

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041810.D
 Acq On : 19 Dec 2024 00:11
 Operator : SY/MD
 Sample : P5293-03DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC1DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/23/2024

Quant Time: Dec 19 08:01:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	74135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	177633	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	156162	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	138713	10.659	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 106.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2899	0.220	ppbv	94
4) Chloromethane	1.534	50	4999	0.969	ppbv	93
9) Propene	1.486	41	14442	2.756	ppbv	96
11) Trichlorofluoromethane	1.881	101	1359	0.097	ppbv	97
13) Ethanol	1.725	45	1157777	2668.289	ppbv	96
15) Acetone	1.839	43	149341	10.353	ppbv	98
17) tert-Butyl alcohol	2.046	59	7260	0.507	ppbv #	94
19) Isopropyl Alcohol	1.891	45	20001	2.311	ppbv #	1
20) Methylene Chloride	2.065	84	3482	0.847	ppbv	91
29) Chloroform	2.855	83	10038	0.647	ppbv	94
34) 2-Butanone	2.564	43	29410	2.058	ppbv	98
36) Benzene	3.667	78	6389	0.348	ppbv	97
42) Bromodichloromethane	4.502	83	1698	0.129	ppbv #	55
53) Toluene	6.946	91	9756	0.468	ppbv	97
58) Ethyl Benzene	9.364	91	3369	0.120	ppbv #	74
59) m/p-Xylene	9.545	91	13654	0.604	ppbv #	100
60) o-Xylene	9.972	91	5359	0.236	ppbv	99
61) Styrene	9.888	104	1773m	0.181	ppbv	
65) tert-Butylbenzene	11.545	119	2994	0.097	ppbv #	50
72) 4-Ethyltoluene	11.134	105	4673	0.175	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.212	105	4667	0.210	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	22943	0.961	ppbv #	56

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

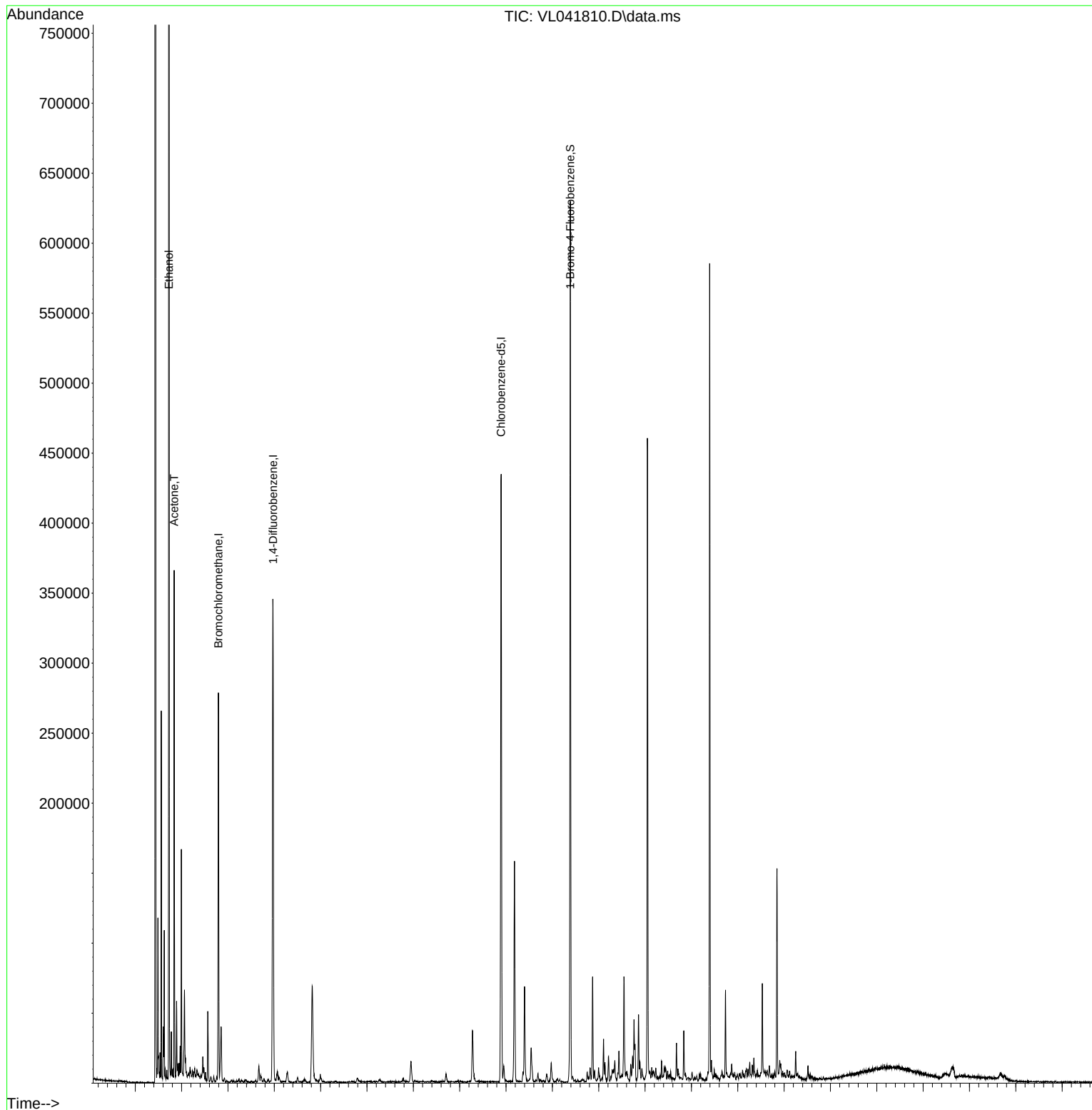
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041810.D
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Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

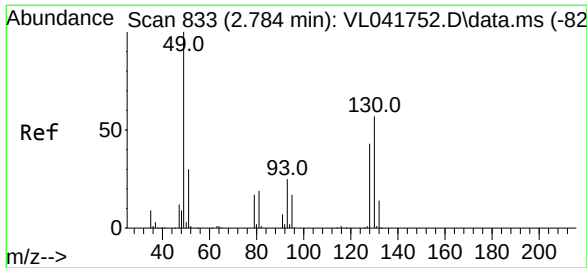
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

Quant Time: Dec 19 08:01:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

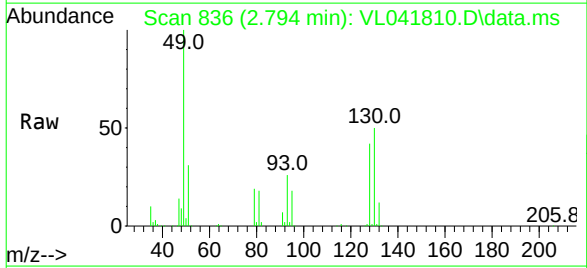
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/23/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 833
Delta R.T. 0.010 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

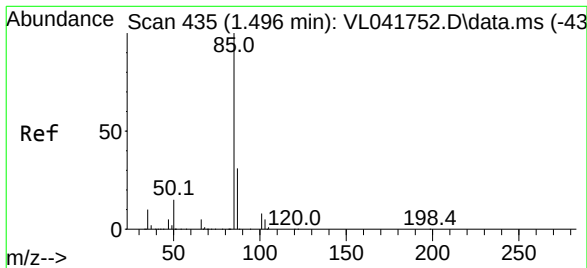
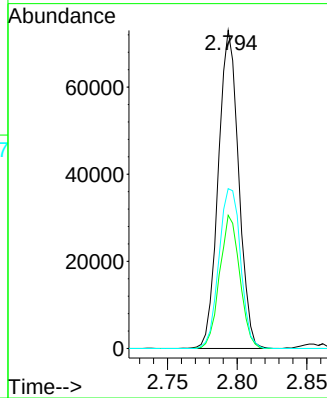
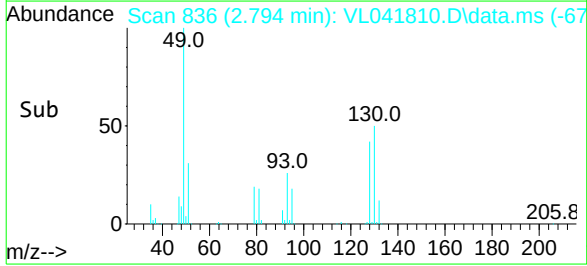
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 49 Resp: 74135
Ion Ratio Lower Upper
49 100
128 41.4 21.6 64.6
130 53.5 28.3 85.0

