

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121924\
 Data File : VL041825.D
 Acq On : 19 Dec 2024 17:41
 Operator : SY/MD
 Sample : P5296-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 20 01:46:25 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	2.787	49	83158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	189313	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	189944	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	155720	9.838	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	5086	0.344	ppbv	100
3) Chlorodifluoromethane	1.470	51	3205m	0.236	ppbv	
4) Chloromethane	1.528	50	1851	0.320	ppbv	97
9) Propene	1.483	41	5467	0.930	ppbv	88
11) Trichlorofluoromethane	1.877	101	3036	0.193	ppbv	97
13) Ethanol	1.719	45	118283	243.024	ppbv	93
15) Acetone	1.835	43	37575	2.322	ppbv	100
17) tert-Butyl alcohol	2.043	59	3747	0.233	ppbv #	93
19) Isopropyl Alcohol	1.884	45	13274	1.367	ppbv #	39
20) Methylene Chloride	2.062	84	22614	4.902	ppbv	93
26) Hexane	2.829	57	10691	0.936	ppbv #	45
29) Chloroform	2.848	83	14042	0.807	ppbv	93
34) 2-Butanone	2.560	43	6382	0.419	ppbv	100
35) Carbon Tetrachloride	3.761	117	605m	0.045	ppbv	
36) Benzene	3.658	78	3625m	0.185	ppbv	
41) Tetrahydrofuran	3.062	42	2523m	0.296	ppbv	
50) 4-Methyl-2-Pentanone	5.774	43	2526m	0.122	ppbv	
52) Tetrachloroethene	8.218	164	2301m	0.316	ppbv	
53) Toluene	6.933	91	49452	2.227	ppbv	99
58) Ethyl Benzene	9.351	91	12214	0.357	ppbv	96
59) m/p-Xylene	9.532	91	37742	1.373	ppbv #	100
60) o-Xylene	9.959	91	15054	0.546	ppbv	99
61) Styrene	9.866	104	4254	0.357	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	3328	0.115	ppbv #	68

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

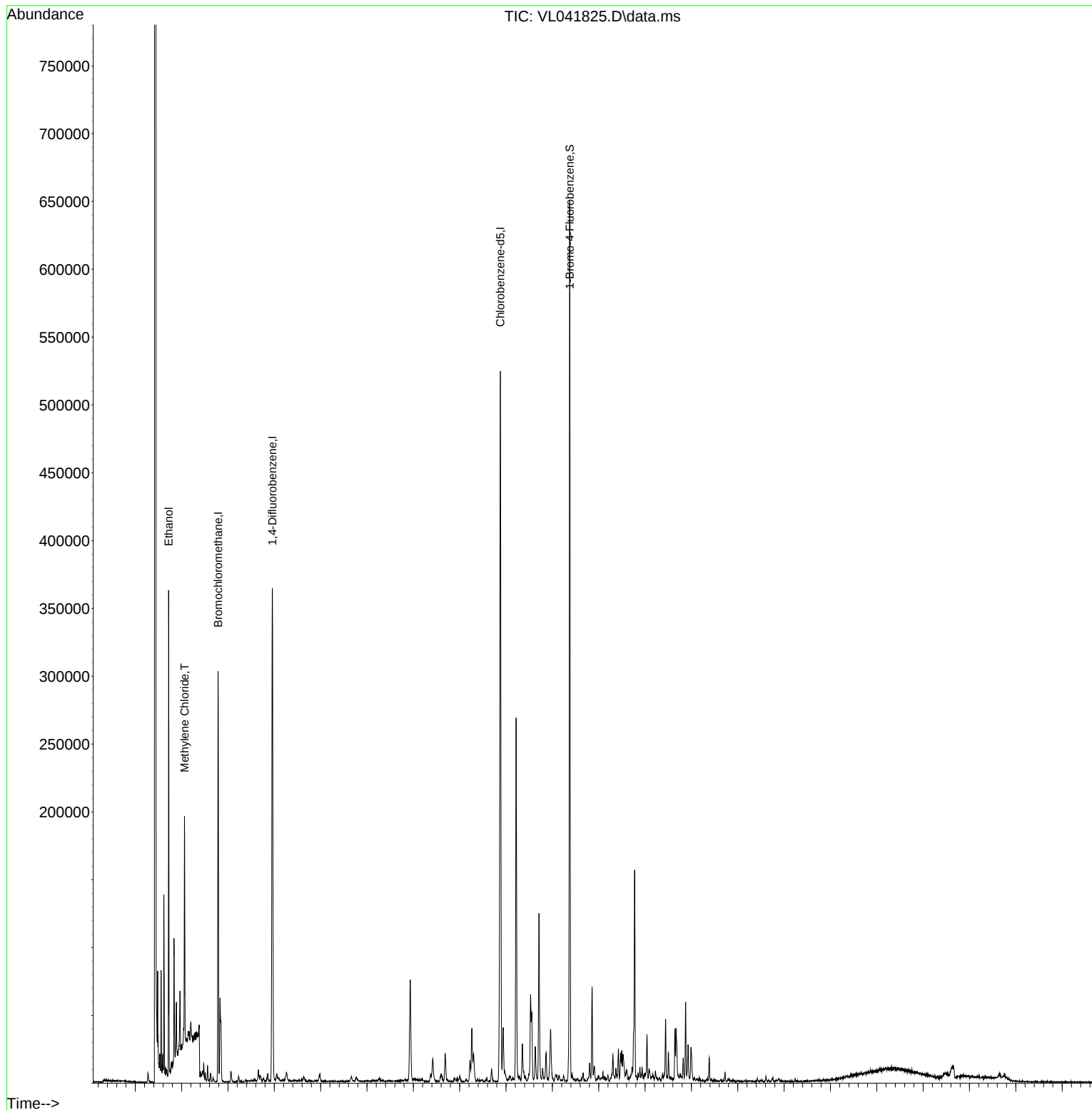
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Data File : VL041825.D
Acq On : 19 Dec 2024 17:41
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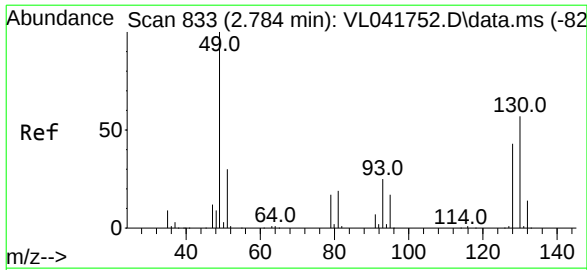
Instrument :
MSVOA_L
ClientSampleId :
C0AC3

Quant Time: Dec 20 01:46:25 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

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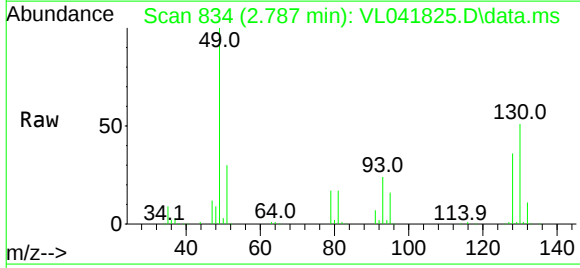
Reviewed By : Semsettin Yesilyurt 12/20/2024
Supervised By : Mahesh Dadoda 12/20/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

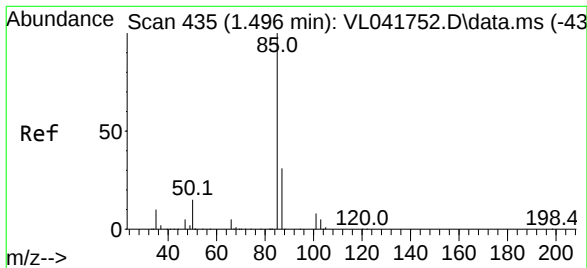
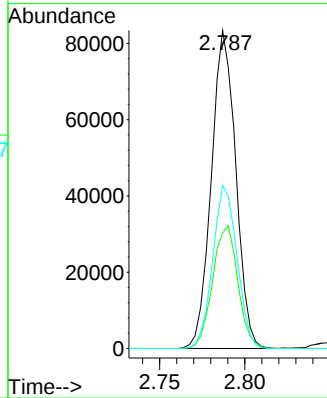
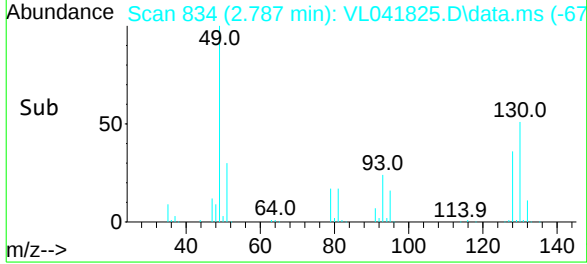
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



