

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042409.D
 Acq On : 21 Apr 2025 17:23
 Operator : SY/MD
 Sample : Q1843-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	115370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	327427	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	283143	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	251438	10.807	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.100%
Target Compounds						
					Qvalue	
9) Propene	1.486	41	2356	0.267	ppbv	88
10) Heptane	4.985	43	3535m	0.142	ppbv	
13) Ethanol	1.722	45	2759m	1.964	ppbv	
15) Acetone	1.839	43	49004	2.595	ppbv	95
20) Methylene Chloride	2.062	84	1414	0.191	ppbv #	55
26) Hexane	2.829	57	9974	0.529	ppbv #	30
34) 2-Butanone	2.564	43	16316	0.630	ppbv	97
51) 2-Hexanone	7.448	43	21893m	0.567	ppbv	
52) Tetrachloroethene	8.228	164	1474	0.108	ppbv #	80
53) Toluene	6.936	91	19617m	0.463	ppbv	
58) Ethyl Benzene	9.357	91	19485	0.347	ppbv #	86
59) m/p-Xylene	9.535	91	52878	1.170	ppbv	98
60) o-Xylene	9.963	91	31285	0.687	ppbv	94
62) Isopropylbenzene	10.542	105	13049	0.195	ppbv	98
64) n-propylbenzene	10.992	120	10960	0.653	ppbv	98
67) sec-Butylbenzene	11.769	105	30797m	0.361	ppbv	
69) p-Isopropyltoluene	11.930	119	15026	0.202	ppbv	98
72) 4-Ethyltoluene	11.128	105	32413	0.583	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	39763	0.810	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	105063	1.831	ppbv #	62

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

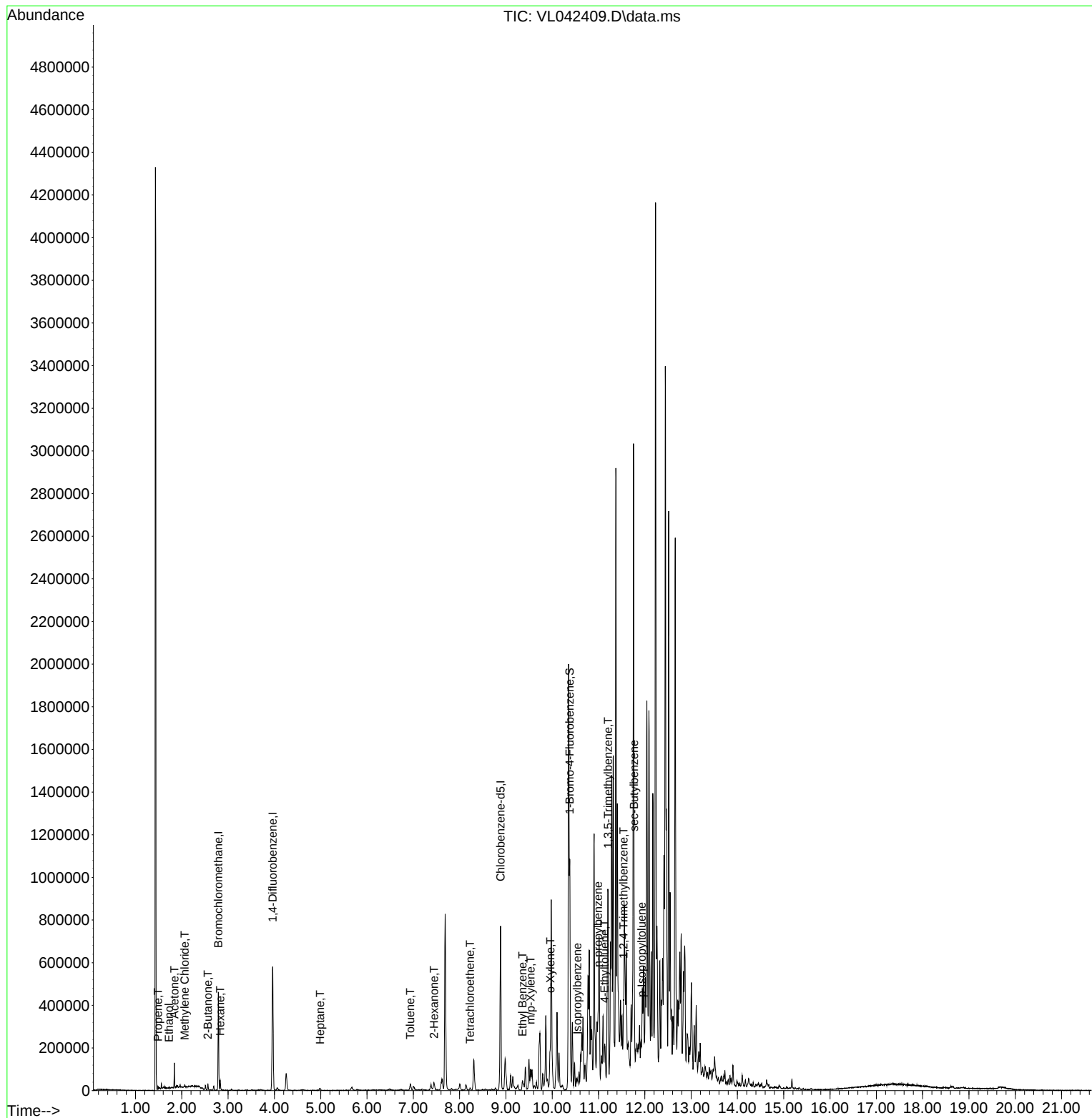
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Data File : VL042409.D
Acq On : 21 Apr 2025 17:23
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Sample : Q1843-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

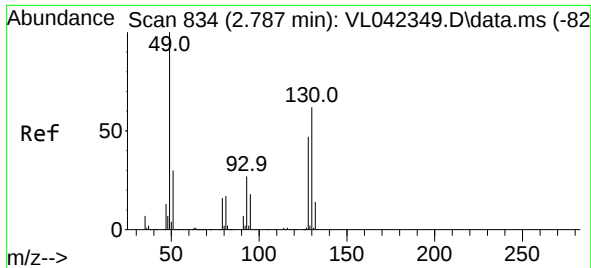
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 22 02:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
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Supervised By : Mahesh Dadoda 04/22/2025





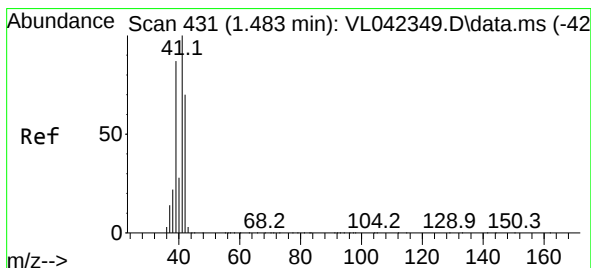
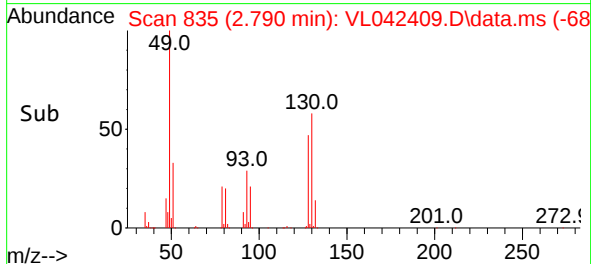
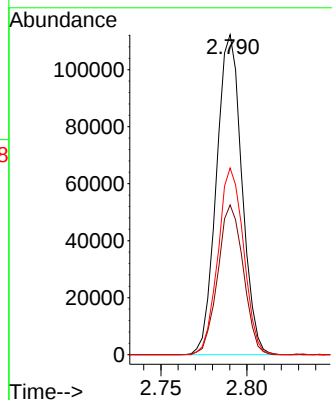
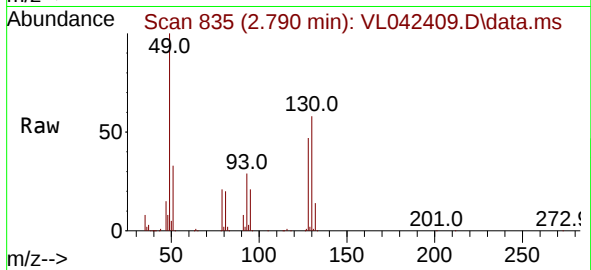
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 115370
Ion Ratio Lower Upper
49 100
128 46.9 22.8 68.4
130 58.8 29.3 88.0

