

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042056.D
 Acq On : 26 Feb 2025 12:14
 Operator : SY/MD
 Sample : Q1430-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:27:52 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	2.793	49	159980	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	375140	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	325039	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257137	10.283	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	7102	0.427	ppbv	92
3) Chlorodifluoromethane	1.479	51	5899m	0.254	ppbv	
4) Chloromethane	1.534	50	2821	0.459	ppbv #	86
9) Propene	1.486	41	68586	7.241	ppbv	96
10) Heptane	4.998	43	14598m	0.495	ppbv	
11) Trichlorofluoromethane	1.884	101	3863	0.232	ppbv #	70
13) Ethanol	1.725	45	95218	158.352	ppbv	92
15) Acetone	1.845	43	86914	6.152	ppbv #	79
19) Isopropyl Alcohol	1.890	45	14014	1.727	ppbv #	21
20) Methylene Chloride	2.065	84	57070	10.679	ppbv	96
26) Hexane	2.832	57	107141	4.686	ppbv #	36
29) Chloroform	2.858	83	7381	0.240	ppbv	92
30) Cyclohexane	3.871	84	5261	0.284	ppbv #	82
34) 2-Butanone	2.570	43	14699	0.503	ppbv	100
35) Carbon Tetrachloride	3.774	117	2059	0.080	ppbv #	75
36) Benzene	3.667	78	168374	4.287	ppbv	96
44) 2,2,4-Trimethylpentane	4.655	57	102302	1.476	ppbv #	90
50) 4-Methyl-2-Pentanone	5.784	43	17881m	0.473	ppbv	
52) Tetrachloroethene	8.241	164	567m	0.042	ppbv	
53) Toluene	6.949	91	289557	6.597	ppbv	98
58) Ethyl Benzene	9.367	91	38485	0.643	ppbv	94
59) m/p-Xylene	9.542	91	122792	2.578	ppbv #	100
60) o-Xylene	9.972	91	37715	0.788	ppbv	97
61) Styrene	9.878	104	4760	0.211	ppbv	92
72) 4-Ethyltoluene	11.134	105	9913	0.170	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	7643	0.151	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	24703	0.433	ppbv #	68
79) Naphthalene	13.523	128	4612	0.118	ppbv #	89

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

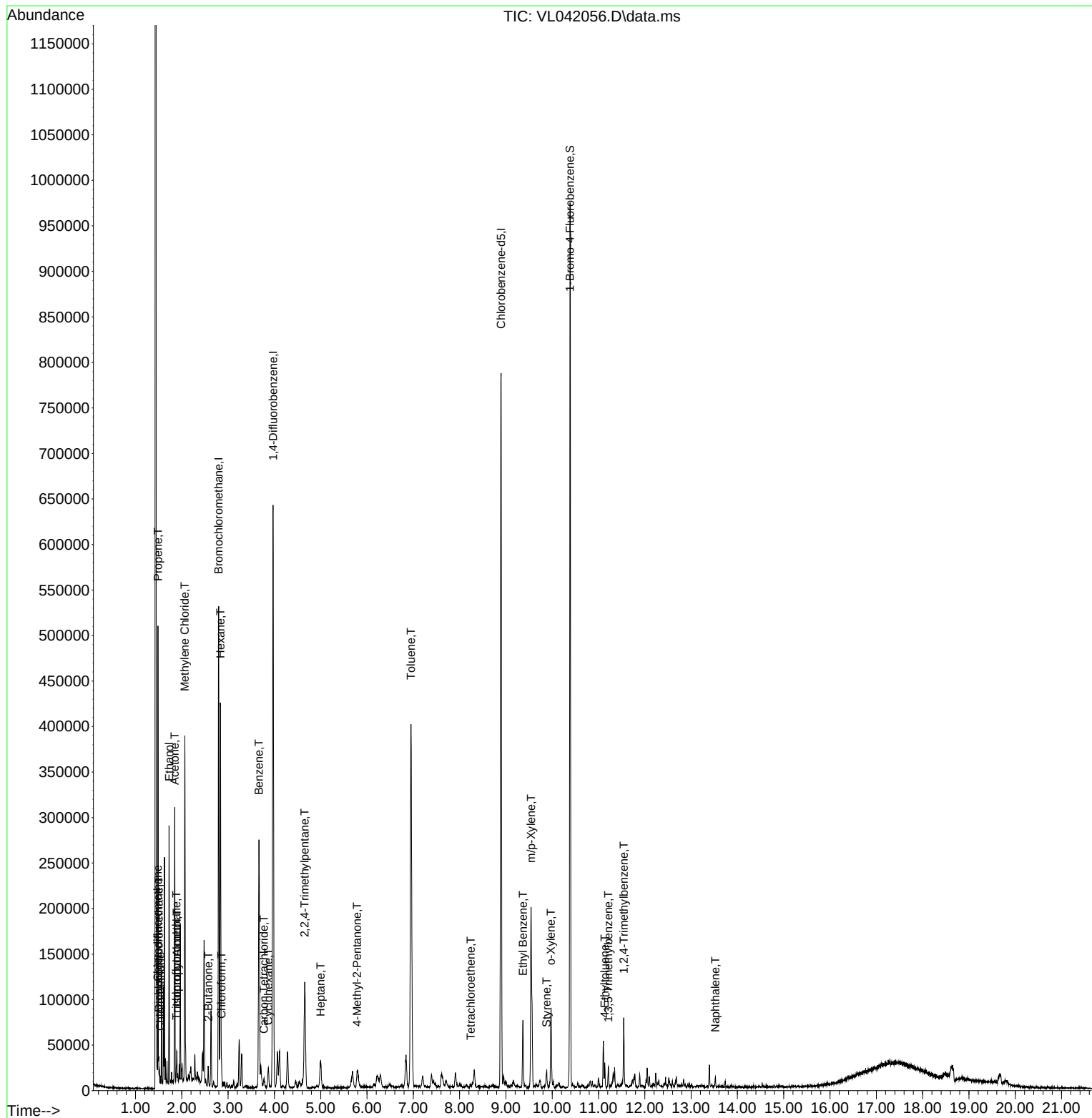
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042056.D
Acq On : 26 Feb 2025 12:14
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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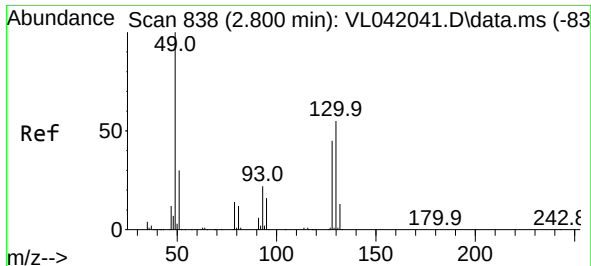
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Feb 27 00:27:52 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

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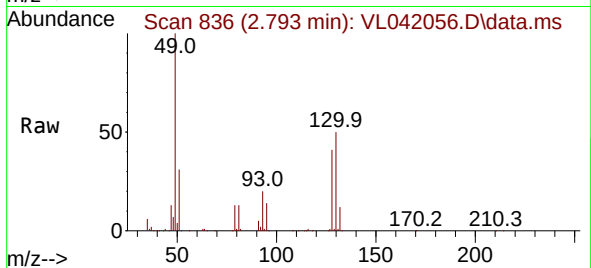
Reviewed By : Semsettin Yesilyurt 02/27/2025
Supervised By : Mahesh Dadoda 02/27/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 838
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

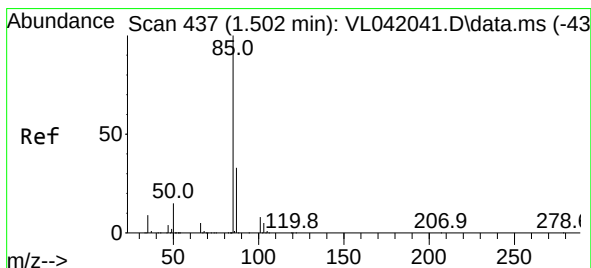
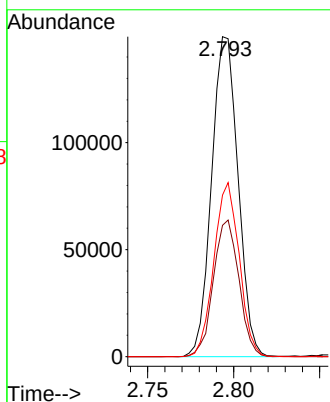
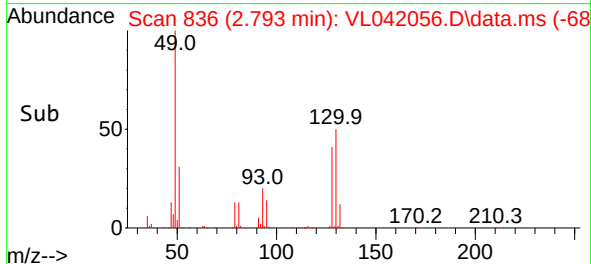
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 159980
Ion Ratio Lower Upper
49 100
128 41.3 21.6 64.8
130 52.1 27.8 83.4