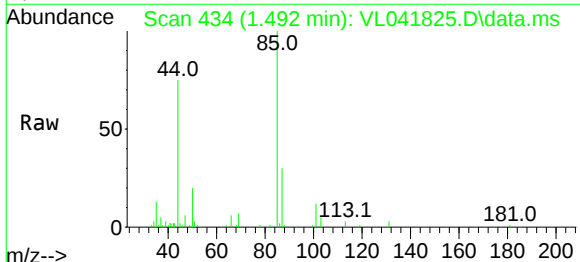
Tgt Ion: 49 Resp: 83158
Ion Ratio Lower Upper
49 100
128 39.9 21.6 64.6
130 51.1 28.3 85.0

Manual Integrations
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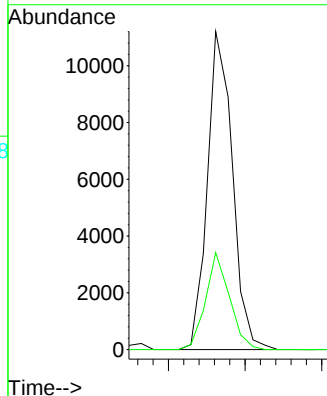
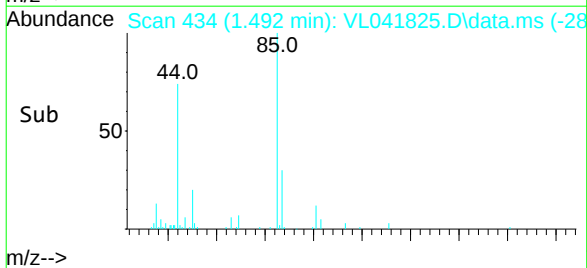
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

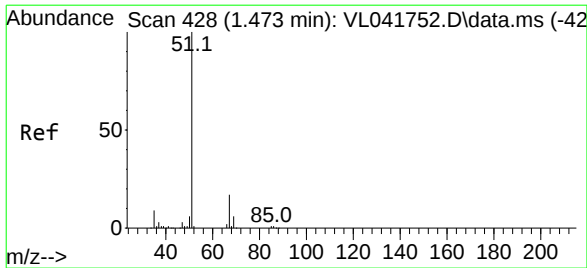


#2
Dichlorodifluoromethane
Concen: 0.344 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41



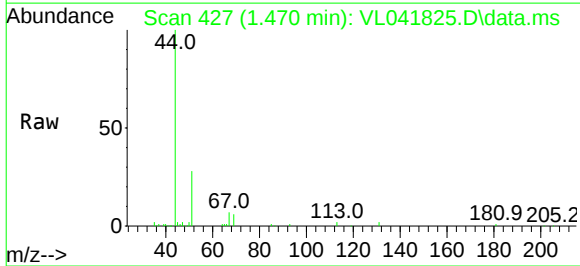
Tgt Ion: 85 Resp: 5086
Ion Ratio Lower Upper
85 100
87 30.5 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.236 ppbv m
RT: 1.470 min Scan# 428
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

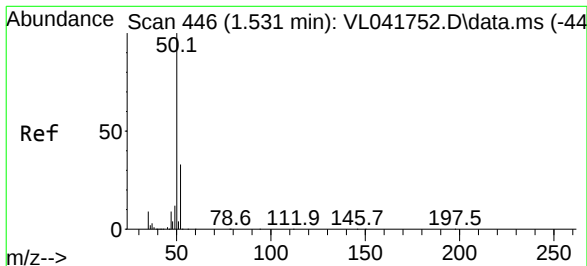
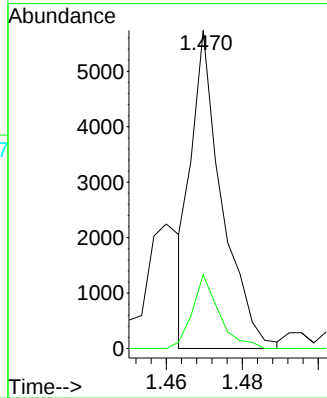
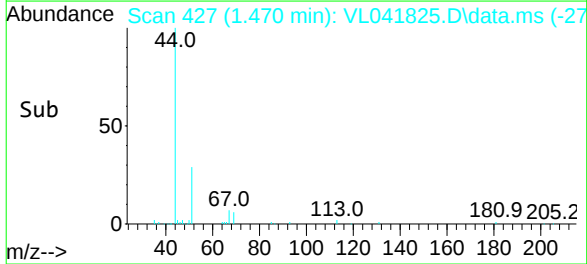
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



Tgt Ion: 51 Resp: 3205
Ion Ratio Lower Upper
51 100
67 3.1 15.0 22.4

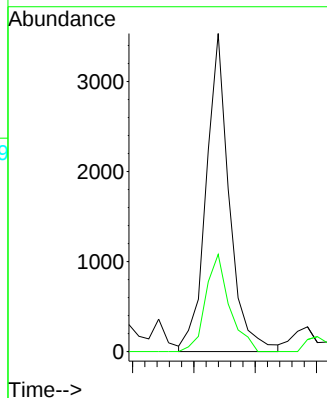
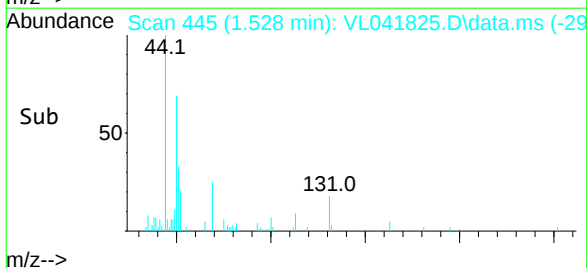
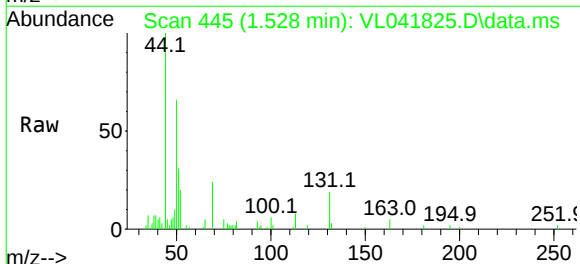
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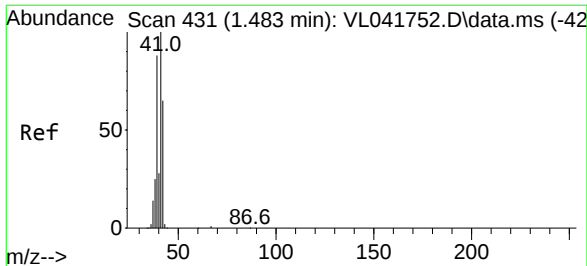
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 0.320 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Tgt Ion: 50 Resp: 1851
Ion Ratio Lower Upper
50 100
52 31.1 26.2 39.2