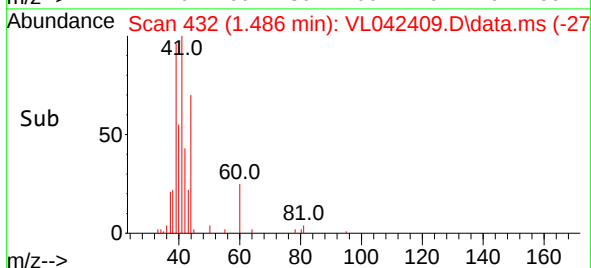
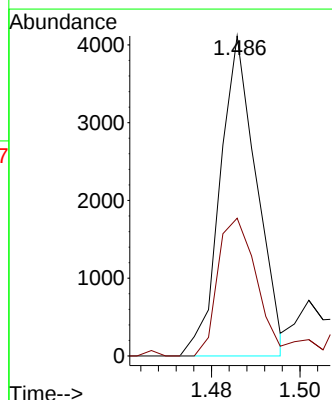
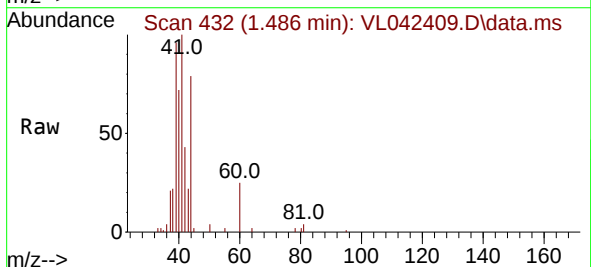
Manual Integrations
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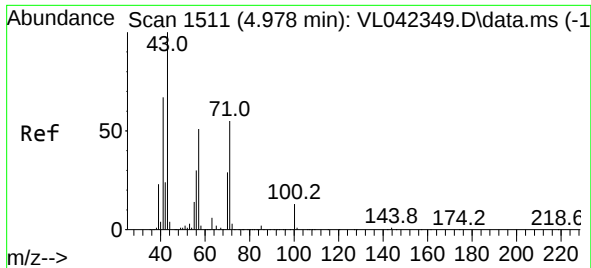
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#9
Propene
Concen: 0.267 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

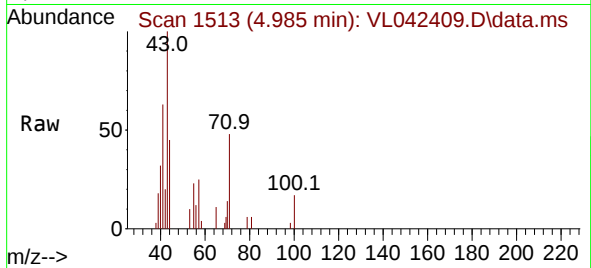
Tgt Ion: 41 Resp: 2356
Ion Ratio Lower Upper
41 100
42 60.1 56.2 84.4





#10
Heptane
Concen: 0.142 ppbv m
RT: 4.985 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

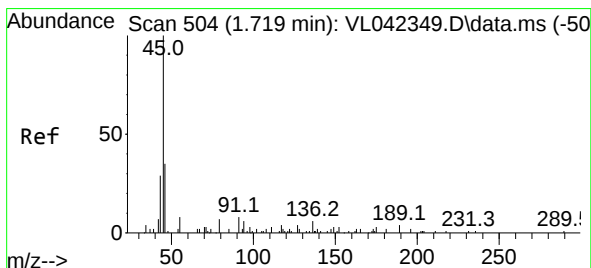
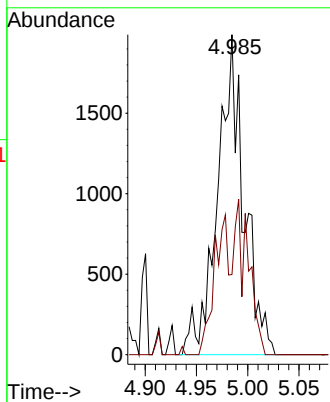
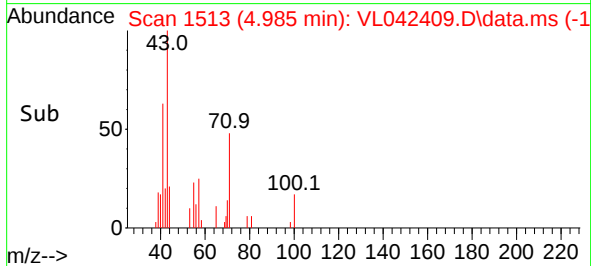
Instrument :
MSVOA_L
ClientSampleId :
SV1



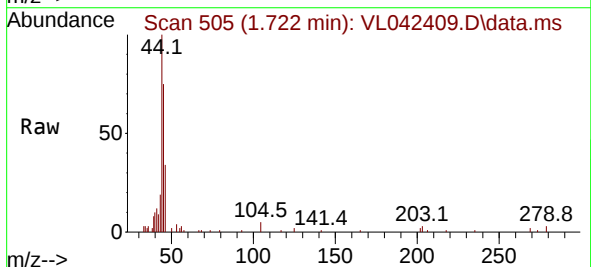
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Ion Ratio Lower Upper
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57 51.1 39.9 59.9

Manual Integrations
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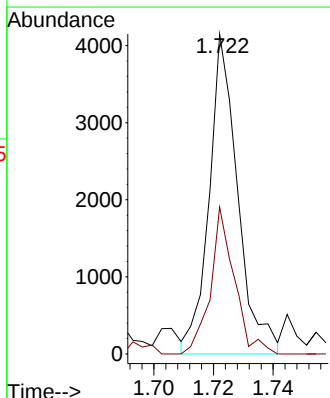
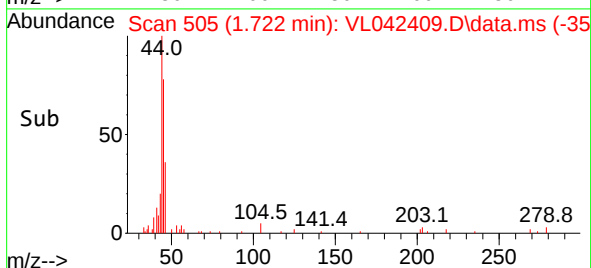
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

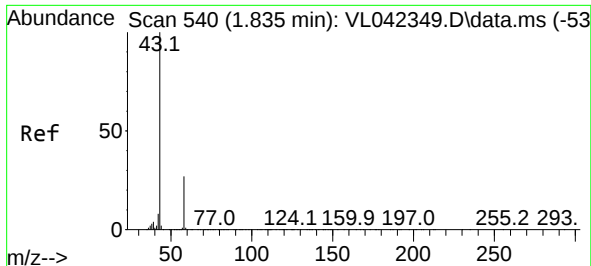


#13
Ethanol
Concen: 1.964 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23



