

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041925.D
 Acq On : 20 Jan 2025 18:07
 Operator : SY/MD
 Sample : Q1090-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Jan 21 03:06:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	136005	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	382270	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.872	117	331744	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	272953	10.446	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 104.500%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	7630	0.412	ppbv	100
3) Chlorodifluoromethane	1.473	51	5959m	0.307	ppbv	
4) Chloromethane	1.531	50	3696	0.530	ppbv	96
9) Propene	1.486	41	8898m	1.113	ppbv	
10) Heptane	4.965	43	15729m	0.736	ppbv	
11) Trichlorofluoromethane	1.874	101	4267	0.221	ppbv	87
13) Ethanol	1.719	45	94960	162.162	ppbv	89
15) Acetone	1.832	43	2329513	142.606	ppbv #	57
19) Isopropyl Alcohol	1.884	45	18600m	1.920	ppbv	
20) Methylene Chloride	2.056	84	7058	1.093	ppbv	92
26) Hexane	2.823	57	277023	15.901	ppbv #	35
30) Cyclohexane	3.852	84	3374m	0.223	ppbv	
34) 2-Butanone	2.557	43	84777	3.487	ppbv	99
35) Carbon Tetrachloride	3.755	117	2032m	0.085	ppbv	
36) Benzene	3.651	78	22152	0.632	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	19140m	0.338	ppbv	
50) 4-Methyl-2-Pentanone	5.765	43	12406m	0.374	ppbv	
53) Toluene	6.924	91	509437	13.339	ppbv	99
58) Ethyl Benzene	9.351	91	24620	0.475	ppbv	94
59) m/p-Xylene	9.529	91	86219	2.075	ppbv	99
60) o-Xylene	9.960	91	24763	0.600	ppbv	94
73) 1,3,5-Trimethylbenzene	11.202	105	4533	0.104	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	16140	0.342	ppbv #	53

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

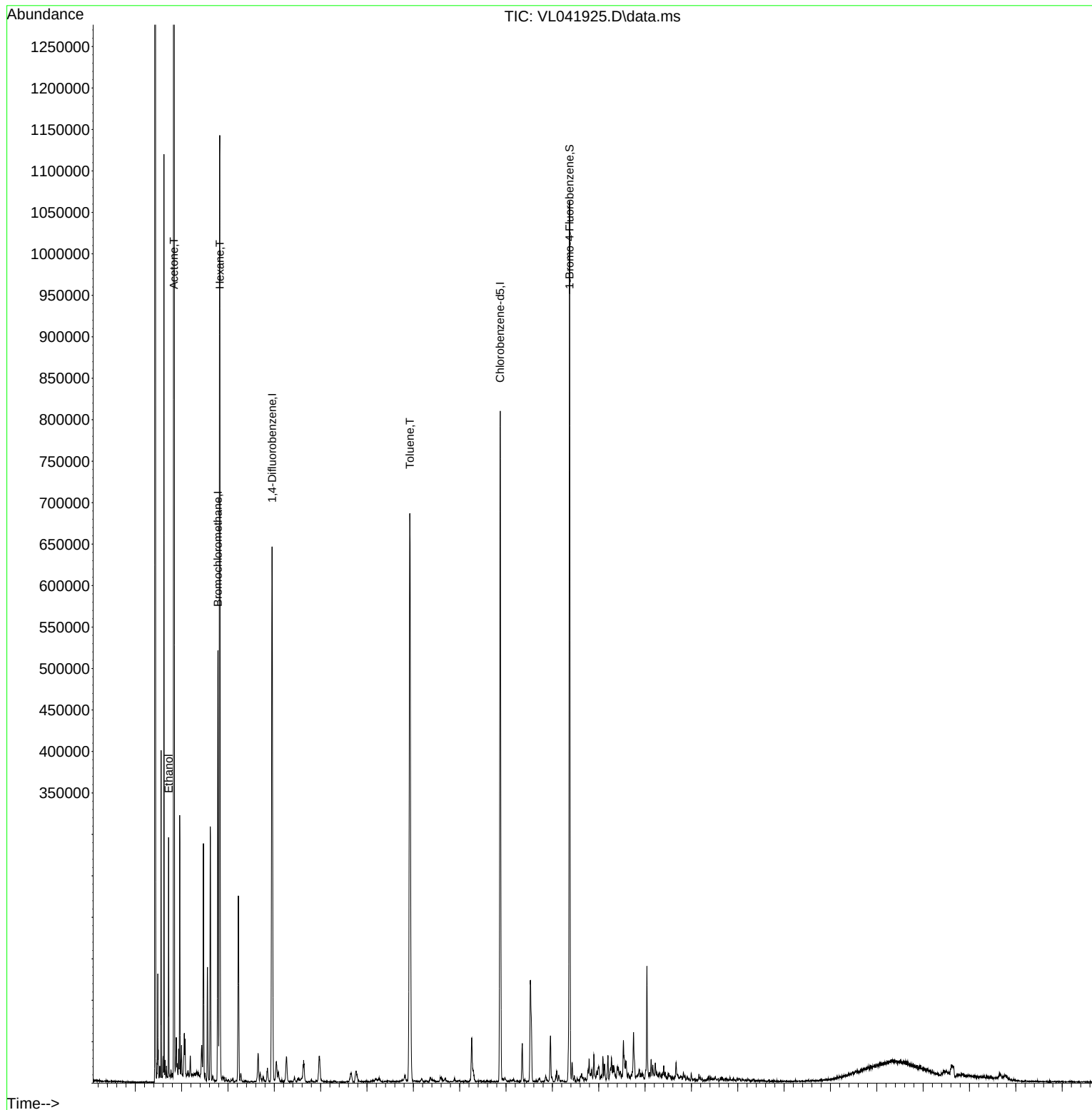
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041925.D
Acq On : 20 Jan 2025 18:07
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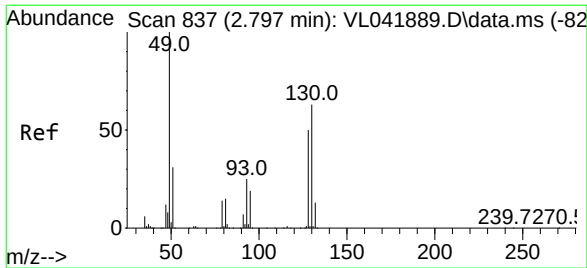
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jan 21 03:06:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
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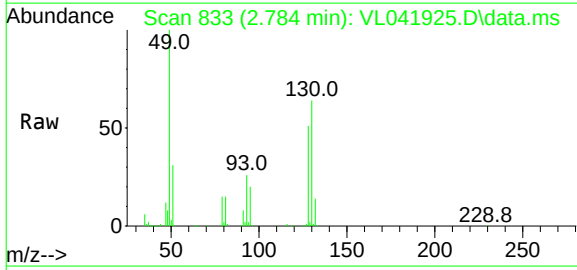
Reviewed By : Semsettin Yesilyurt 01/21/2025
Supervised By : Mahesh Dadoda 01/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 837
Delta R.T. -0.013 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

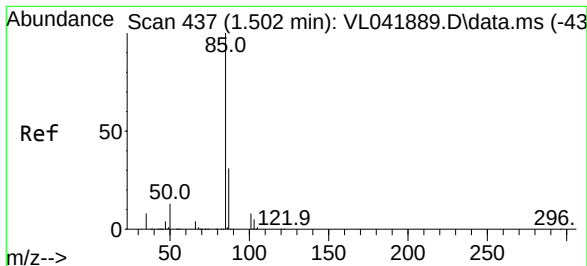
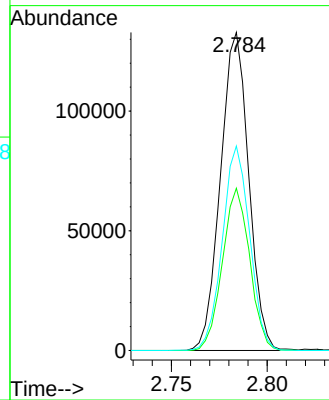
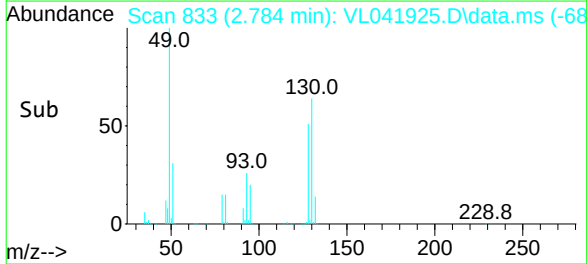
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 136005
Ion Ratio Lower Upper
49 100
128 49.4 24.3 73.0
130 62.4 31.1 93.2