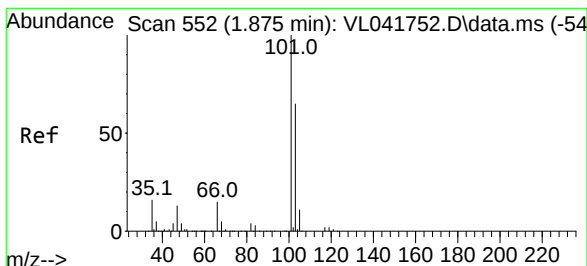
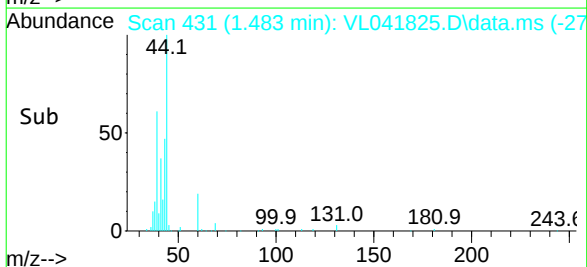
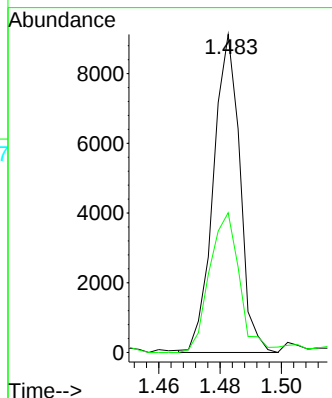
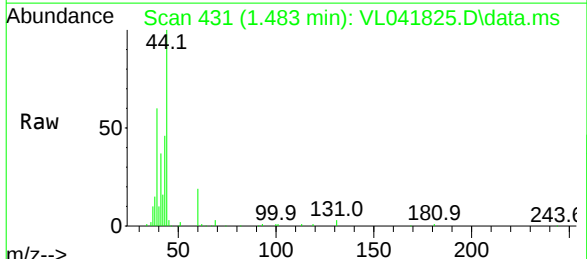
#9
Propene
Concen: 0.930 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Instrument :
MSVOA_L
ClientSampleId :
C0AC3

Tgt Ion: 41 Resp: 5467
Ion Ratio Lower Upper
41 100
42 56.4 52.4 78.6

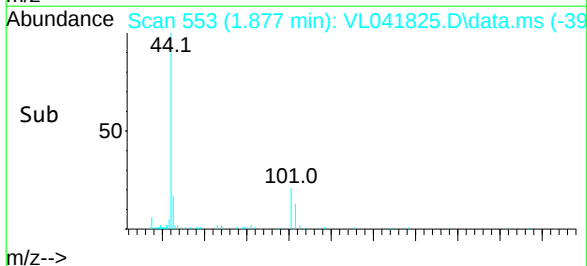
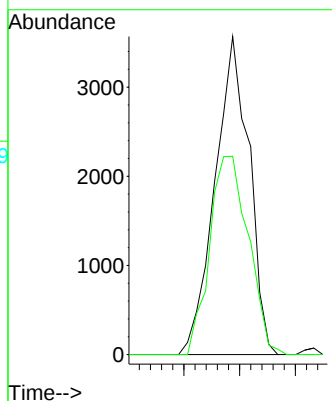
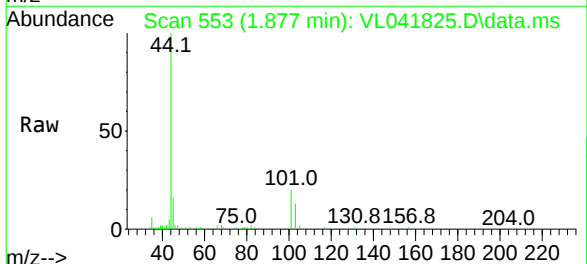
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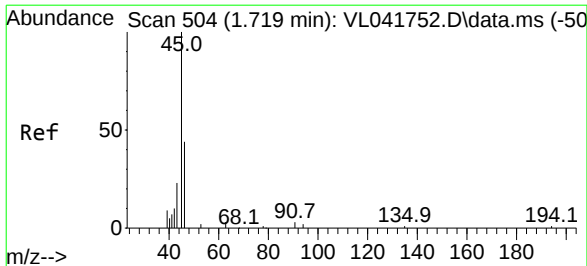
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#11
Trichlorofluoromethane
Concen: 0.193 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

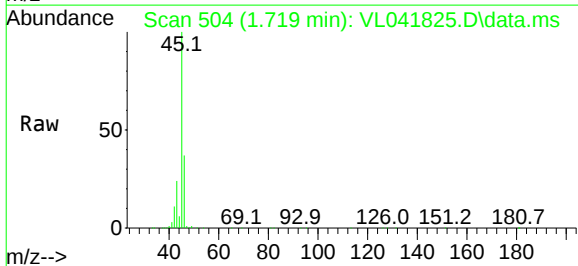
Tgt Ion:101 Resp: 3036
Ion Ratio Lower Upper
101 100
103 62.4 51.8 77.8





#13
Ethanol
Concen: 243.024 ppbv
RT: 1.719 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

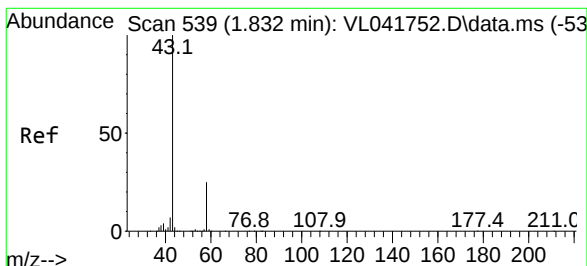
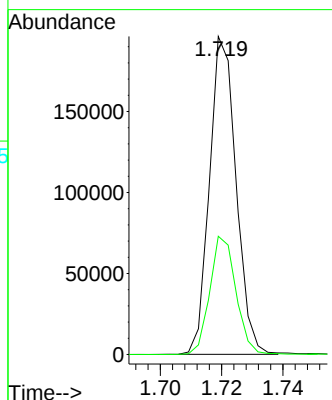
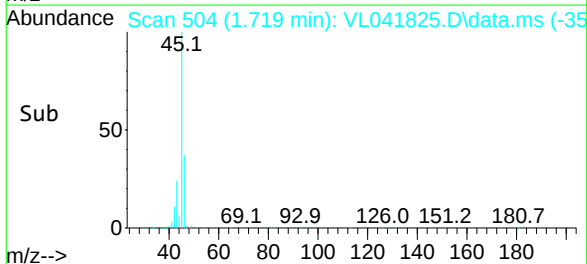
Instrument :
MSVOA_L
ClientSampleId :
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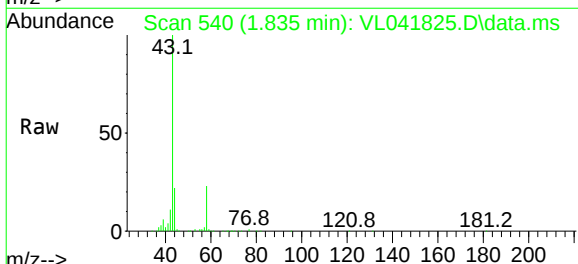
Tgt Ion: 45 Resp: 118283
Ion Ratio Lower Upper
45 100
46 36.8 16.4 65.8

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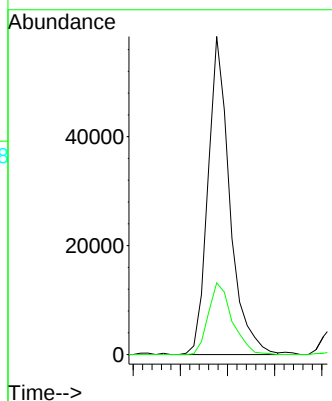
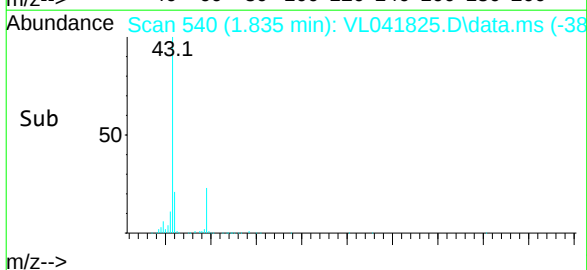
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

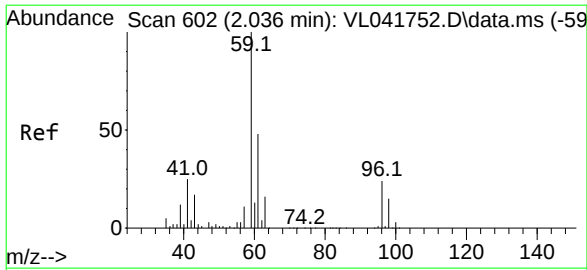


#15
Acetone
Concen: 2.322 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41



