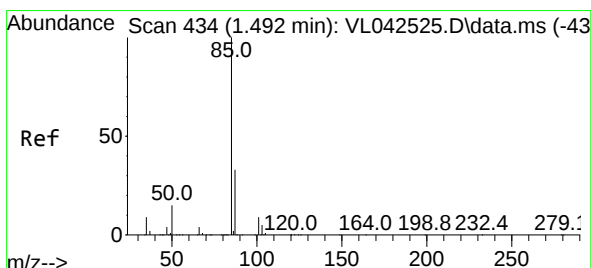
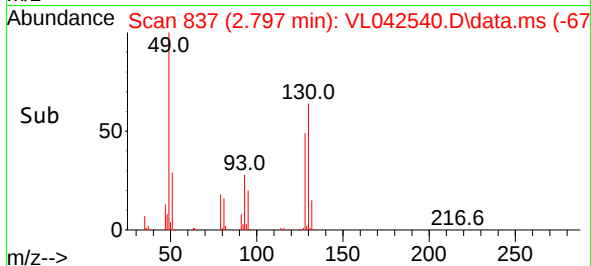
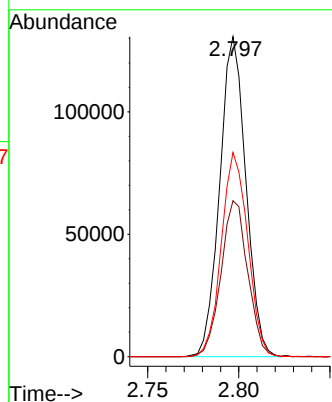
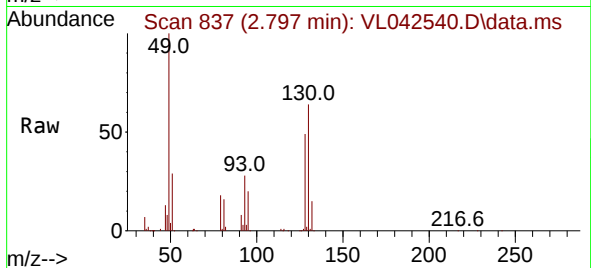
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.020 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 130590
Ion Ratio Lower Upper
49 100
128 49.8 24.9 74.6
130 64.2 32.5 97.5

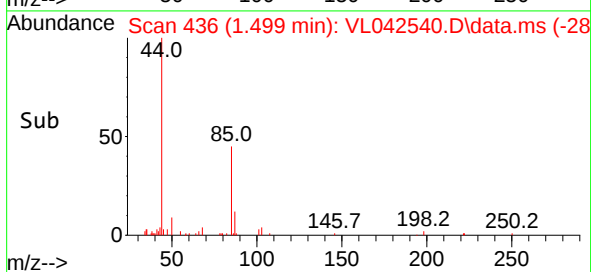
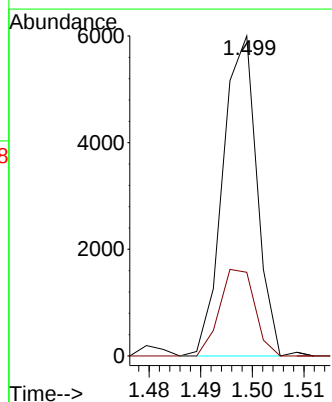
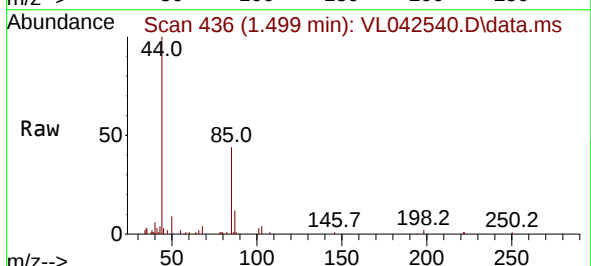
Manual Integrations
APPROVED

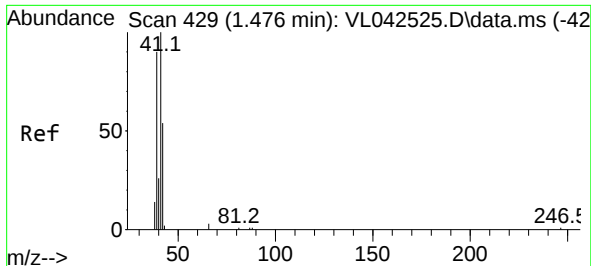
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 0.129 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

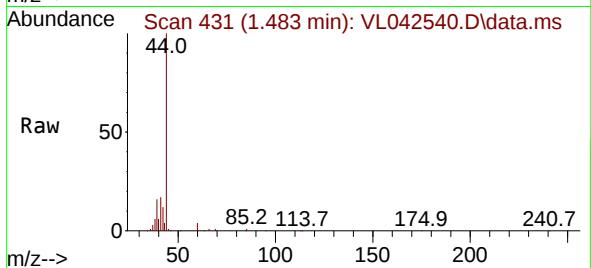
Tgt Ion: 85 Resp: 2743
Ion Ratio Lower Upper
85 100
87 26.2 26.8 40.2#





#9
Propene
Concen: 0.491 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

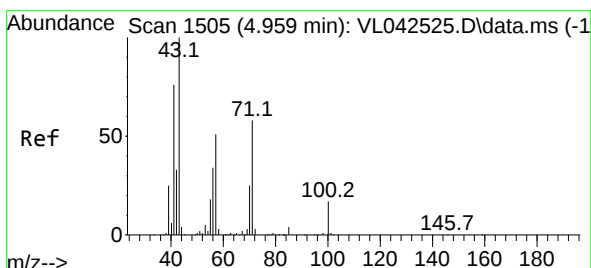
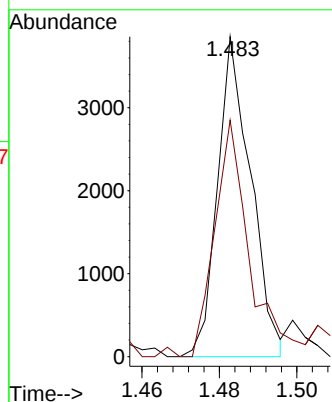
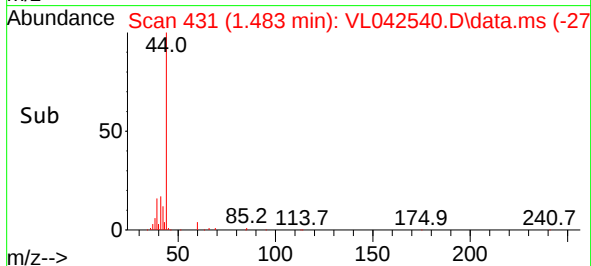
Instrument :
MSVOA_L
ClientSampleId :
SV1



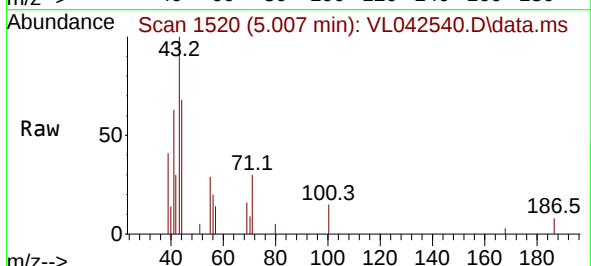
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Ion Ratio Lower Upper
41 100
42 84.7 4.1 6.1