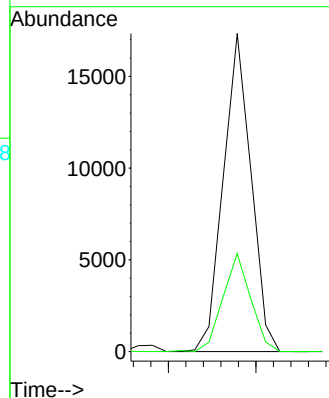
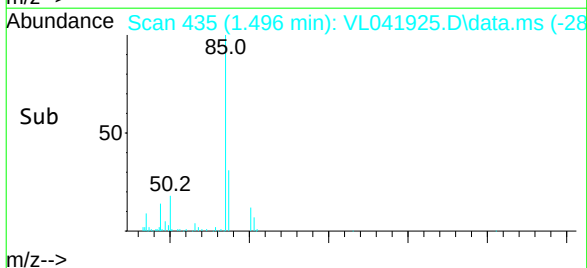
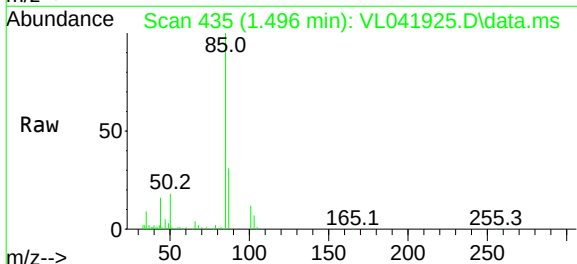
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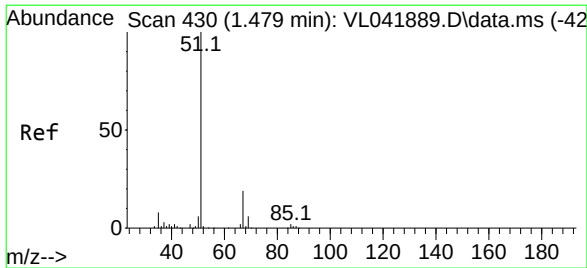
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#2
Dichlorodifluoromethane
Concen: 0.412 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

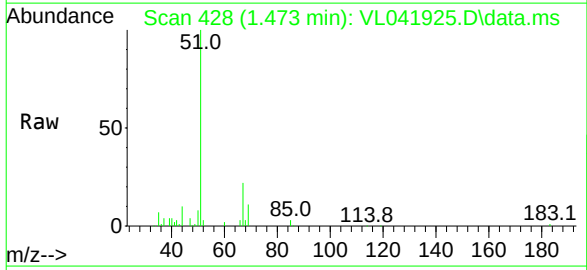
Tgt Ion: 85 Resp: 7630
Ion Ratio Lower Upper
85 100
87 30.8 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.307 ppbv m
RT: 1.473 min Scan# 42
Delta R.T. -0.006 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

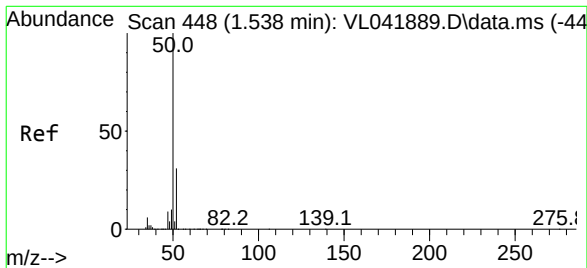
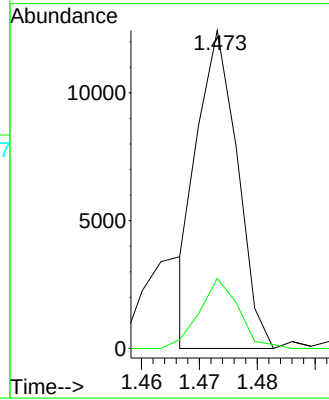
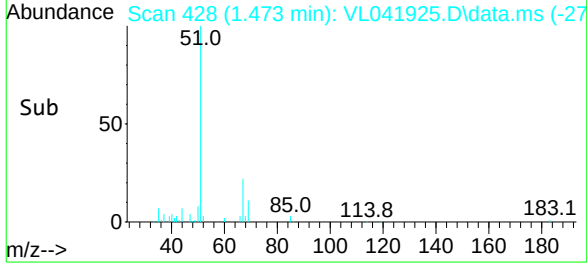
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 51 Resp: 5959
Ion Ratio Lower Upper
51 100
67 1.6 15.0 22.4#

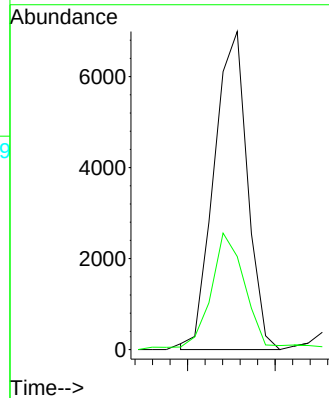
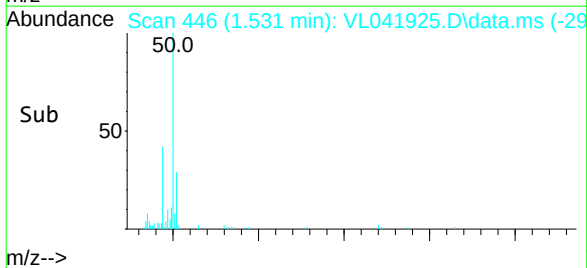
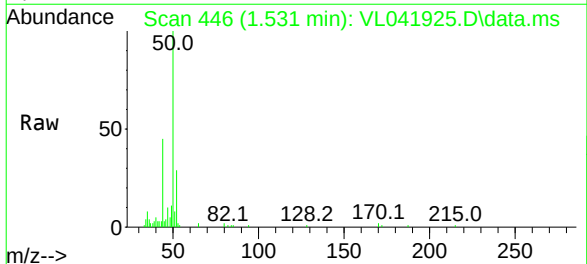
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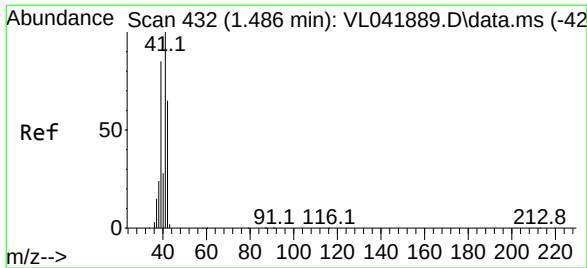
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#4
Chloromethane
Concen: 0.530 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.006 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

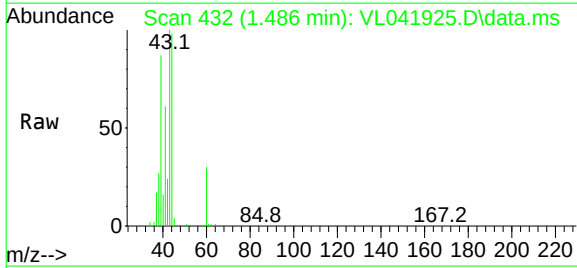
Tgt Ion: 50 Resp: 3696
Ion Ratio Lower Upper
50 100
52 28.5 24.6 36.8





#9
 Propene
 Concen: 1.113 ppbv m
 RT: 1.486 min Scan# 43
 Delta R.T. 0.000 min
 Lab File: VL041925.D
 Acq: 20 Jan 2025 18:07