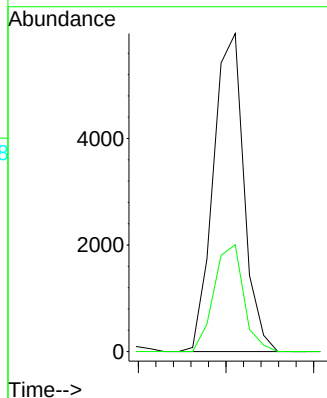
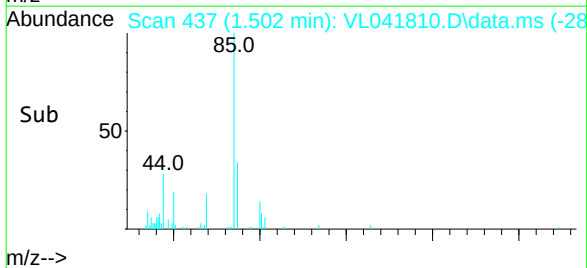
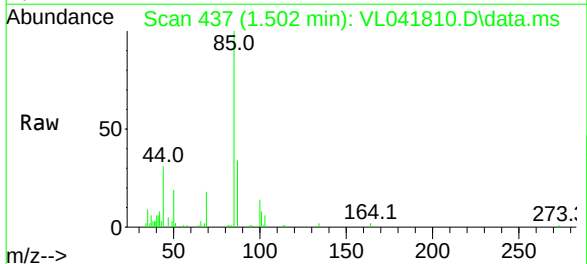
Manual Integrations
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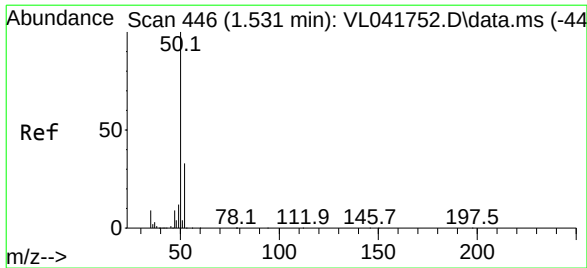
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#2
Dichlorodifluoromethane
Concen: 0.220 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

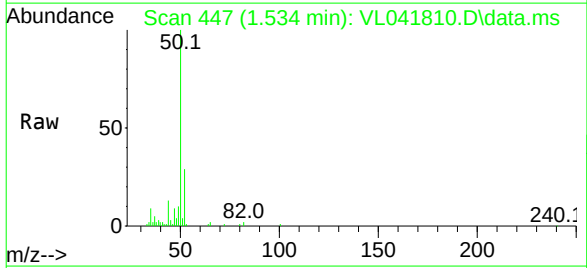
Tgt Ion: 85 Resp: 2899
Ion Ratio Lower Upper
85 100
87 33.6 24.5 36.7





#4
Chloromethane
Concen: 0.969 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

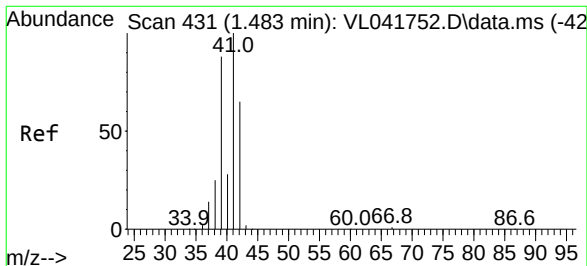
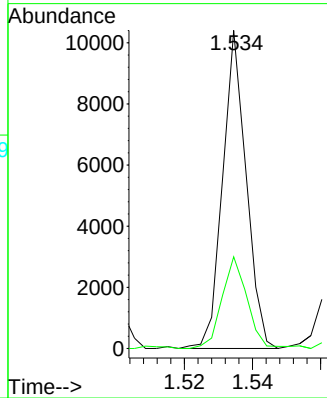
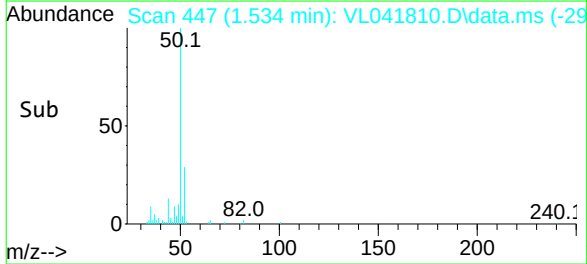
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 50 Resp: 4999
Ion Ratio Lower Upper
50 100
52 28.8 26.2 39.2

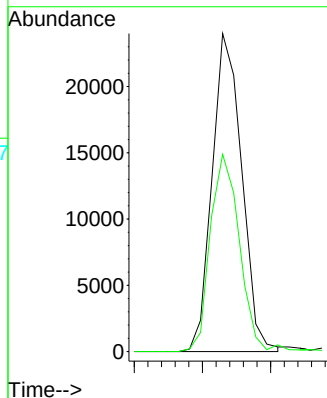
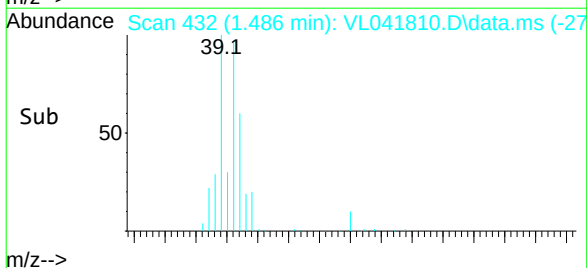
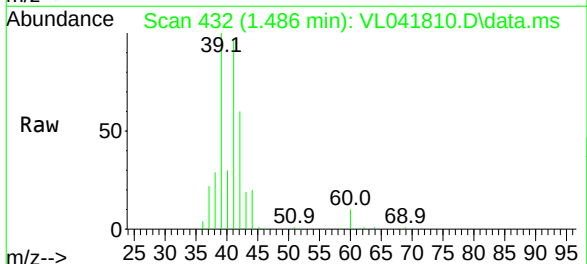
Manual Integrations
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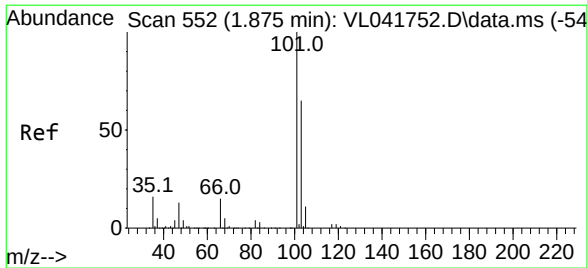
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#9
Propene
Concen: 2.756 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 41 Resp: 14442
Ion Ratio Lower Upper
41 100
42 62.6 52.4 78.6





#11

Trichlorofluoromethane

Concen: 0.097 ppbv

RT: 1.881 min Scan# 55

Delta R.T. 0.006 min

Lab File: VL041810.D

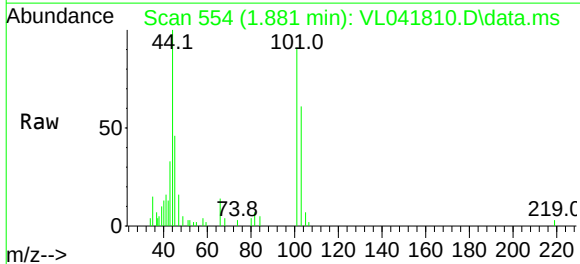
Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL



Tgt Ion:101 Resp: 1359

Ion Ratio Lower Upper

101 100

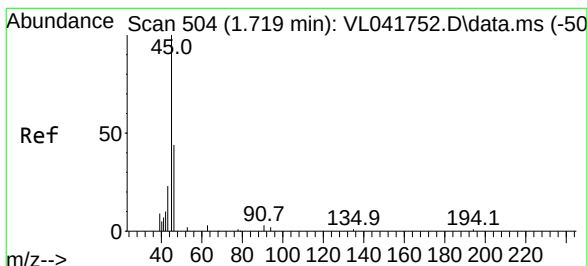
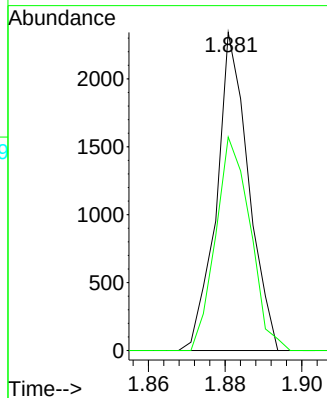
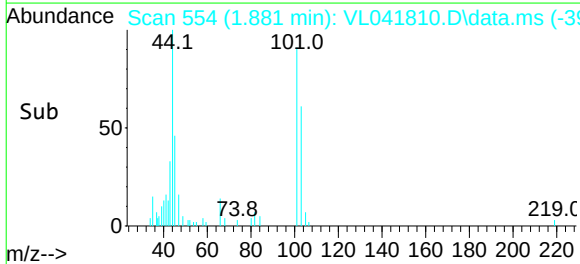
103 67.1 51.8 77.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#13

Ethanol

Concen: 2668.289 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041810.D

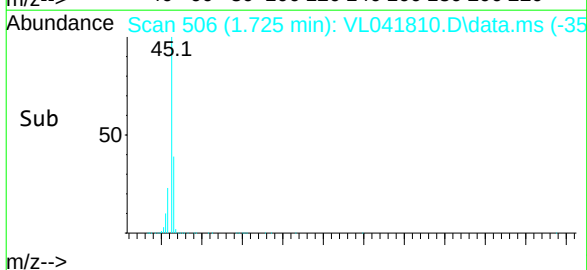
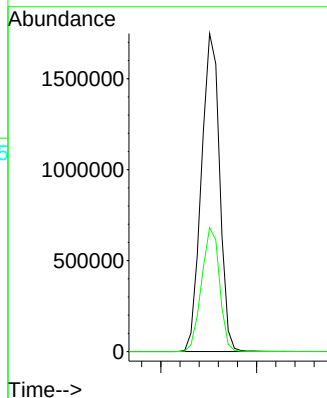
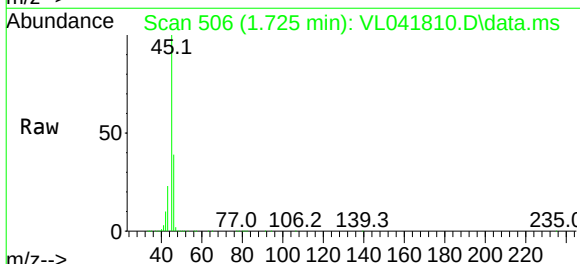
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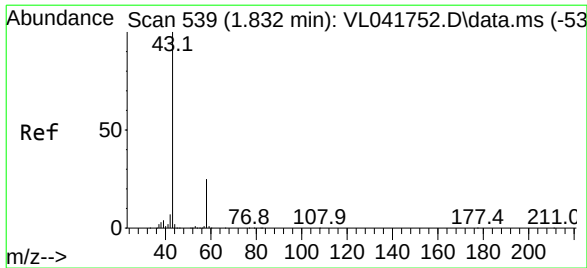
Tgt Ion: 45 Resp: 1157777

Ion Ratio Lower Upper

45 100

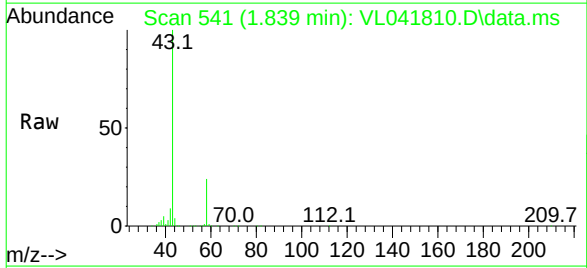
46 38.4 16.4 65.8





#15
Acetone
Concen: 10.353 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

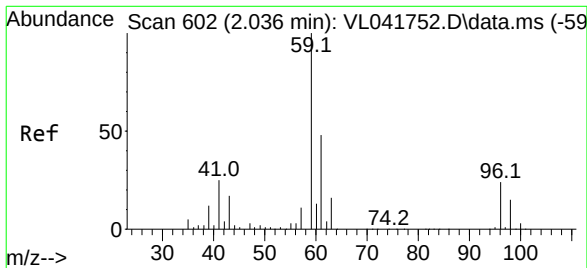
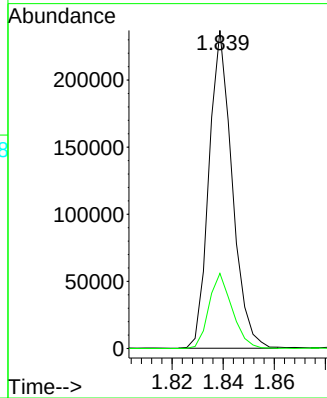
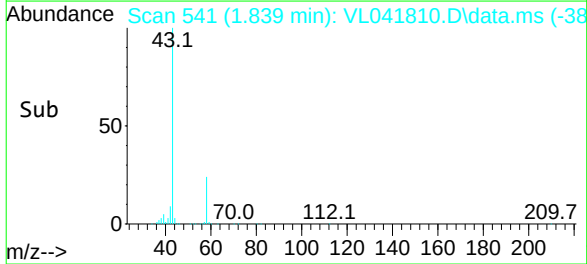
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 43 Resp: 149341
Ion Ratio Lower Upper
43 100
58 23.8 19.7 29.5

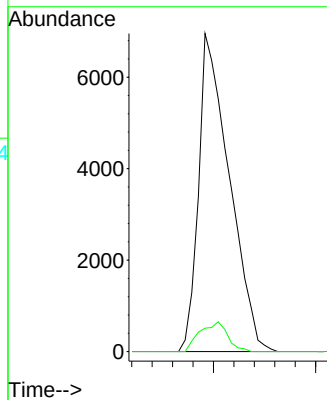
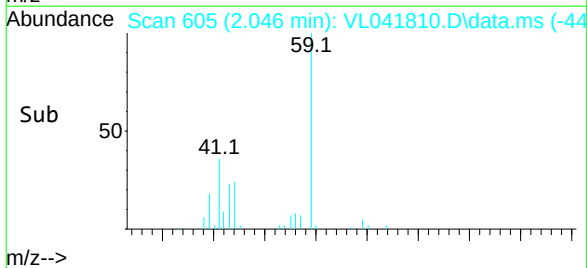
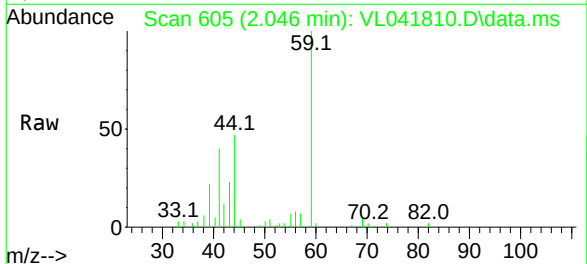
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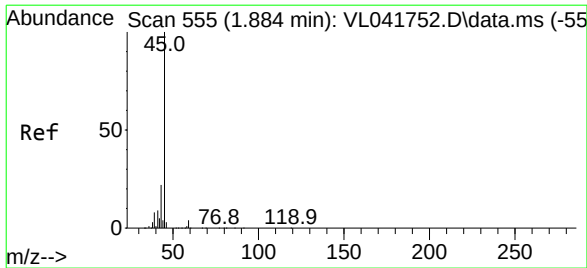
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#17
tert-Butyl alcohol
Concen: 0.507 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 59 Resp: 7260
Ion Ratio Lower Upper
59 100
57 8.4 8.6 13.0#