Manual Integrations
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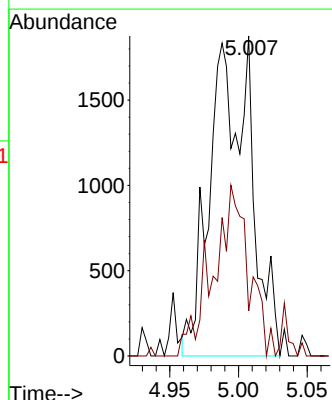
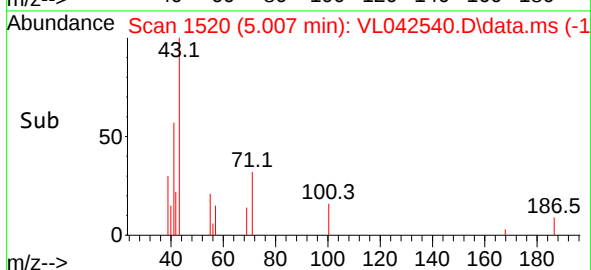
Reviewed By :Semsettin Yesilyurt 05/15/2025
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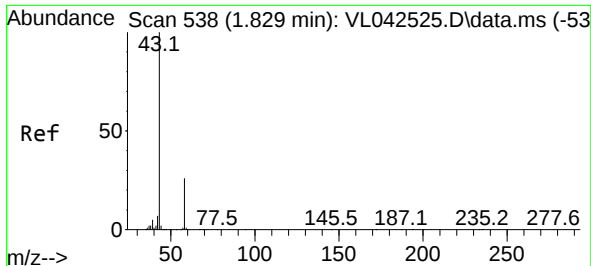


#10
Heptane
Concen: 0.211 ppbv m
RT: 5.007 min Scan# 1520
Delta R.T. 0.048 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



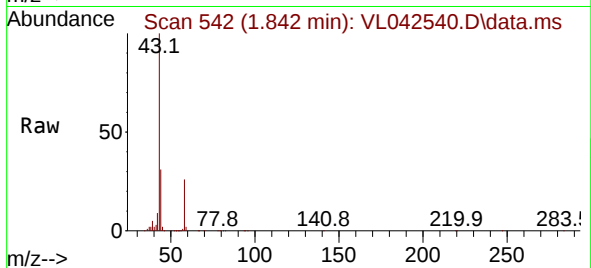
Tgt Ion: 43 Resp: 3780
Ion Ratio Lower Upper
43 100
57 51.1 42.1 63.1





#15
Acetone
Concen: 2.684 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

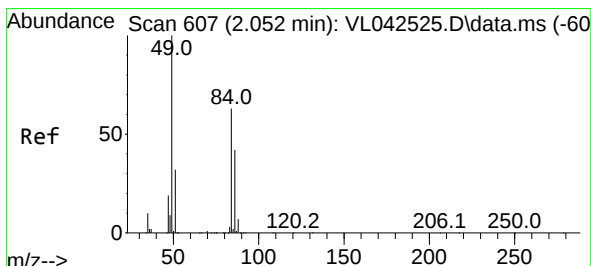
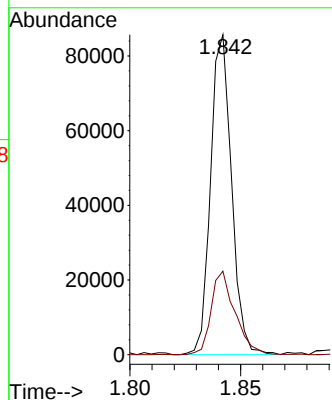
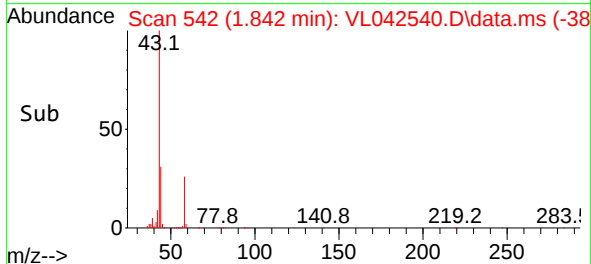
Instrument :
MSVOA_L
ClientSampleId :
SV1



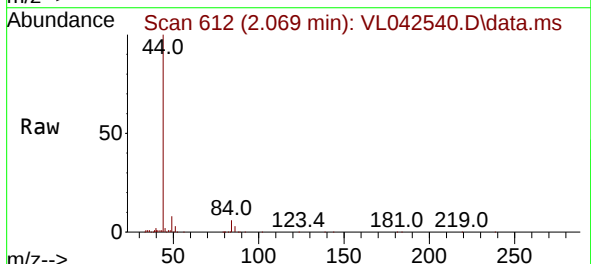
Tgt Ion: 43 Resp: 5649
Ion Ratio Lower Upper
43 100
58 29.7 21.3 31.9

Manual Integrations
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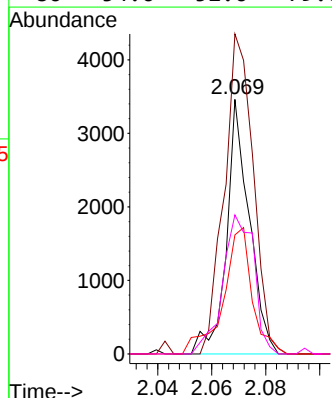
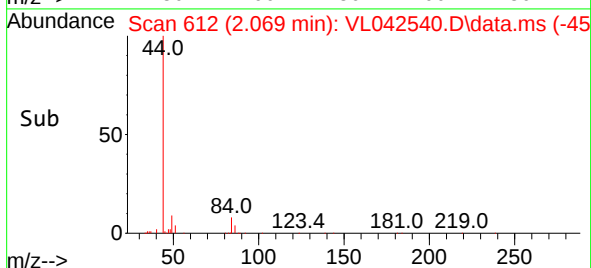
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Supervised By :Mahesh Dadoda 05/15/2025

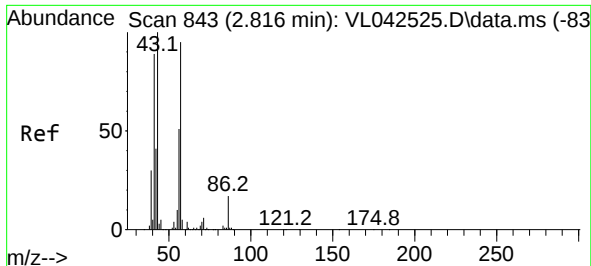


#20
Methylene Chloride
Concen: 0.280 ppbv m
RT: 2.069 min Scan# 612
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



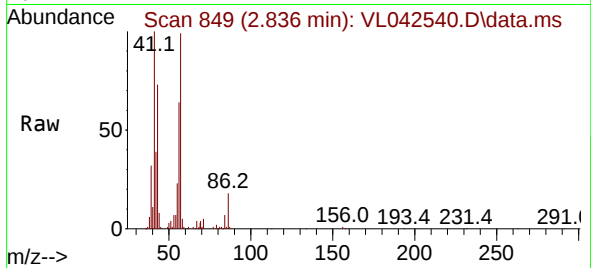
Tgt Ion: 84 Resp: 2031
Ion Ratio Lower Upper
84 100
49 125.7 128.2 192.4#
51 46.8 41.7 62.5
86 54.6 52.6 79.0