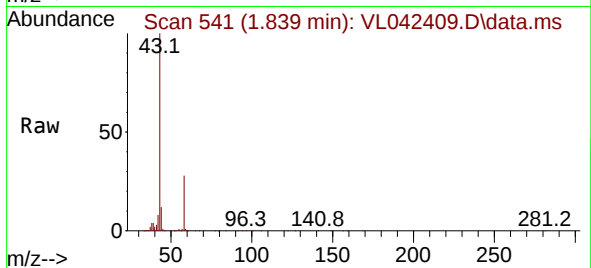
Tgt Ion: 45 Resp: 2759
Ion Ratio Lower Upper
45 100
46 4798.2 21.9 87.7#





#15
Acetone
Concen: 2.595 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

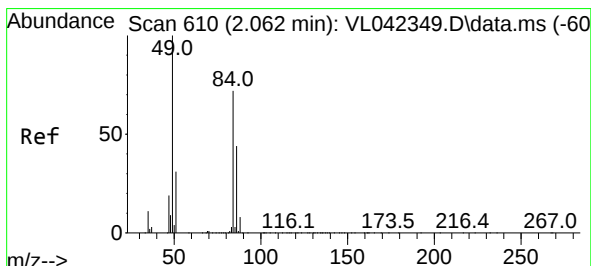
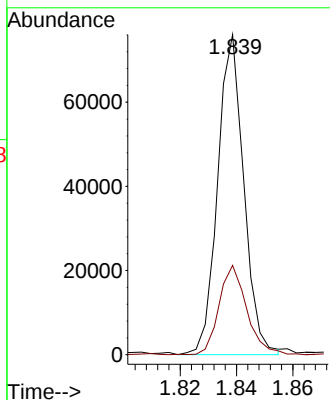
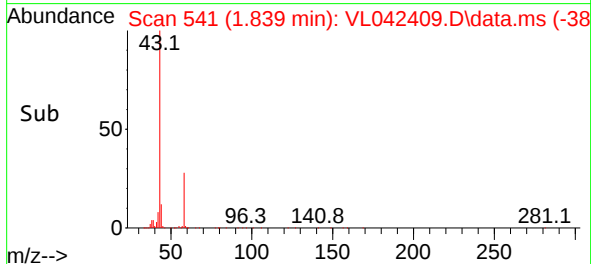
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 49004
Ion Ratio Lower Upper
43 100
58 30.5 22.4 33.6

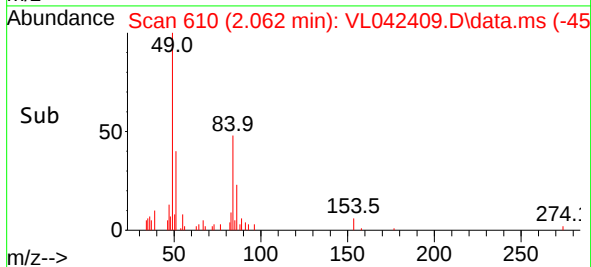
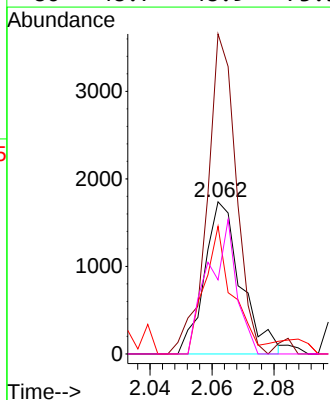
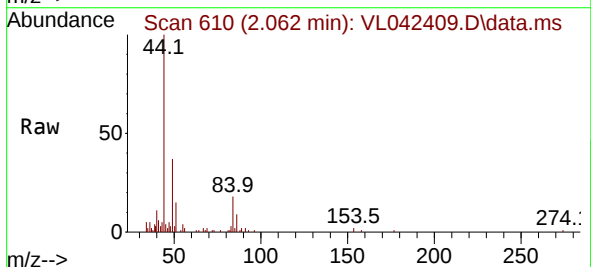
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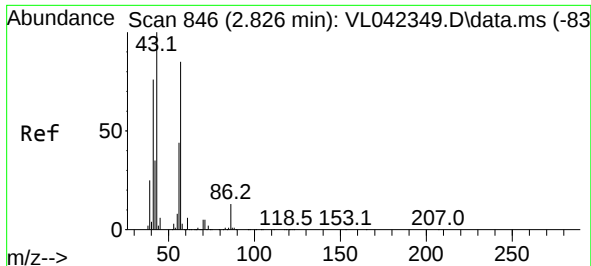
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#20
Methylene Chloride
Concen: 0.191 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Tgt Ion: 84 Resp: 1414
Ion Ratio Lower Upper
84 100
49 203.4 111.6 167.4#
51 83.9 35.1 52.7#
86 48.7 48.9 73.3#





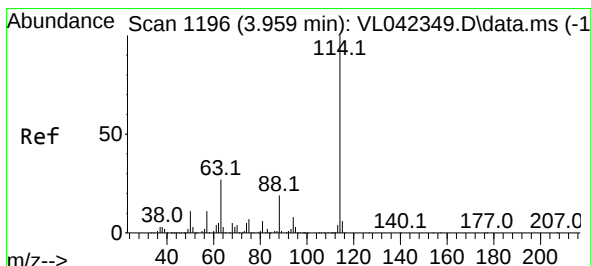
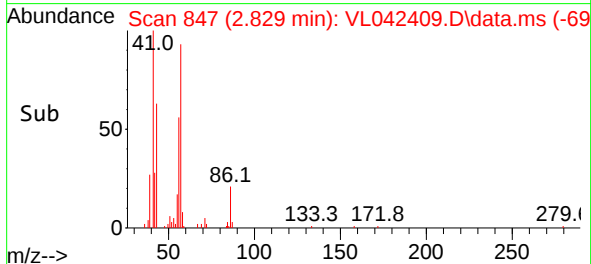
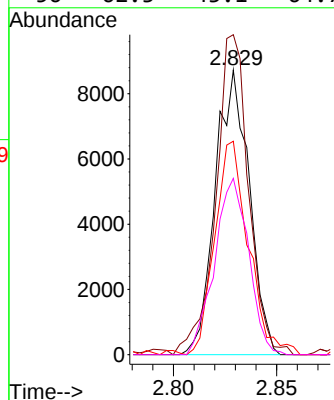
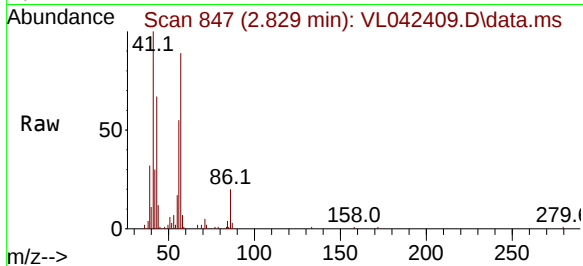
#26
Hexane
Concen: 0.529 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 57	Resp: 9974
Ion Ratio	Lower Upper
57 100	
41 109.6	77.9 116.9
43 75.4	208.4 312.6
56 62.3	43.1 64.7