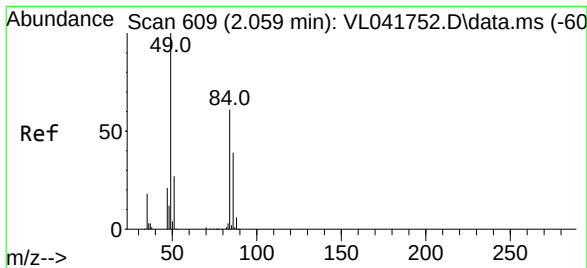
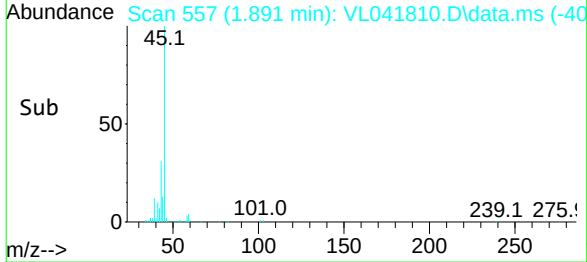
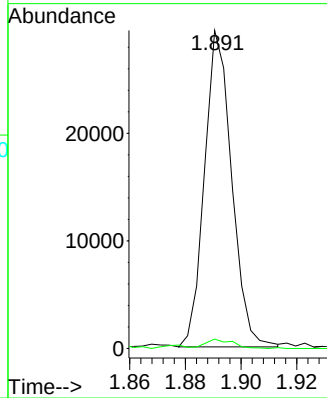
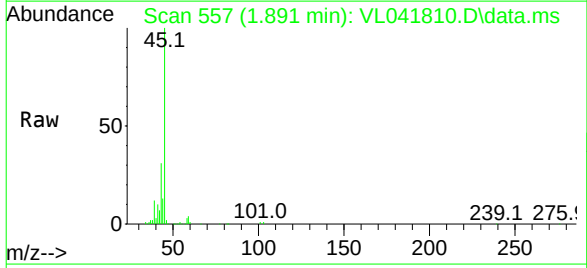
#19
Isopropyl Alcohol
Concen: 2.311 ppbv
RT: 1.891 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

Tgt Ion: 45 Resp: 20001
Ion Ratio Lower Upper
45 100
58 177.5 33.3 49.9#

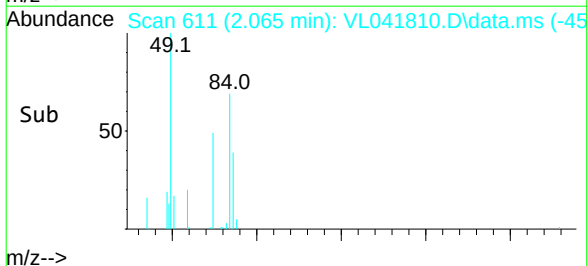
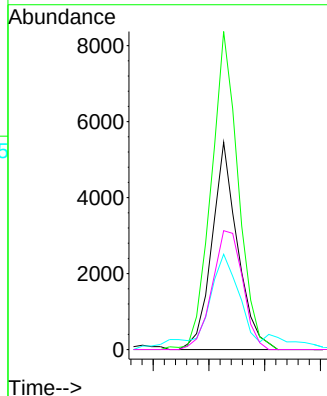
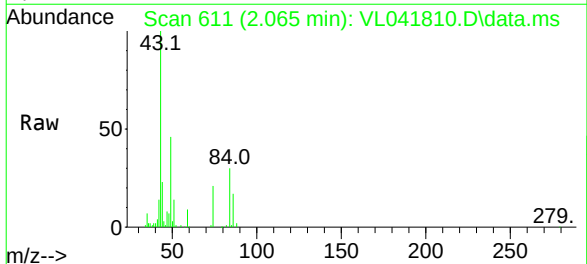
Manual Integrations
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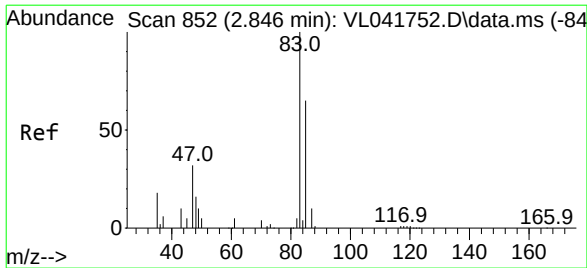
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#20
Methylene Chloride
Concen: 0.847 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 84 Resp: 3482
Ion Ratio Lower Upper
84 100
49 153.4 132.6 198.8
51 41.2 37.6 56.4
86 57.3 51.4 77.0





#29

Chloroform

Concen: 0.647 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

Tgt Ion: 83 Resp: 10038

Ion Ratio Lower Upper

83 100

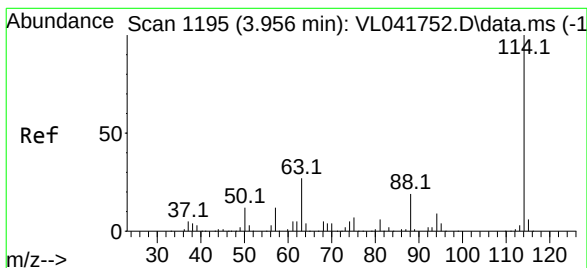
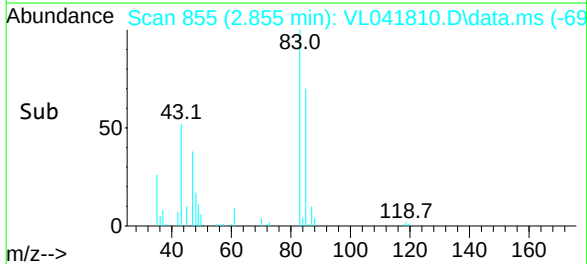
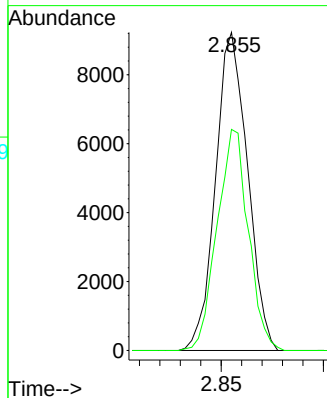
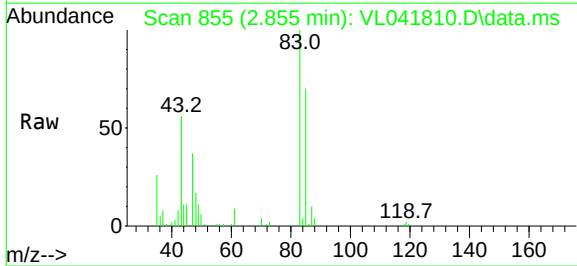
85 69.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. 0.016 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