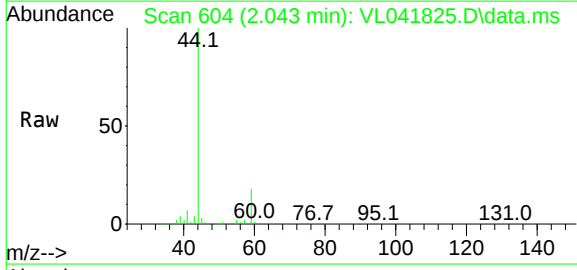
Tgt Ion: 43 Resp: 37575
Ion Ratio Lower Upper
43 100
58 24.6 19.7 29.5





#17
tert-Butyl alcohol
Concen: 0.233 ppbv
RT: 2.043 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

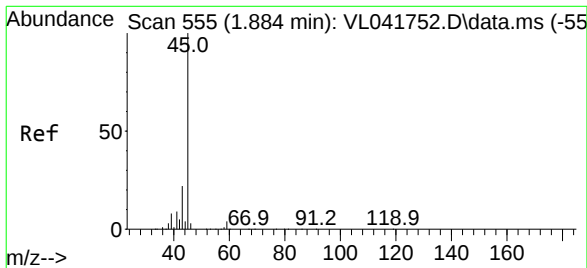
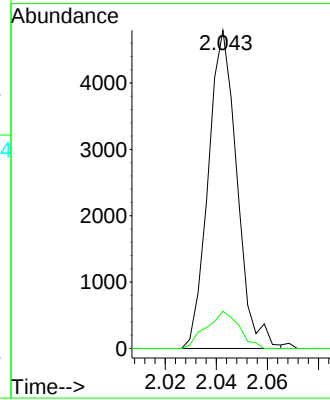
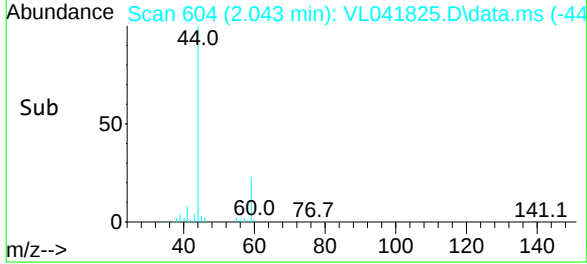
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



Tgt Ion: 59 Resp: 3747
Ion Ratio Lower Upper
59 100
57 13.4 8.6 13.0#

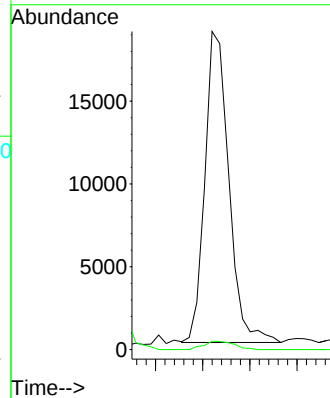
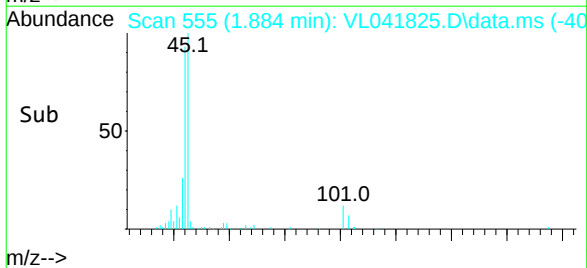
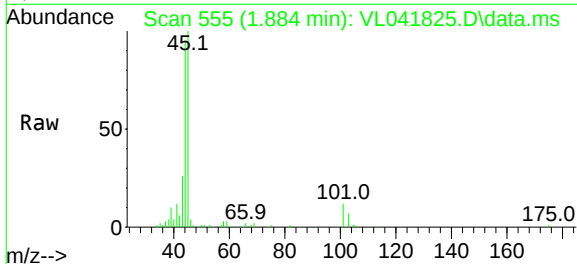
Manual Integrations
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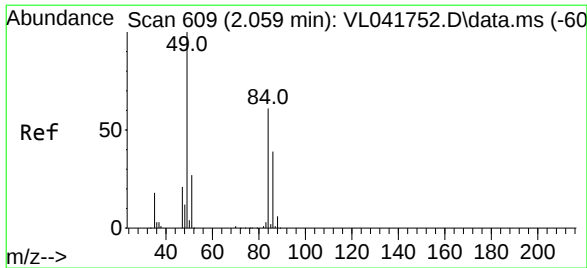
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#19
Isopropyl Alcohol
Concen: 1.367 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

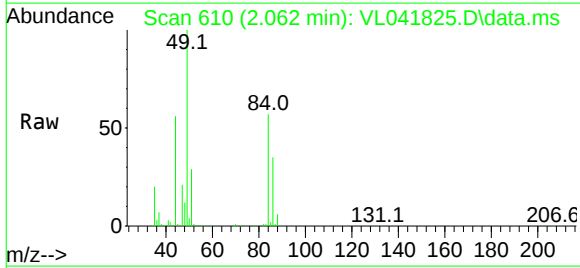
Tgt Ion: 45 Resp: 13274
Ion Ratio Lower Upper
45 100
58 3.4 33.3 49.9#





#20
Methylene Chloride
Concen: 4.902 ppbv
RT: 2.062 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

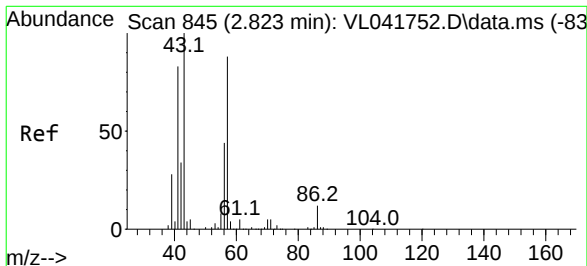
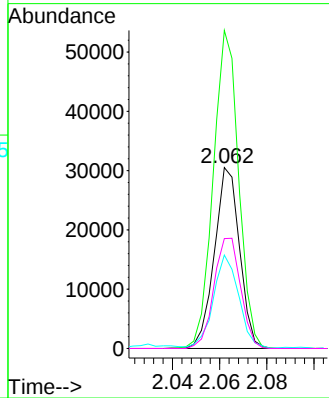
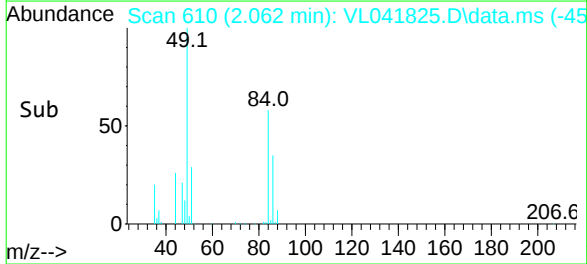
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



Tgt Ion:	84	Resp:	22614
Ion	Ratio	Lower	Upper
84	100		
49	175.8	132.6	198.8
51	51.2	37.6	56.4
86	60.7	51.4	77.0

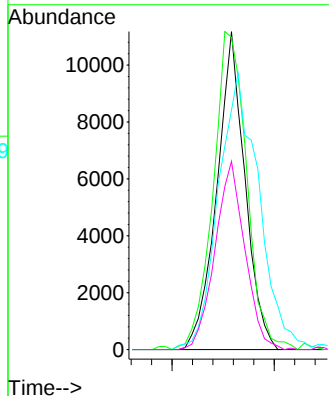
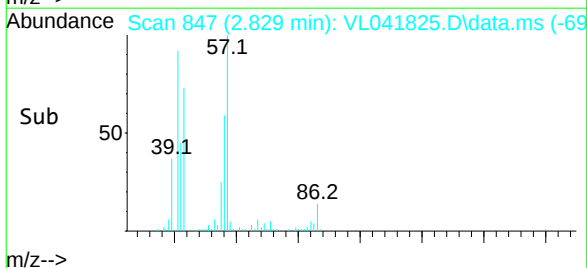
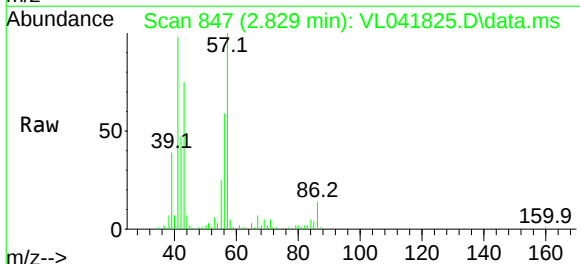
Manual Integrations
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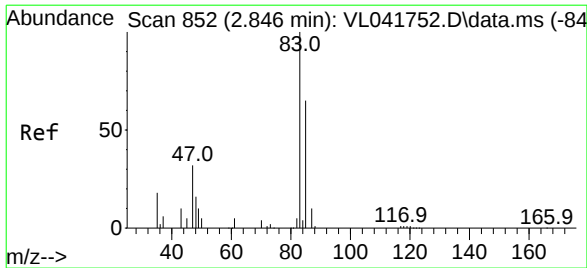
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#26
Hexane
Concen: 0.936 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Tgt Ion:	57	Resp:	10691
Ion	Ratio	Lower	Upper
57	100		
41	119.6	79.6	119.4#
43	125.2	211.0	316.6#
56	63.1	42.6	63.8