#26
Hexane
Concen: 1.296 ppbv
RT: 2.836 min Scan# 843
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

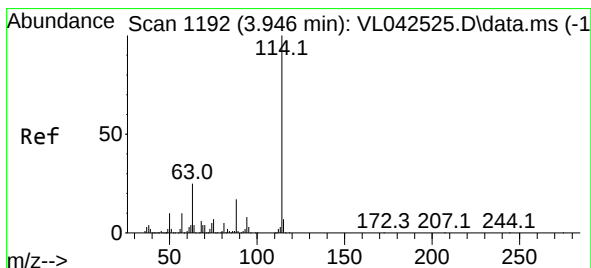
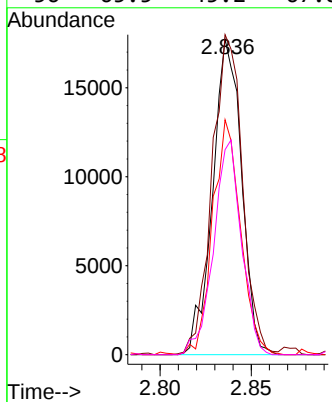
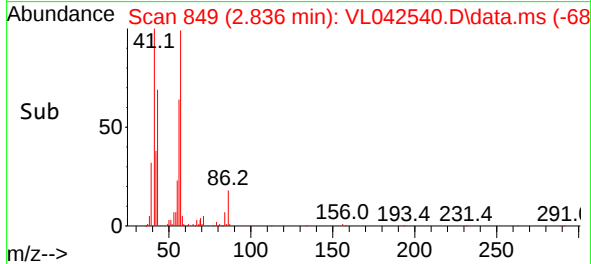
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 19490
Ion Ratio Lower Upper
57 100
41 107.9 76.1 114.1
43 73.2 188.9 283.3
56 65.5 45.2 67.8

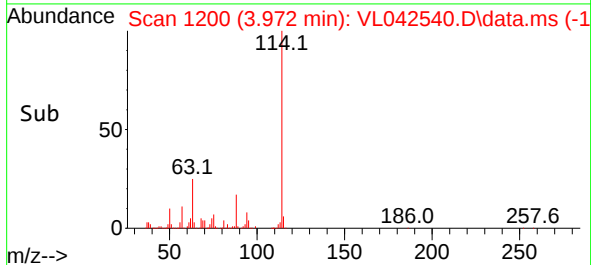
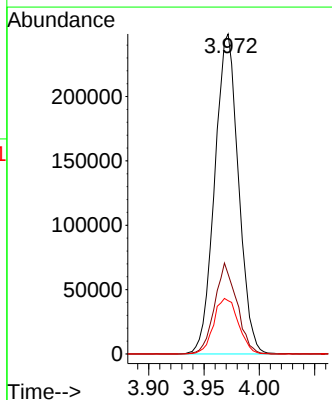
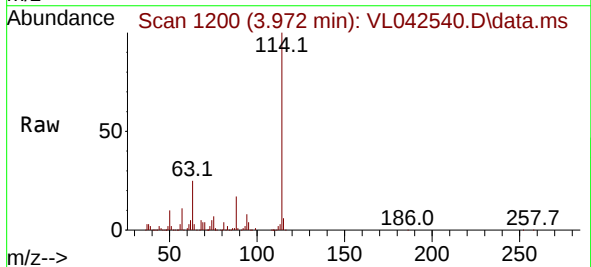
Manual Integrations
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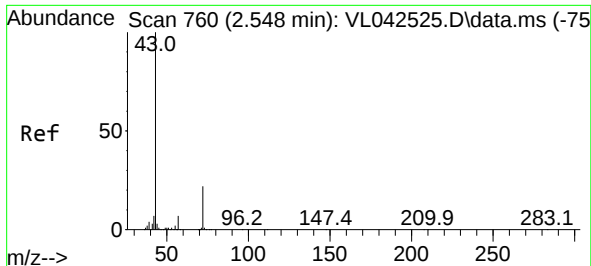
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.026 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

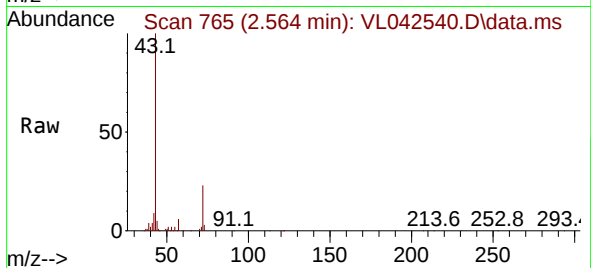
Tgt Ion:114 Resp: 371118
Ion Ratio Lower Upper
114 100
63 26.6 20.4 30.6
88 18.0 14.5 21.7





#34
2-Butanone
Concen: 1.405 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

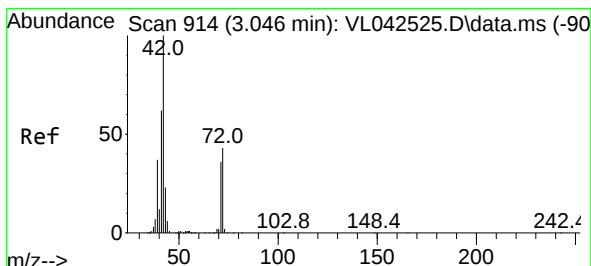
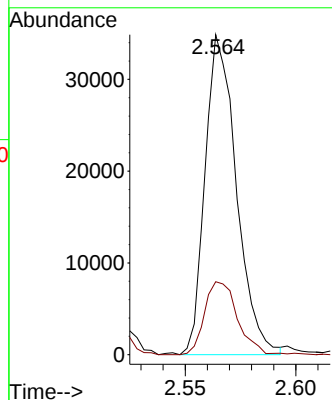
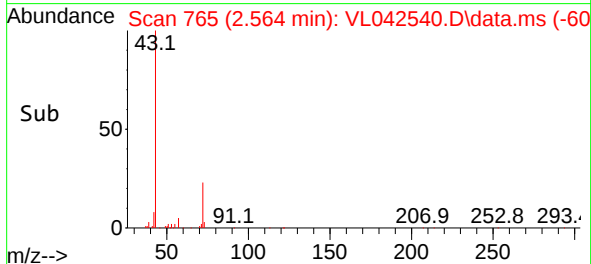
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 34360
Ion Ratio Lower Upper
43 100
72 24.1 18.7 28.1