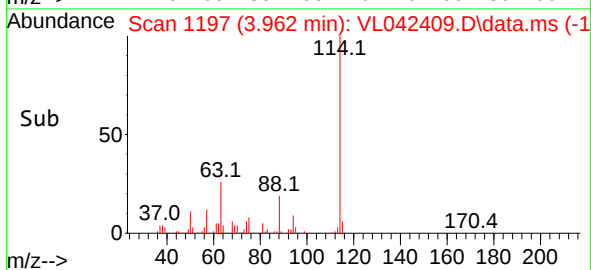
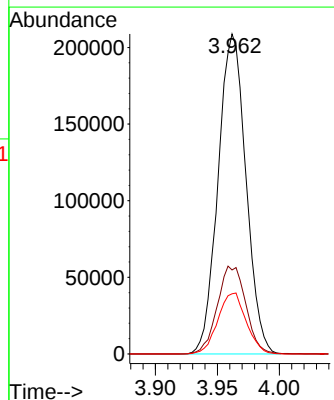
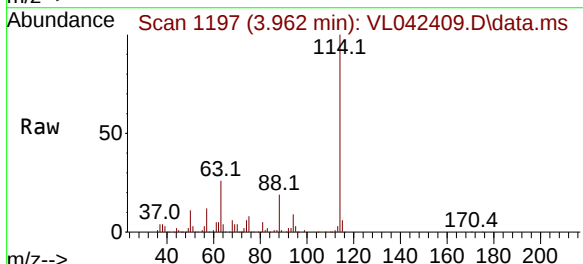
Manual Integrations
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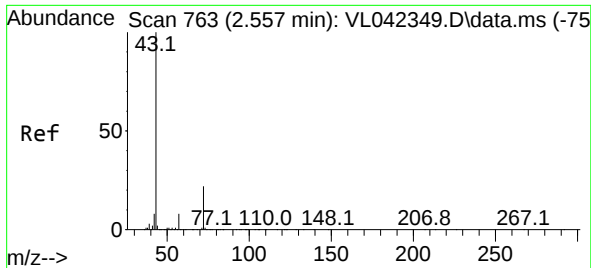
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Tgt Ion:114	Resp: 327427
Ion Ratio	Lower Upper
114 100	
63 28.1	21.8 32.6
88 19.3	15.5 23.3





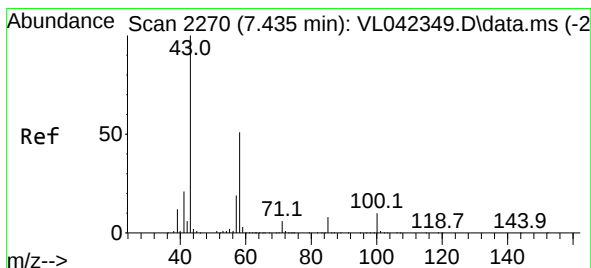
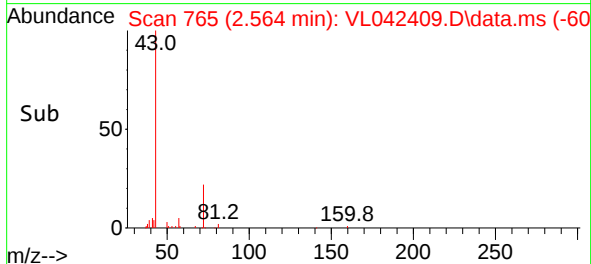
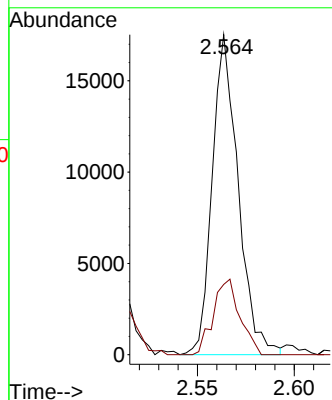
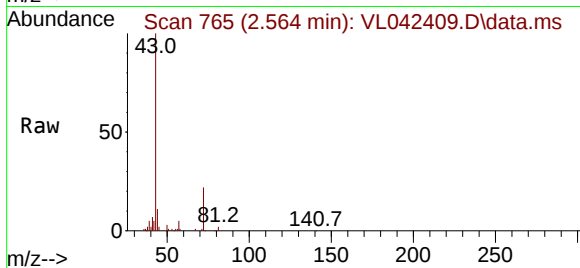
#34
2-Butanone
Concen: 0.630 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 16310
Ion Ratio Lower Upper
43 100
72 24.2 18.2 27.2

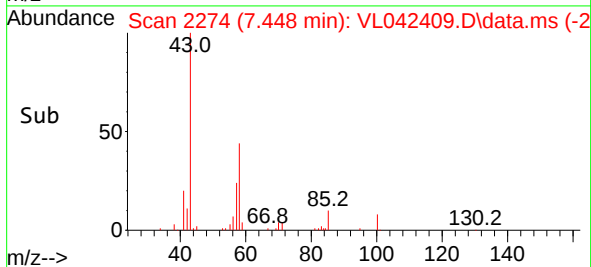
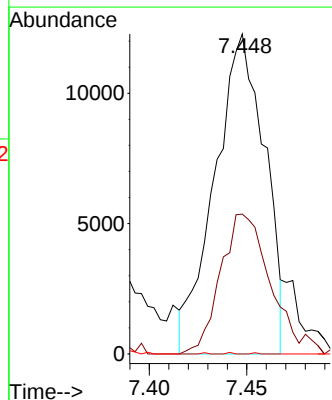
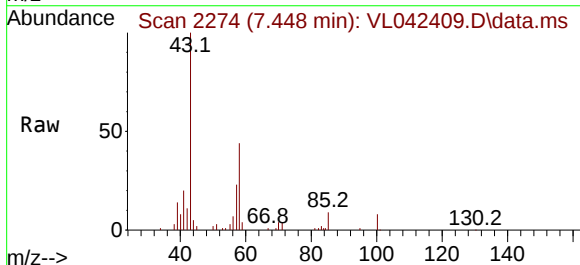
Manual Integrations
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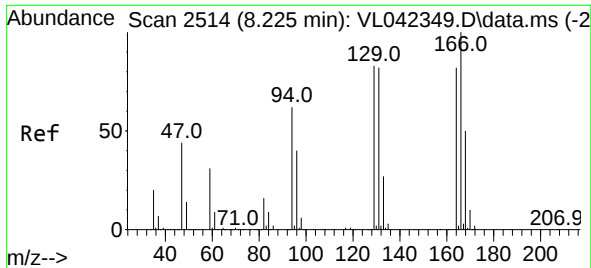
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#51
2-Hexanone
Concen: 0.567 ppbv m
RT: 7.448 min Scan# 2274
Delta R.T. 0.013 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

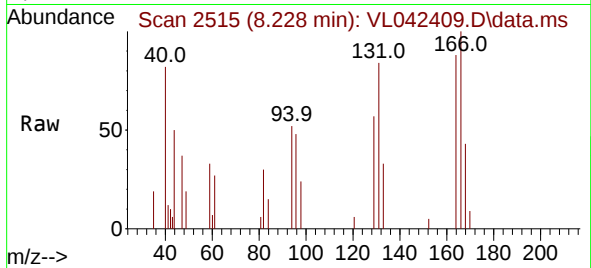
Tgt Ion: 43 Resp: 21893
Ion Ratio Lower Upper
43 100
58 44.5 40.2 60.4
98 0.0 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.108 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