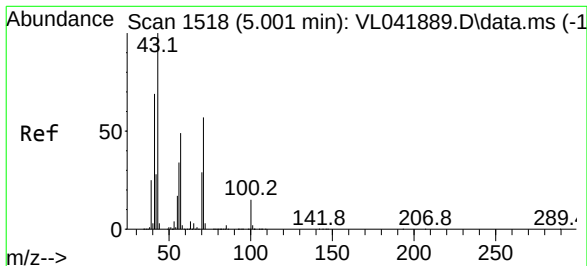
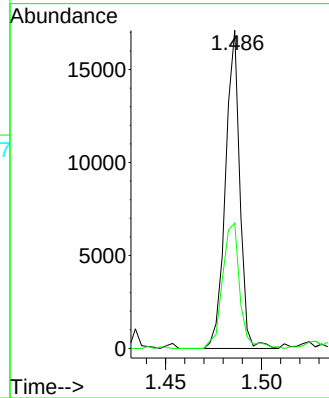
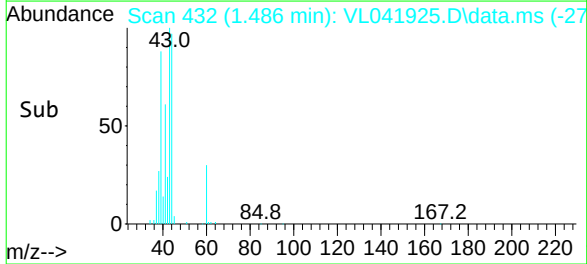
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 41 Resp: 8898
 Ion Ratio Lower Upper
 41 100
 42 300.2 52.0 78.0#

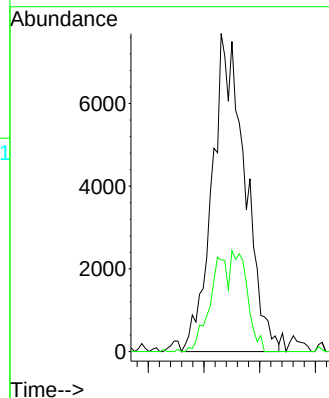
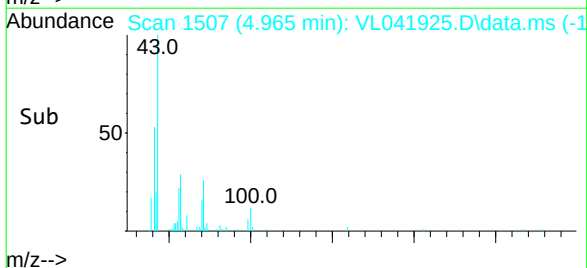
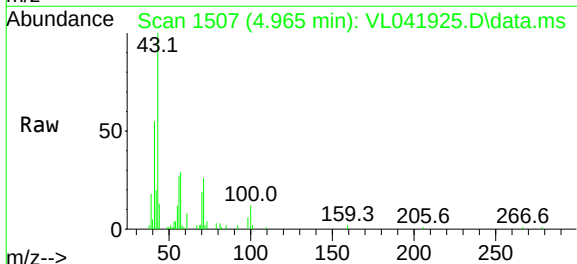
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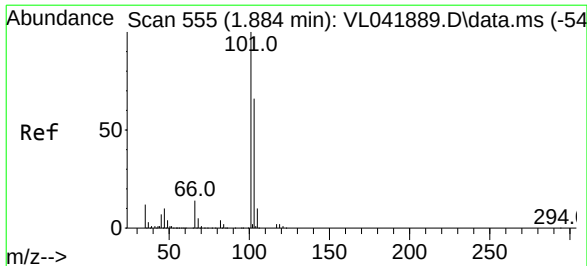
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#10
 Heptane
 Concen: 0.736 ppbv m
 RT: 4.965 min Scan# 1507
 Delta R.T. -0.035 min
 Lab File: VL041925.D
 Acq: 20 Jan 2025 18:07

Tgt Ion: 43 Resp: 15729
 Ion Ratio Lower Upper
 43 100
 57 32.9 41.0 61.4#





#11

Trichlorofluoromethane

Concen: 0.221 ppbv

RT: 1.874 min Scan# 555

Delta R.T. -0.009 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:101 Resp: 4267

Ion Ratio Lower Upper

101 100

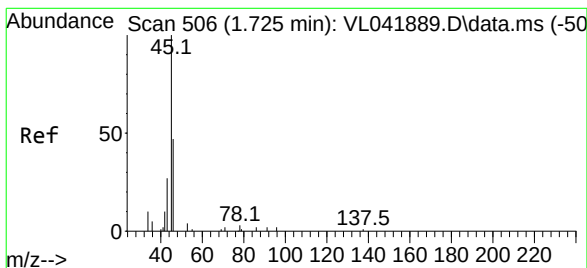
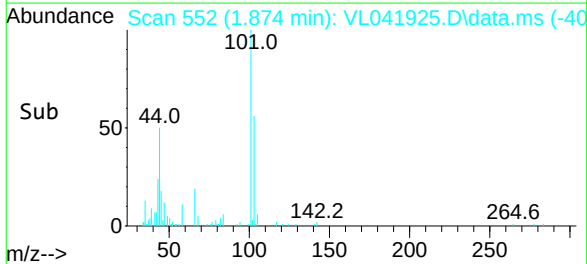
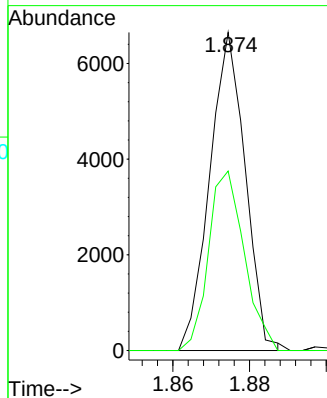
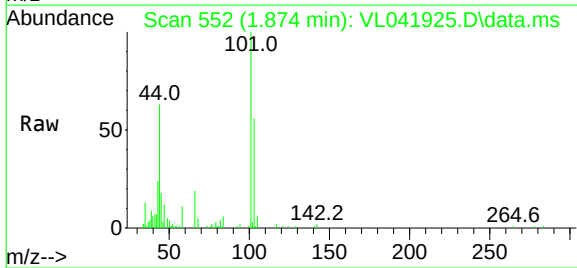
103 56.4 53.1 79.7

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Reviewed By :Semsettin Yesilyurt 01/21/2025

Supervised By :Mahesh Dadoda 01/21/2025



#13

Ethanol

Concen: 162.162 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.006 min

Lab File: VL041925.D

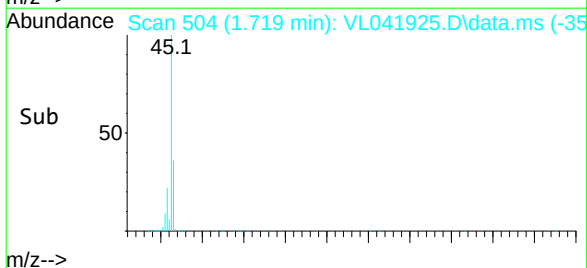
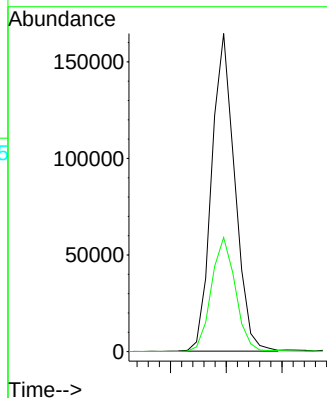
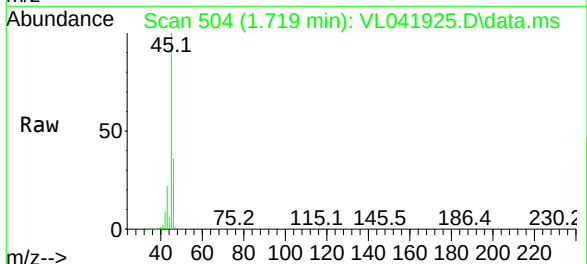
Acq: 20 Jan 2025 18:07

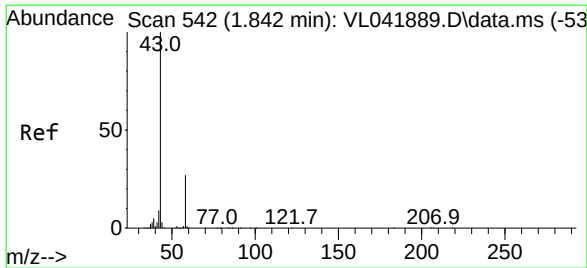
Tgt Ion: 45 Resp: 94960

Ion Ratio Lower Upper

45 100

46 37.8 18.1 72.5





#15

Acetone

Concen: 142.606 ppbv

RT: 1.832 min Scan# 53

Delta R.T. -0.009 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 43 Resp: 2329513