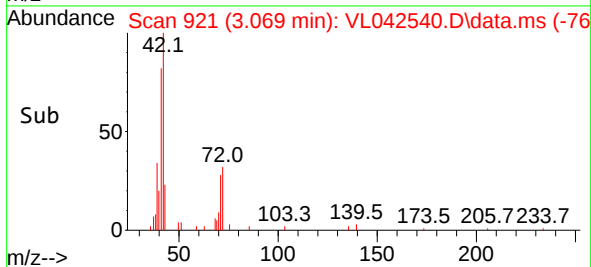
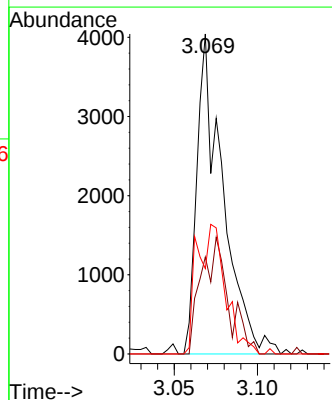
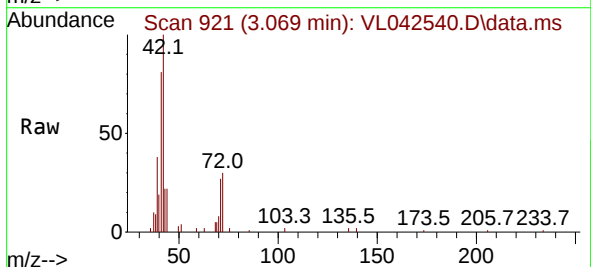
Manual Integrations
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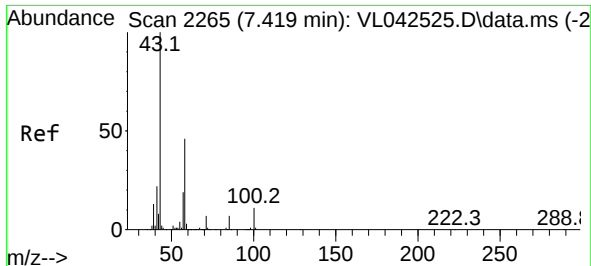
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#41
Tetrahydrofuran
Concen: 0.411 ppbv m
RT: 3.069 min Scan# 921
Delta R.T. 0.023 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

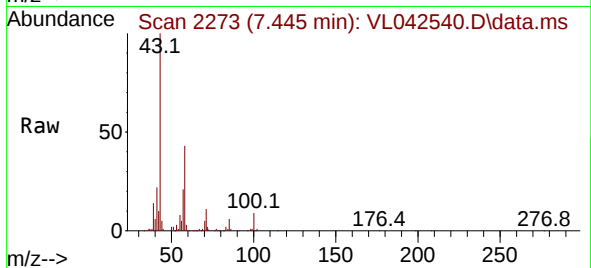
Tgt Ion: 42 Resp: 4353
Ion Ratio Lower Upper
42 100
72 0.0 32.7 49.1#
71 0.0 30.4 45.6#





#51
2-Hexanone
Concen: 3.433 ppbv m
RT: 7.445 min Scan# 2117
Delta R.T. 0.026 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

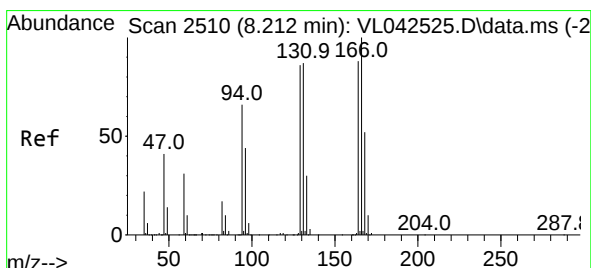
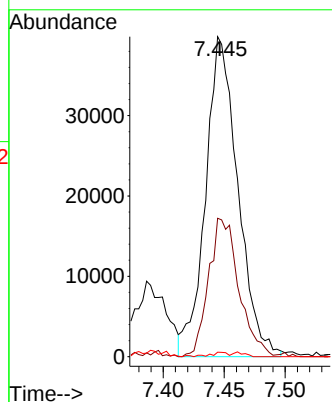
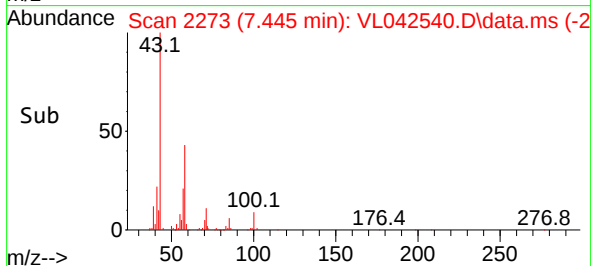
Instrument :
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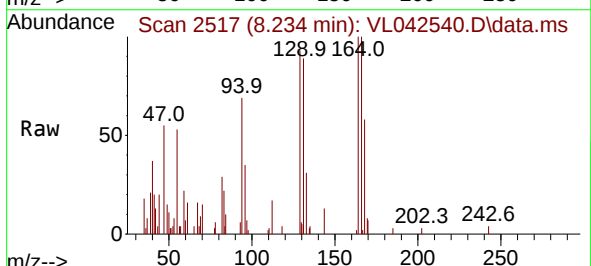
Tgt Ion: 43 Resp: 73358
Ion Ratio Lower Upper
43 100
58 40.8 37.5 56.3
98 1.2 0.9 1.3

Manual Integrations
APPROVED

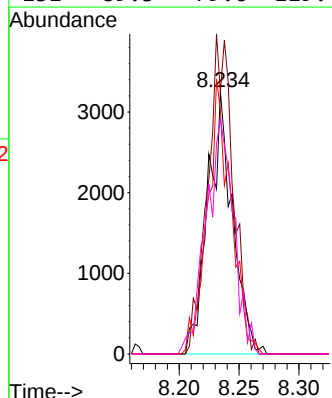
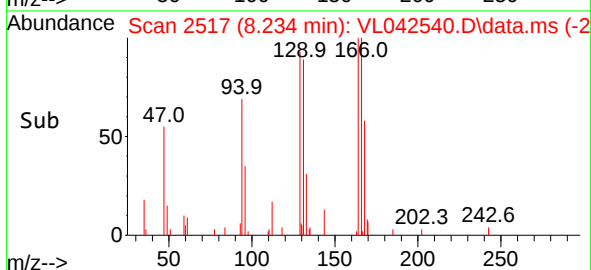
Reviewed By :Semsettin Yesilyurt 05/15/2025
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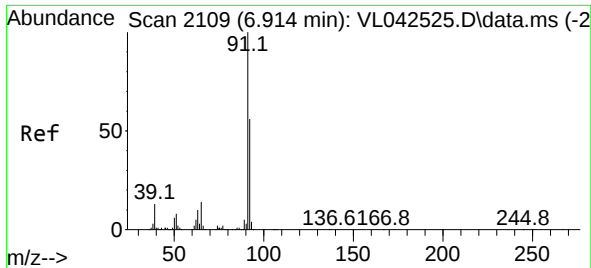


#52
Tetrachloroethene
Concen: 0.369 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. 0.023 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



Tgt Ion:164 Resp: 4645
Ion Ratio Lower Upper
164 100
166 99.7 91.3 136.9
129 93.2 78.9 118.3
131 89.3 79.6 119.4