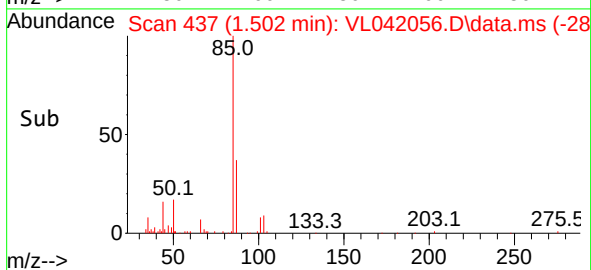
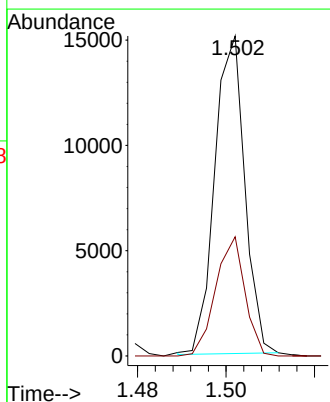
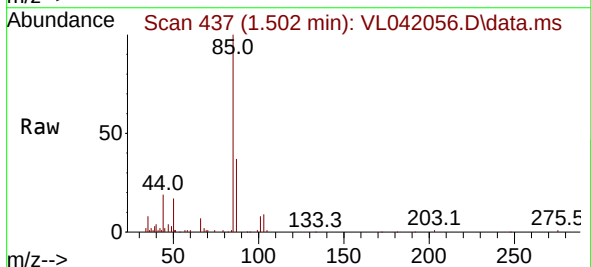
Manual Integrations
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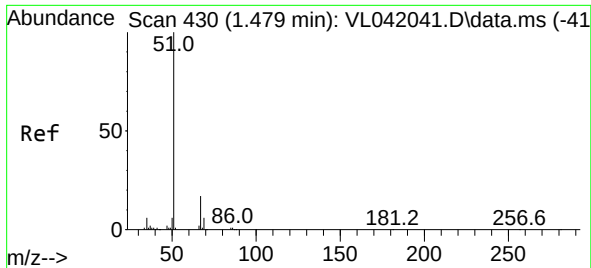
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 0.427 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

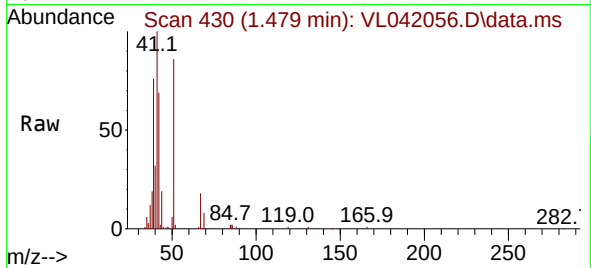
Tgt Ion: 85 Resp: 7102
Ion Ratio Lower Upper
85 100
87 37.6 26.4 39.6





#3
Chlorodifluoromethane
Concen: 0.254 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

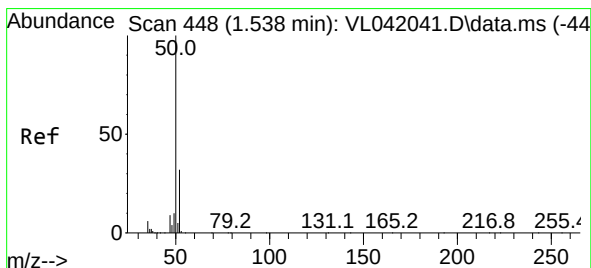
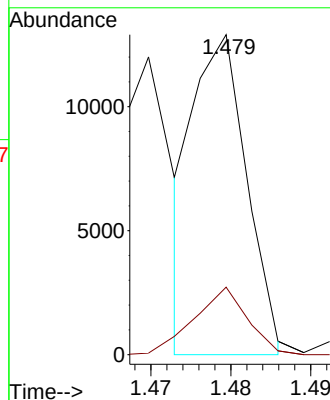
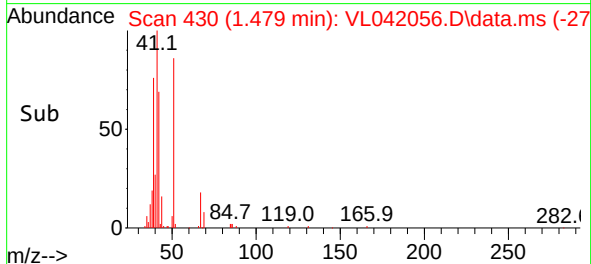
Instrument :
MSVOA_L
ClientSampleId :
IA1



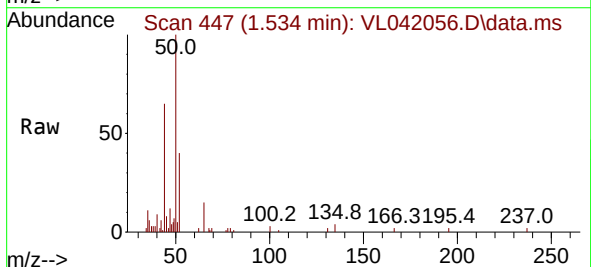
Tgt Ion: 51 Resp: 589
Ion Ratio Lower Upper
51 100
67 21.7 13.7 20.5

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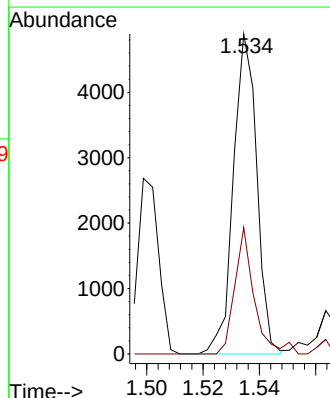
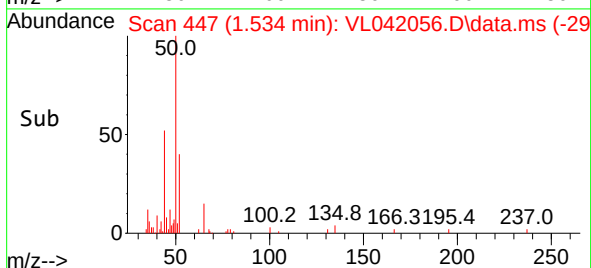
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

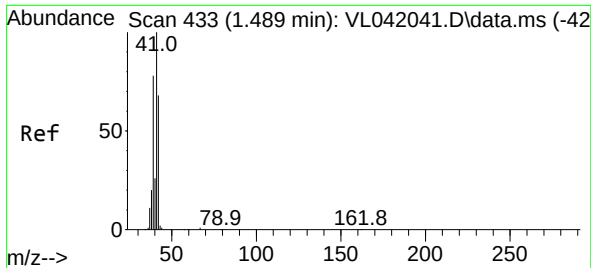


#4
Chloromethane
Concen: 0.459 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 50 Resp: 2821
Ion Ratio Lower Upper
50 100
52 39.5 25.4 38.0





#9

Propene

Concen: 7.241 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 68580

Ion Ratio Lower Upper

41 100

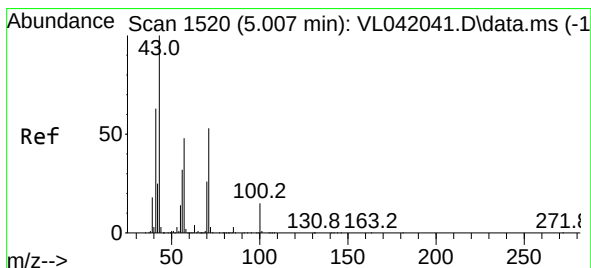
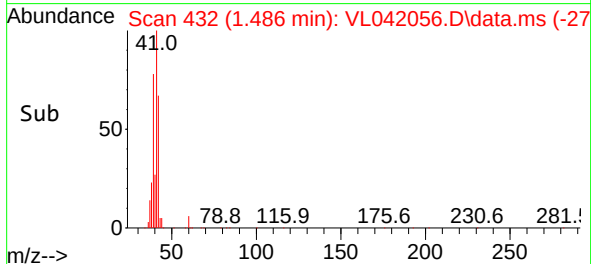
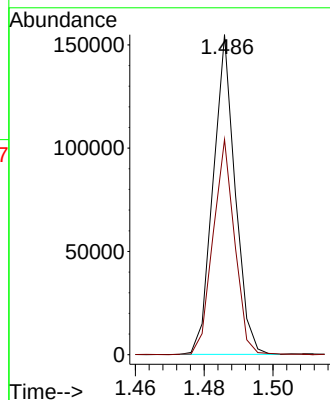
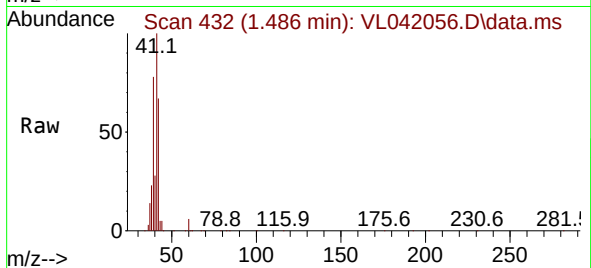
42 66.4 55.8 83.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#10

Heptane

Concen: 0.495 ppbv m

RT: 4.998 min Scan# 1517

Delta R.T. -0.010 min

Lab File: VL042056.D

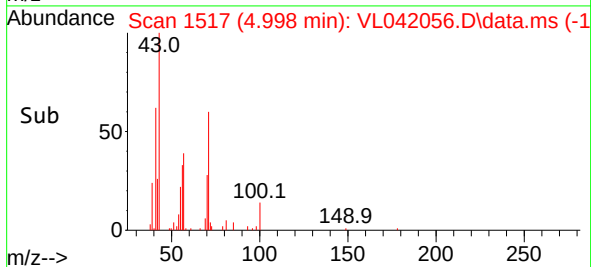
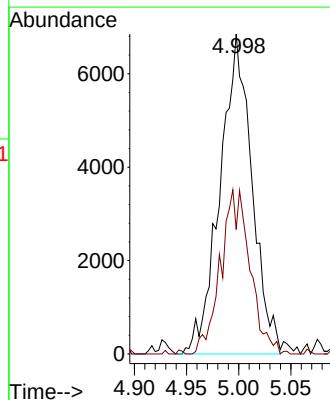
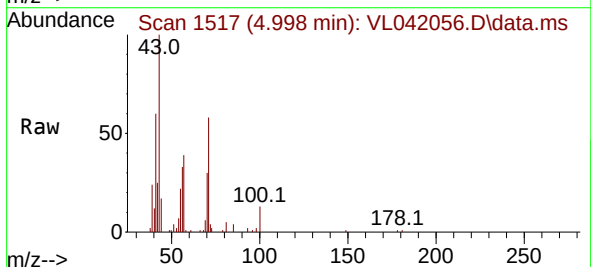
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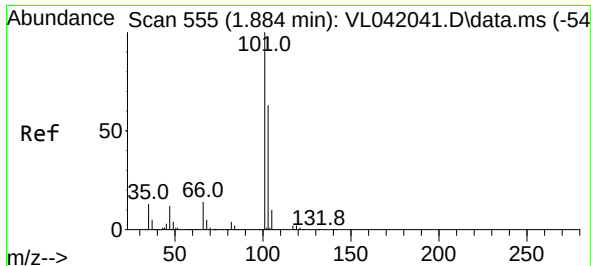
Tgt Ion: 43 Resp: 14598