Ion Ratio Lower Upper

43 100

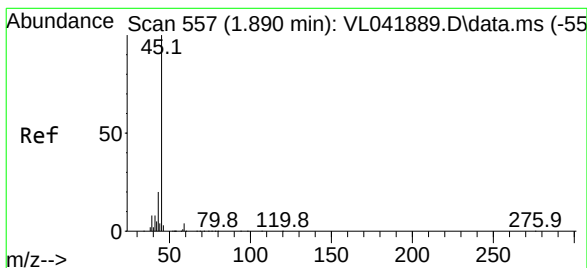
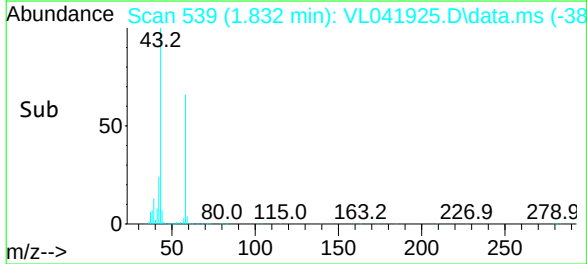
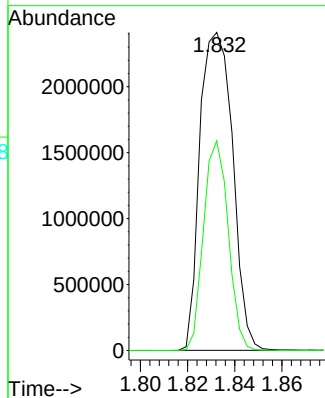
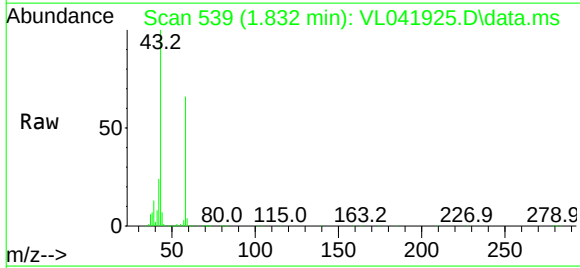
58 49.8 21.9 32.9#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/21/2025

Supervised By :Mahesh Dadoda 01/21/2025



#19

Isopropyl Alcohol

Concen: 1.920 ppbv m

RT: 1.884 min Scan# 555

Delta R.T. -0.006 min

Lab File: VL041925.D

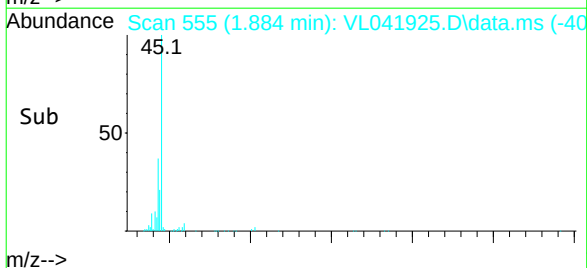
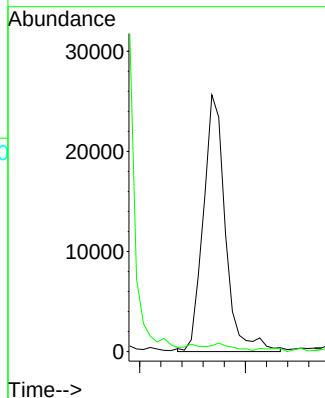
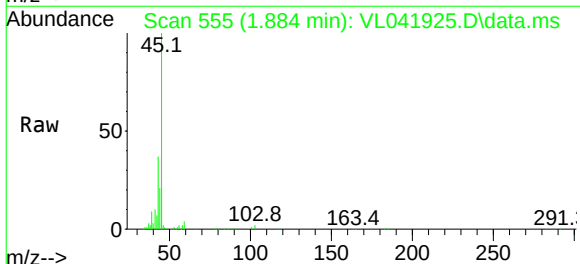
Acq: 20 Jan 2025 18:07

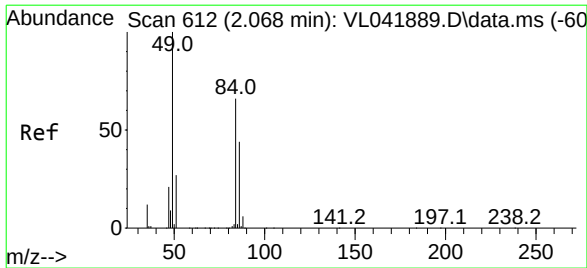
Tgt Ion: 45 Resp: 18600

Ion Ratio Lower Upper

45 100

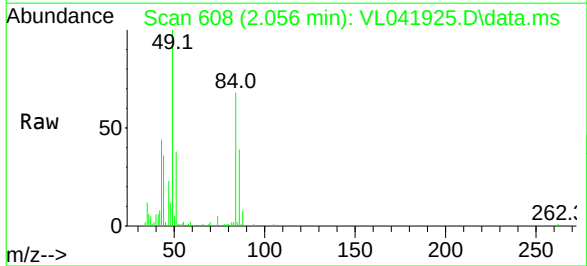
58 0.0 35.0 52.6#





#20
Methylene Chloride
Concen: 1.093 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

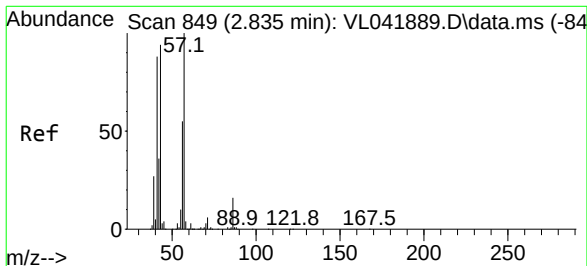
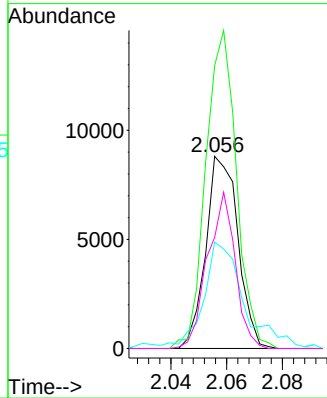
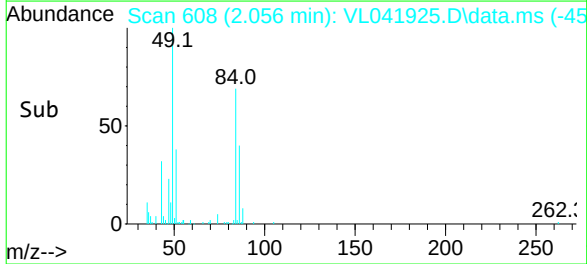
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:	84	Resp:	7058
Ion	Ratio	Lower	Upper
84	100		
49	147.1	123.1	184.7
51	53.1	35.8	53.8
86	57.8	53.7	80.5

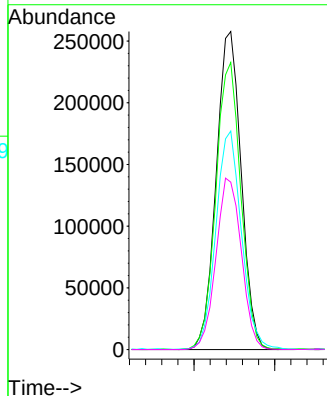
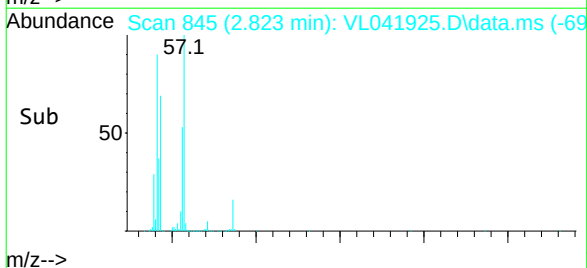
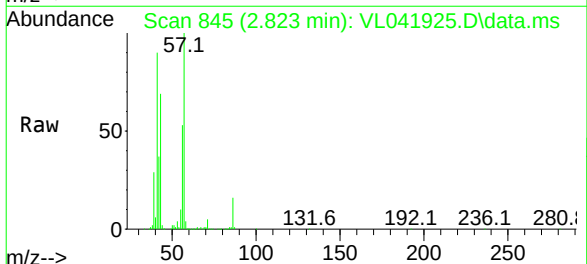
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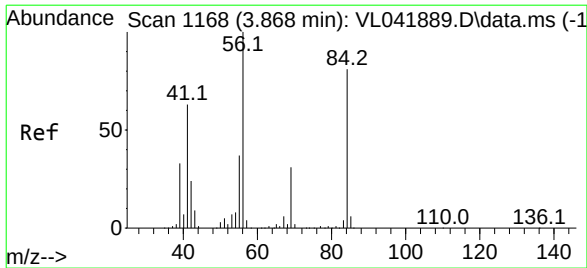
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#26
Hexane
Concen: 15.901 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.013 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