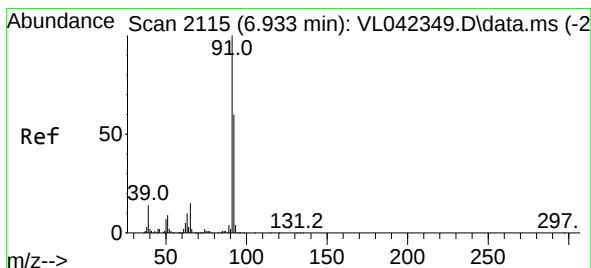
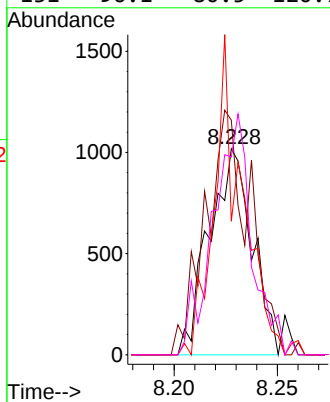
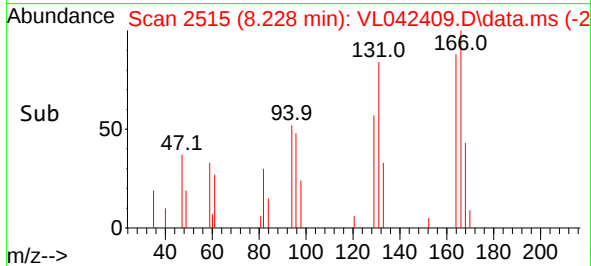
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 1474
Ion Ratio Lower Upper
164 100
166 101.8 98.2 147.2
129 64.8 81.8 122.8
131 96.1 80.5 120.7

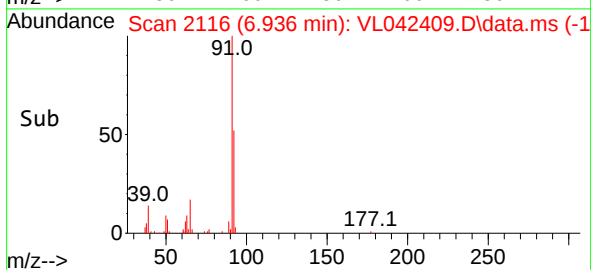
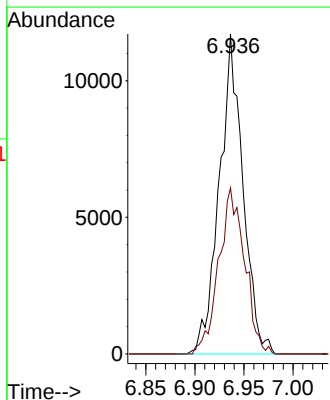
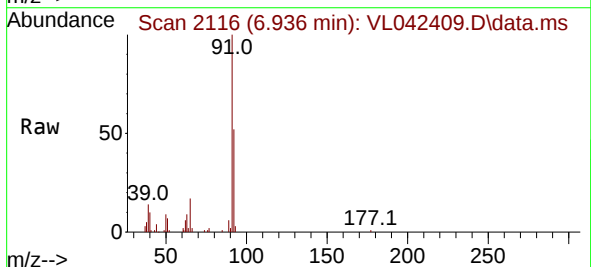
Manual Integrations
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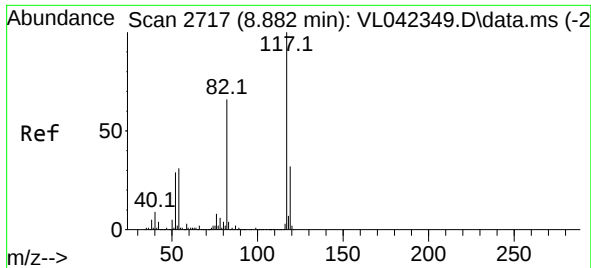
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#53
Toluene
Concen: 0.463 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Tgt Ion: 91 Resp: 19617
Ion Ratio Lower Upper
91 100
92 56.8 48.2 72.4





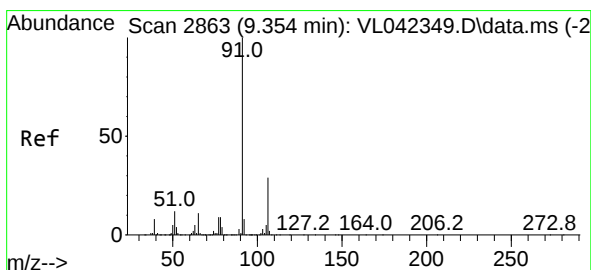
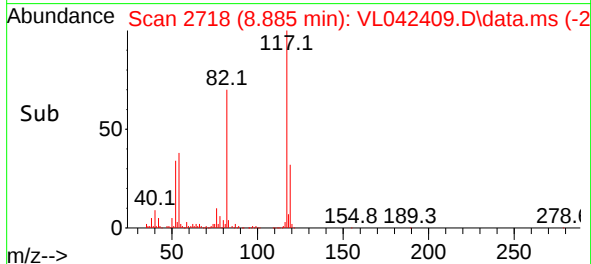
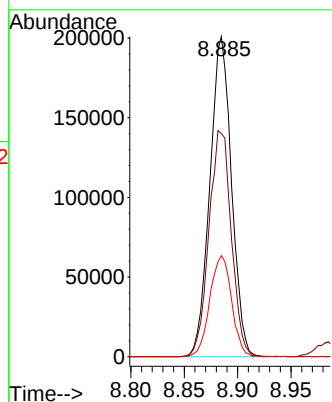
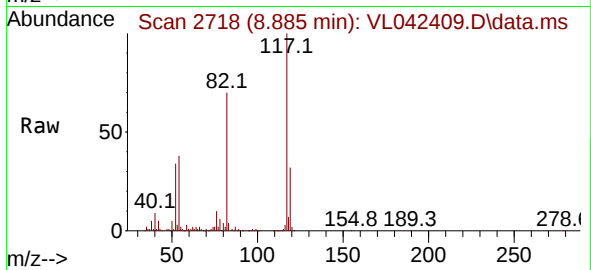
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 117 Resp: 28314
Ion Ratio Lower Upper
117 100
82 72.9 57.8 86.6
119 31.7 25.2 37.8

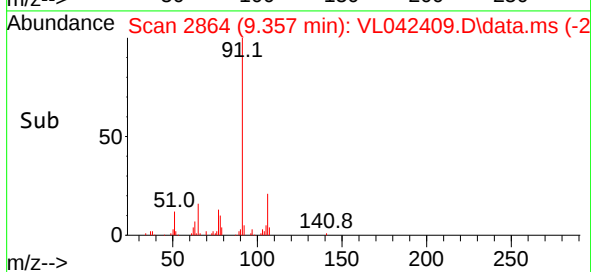
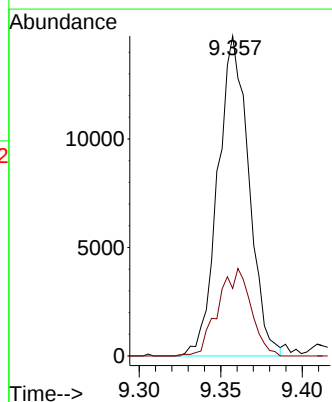
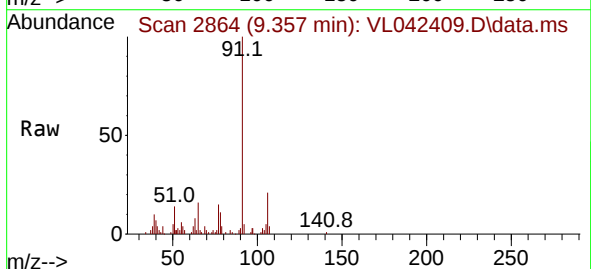
Manual Integrations
APPROVED