Ion Ratio Lower Upper

43 100

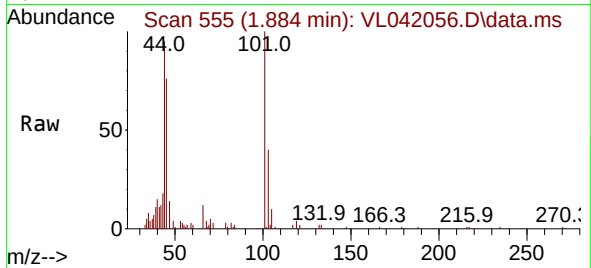
57 47.5 39.4 59.0





#11
Trichlorofluoromethane
Concen: 0.232 ppbv
RT: 1.884 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

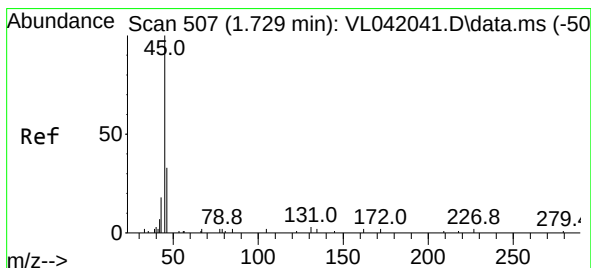
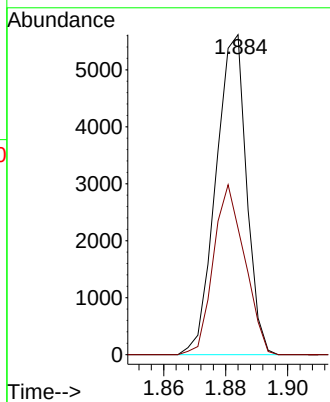
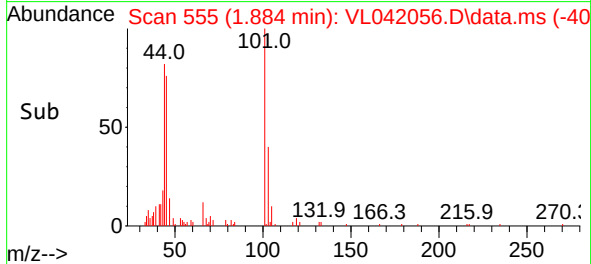
Instrument :
MSVOA_L
ClientSampleId :
IA1



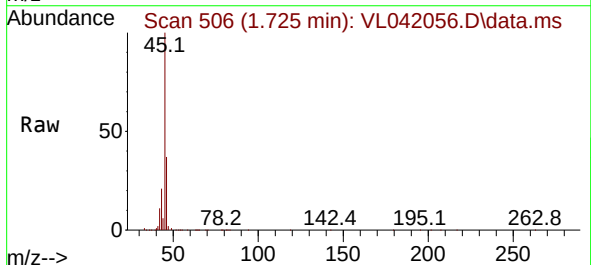
Tgt Ion:101 Resp: 386
Ion Ratio Lower Upper
101 100
103 39.5 50.6 75.8

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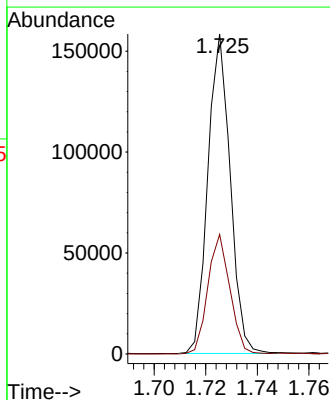
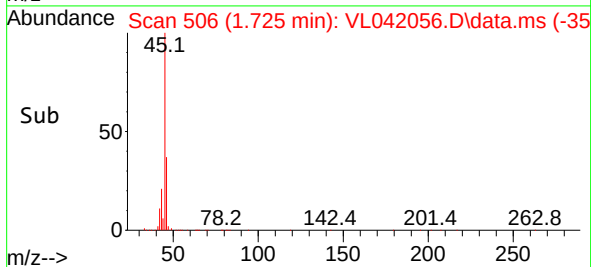
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

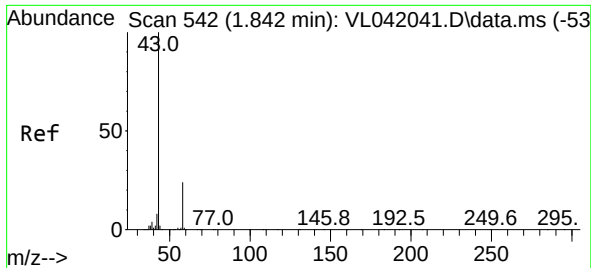


#13
Ethanol
Concen: 158.352 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



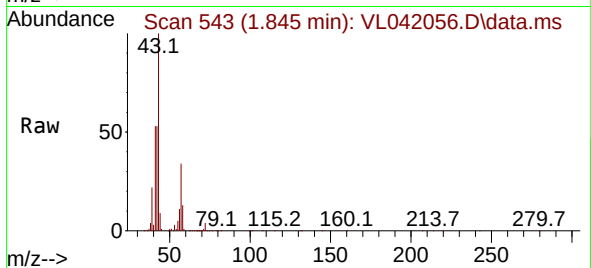
Tgt Ion: 45 Resp: 95218
Ion Ratio Lower Upper
45 100
46 37.4 17.1 68.3





#15
Acetone
Concen: 6.152 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

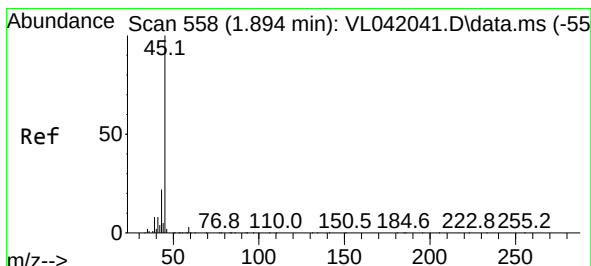
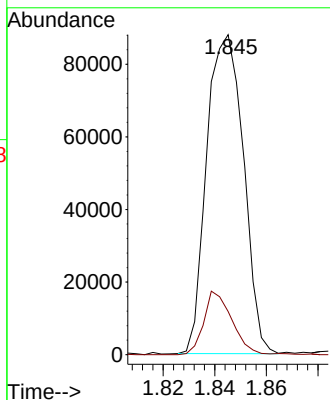
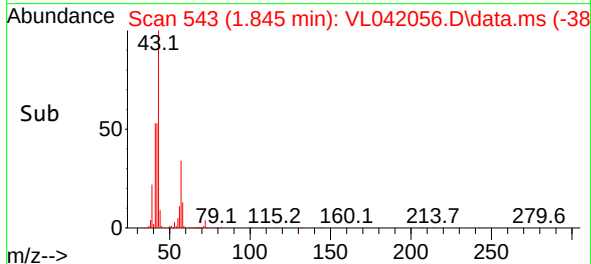
Instrument :
MSVOA_L
ClientSampleId :
IA1



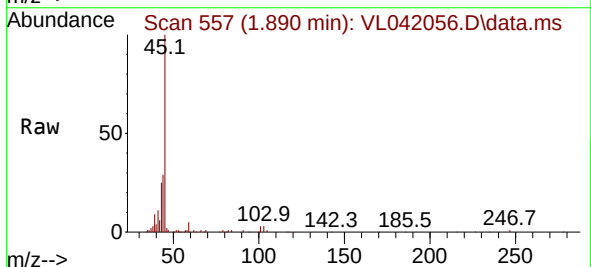
Tgt Ion: 43 Resp: 86914
Ion Ratio Lower Upper
43 100
58 15.4 20.7 31.1

Manual Integrations
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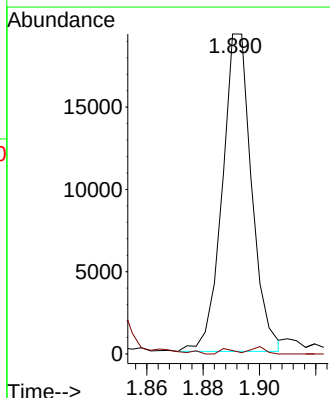
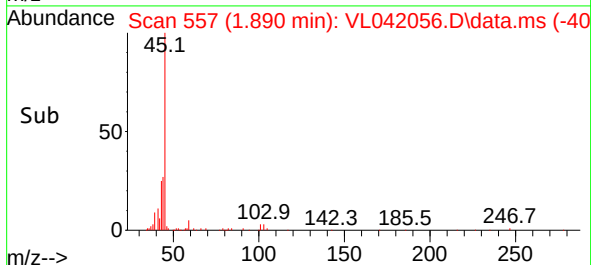
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

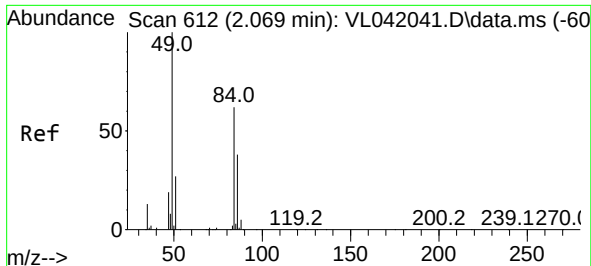


#19
Isopropyl Alcohol
Concen: 1.727 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