Tgt Ion:	57	Resp:	277023
Ion	Ratio	Lower	Upper
57	100		
41	90.6	73.8	110.8
43	70.2	197.3	295.9#
56	54.8	42.7	64.1





#30

Cyclohexane

Concen: 0.223 ppbv m

RT: 3.852 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL041925.D

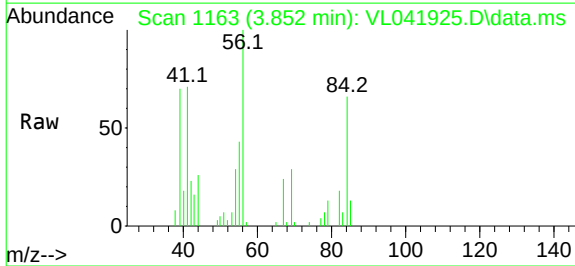
Acq: 20 Jan 2025 18:07

Instrument :

MSVOA_L

ClientSampleId :

IA2

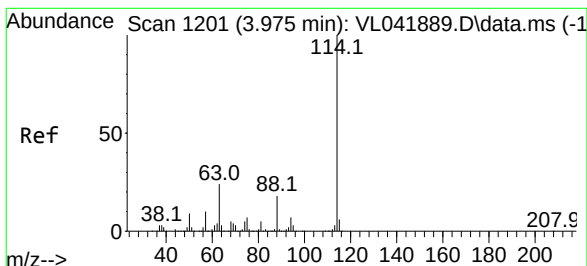
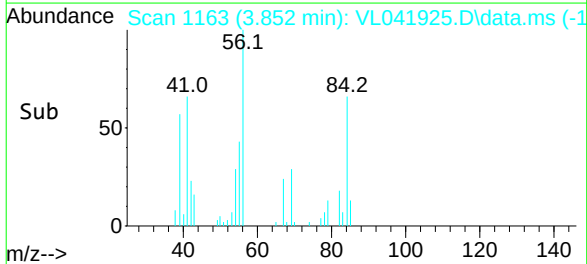
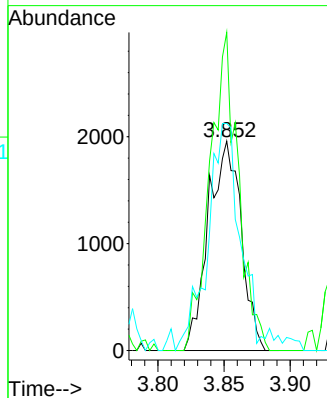


Tgt Ion	Ratio	Lower	Upper
84	100		
56	131.4	99.3	148.9
41	114.1	64.3	96.5

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

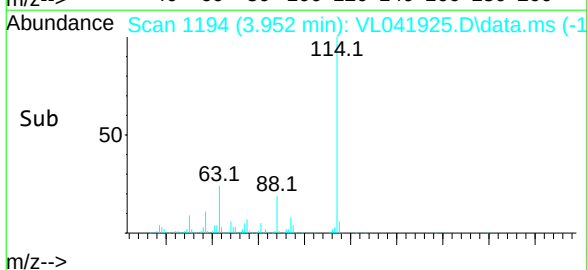
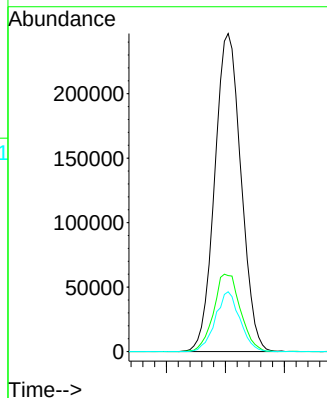
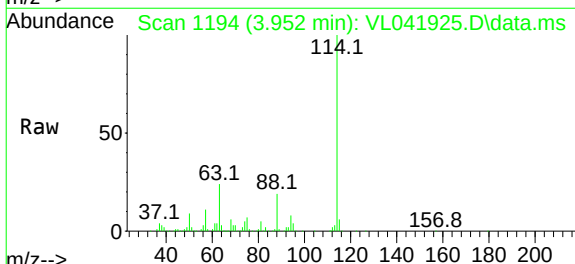
RT: 3.952 min Scan# 1194

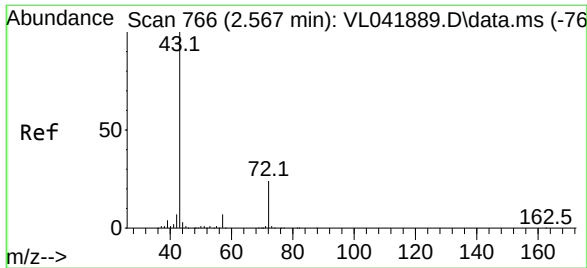
Delta R.T. -0.022 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

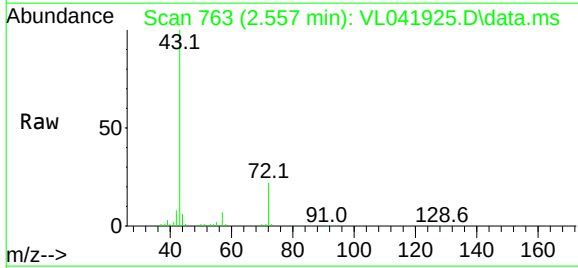
Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.8	29.6
88	17.6	14.4	21.6





#34
2-Butanone
Concen: 3.487 ppbv
RT: 2.557 min Scan# 766
Delta R.T. -0.009 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

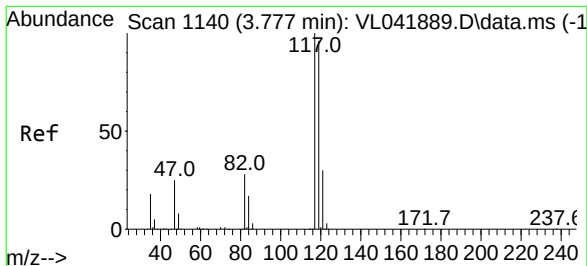
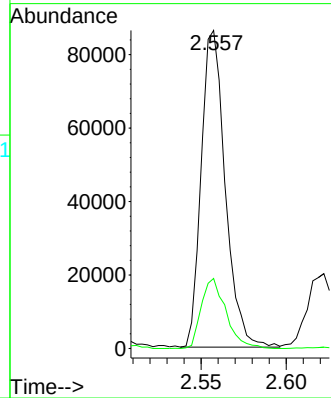
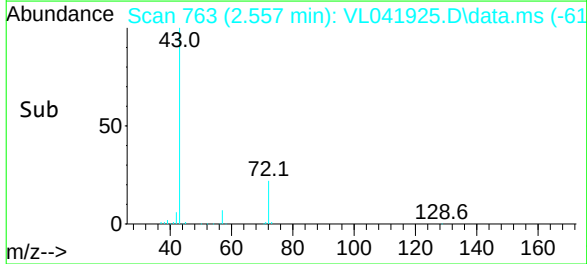
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 84777
Ion Ratio Lower Upper
43 100
72 22.7 18.6 28.0

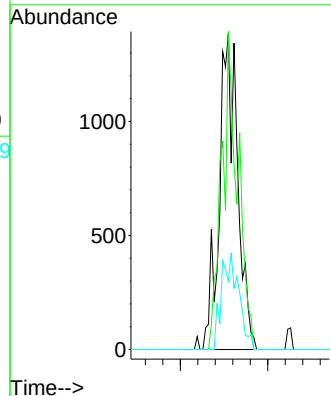
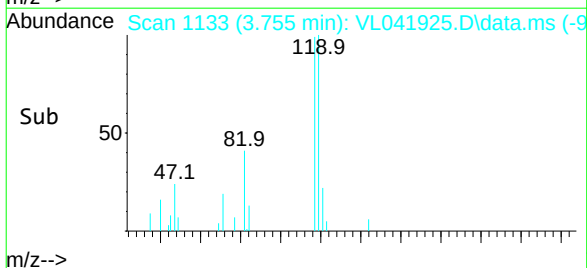
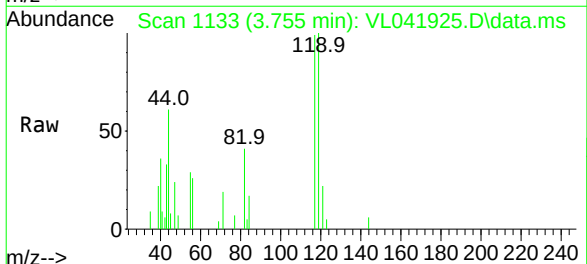
Manual Integrations
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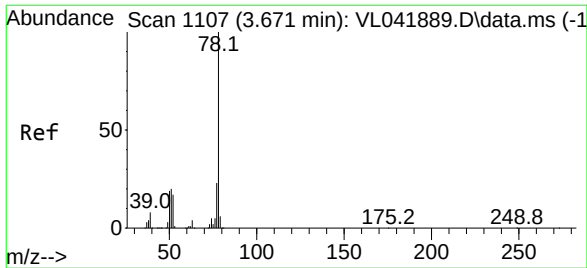
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.022 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