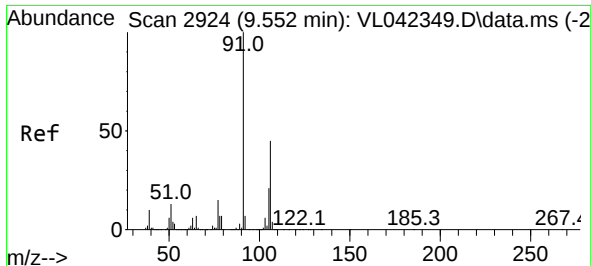
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#58
Ethyl Benzene
Concen: 0.347 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Tgt Ion: 91 Resp: 19485
Ion Ratio Lower Upper
91 100
106 21.1 23.0 34.4#





#59

m/p-Xylene

Concen: 1.170 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042409.D

Acq: 21 Apr 2025 17:23

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 52878

Ion Ratio Lower Upper

91 100

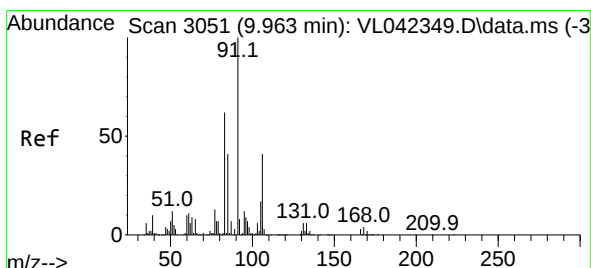
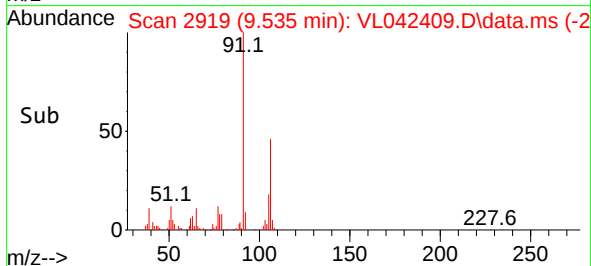
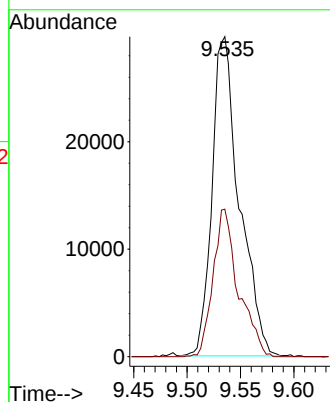
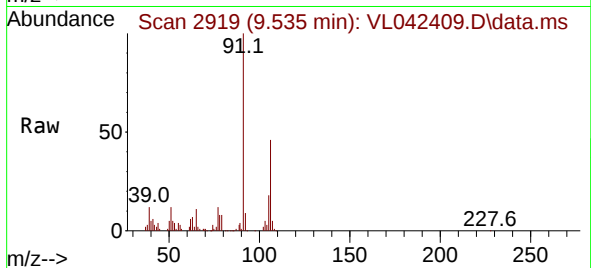
106 42.9 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/22/2025

Supervised By :Mahesh Dadoda 04/22/2025



#60

o-Xylene

Concen: 0.687 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042409.D

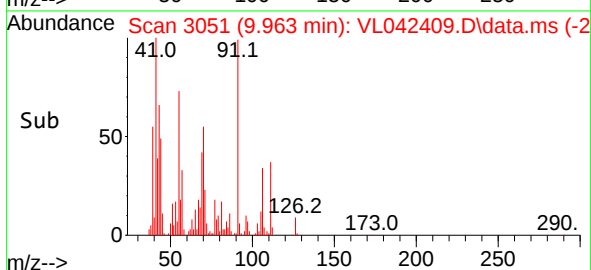
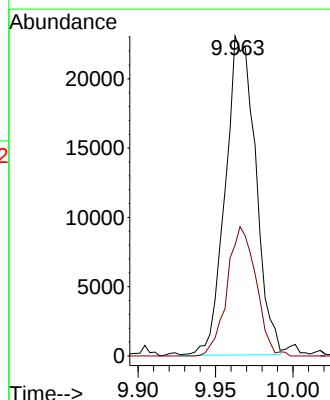
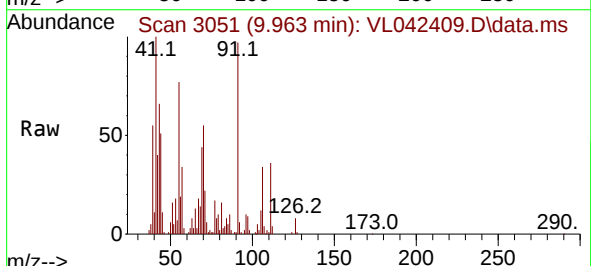
Acq: 21 Apr 2025 17:23

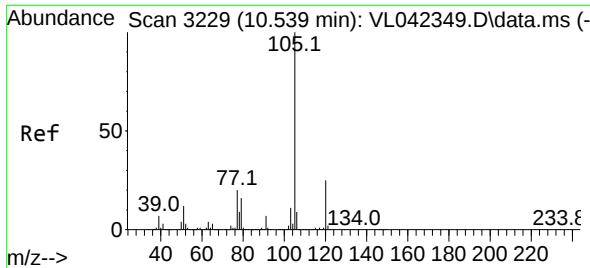
Tgt Ion: 91 Resp: 31285

Ion Ratio Lower Upper

91 100

106 38.8 21.1 63.4





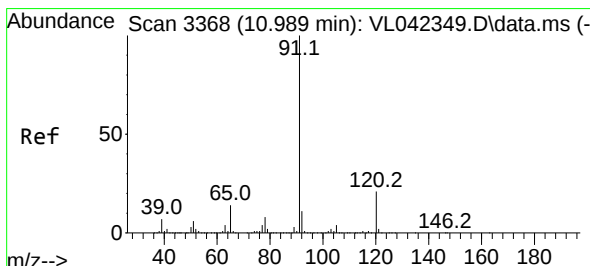
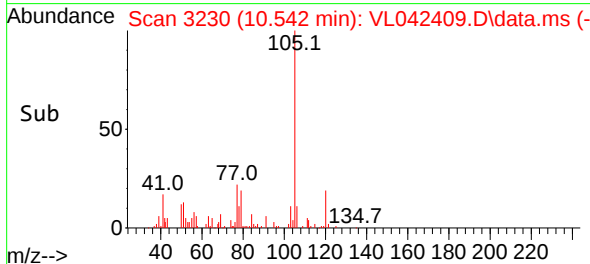
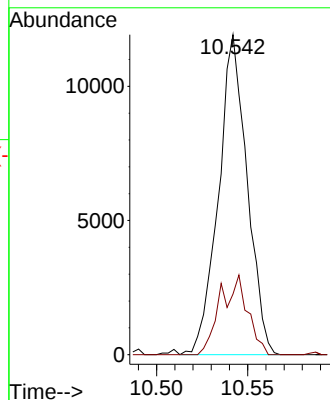
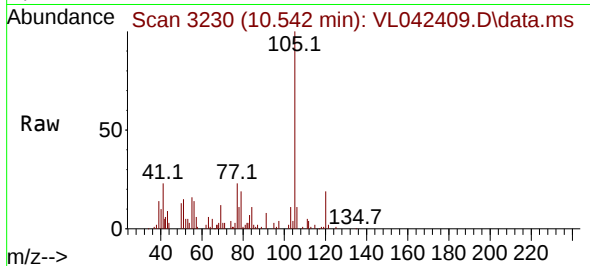
#62
Isopropylbenzene
Concen: 0.195 ppbv
RT: 10.542 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:105 Resp: 13049
Ion Ratio Lower Upper
105 100
120 23.8 19.8 29.8