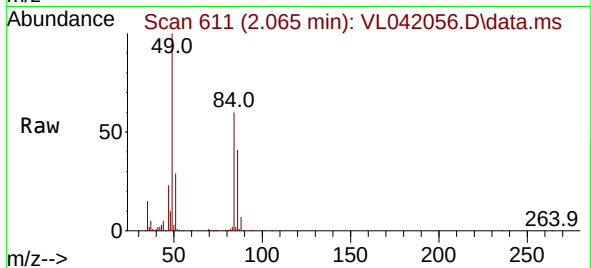
Tgt Ion: 45 Resp: 14014
Ion Ratio Lower Upper
45 100
58 95.4 35.3 52.9





#20
Methylene Chloride
Concen: 10.679 ppbv
RT: 2.065 min Scan# 612
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

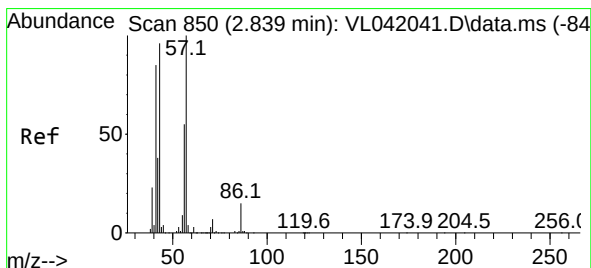
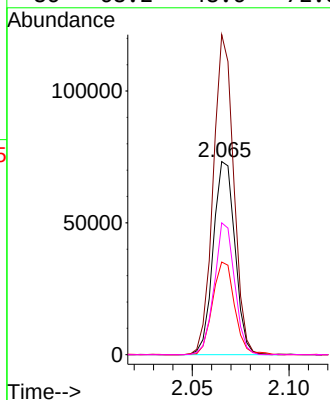
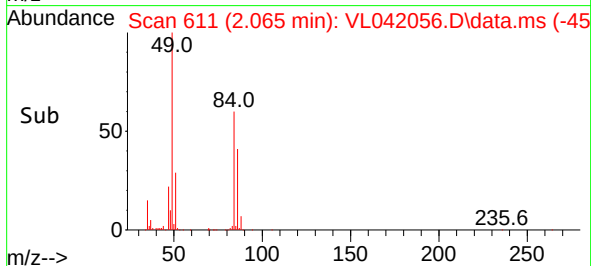
Instrument :
MSVOA_L
ClientSampleId :
IA1



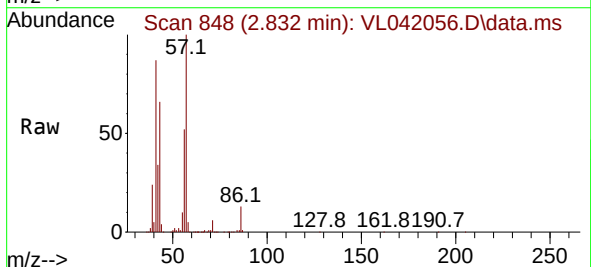
Tgt Ion: 84 Resp: 57070
Ion Ratio Lower Upper
84 100
49 165.7 130.0 195.0
51 48.0 37.4 56.0
86 68.2 48.6 72.8

Manual Integrations
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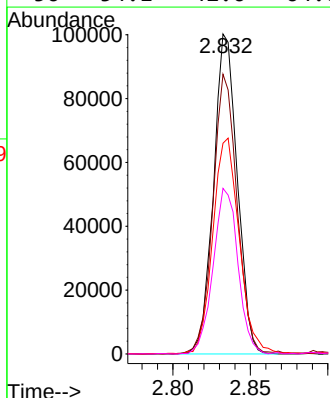
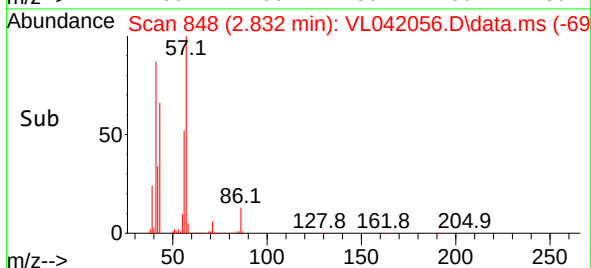
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

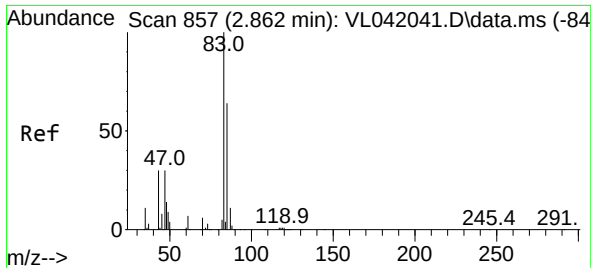


#26
Hexane
Concen: 4.686 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 57 Resp: 107141
Ion Ratio Lower Upper
57 100
41 89.2 70.6 106.0
43 75.9 199.4 299.0#
56 54.1 42.6 64.0





#29

Chloroform

Concen: 0.240 ppbv

RT: 2.858 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 738

Ion Ratio Lower Upper

83 100

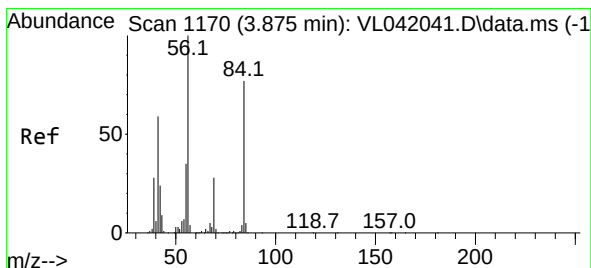
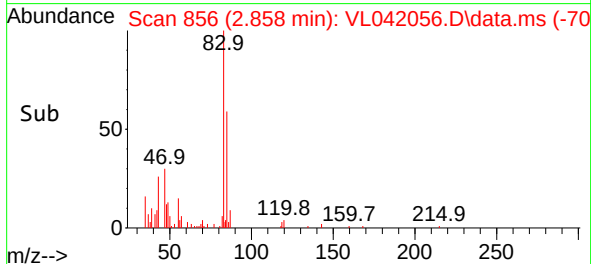
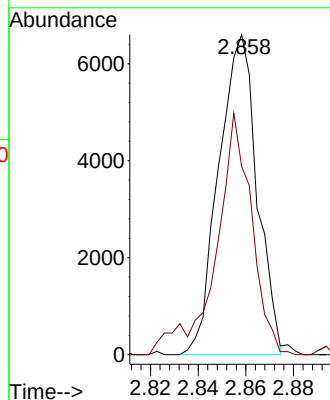
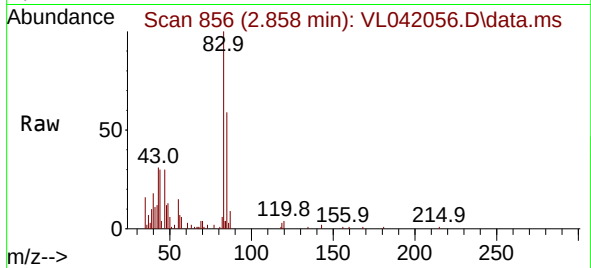
85 57.9 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#30

Cyclohexane

Concen: 0.284 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

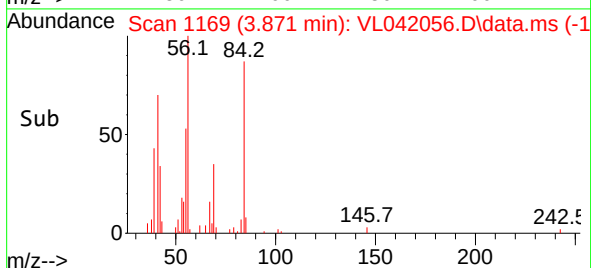
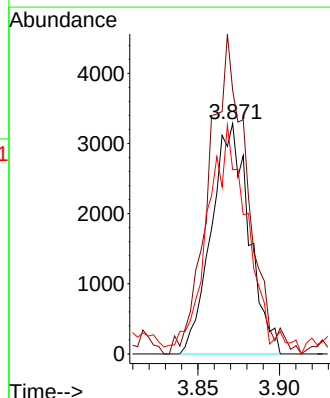
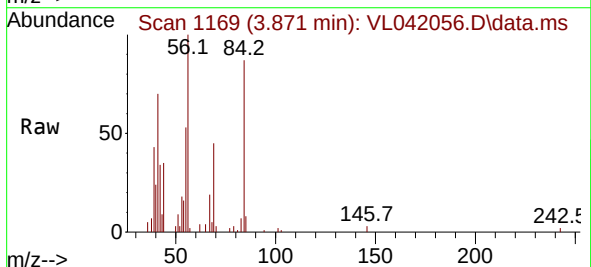
Tgt Ion: 84 Resp: 5261

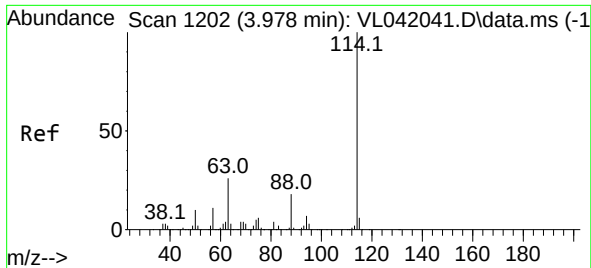
Ion Ratio Lower Upper

84 100

56 135.4 101.5 152.3

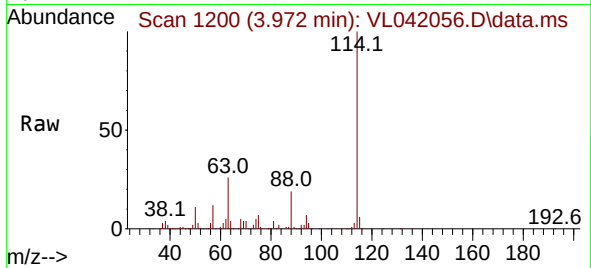
41 110.1 62.6 93.8#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 114
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