Tgt Ion:117 Resp: 2032
Ion Ratio Lower Upper
117 100
119 100.6 76.9 115.3
121 21.6 23.8 35.6#





#36

Benzene

Concen: 0.632 ppbv

RT: 3.651 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

Instrument :

MSVOA_L

ClientSampleId :

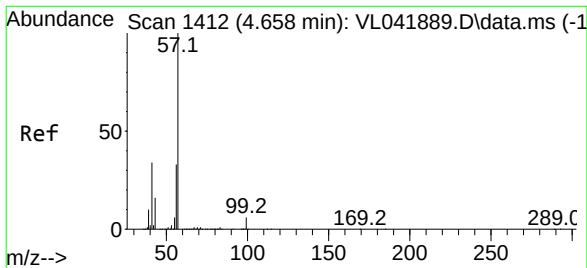
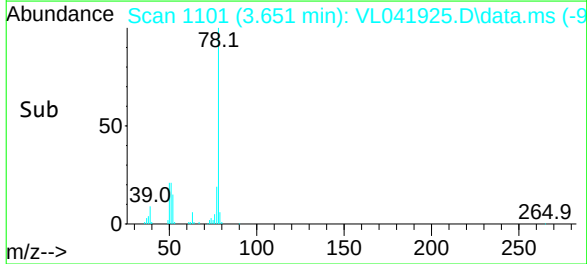
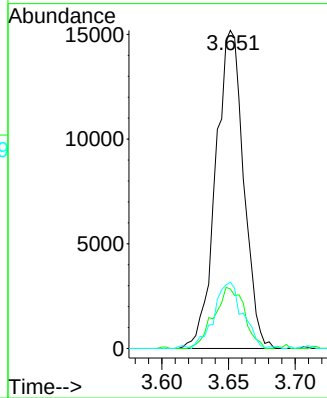
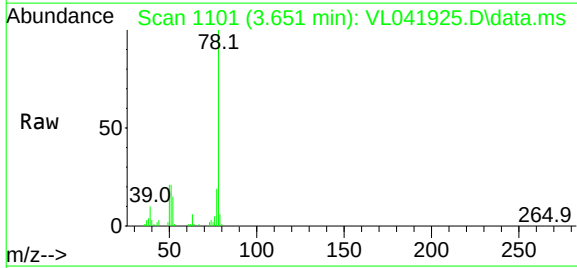
IA2

Tgt Ion: 78	Resp: 22152
Ion Ratio	Lower Upper
78 100	
77 18.7	18.1 27.1
50 20.3	15.2 22.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#44

2,2,4-Trimethylpentane

Concen: 0.338 ppbv m

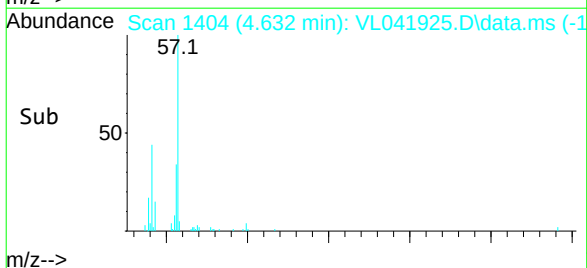
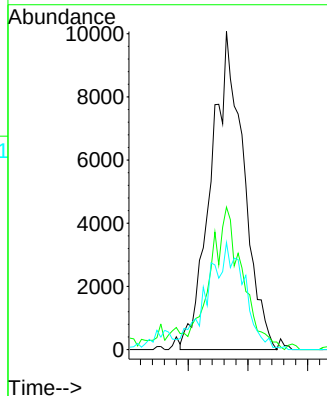
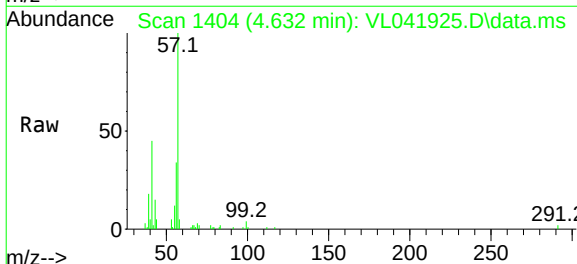
RT: 4.632 min Scan# 1404

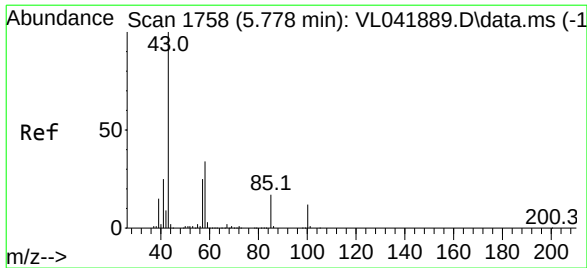
Delta R.T. -0.026 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

Tgt Ion: 57	Resp: 19140
Ion Ratio	Lower Upper
57 100	
41 48.8	26.6 40.0#
56 42.3	25.4 38.2#





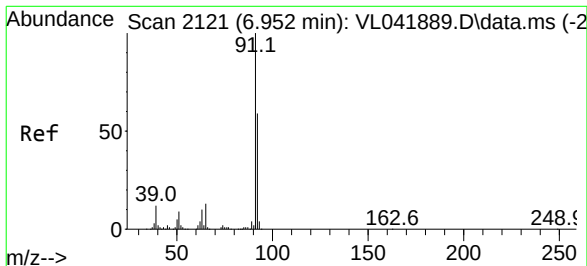
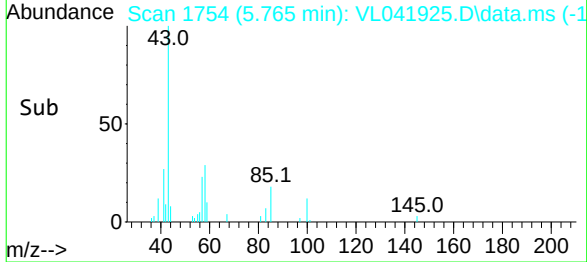
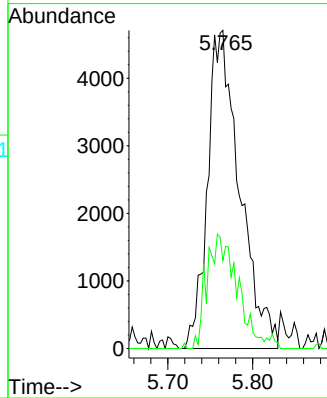
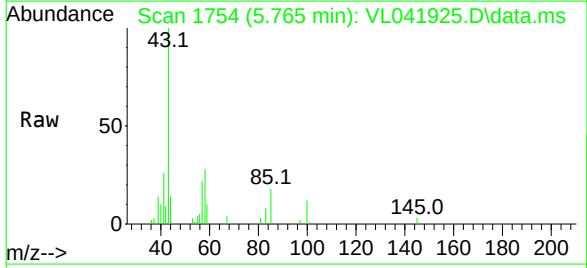
#50
4-Methyl-2-Pentanone
Concen: 0.374 ppbv m
RT: 5.765 min Scan# 17
Delta R.T. -0.013 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 12406
Ion Ratio Lower Upper
43 100
58 34.7 29.0 43.6