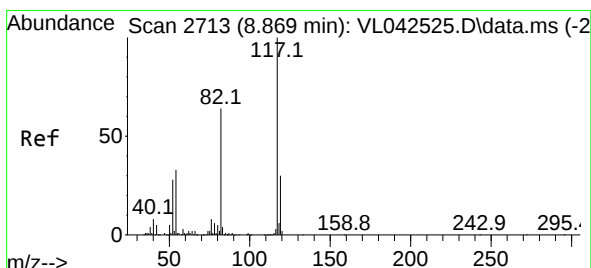
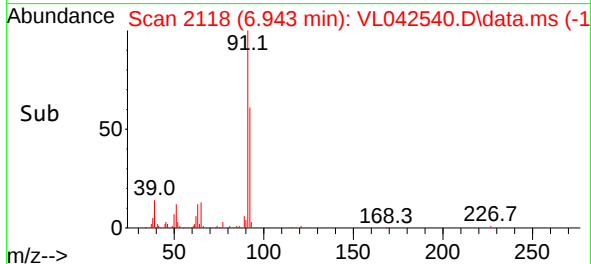
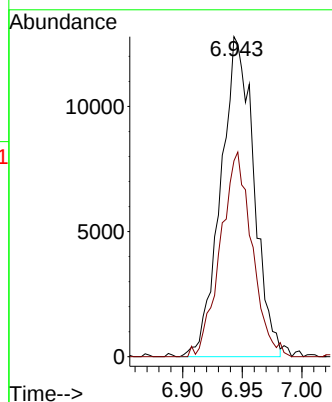
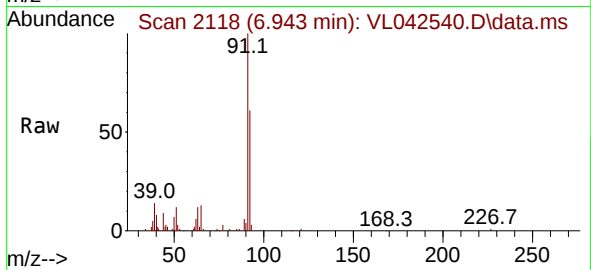
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Toluene
Concen: 0.764 ppbv
RT: 6.943 min Scan# 2109
Delta R.T. 0.029 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2465
Ion Ratio Lower Upper
91 100
92 61.2 47.8 71.6

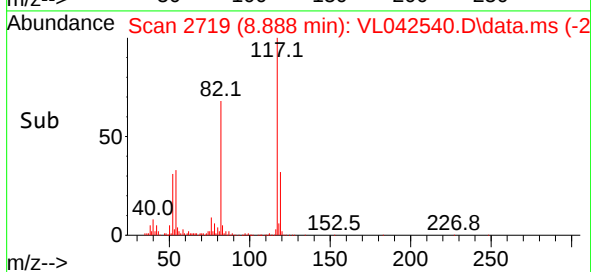
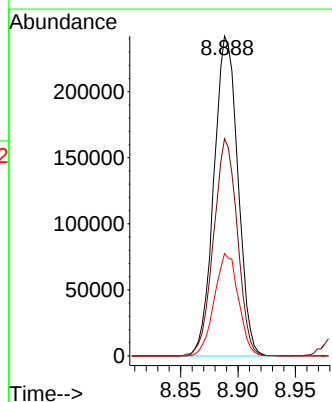
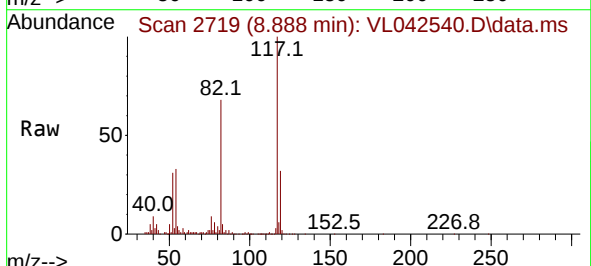
Manual Integrations
APPROVED

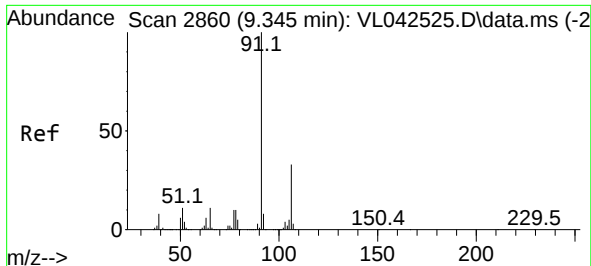
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

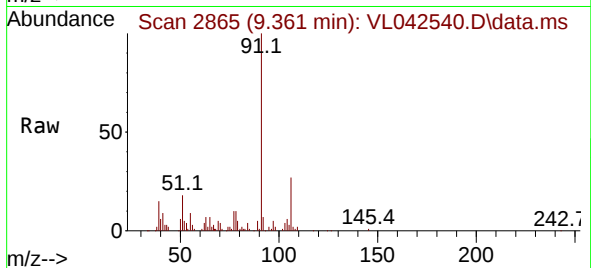
Tgt Ion:117 Resp: 351568
Ion Ratio Lower Upper
117 100
82 67.4 55.0 82.4
119 32.3 25.8 38.6





#58
Ethyl Benzene
Concen: 0.708 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

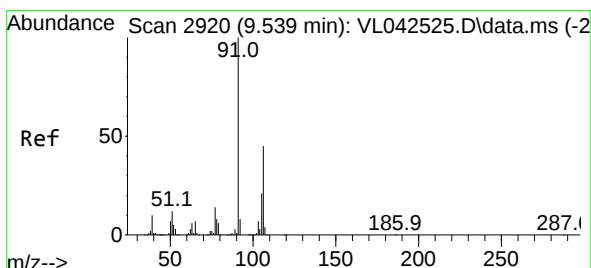
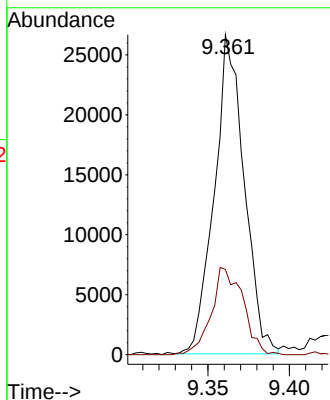
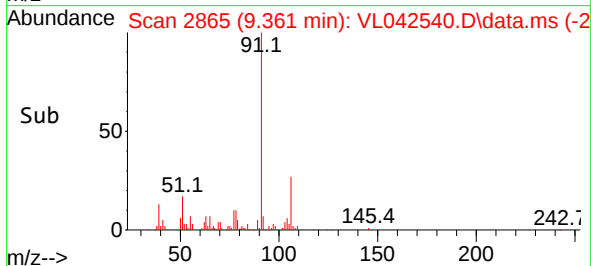
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 3394
Ion Ratio Lower Upper
91 100
106 26.3 26.0 39.0

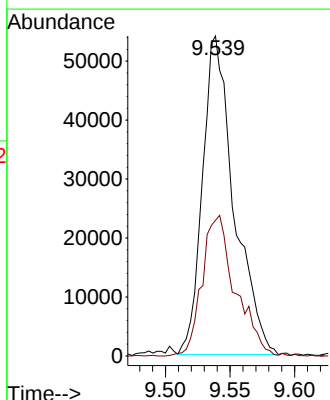
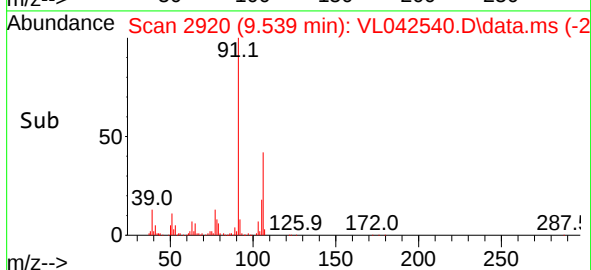
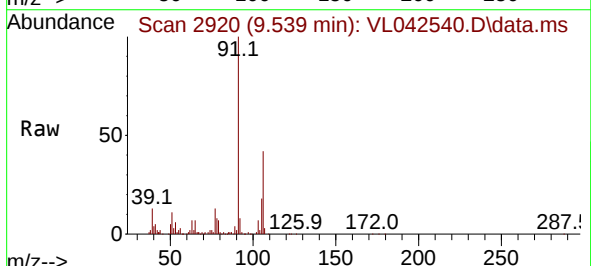
Manual Integrations
APPROVED