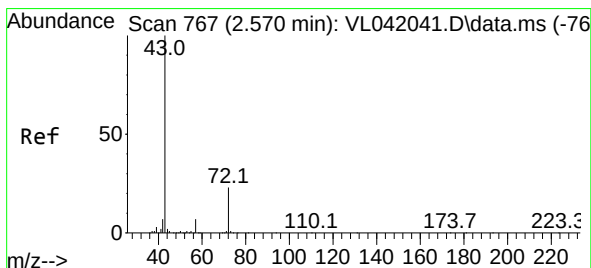
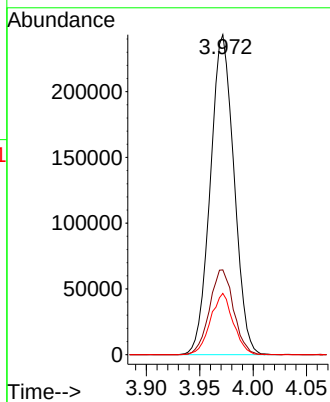
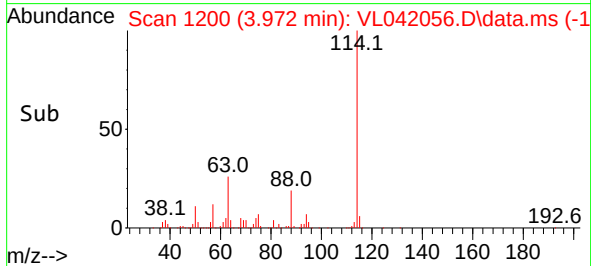
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:114 Resp: 375140
Ion Ratio Lower Upper
114 100
63 26.9 20.1 30.1
88 18.5 14.3 21.5

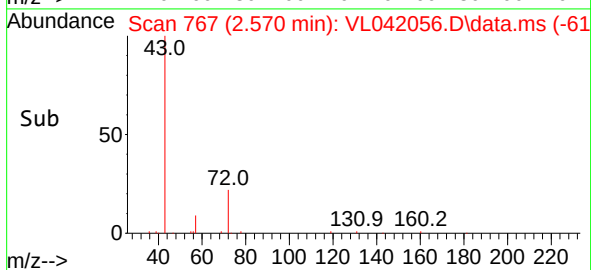
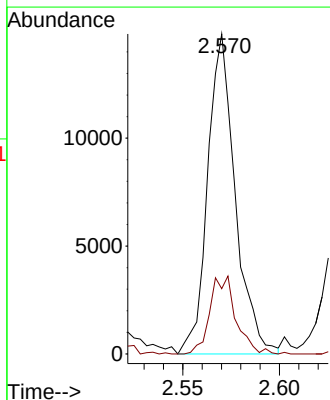
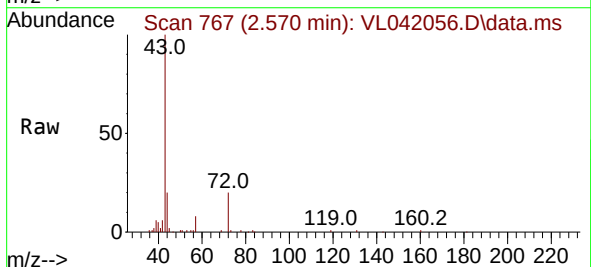
Manual Integrations
APPROVED

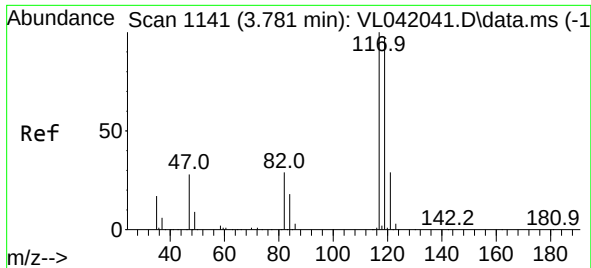
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#34
2-Butanone
Concen: 0.503 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

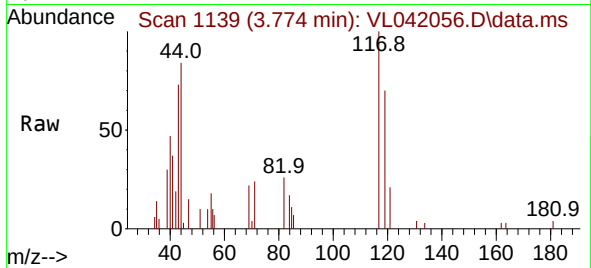
Tgt Ion: 43 Resp: 14699
Ion Ratio Lower Upper
43 100
72 22.9 18.5 27.7





#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

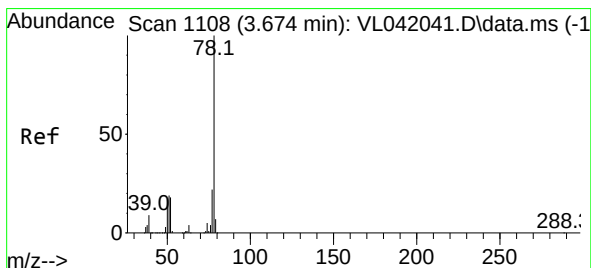
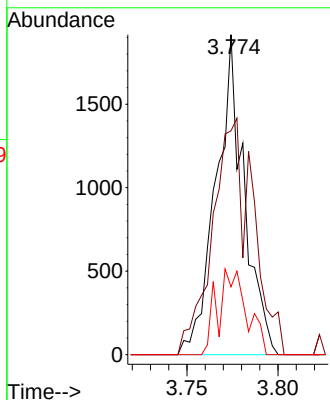
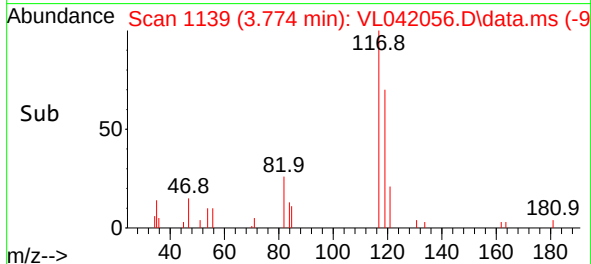
Instrument :
MSVOA_L
ClientSampleId :
IA1



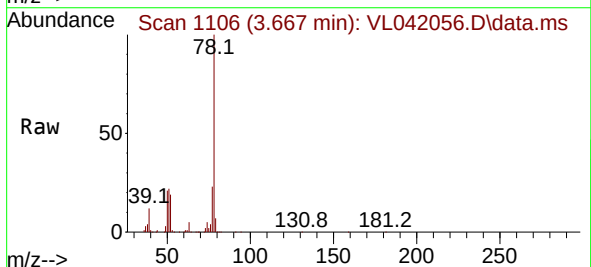
Tgt Ion:117 Resp: 2059
Ion Ratio Lower Upper
117 100
119 70.0 77.8 116.8
121 21.2 23.4 35.0

Manual Integrations
APPROVED

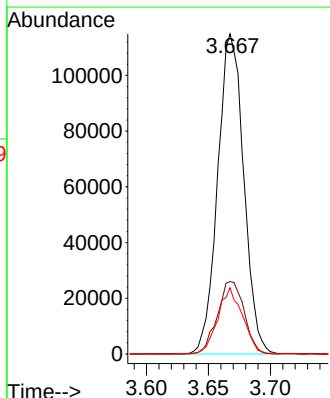
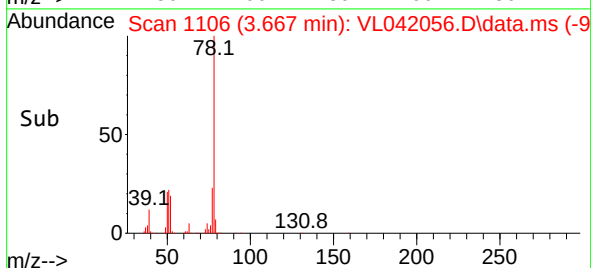
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

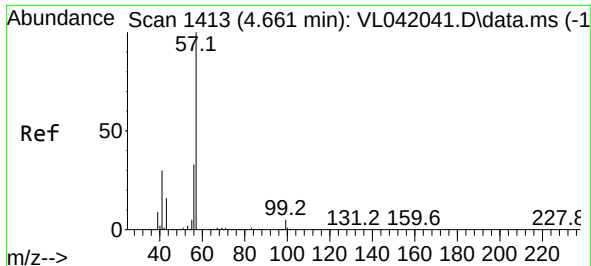


#36
Benzene
Concen: 4.287 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



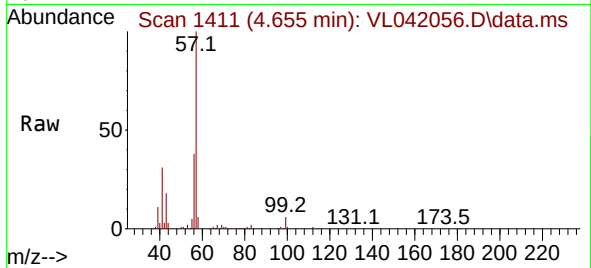
Tgt Ion: 78 Resp: 168374
Ion Ratio Lower Upper
78 100
77 22.6 17.7 26.5
50 20.6 13.9 20.9





#44
2,2,4-Trimethylpentane
Concen: 1.476 ppbv
RT: 4.655 min Scan# 1413
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