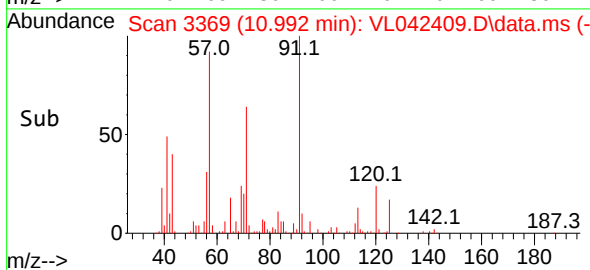
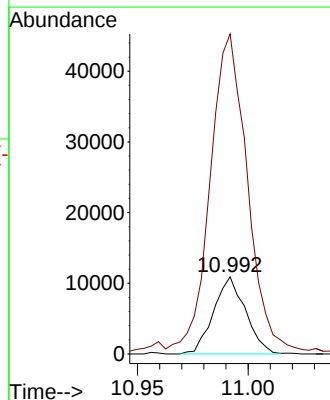
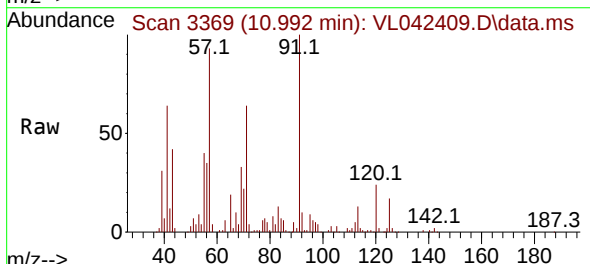
Manual Integrations
APPROVED

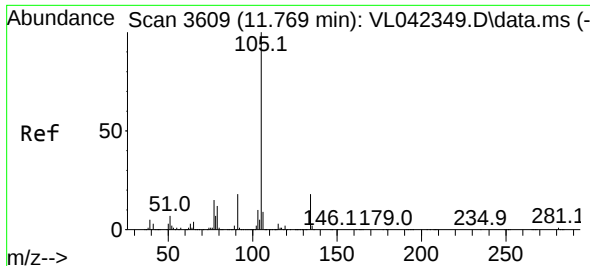
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#64
n-propylbenzene
Concen: 0.653 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

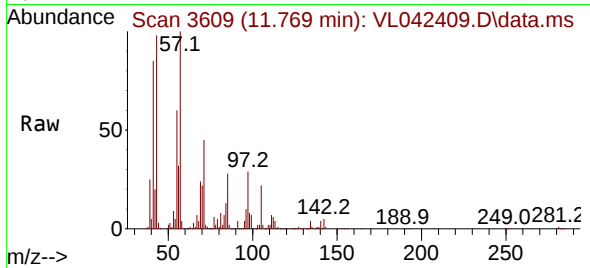
Tgt Ion:120 Resp: 10960
Ion Ratio Lower Upper
120 100
91 494.8 392.4 588.6





#67
 sec-Butylbenzene
 Concen: 0.361 ppbv m
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042409.D
 Acq: 21 Apr 2025 17:23

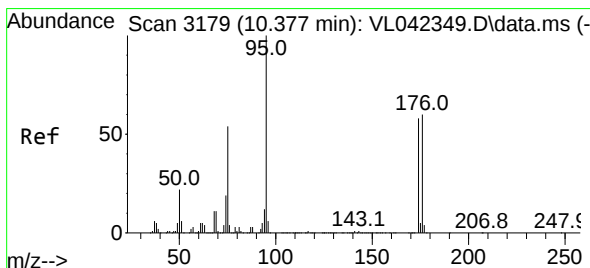
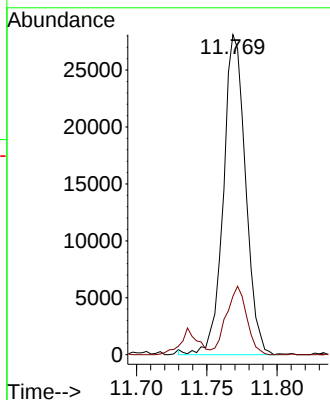
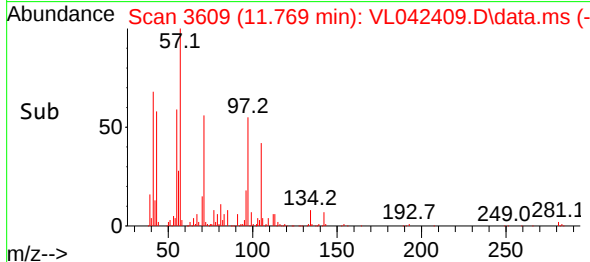
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 105 Resp: 3079
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

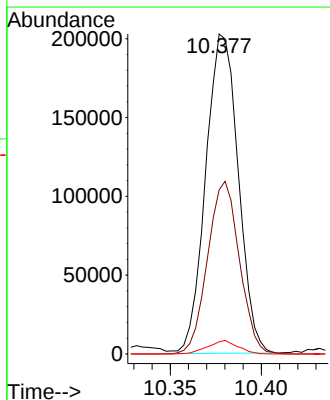
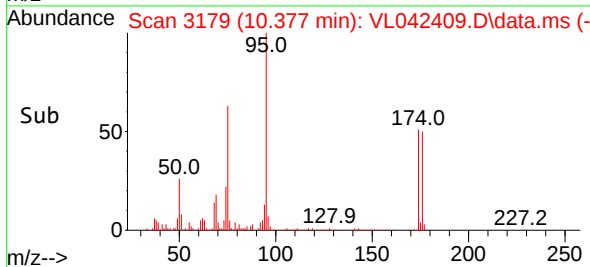
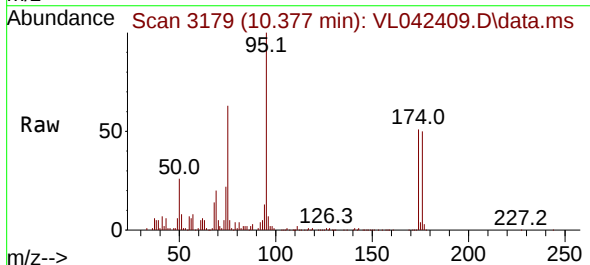
Manual Integrations
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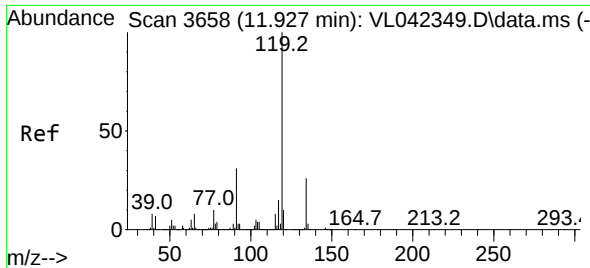
Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.807 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042409.D
 Acq: 21 Apr 2025 17:23

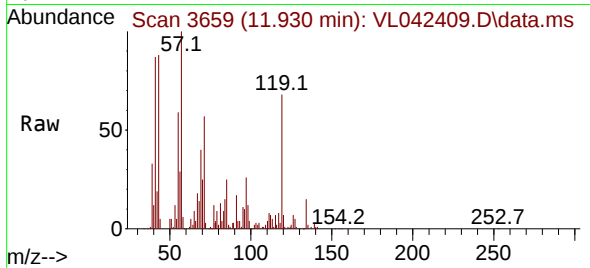
Tgt Ion: 95 Resp: 251438
 Ion Ratio Lower Upper
 95 100
 174 52.8 48.5 72.7
 175 3.9 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.202 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23