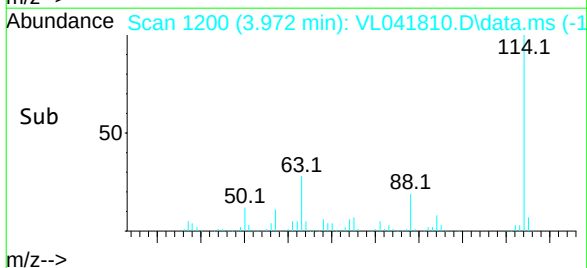
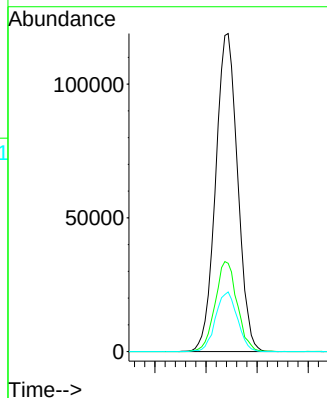
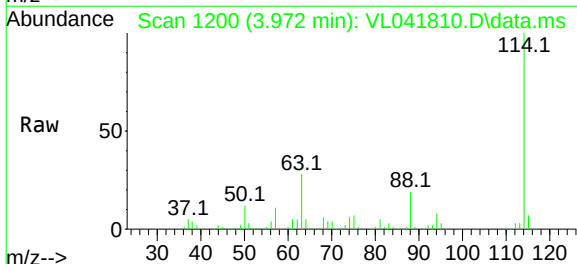
Tgt Ion:114 Resp: 177633

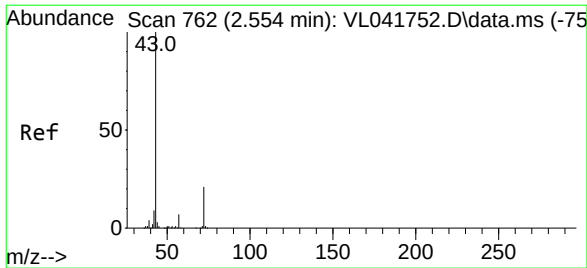
Ion Ratio Lower Upper

114 100

63 28.3 21.8 32.8

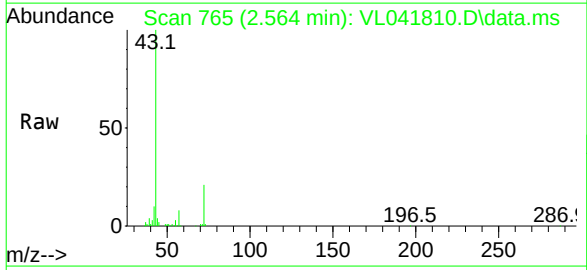
88 18.6 14.8 22.2





#34
2-Butanone
Concen: 2.058 ppbv
RT: 2.564 min Scan# 762
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

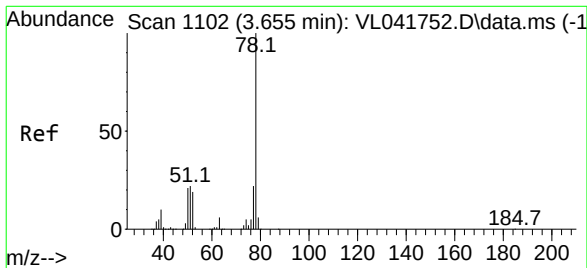
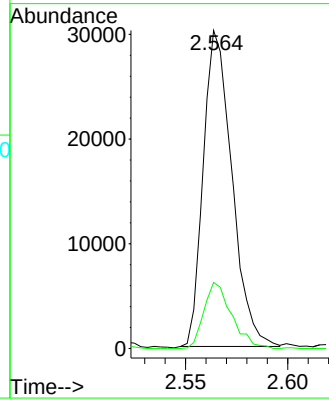
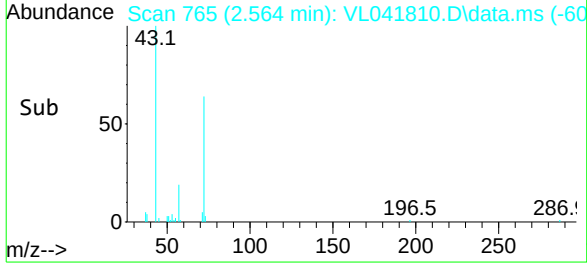
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 43 Resp: 29410
Ion Ratio Lower Upper
43 100
72 20.3 16.8 25.2

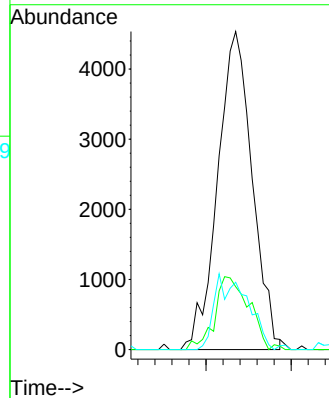
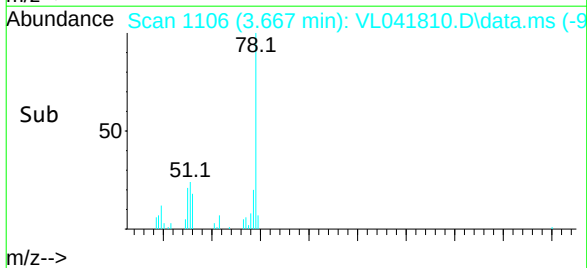
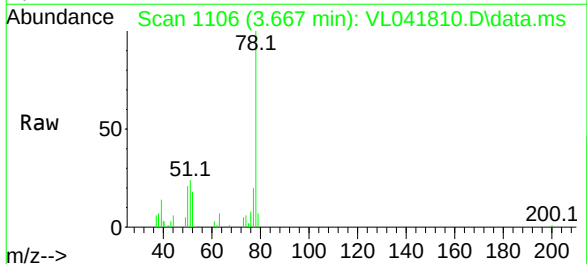
Manual Integrations
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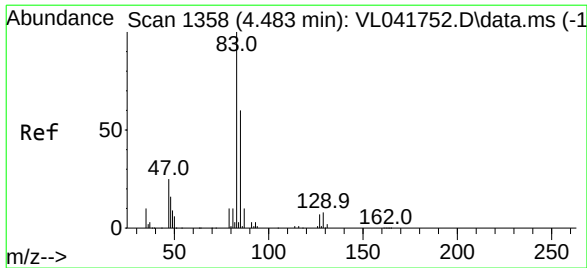
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#36
Benzene
Concen: 0.348 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

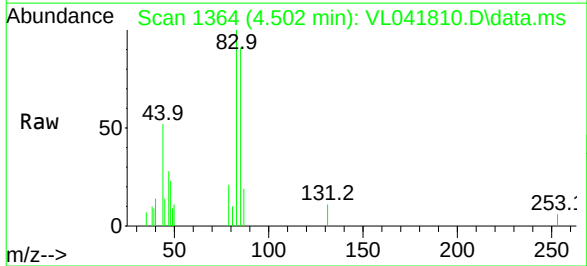
Tgt Ion: 78 Resp: 6389
Ion Ratio Lower Upper
78 100
77 19.8 17.8 26.6
50 21.2 17.2 25.8





#42
Bromodichloromethane
Concen: 0.129 ppbv
RT: 4.502 min Scan# 1358
Delta R.T. 0.019 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

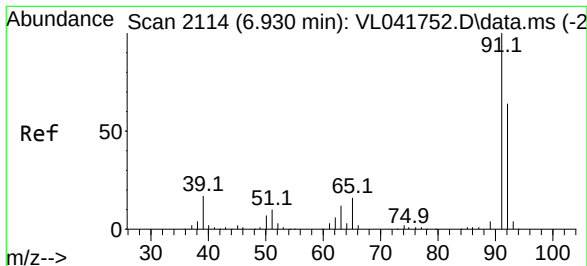
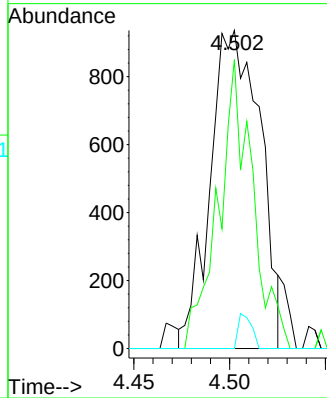
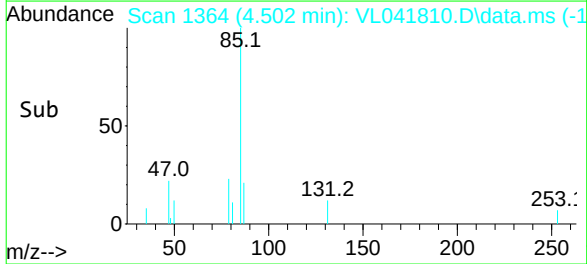
Instrument : MSVOA_1
ClientSampleId : C0AC1DL