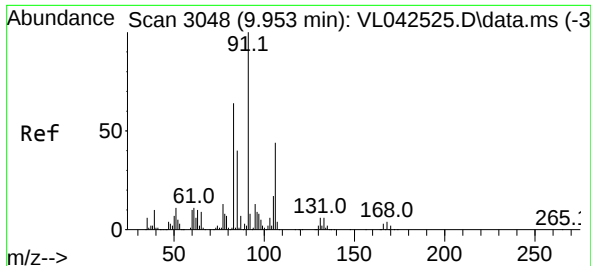
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#59
m/p-Xylene
Concen: 2.163 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.000 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

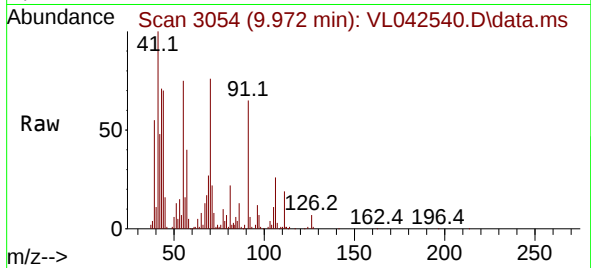
Tgt Ion: 91 Resp: 92047
Ion Ratio Lower Upper
91 100
106 46.7 0.0 0.0#





#60
o-Xylene
Concen: 1.443 ppbv
RT: 9.972 min Scan# 3048
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

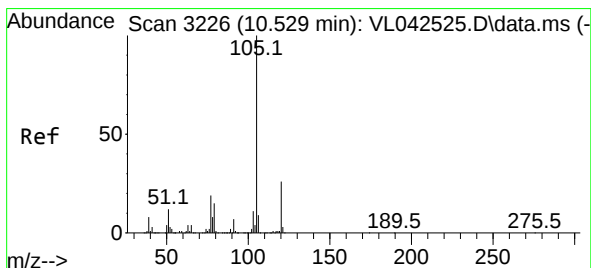
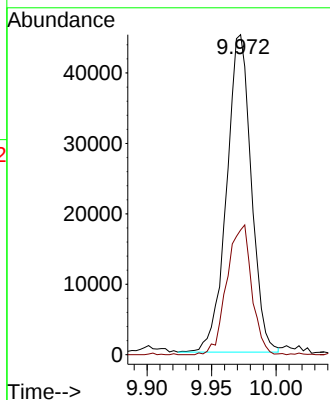
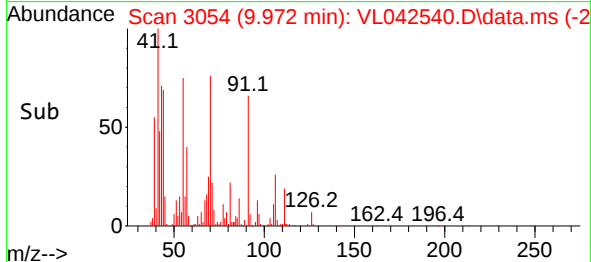
Instrument :
MSVOA_L
ClientSampleId :
SV1



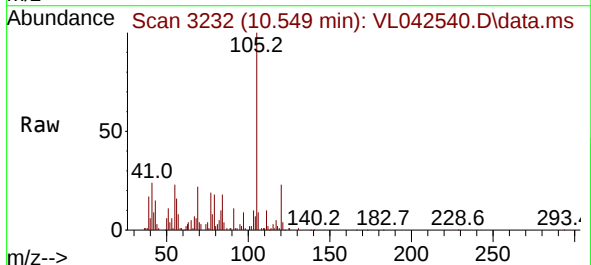
Tgt Ion: 91 Resp: 5998
Ion Ratio Lower Upper
91 100
106 41.2 21.6 64.6

Manual Integrations
APPROVED

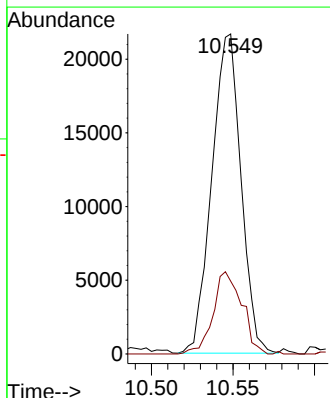
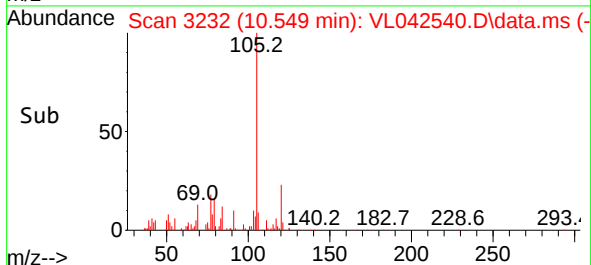
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

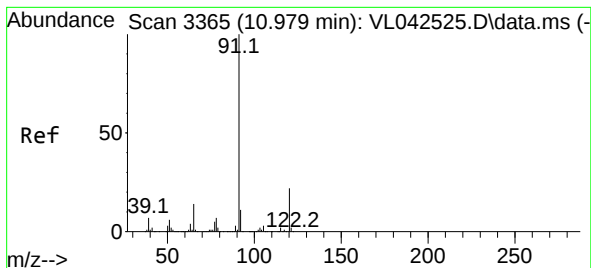


#62
Isopropylbenzene
Concen: 0.430 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



Tgt Ion:105 Resp: 26923
Ion Ratio Lower Upper
105 100
120 25.6 20.1 30.1





#64

n-propylbenzene

Concen: 1.236 ppbv

RT: 10.995 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042540.D

Acq: 14 May 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:120 Resp: 19640

Ion Ratio Lower Upper

120 100

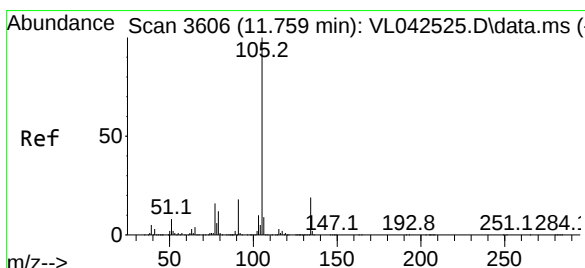
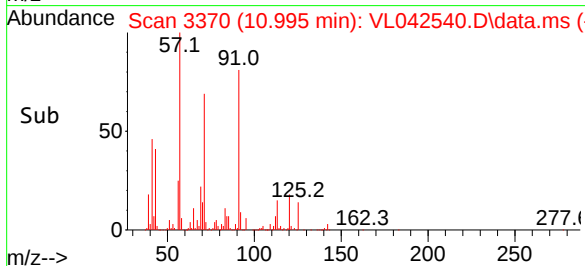
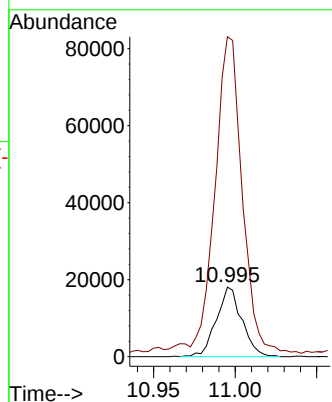
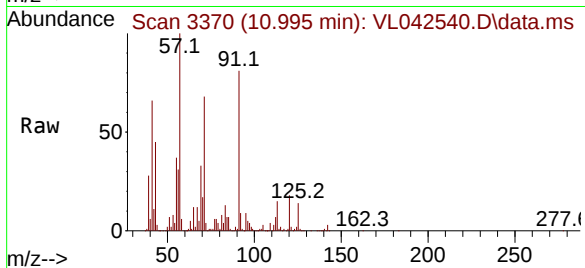
91 508.9 377.7 566.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#67