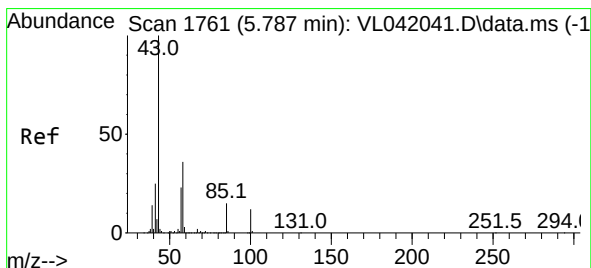
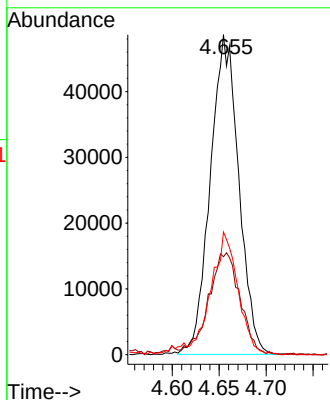
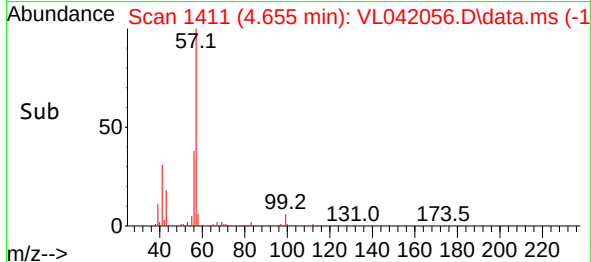
Instrument :
MSVOA_L
ClientSampleId :
IA1



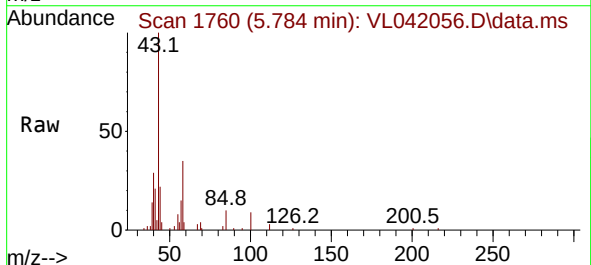
Tgt Ion: 57 Resp: 102302
Ion Ratio Lower Upper
57 100
41 36.8 24.4 36.6
56 38.2 26.5 39.7

Manual Integrations
APPROVED

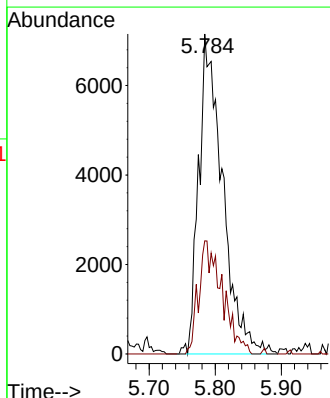
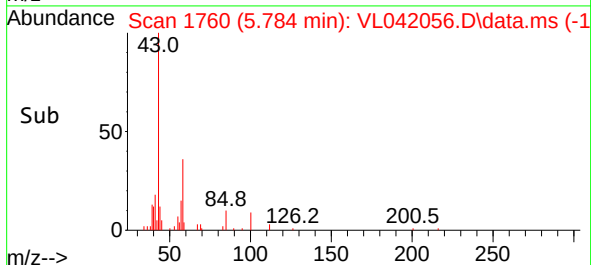
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

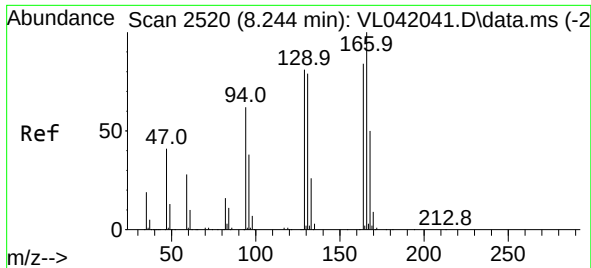


#50
4-Methyl-2-Pentanone
Concen: 0.473 ppbv m
RT: 5.784 min Scan# 1760
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 43 Resp: 17881
Ion Ratio Lower Upper
43 100
58 35.0 29.3 43.9





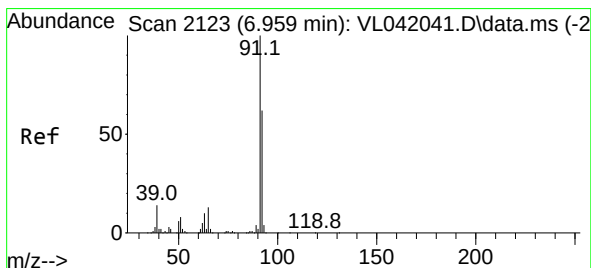
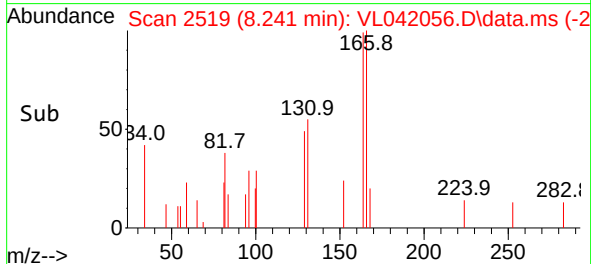
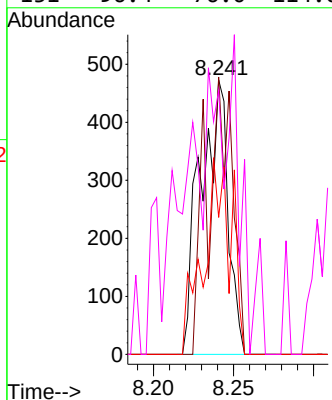
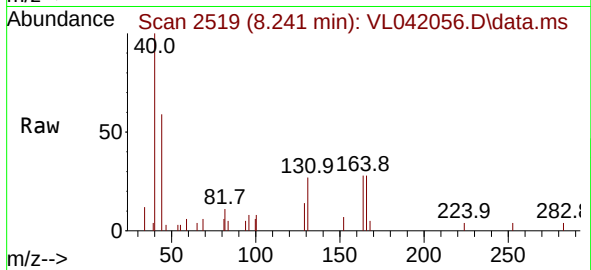
#52
Tetrachloroethene
Concen: 0.042 ppbv m
RT: 8.241 min Scan# 2120
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:164 Resp: 56
Ion Ratio Lower Upper
164 100
166 101.1 95.7 143.5
129 49.9 77.1 115.7
131 96.4 76.0 114.0

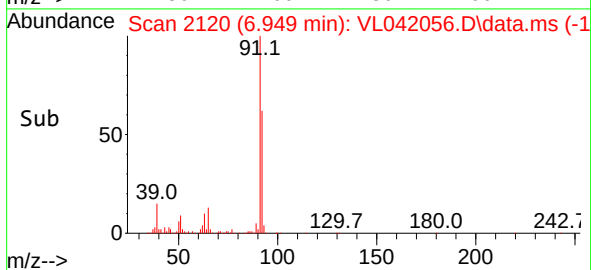
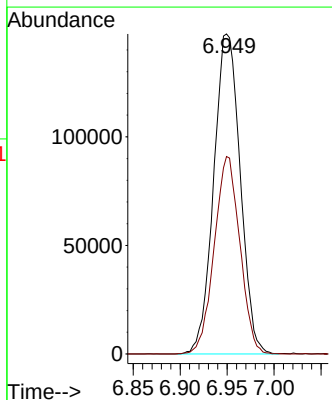
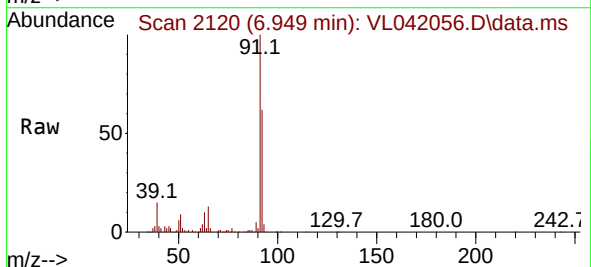
Manual Integrations
APPROVED

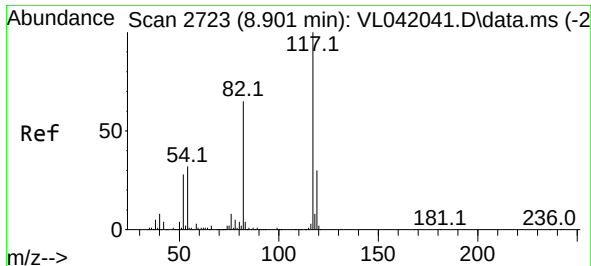
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#53
Toluene
Concen: 6.597 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

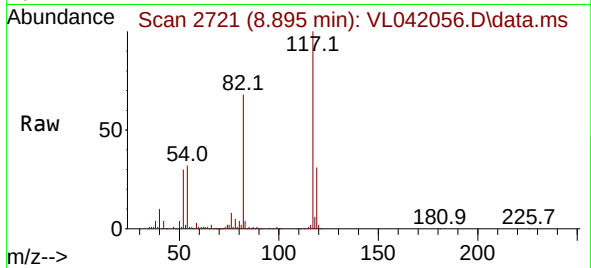
Tgt Ion: 91 Resp: 289557
Ion Ratio Lower Upper
91 100
92 59.6 49.0 73.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