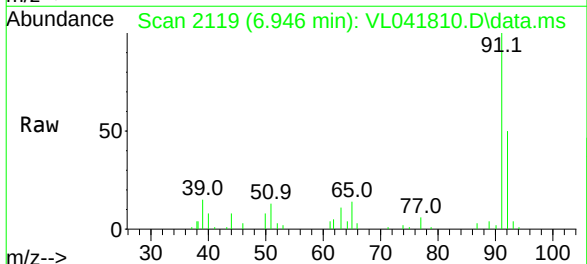
Tgt Ion: 83 Resp: 1698
Ion Ratio Lower Upper
83 100
85 96.6 48.0 72.0
127 0.0 5.8 8.8

Manual Integrations
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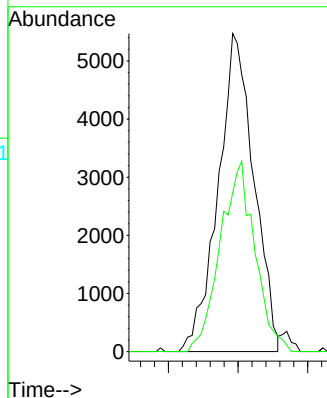
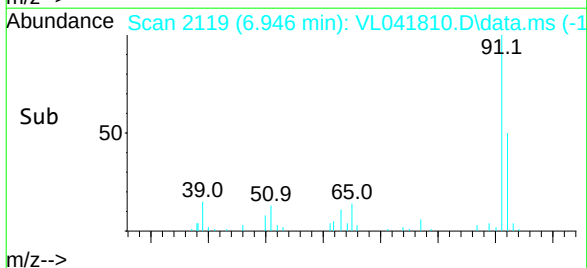
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

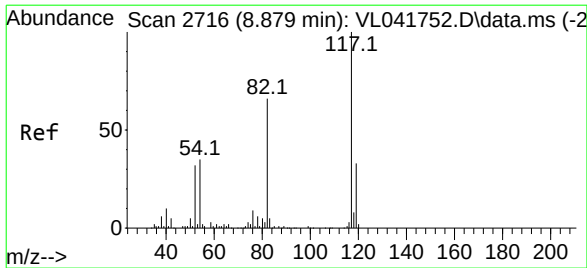


#53
Toluene
Concen: 0.468 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11



Tgt Ion: 91 Resp: 9756
Ion Ratio Lower Upper
91 100
92 57.8 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2716

Delta R.T. 0.013 min

Lab File: VL041810.D

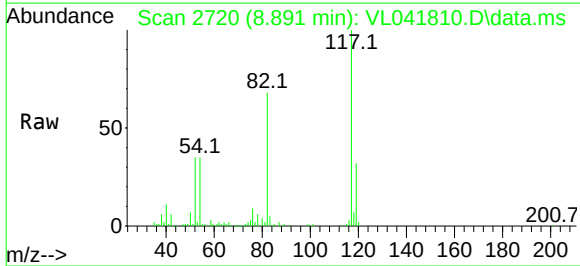
Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

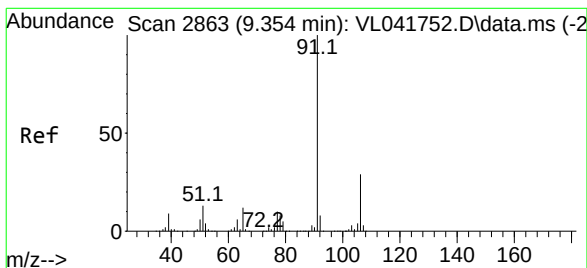
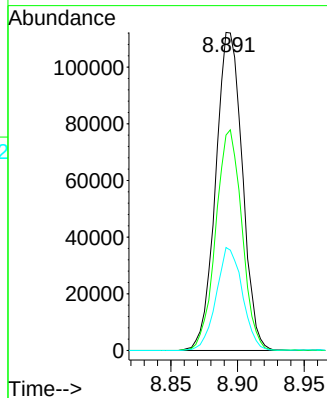
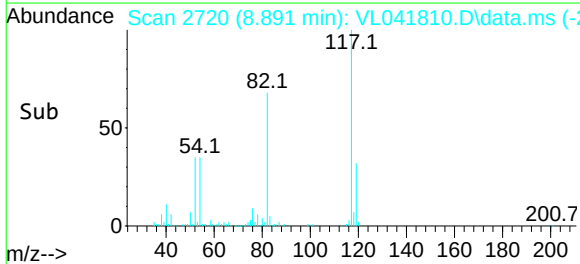


Tgt Ion:	117	Resp:	156162
Ion	Ratio	Lower	Upper
117	100		
82	68.2	53.8	80.8
119	31.8	26.7	40.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#58

Ethyl Benzene

Concen: 0.120 ppbv

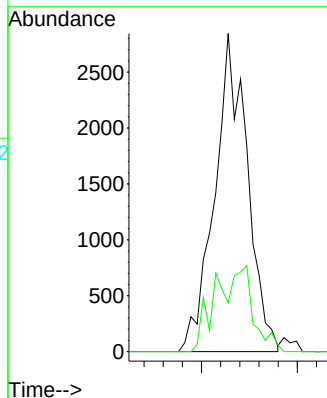
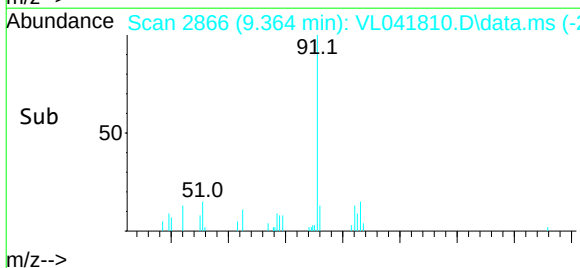
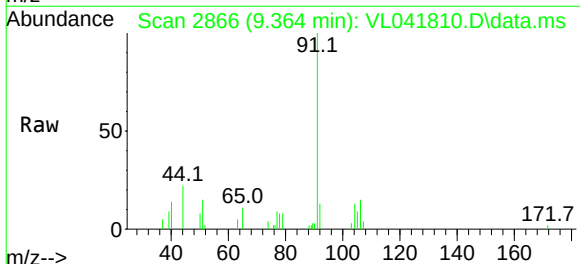
RT: 9.364 min Scan# 2866

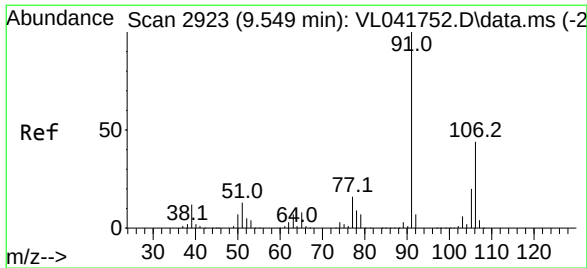
Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

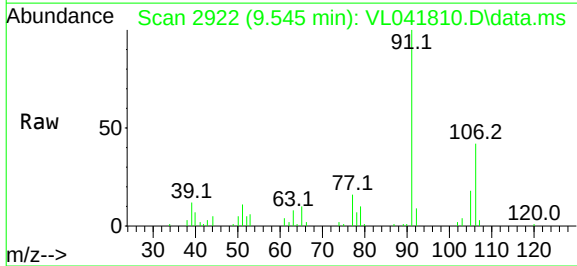
Tgt Ion:	91	Resp:	3369
Ion	Ratio	Lower	Upper
91	100		
106	15.4	23.5	35.3