#29

Chloroform

Concen: 0.807 ppbv

RT: 2.848 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041825.D

Acq: 19 Dec 2024 17:41

Instrument :

MSVOA_L

ClientSampleId :

C0AC3

Tgt Ion: 83 Resp: 14042

Ion Ratio Lower Upper

83 100

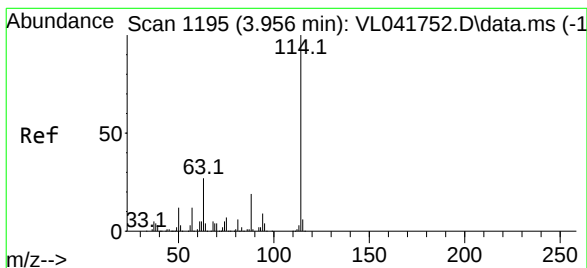
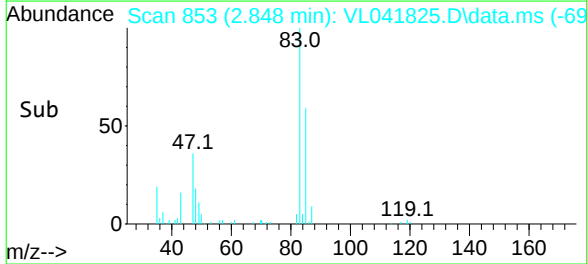
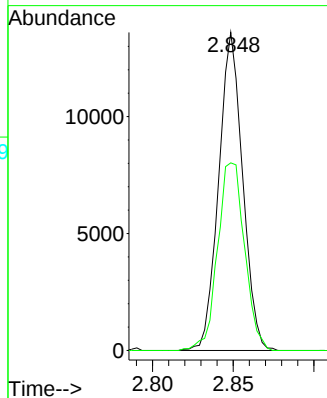
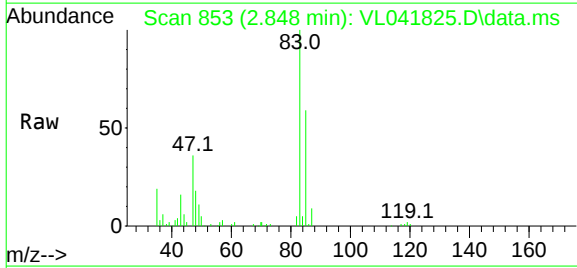
85 59.0 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL041825.D

Acq: 19 Dec 2024 17:41

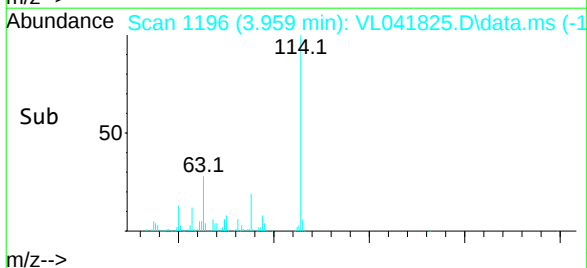
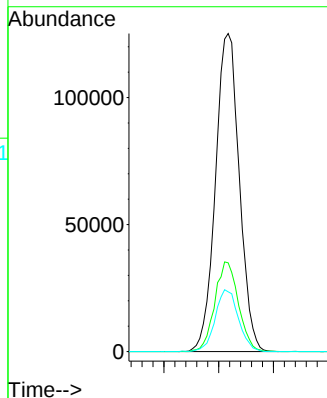
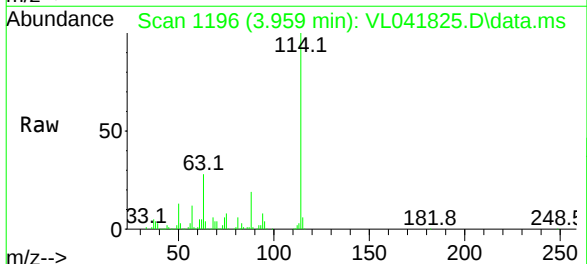
Tgt Ion:114 Resp: 189313

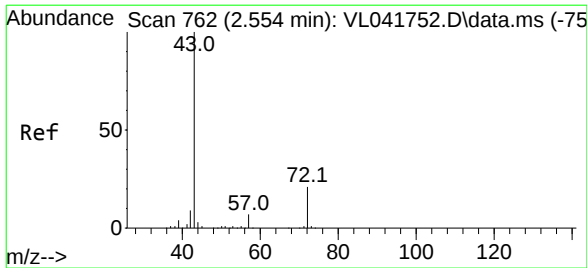
Ion Ratio Lower Upper

114 100

63 27.9 21.8 32.8

88 19.0 14.8 22.2





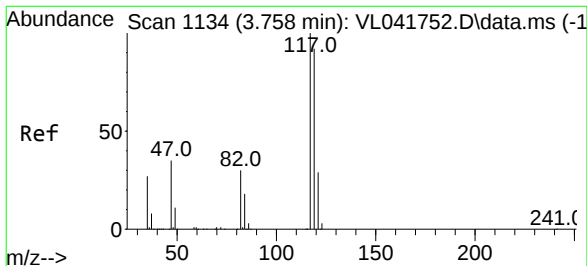
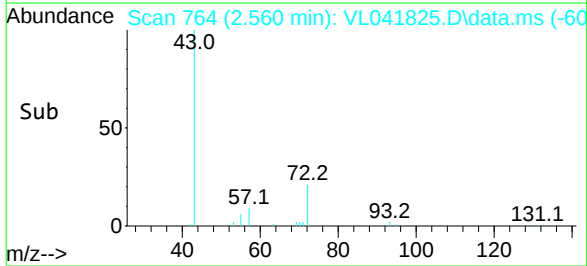
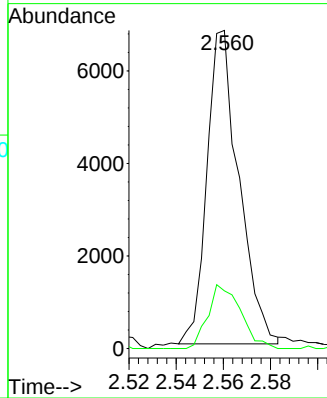
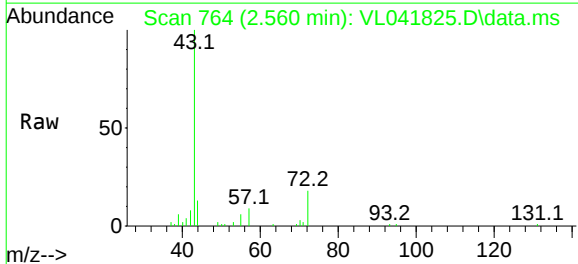
#34
2-Butanone
Concen: 0.419 ppbv
RT: 2.560 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Instrument :
MSVOA_L
ClientSampleId :
C0AC3