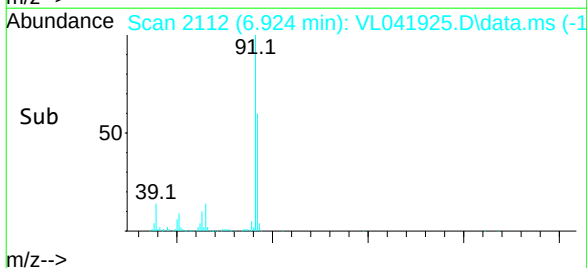
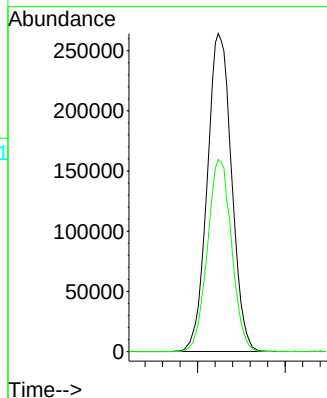
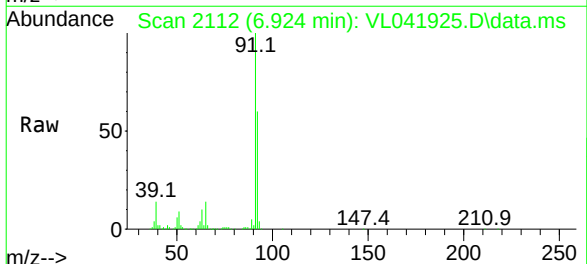
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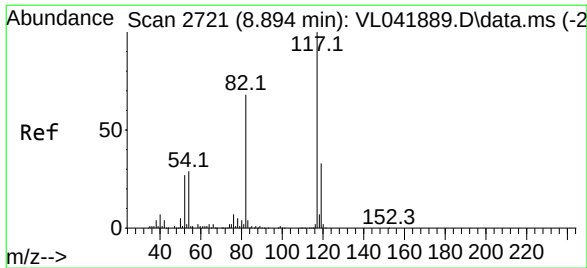
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#53
Toluene
Concen: 13.339 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.029 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

Tgt Ion: 91 Resp: 509437
Ion Ratio Lower Upper
91 100
92 60.0 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.872 min Scan# 2714

Delta R.T. -0.022 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

Instrument :

MSVOA_L

ClientSampleId :

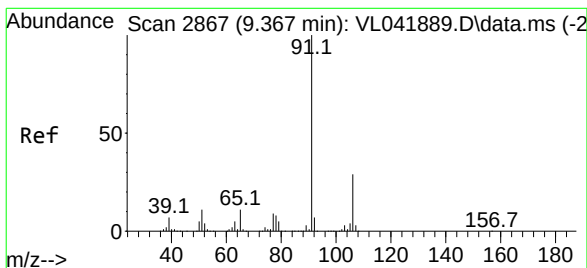
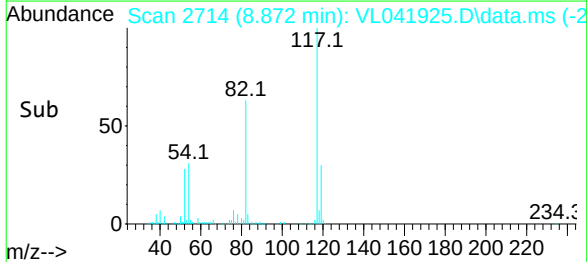
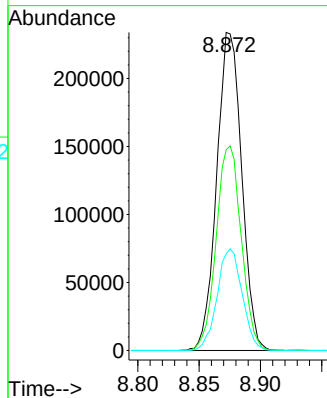
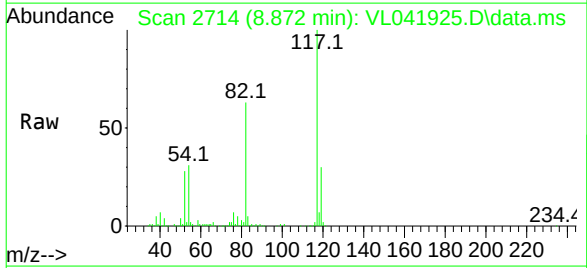
IA2

Tgt Ion:	117	Resp:	331744
Ion	Ratio	Lower	Upper
117	100		
82	64.5	54.2	81.4
119	32.0	25.0	37.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#58

Ethyl Benzene

Concen: 0.475 ppbv

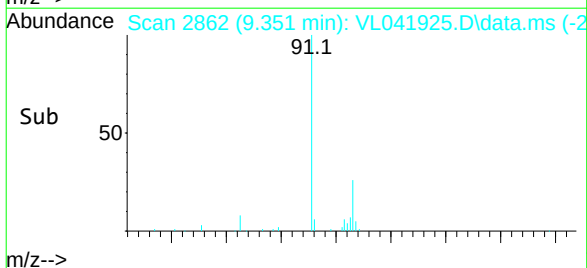
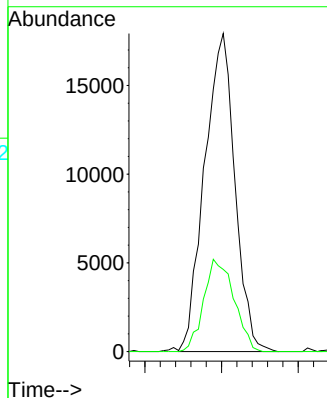
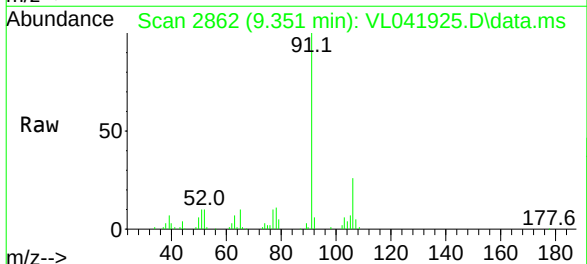
RT: 9.351 min Scan# 2862

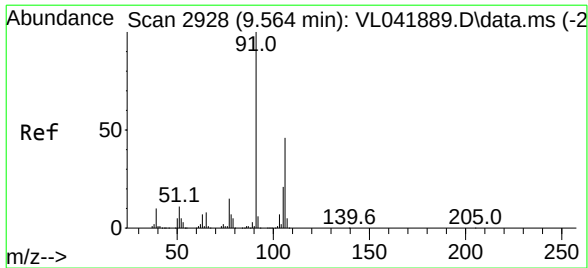
Delta R.T. -0.016 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

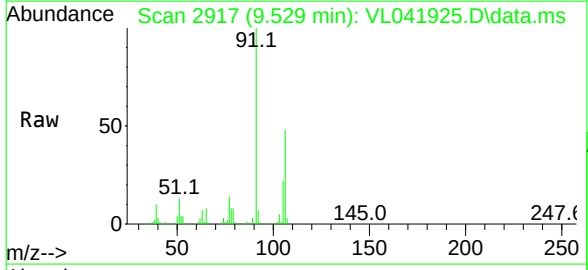
Tgt Ion:	91	Resp:	24620
Ion	Ratio	Lower	Upper
91	100		
106	25.8	23.1	34.7





#59
m/p-Xylene
Concen: 2.075 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.035 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07

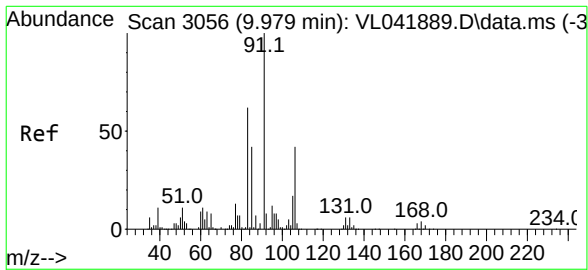
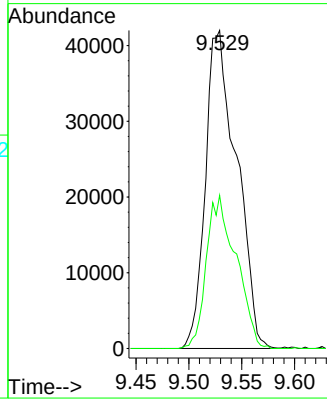
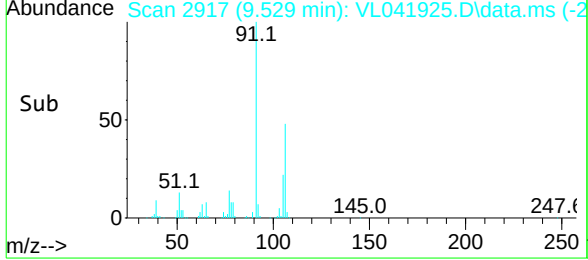
Instrument : MSVOA_L
ClientSampleId : IA2