#59
m/p-Xylene
Concen: 0.604 ppbv
RT: 9.545 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

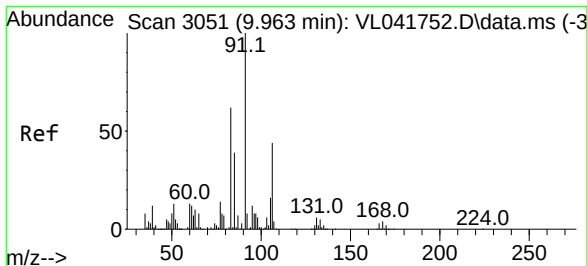
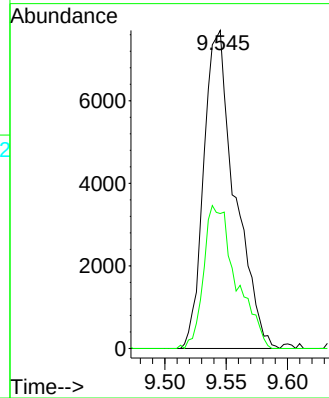
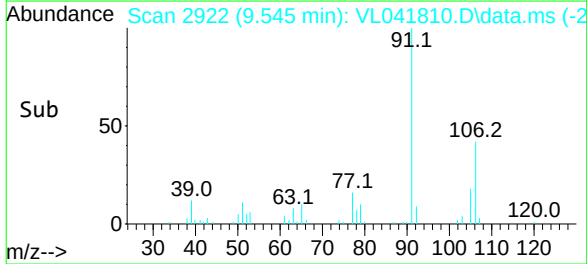
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 91 Resp: 13654
Ion Ratio Lower Upper
91 100
106 46.6 0.0 0.0#

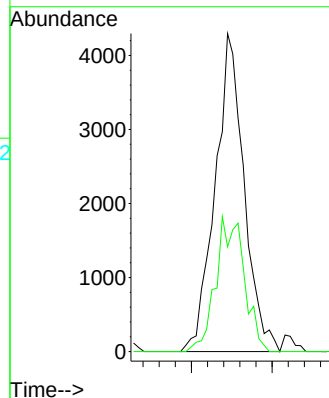
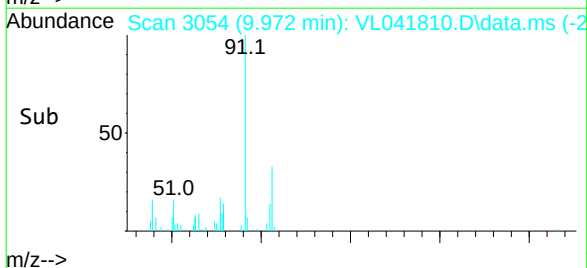
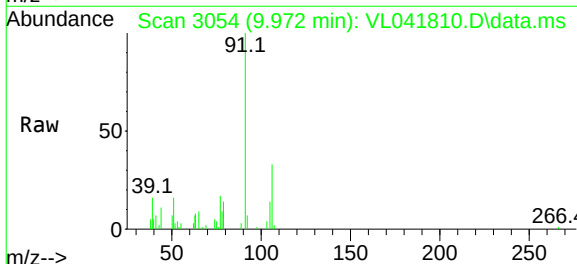
Manual Integrations
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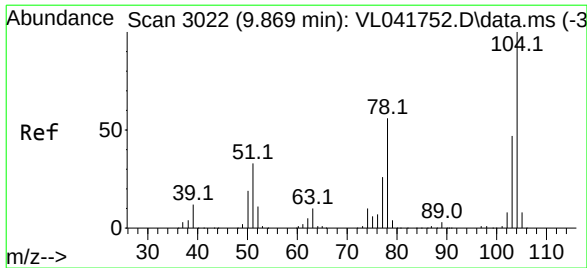
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#60
o-Xylene
Concen: 0.236 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 91 Resp: 5359
Ion Ratio Lower Upper
91 100
106 41.5 21.1 63.4





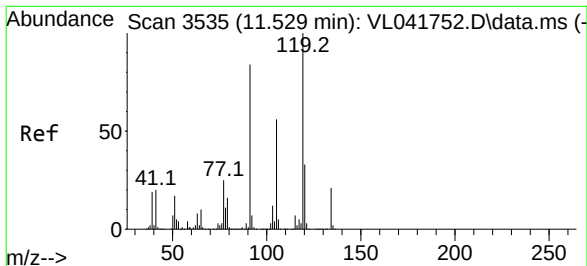
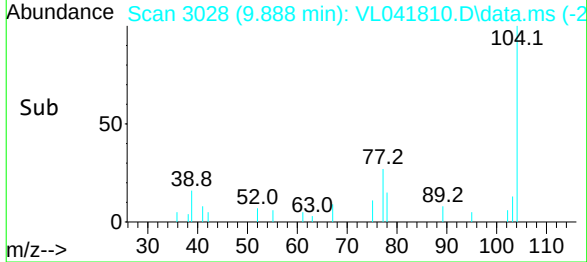
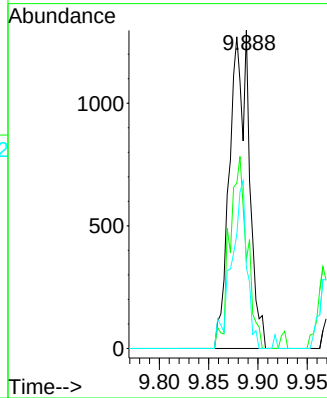
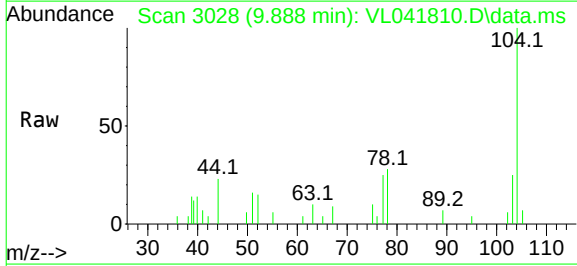
#61
Styrene
Concen: 0.181 ppbv m
RT: 9.888 min Scan# 3022
Delta R.T. 0.019 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

Tgt Ion:104 Resp: 1773
Ion Ratio Lower Upper
104 100
78 53.9 43.8 65.6
103 42.6 37.8 56.6

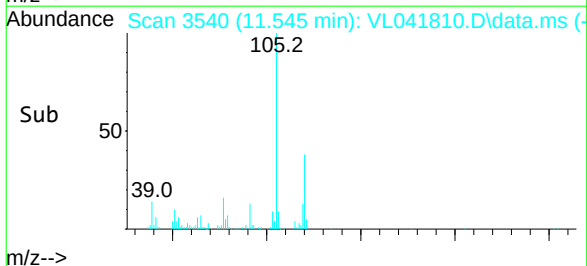
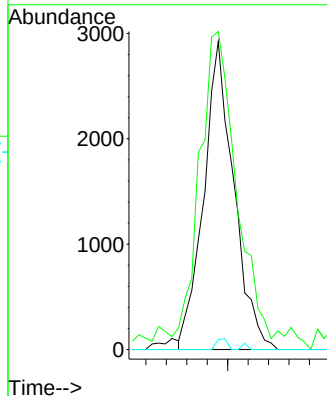
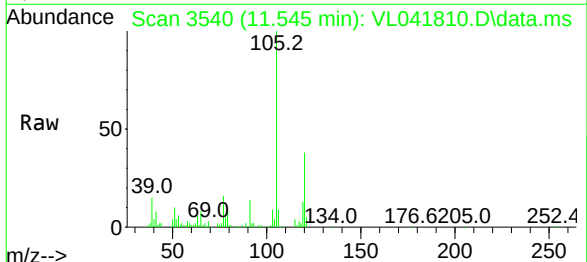
Manual Integrations
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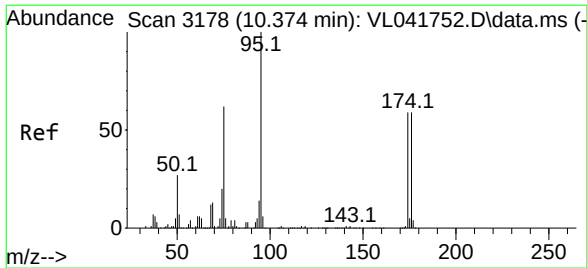
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#65
tert-Butylbenzene
Concen: 0.097 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.016 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion:119 Resp: 2994
Ion Ratio Lower Upper
119 100
91 130.8 67.0 100.4#
134 1.7 16.5 24.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.659 ppbv