Tgt Ion: 43 Resp: 6382
Ion Ratio Lower Upper
43 100
72 21.0 16.8 25.2

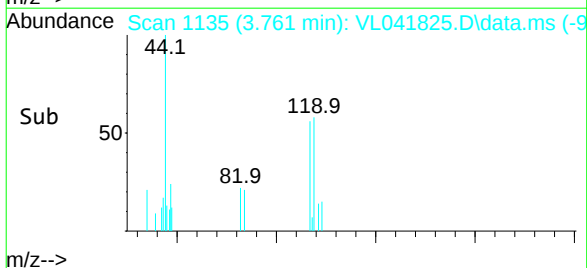
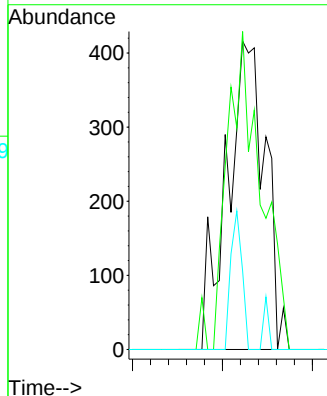
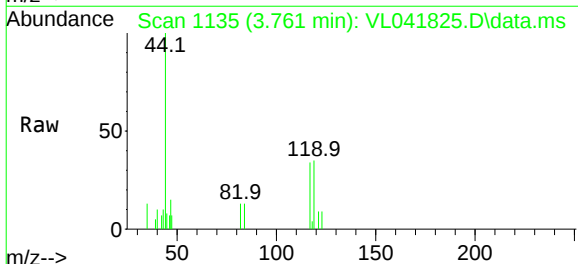
Manual Integrations
APPROVED

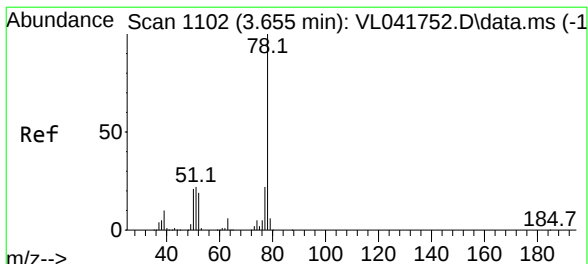
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#35
Carbon Tetrachloride
Concen: 0.045 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Tgt Ion:117 Resp: 605
Ion Ratio Lower Upper
117 100
119 103.1 73.7 110.5
121 25.5 23.0 34.4





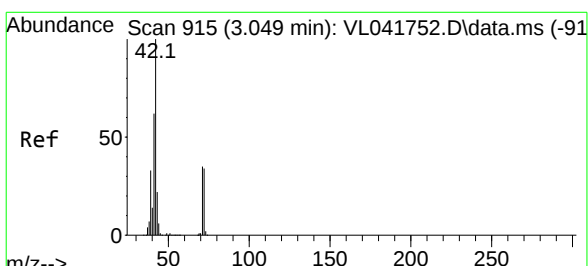
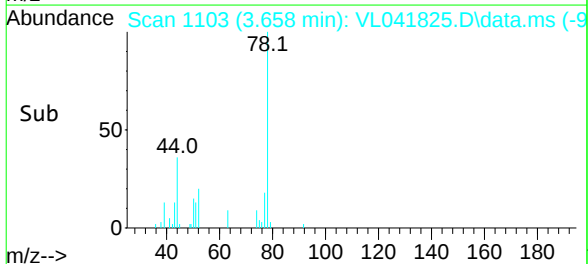
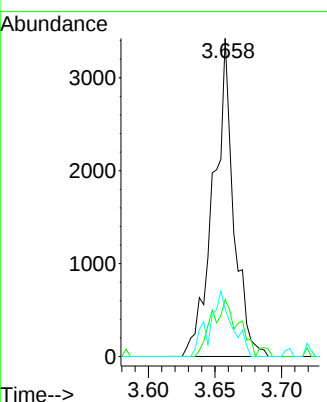
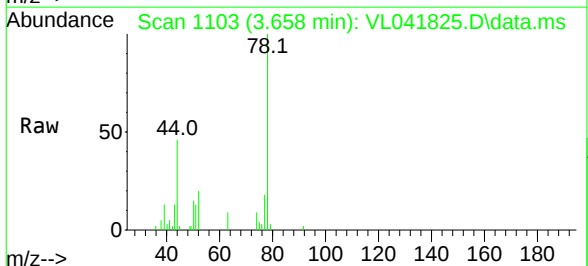
#36
Benzene
Concen: 0.185 ppbv m
RT: 3.658 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Instrument : MSVOA_L
ClientSampleId : C0AC3

Tgt Ion: 78	Resp: 3625
Ion Ratio	Lower Upper
78	100
77	17.9 17.8 26.6
50	14.9 17.2 25.8

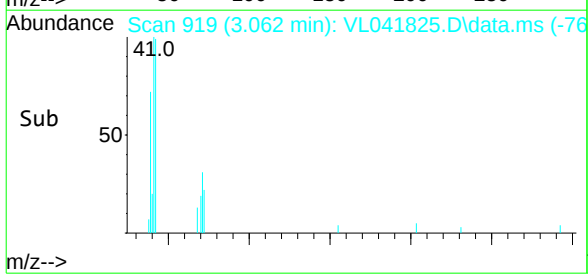
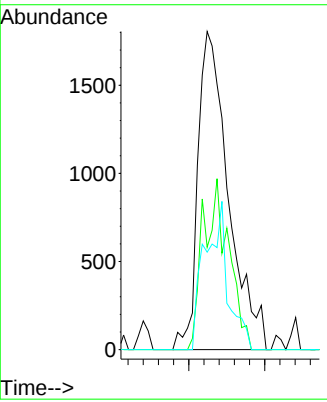
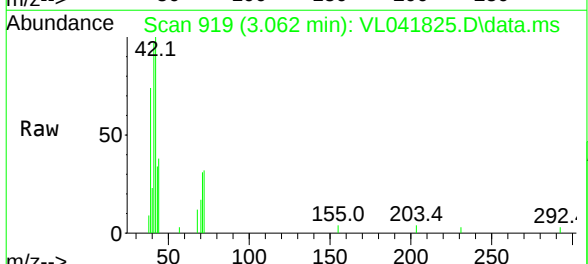
Manual Integrations
APPROVED

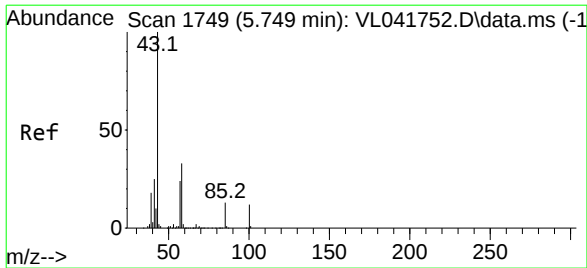
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#41
Tetrahydrofuran
Concen: 0.296 ppbv m
RT: 3.062 min Scan# 919
Delta R.T. 0.013 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

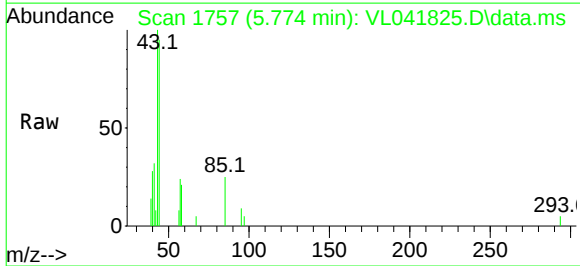
Tgt Ion: 42	Resp: 2523
Ion Ratio	Lower Upper
42	100
72	45.0 29.1 43.7
71	34.9 28.4 42.6





#50
4-Methyl-2-Pentanone
Concen: 0.122 ppbv m
RT: 5.774 min Scan# 1749
Delta R.T. 0.026 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