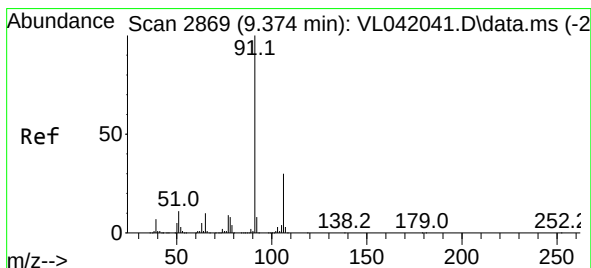
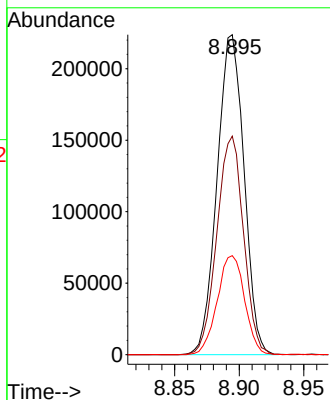
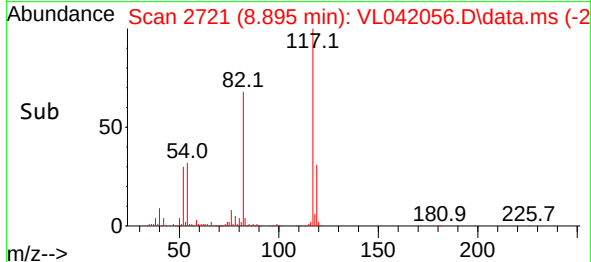
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 325039
Ion Ratio Lower Upper
117 100
82 67.6 55.0 82.6
119 31.5 25.9 38.9

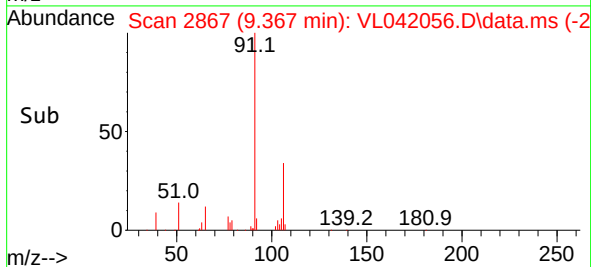
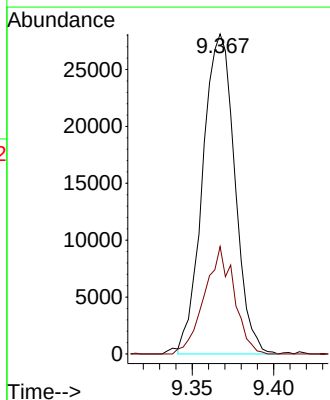
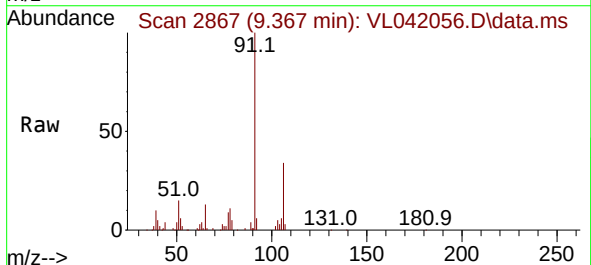
Manual Integrations
APPROVED

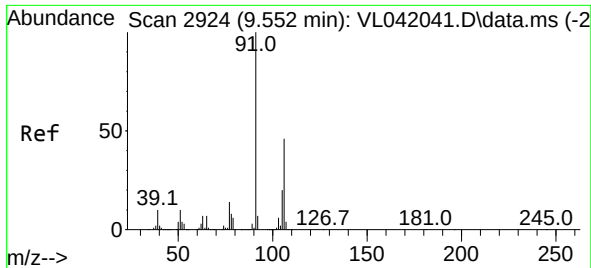
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#58
Ethyl Benzene
Concen: 0.643 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

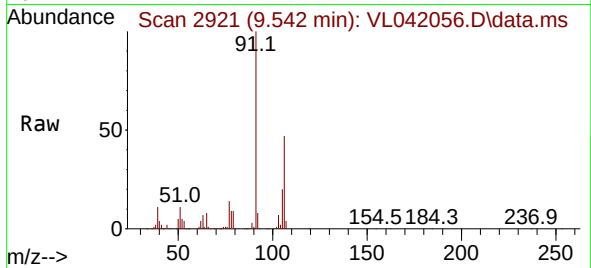
Tgt Ion: 91 Resp: 38485
Ion Ratio Lower Upper
91 100
106 33.6 24.2 36.2





#59
m/p-Xylene
Concen: 2.578 ppbv
RT: 9.542 min Scan# 2924
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

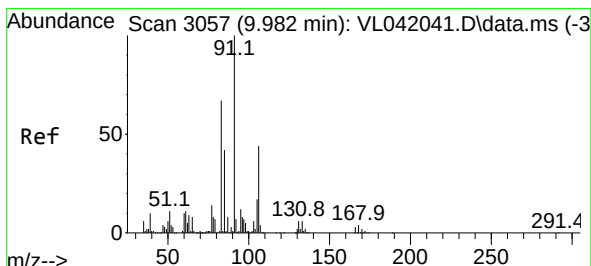
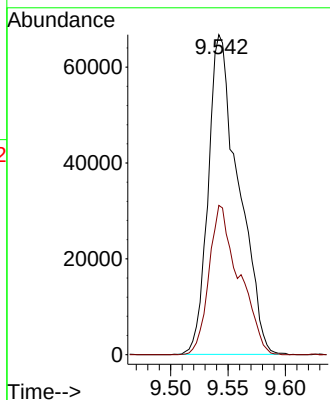
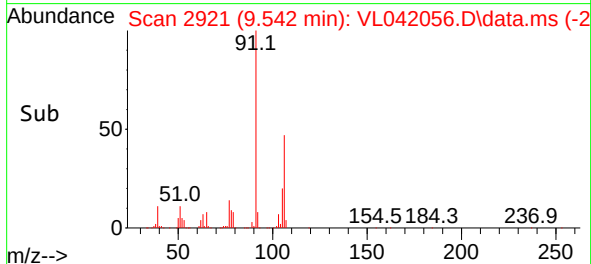
Instrument :
MSVOA_L
ClientSampleId :
IA1



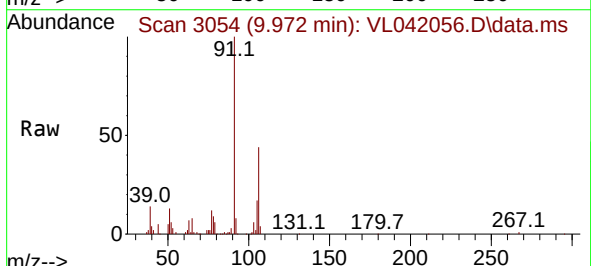
Tgt Ion: 91 Resp: 122792
Ion Ratio Lower Upper
91 100
106 46.4 0.0 0.0

Manual Integrations
APPROVED

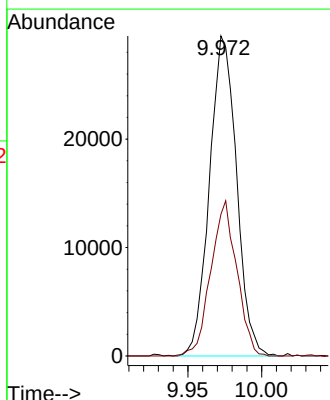
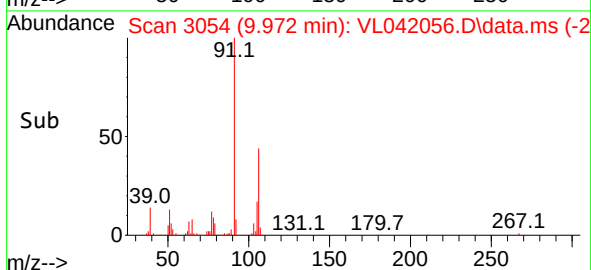
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

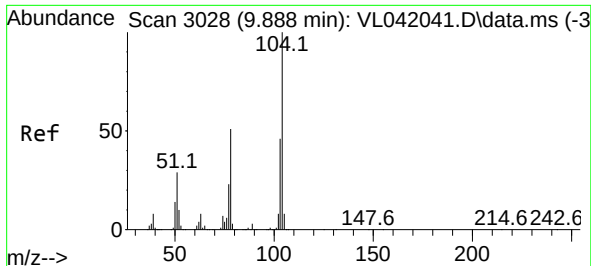


#60
o-Xylene
Concen: 0.788 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 91 Resp: 37715
Ion Ratio Lower Upper
91 100
106 46.4 22.3 66.8





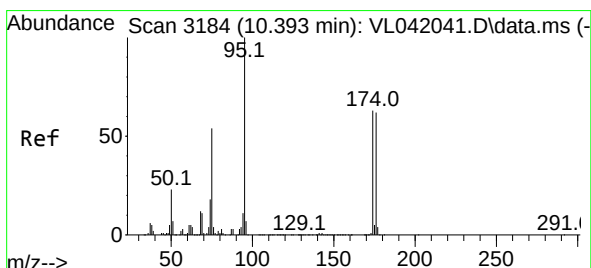
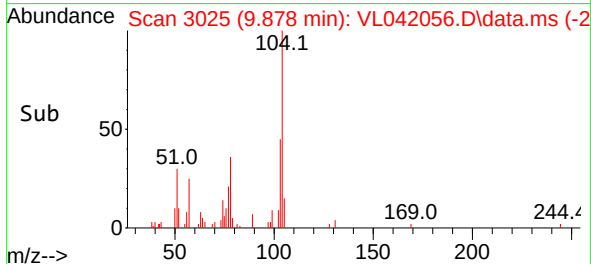
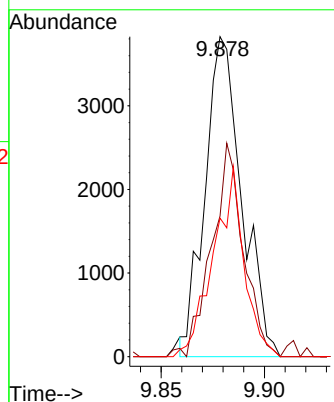
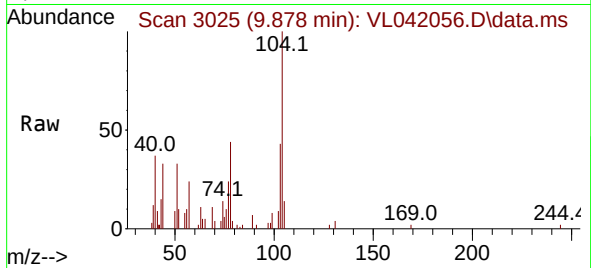
#61
Styrene
Concen: 0.211 ppbv
RT: 9.878 min Scan# 3028
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:104 Resp: 4760
Ion Ratio Lower Upper
104 100
78 59.6 41.0 61.4
103 49.1 37.0 55.6