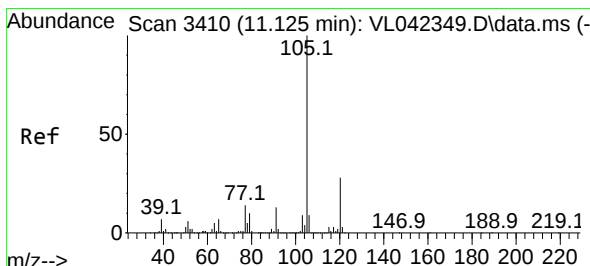
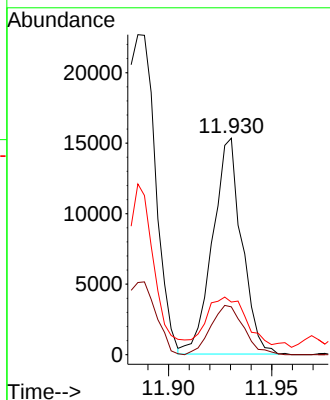
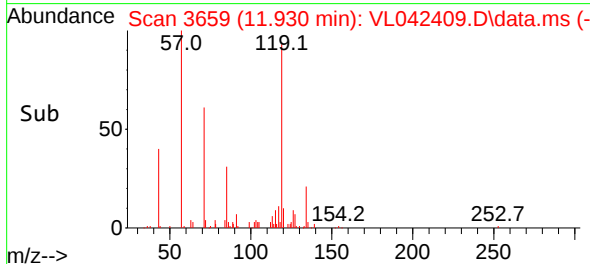
Instrument :
MSVOA_L
ClientSampleId :
SV1



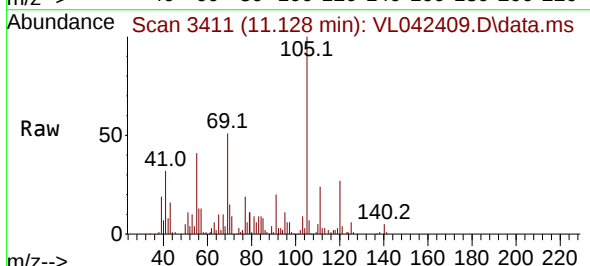
Tgt Ion:119 Resp: 15020
Ion Ratio Lower Upper
119 100
134 25.9 20.0 30.0
91 31.8 24.4 36.6

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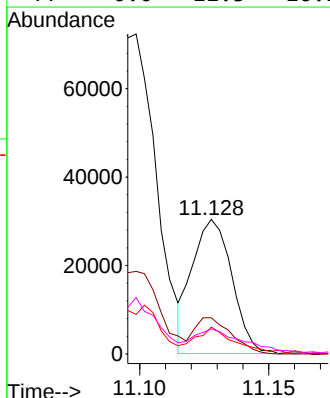
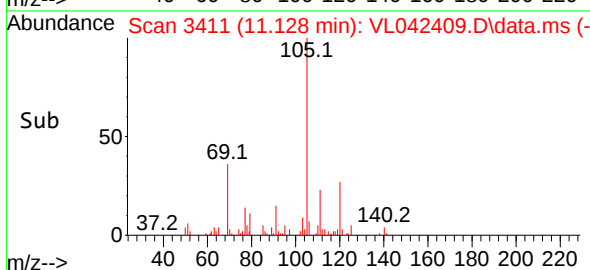
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

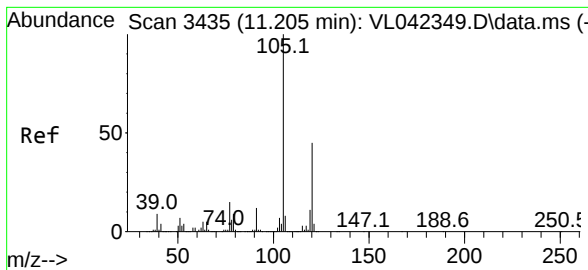


#72
4-Ethyltoluene
Concen: 0.583 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042409.D
Acq: 21 Apr 2025 17:23



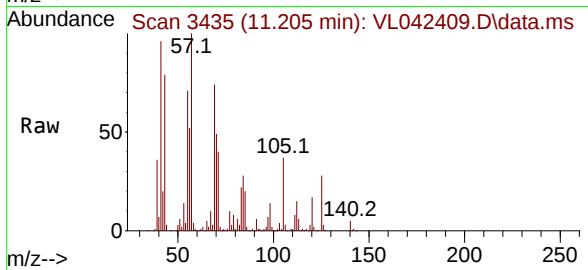
Tgt Ion:105 Resp: 32413
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73
 1,3,5-Trimethylbenzene
 Concen: 0.810 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042409.D
 Acq: 21 Apr 2025 17:23

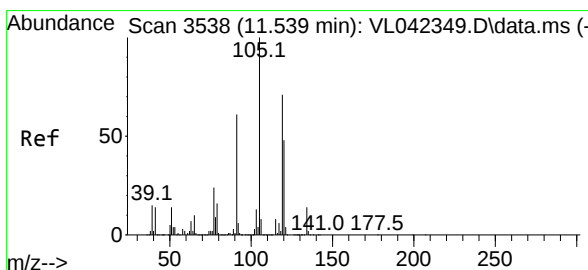
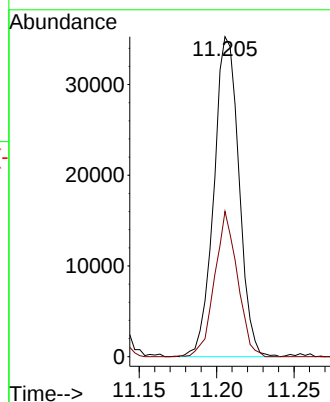
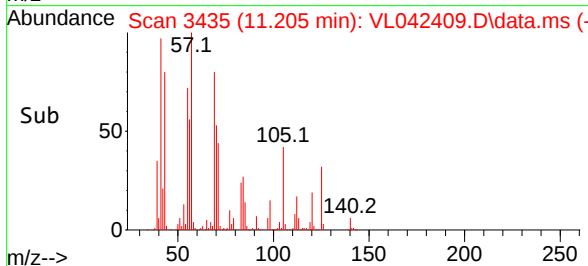
Instrument : MSVOA_L
 ClientSampleId : SV1



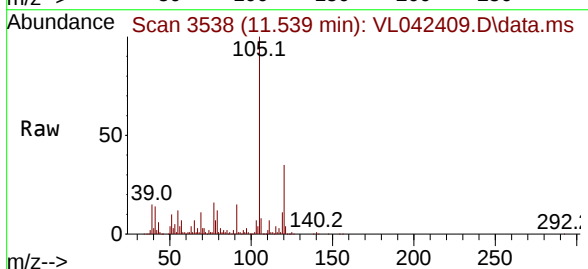
Tgt Ion:105 Resp: 3976
 Ion Ratio Lower Upper
 105 100
 120 45.4 35.6 53.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 1.831 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042409.D
 Acq: 21 Apr 2025 17:23



Tgt Ion:105 Resp: 105063
 Ion Ratio Lower Upper
 105 100
 120 35.3 38.1 57.1#
 91 14.0 48.8 73.2#
 77 14.1 19.0 28.4#