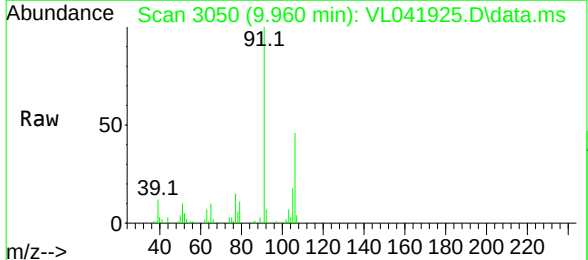
Tgt Ion: 91 Resp: 86219
Ion Ratio Lower Upper
91 100
106 45.9 36.0 54.0

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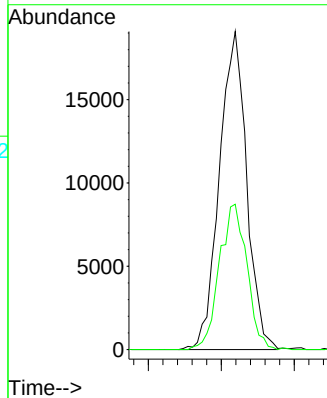
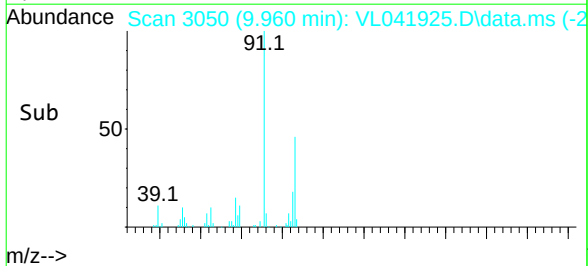
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

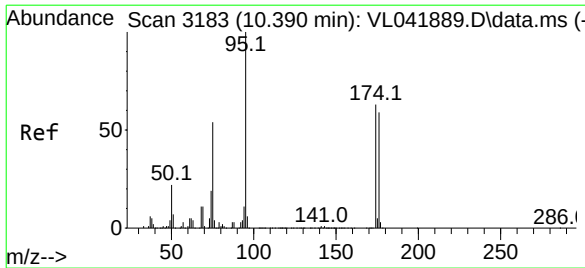


#60
o-Xylene
Concen: 0.600 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.019 min
Lab File: VL041925.D
Acq: 20 Jan 2025 18:07



Tgt Ion: 91 Resp: 24763
Ion Ratio Lower Upper
91 100
106 46.3 21.3 63.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.446 ppbv

RT: 10.371 min Scan# 31

Delta R.T. -0.019 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

Instrument :

MSVOA_L

ClientSampleId :

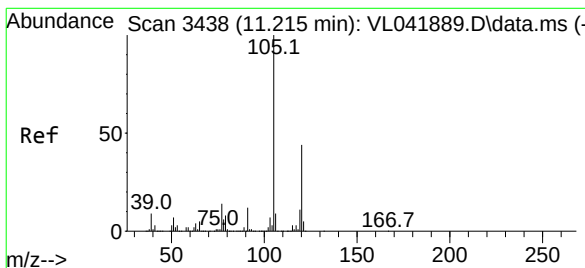
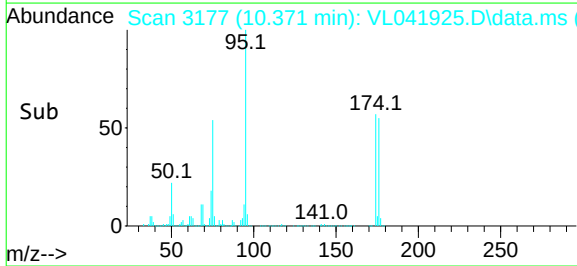
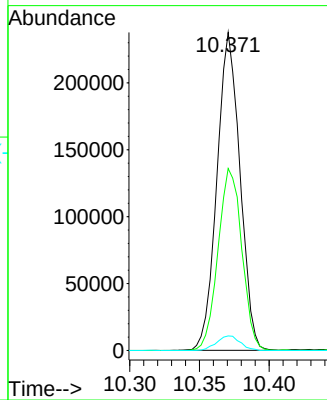
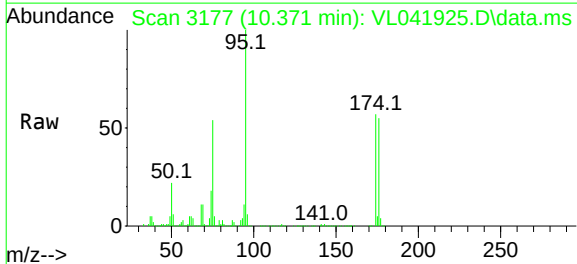
IA2

Tgt Ion:	95	Resp:	272953
Ion	Ratio	Lower	Upper
95	100		
174	59.4	49.0	73.4
175	4.7	3.8	5.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#73

1,3,5-Trimethylbenzene

Concen: 0.104 ppbv

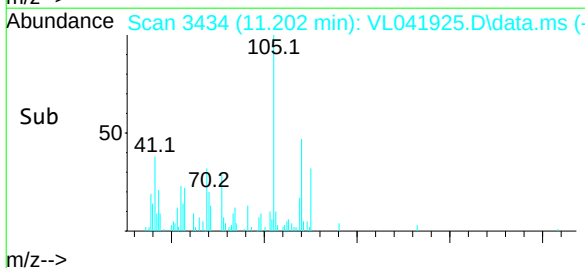
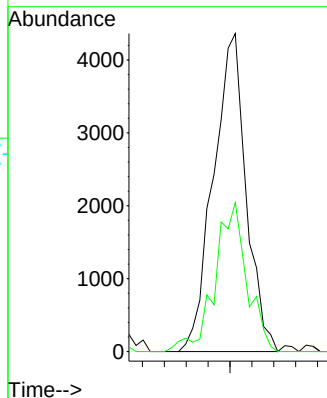
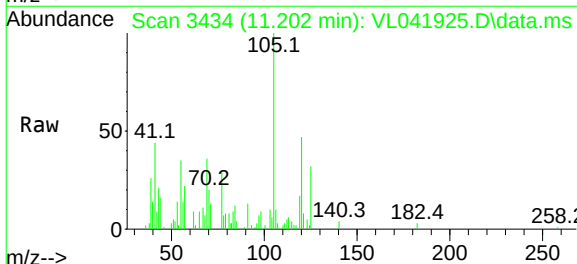
RT: 11.202 min Scan# 3434

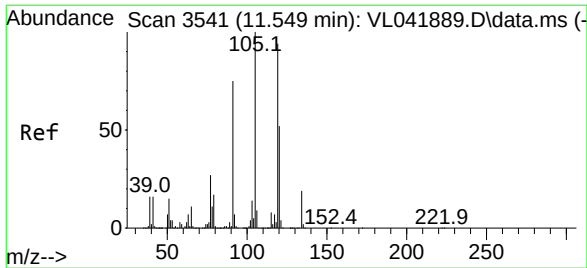
Delta R.T. -0.013 min

Lab File: VL041925.D

Acq: 20 Jan 2025 18:07

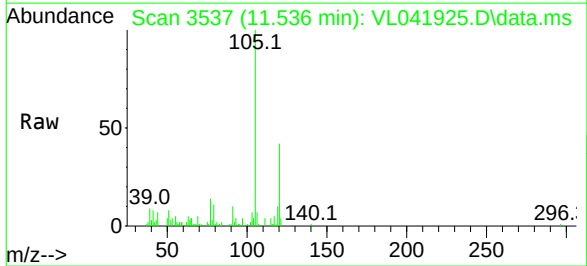
Tgt Ion:	105	Resp:	4533
Ion	Ratio	Lower	Upper
105	100		
120	46.8	35.4	53.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.342 ppbv
 RT: 11.536 min Scan# 3541
 Delta R.T. -0.013 min
 Lab File: VL041925.D
 Acq: 20 Jan 2025 18:07

Instrument : MSVOA_L
 ClientSampleId : IA2



Tgt Ion:	105	Resp:	16140
Ion Ratio	Lower	Upper	
105	100		
120	42.1	41.4	62.2
91	9.2	60.2	90.2#
77	13.7	22.0	33.0#

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