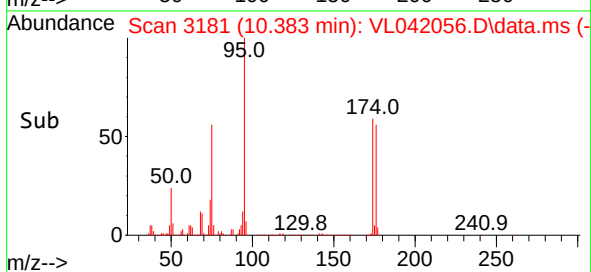
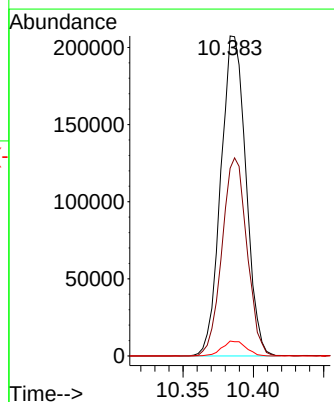
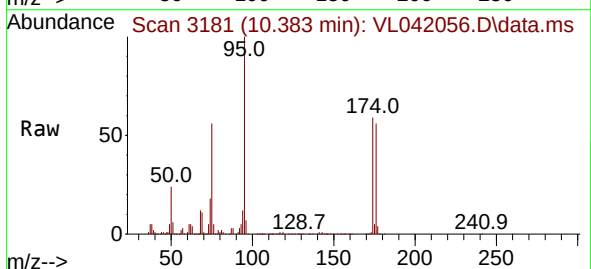
Manual Integrations
APPROVED

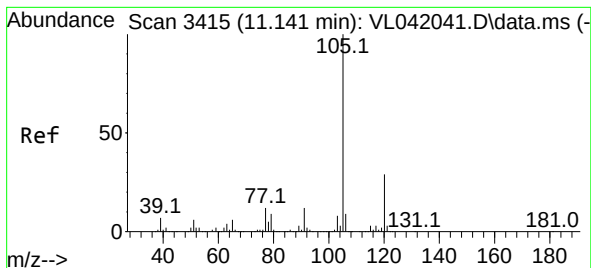
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.283 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

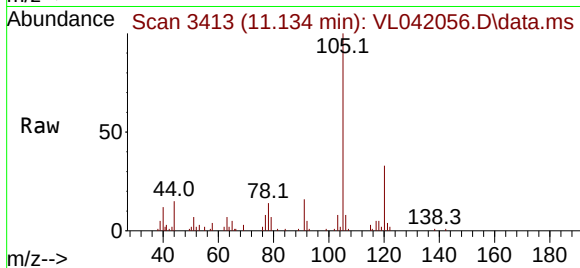
Tgt Ion: 95 Resp: 257137
Ion Ratio Lower Upper
95 100
174 61.6 51.8 77.6
175 4.5 3.9 5.9





#72
4-Ethyltoluene
Concen: 0.170 ppbv
RT: 11.134 min Scan# 3415
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

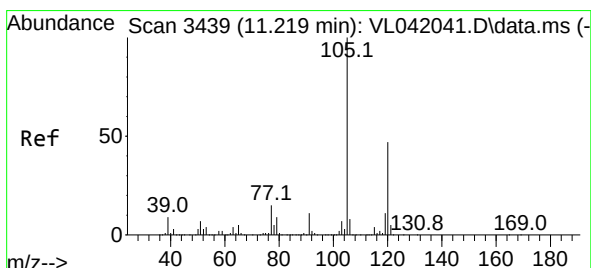
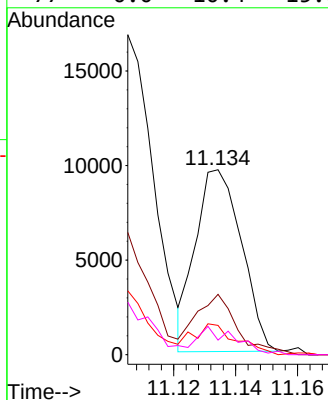
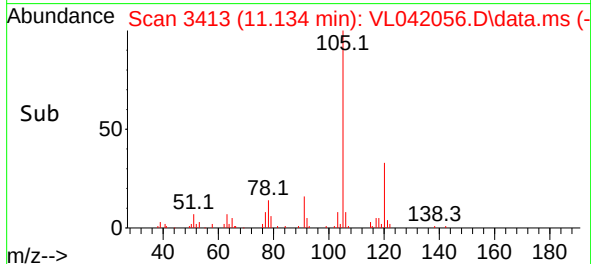
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:105 Resp: 991
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1
91 0.0 10.2 15.4
77 0.0 10.4 15.6#

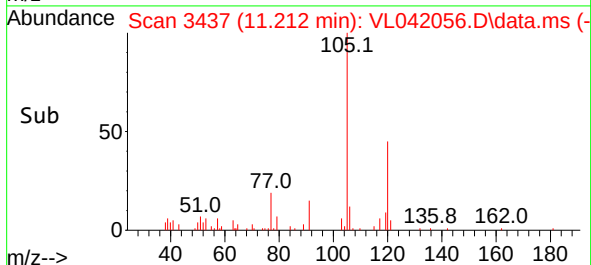
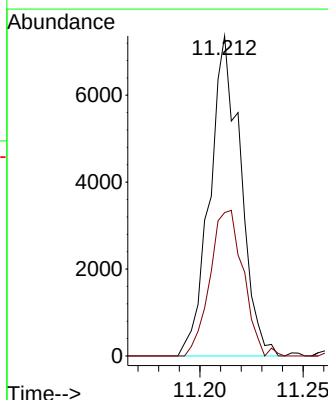
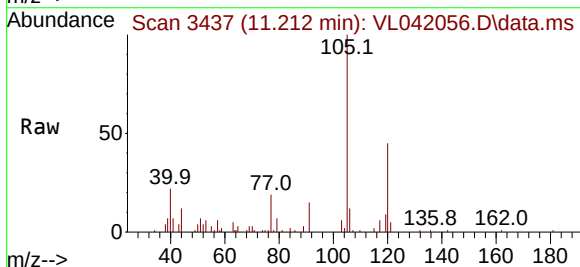
Manual Integrations
APPROVED

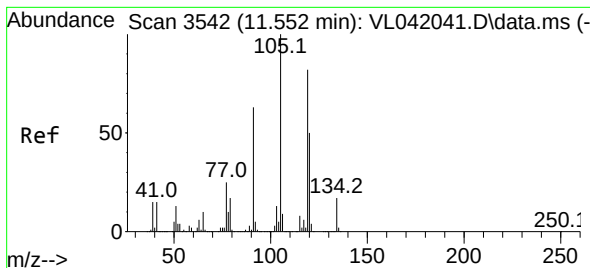
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.151 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Tgt Ion:105 Resp: 7643
Ion Ratio Lower Upper
105 100
120 44.8 37.4 56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.433 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. -0.007 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

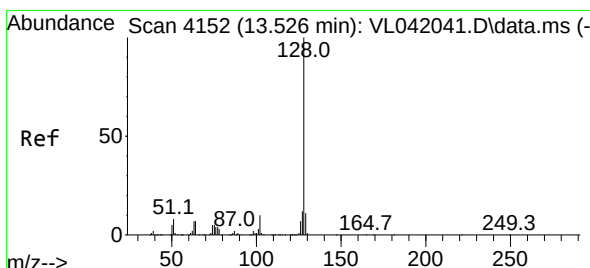
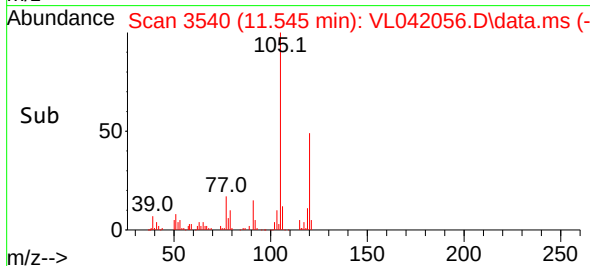
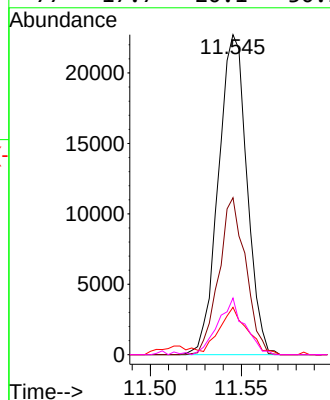
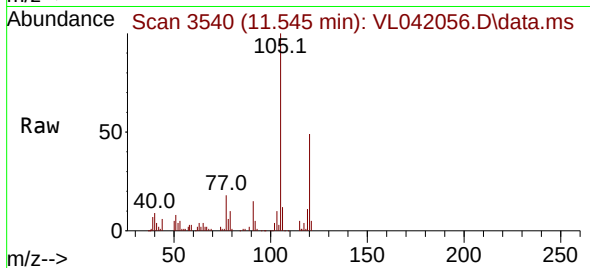
Tgt Ion:	105	Resp:	2470
Ion Ratio	Lower	Upper	
105	100		
120	49.0	40.2	60.2
91	14.8	51.4	77.2
77	17.7	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#79

Naphthalene

Concen: 0.118 ppbv

RT: 13.523 min Scan# 4151

Delta R.T. -0.003 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Tgt Ion:	128	Resp:	4612
Ion Ratio	Lower	Upper	
128	100		
127	7.1	9.8	14.6
129	13.8	8.6	12.8