sec-Butylbenzene

Concen: 0.710 ppbv m

RT: 11.772 min Scan# 3610

Delta R.T. 0.013 min

Lab File: VL042540.D

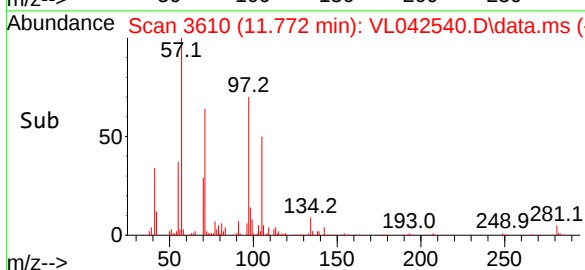
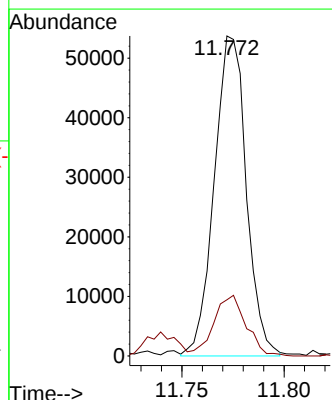
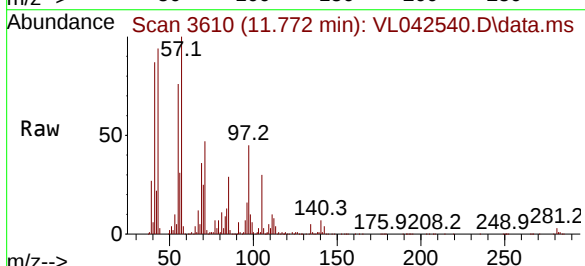
Acq: 14 May 2025 13:12

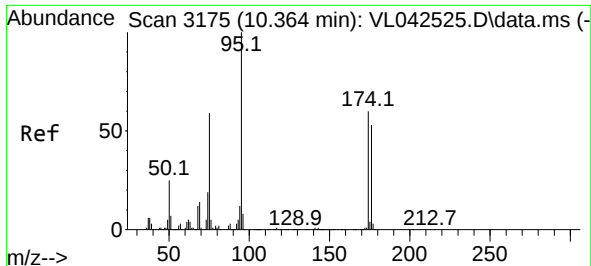
Tgt Ion:105 Resp: 58550

Ion Ratio Lower Upper

105 100

134 18.7 14.9 22.3





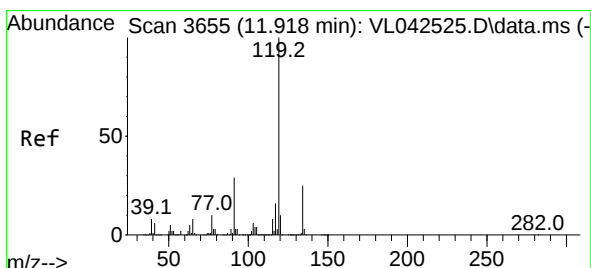
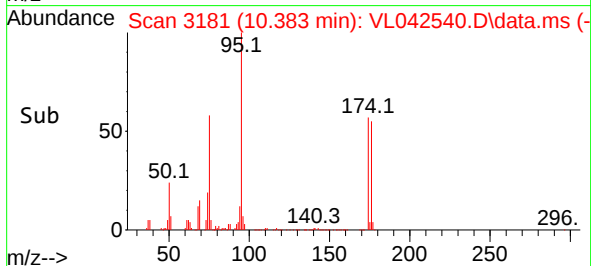
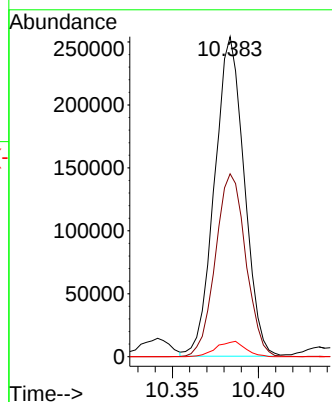
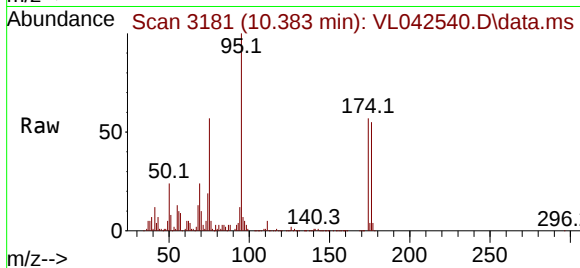
#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 10.383 min Scan# 3175
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 30441
Ion Ratio Lower Upper
95 100
174 58.5 48.0 72.0
175 4.7 3.5 5.3

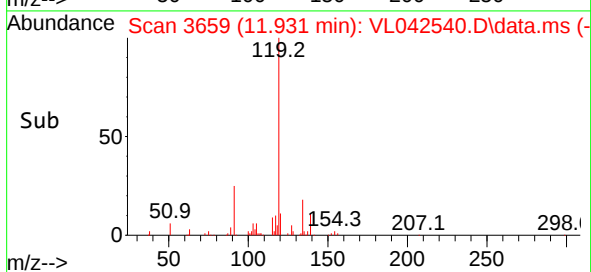
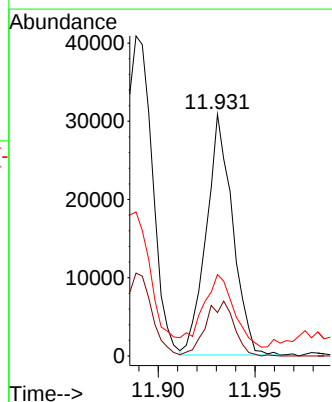
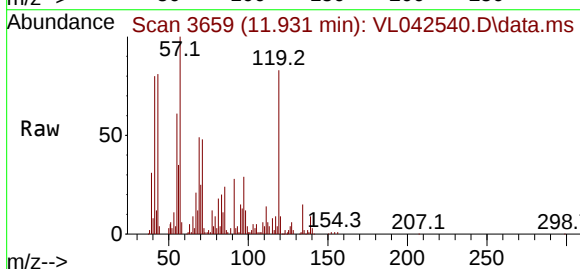
Manual Integrations
APPROVED

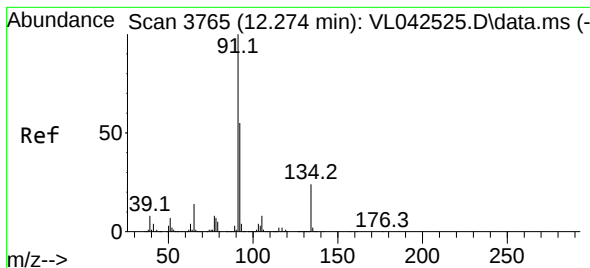
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#69
p-Isopropyltoluene
Concen: 0.430 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Tgt Ion:119 Resp: 29161
Ion Ratio Lower Upper
119 100
134 24.7 19.8 29.6
91 35.2 23.6 35.4