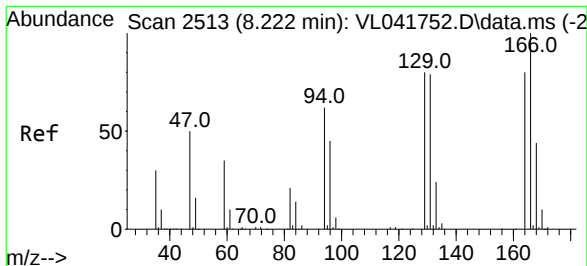
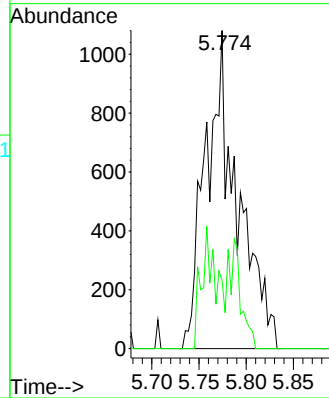
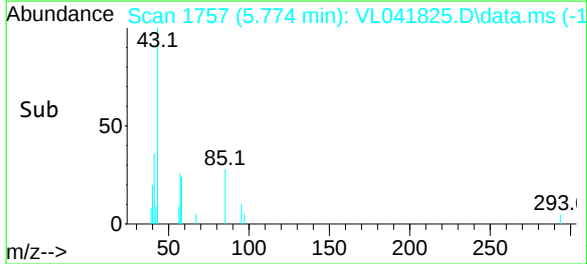
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



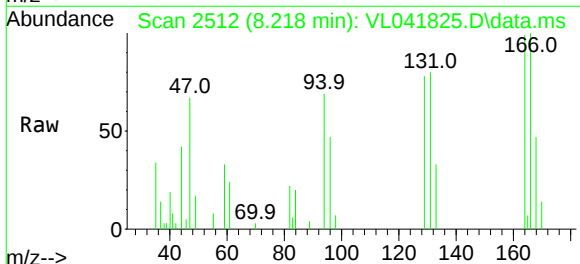
Tgt Ion: 43 Resp: 2526
Ion Ratio Lower Upper
43 100
58 18.7 26.8 40.2#

Manual Integrations
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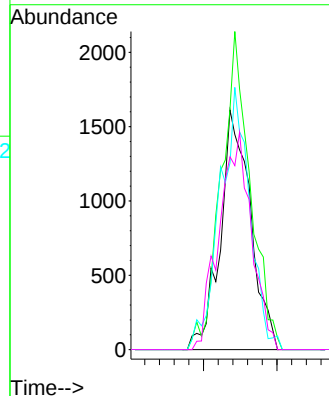
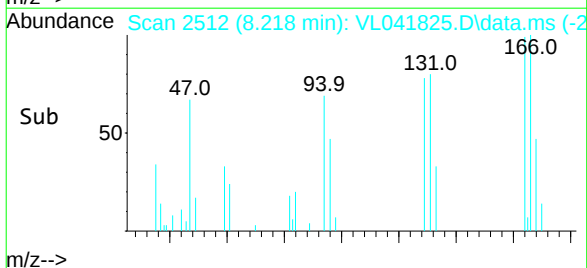
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

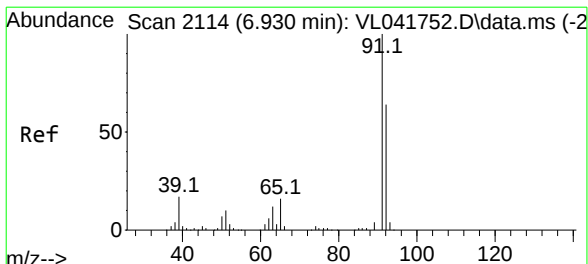


#52
Tetrachloroethene
Concen: 0.316 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41



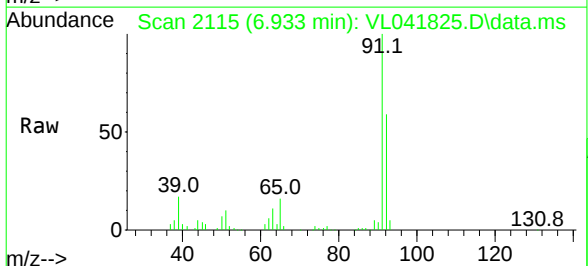
Tgt Ion:164 Resp: 2301
Ion Ratio Lower Upper
164 100
166 100.6 99.8 149.6
129 78.0 79.6 119.4#
131 80.5 78.6 117.8





#53
Toluene
Concen: 2.227 ppbv
RT: 6.933 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Instrument : MSVOA_L
ClientSampleId : C0AC3

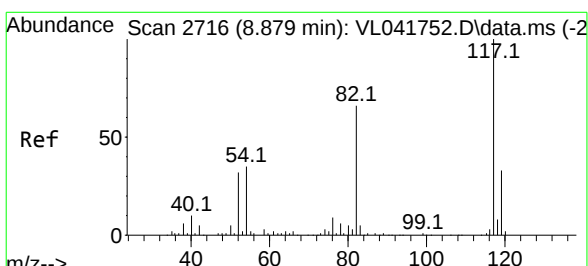
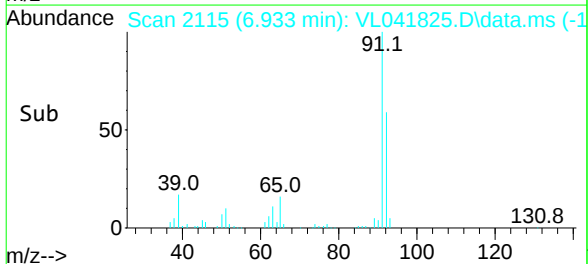
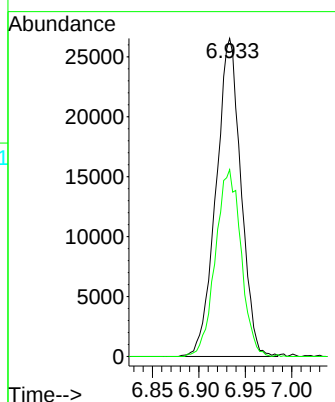


Tgt Ion: 91 Resp: 49452

Ion	Ratio	Lower	Upper
91	100		
92	60.3	47.9	71.9

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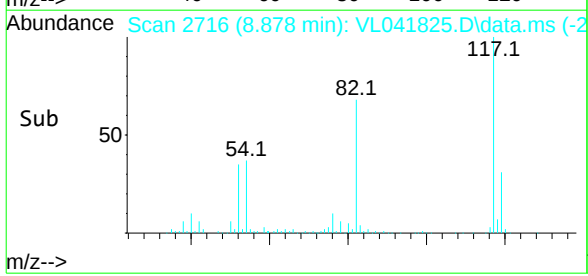
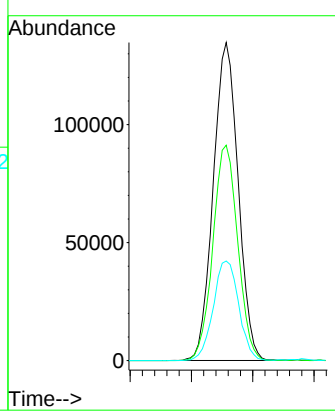
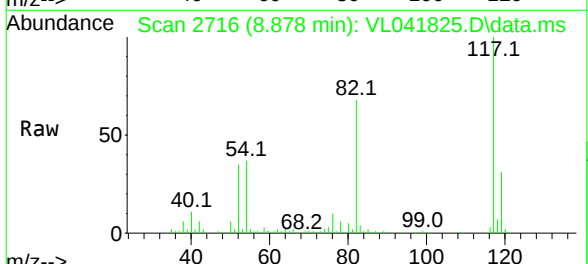
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

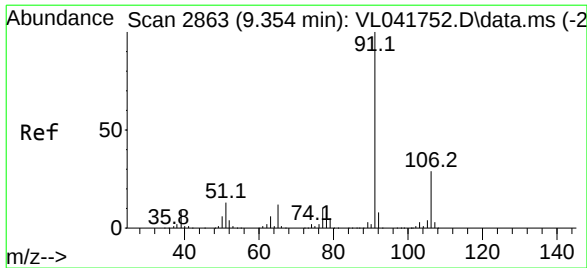


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.000 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Tgt Ion:117 Resp: 189944