RT: 10.387 min Scan# 3178

Delta R.T. 0.013 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

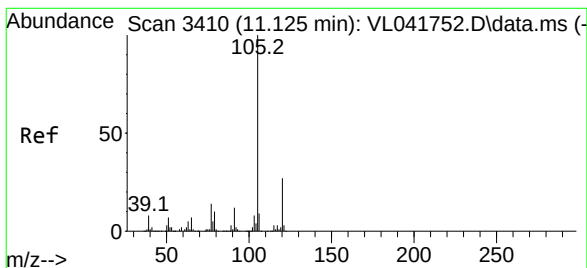
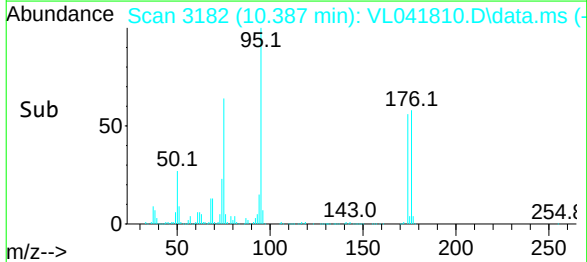
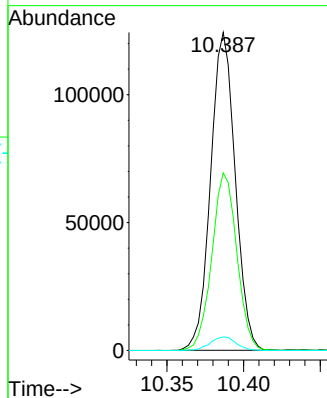
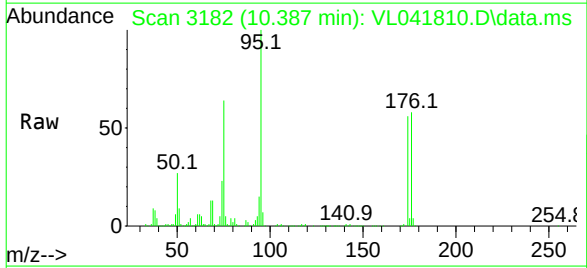
C0AC1DL

Tgt Ion:	95	Resp:	138713
Ion Ratio	Lower	Upper	
95	100		
174	56.8	47.6	71.4
175	4.5	3.7	5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#72

4-Ethyltoluene

Concen: 0.175 ppbv

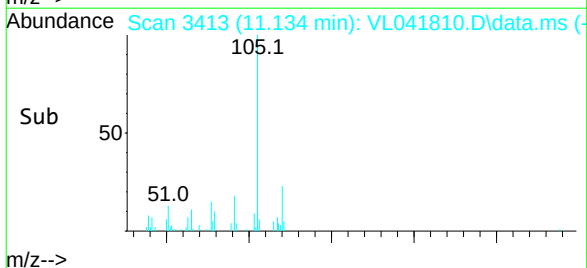
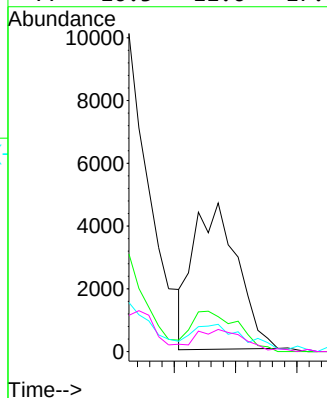
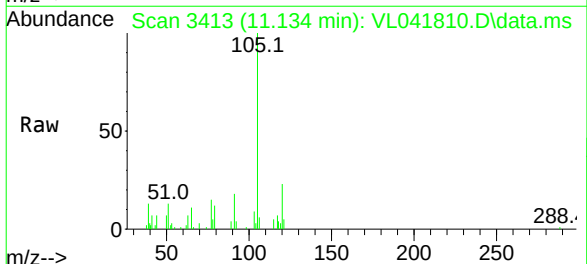
RT: 11.134 min Scan# 3413

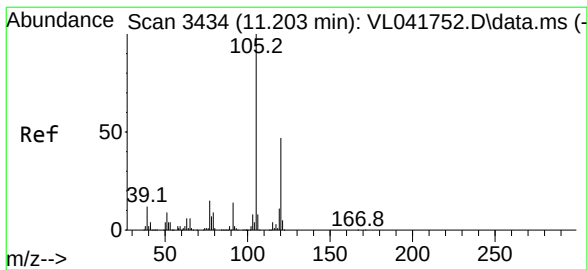
Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion:	105	Resp:	4673
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.3	34.9#
91	0.0	10.9	16.3#
77	16.3	11.6	17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.210 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

Tgt Ion:105 Resp: 4667

Ion Ratio Lower Upper

105 100

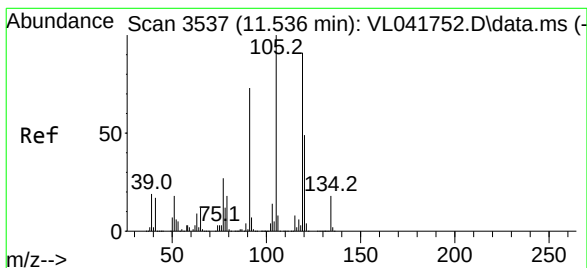
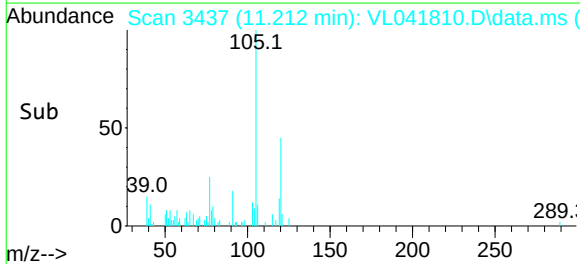
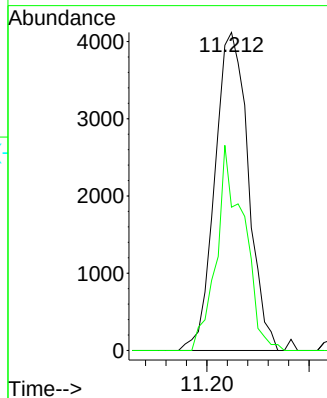
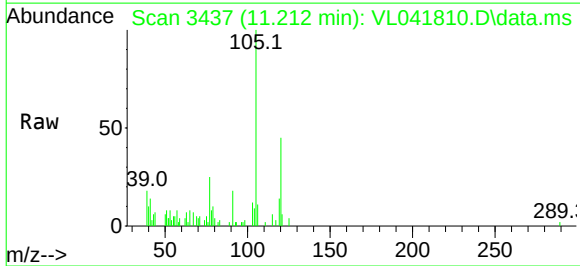
120 51.3 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.961 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion:105 Resp: 22943

Ion Ratio Lower Upper

105 100

120 37.7 39.0 58.4#

91 12.9 58.1 87.1#

77 16.2 21.8 32.8#