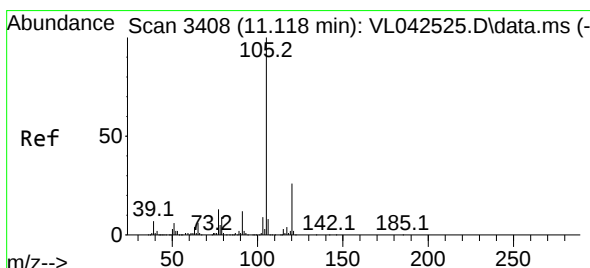
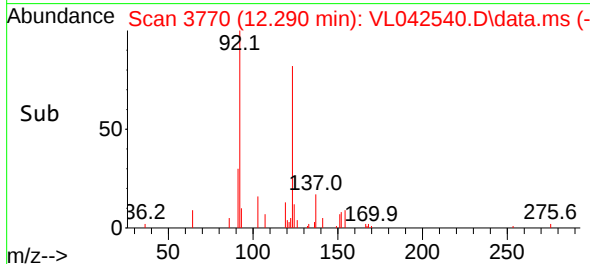
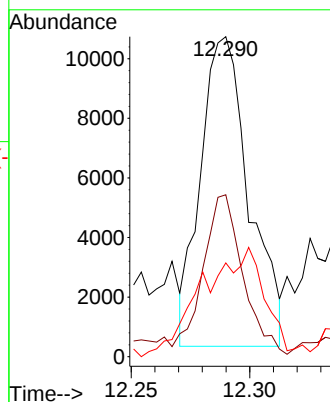
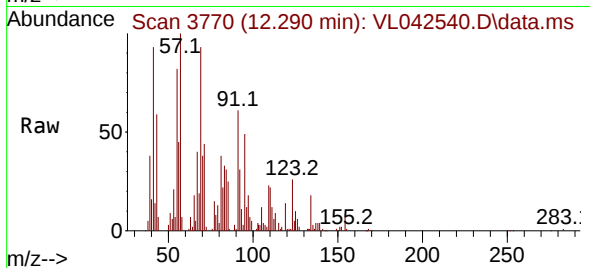
#70
n-Butylbenzene
Concen: 0.222 ppbv m
RT: 12.290 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 1484
Ion Ratio Lower Upper
91 100
92 39.2 43.7 65.5
134 46.1 18.9 28.3

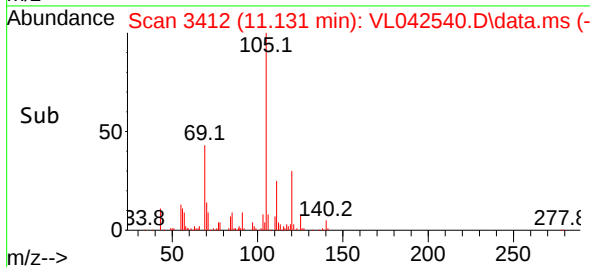
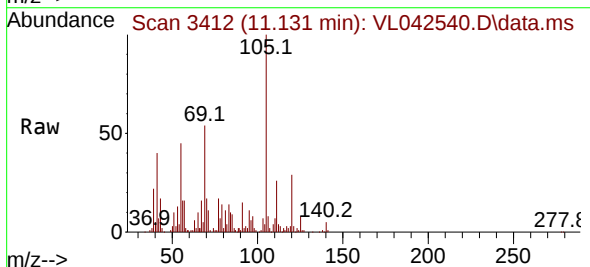
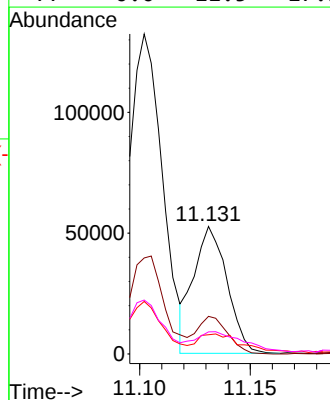
Manual Integrations
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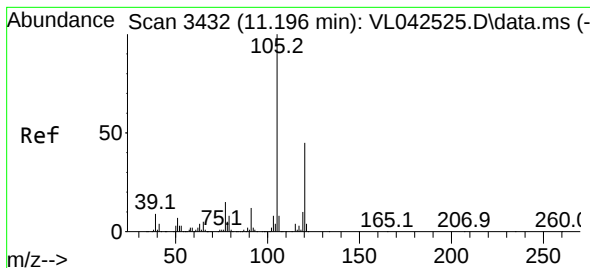
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#72
4-Ethyltoluene
Concen: 1.074 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.013 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Tgt Ion:105 Resp: 55381
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3#
91 0.0 10.9 16.3#
77 0.0 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 1.434 ppbv

RT: 11.209 min Scan# 3432

Delta R.T. 0.013 min

Lab File: VL042540.D

Acq: 14 May 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 64408

Ion Ratio Lower Upper

105 100

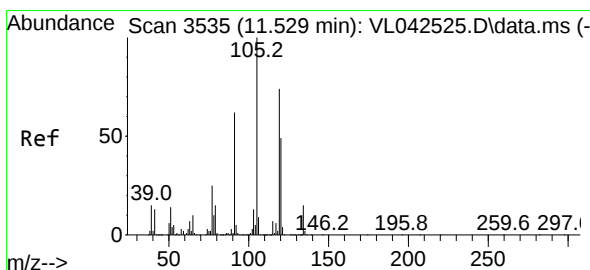
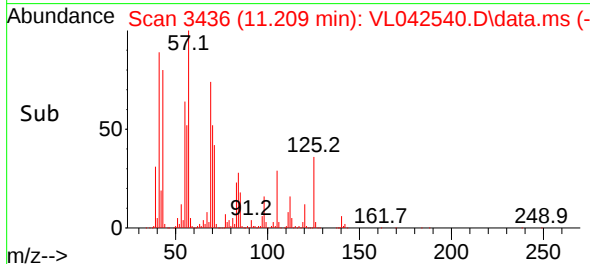
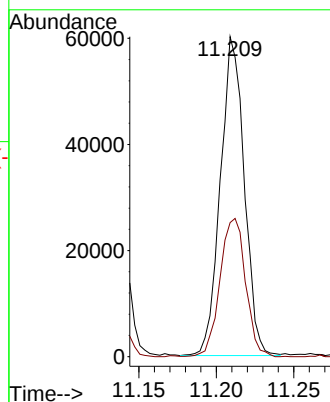
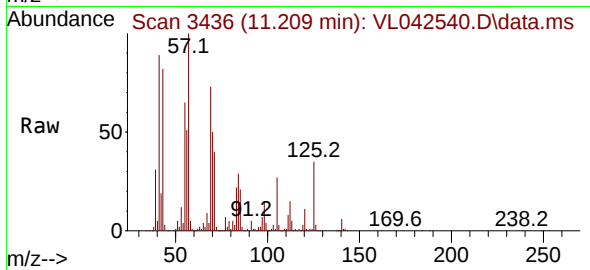
120 42.1 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.859 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.013 min

Lab File: VL042540.D

Acq: 14 May 2025 13:12

Tgt Ion:105 Resp: 157948

Ion Ratio Lower Upper

105 100

120 42.8 39.0 58.6

91 11.2 49.4 74.2#

77 12.7 19.8 29.6#