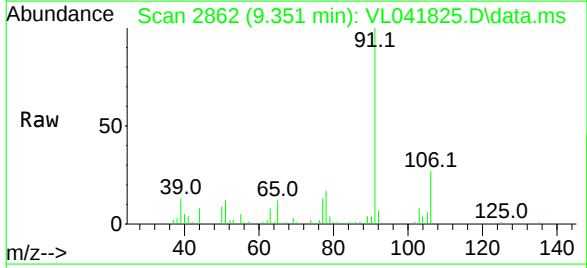
Ion	Ratio	Lower	Upper
117	100		
82	67.8	53.8	80.8
119	32.2	26.7	40.1





#58
Ethyl Benzene
Concen: 0.357 ppbv
RT: 9.351 min Scan# 2863
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

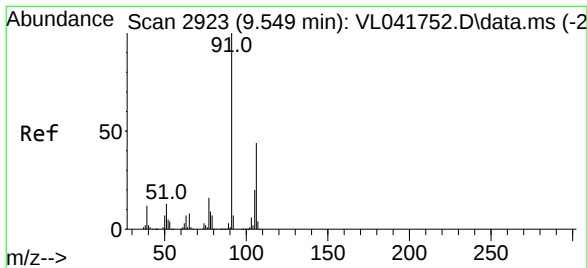
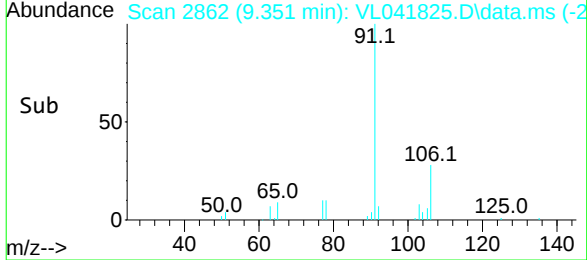
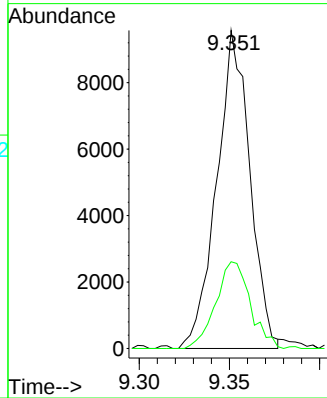
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



Tgt Ion: 91 Resp: 12214
Ion Ratio Lower Upper
91 100
106 27.3 23.5 35.3

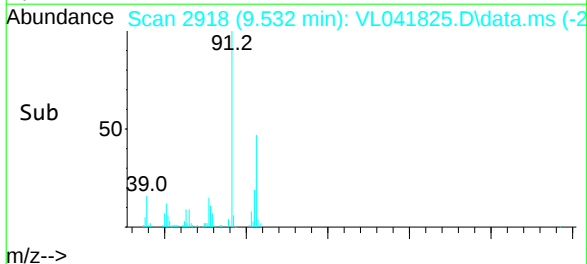
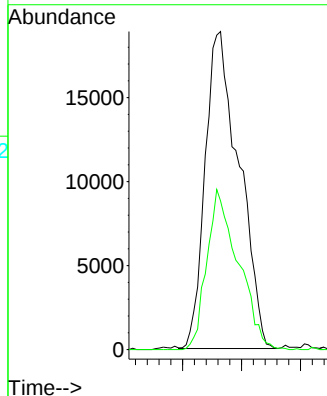
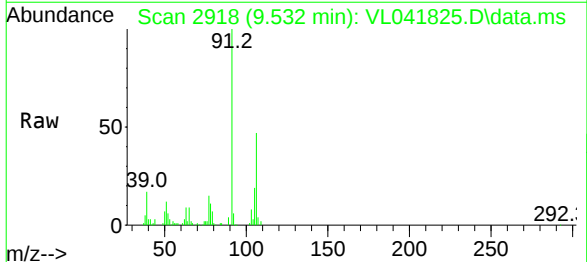
Manual Integrations
APPROVED

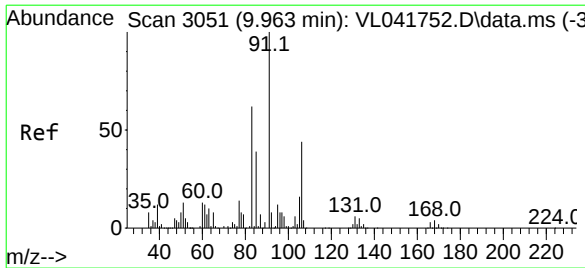
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#59
m/p-Xylene
Concen: 1.373 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

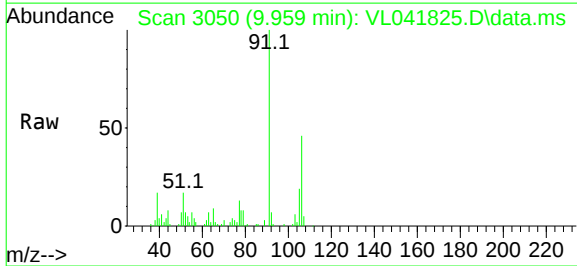
Tgt Ion: 91 Resp: 37742
Ion Ratio Lower Upper
91 100
106 46.9 0.0 0.0#





#60
o-Xylene
Concen: 0.546 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

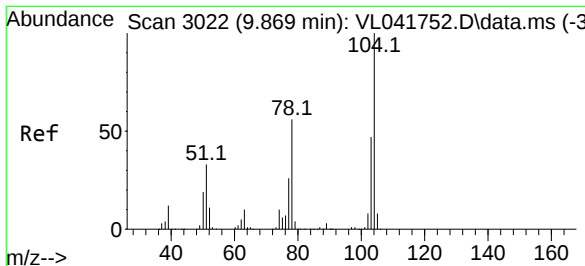
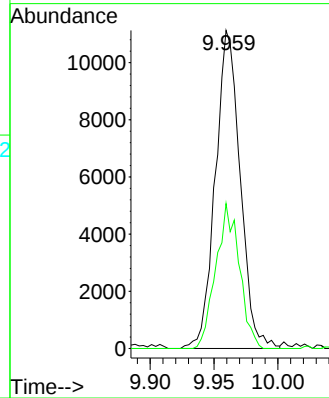
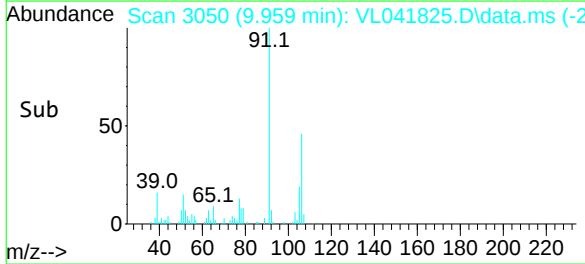
Instrument :
MSVOA_L
ClientSampleId :
C0AC3



Tgt Ion: 91 Resp: 15054
Ion Ratio Lower Upper
91 100
106 43.1 21.1 63.4

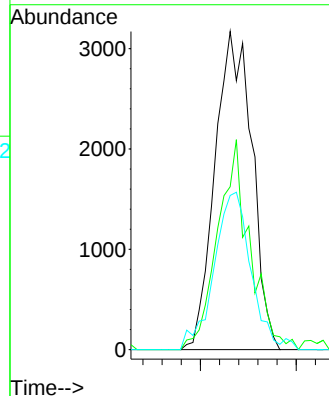
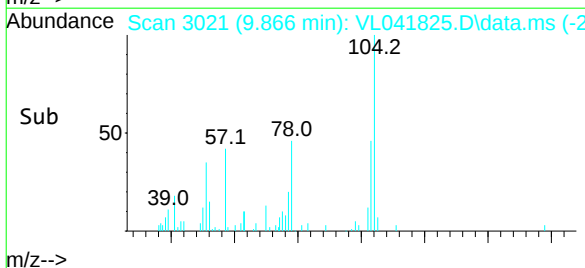
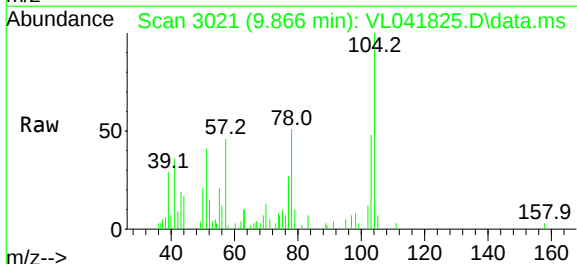
Manual Integrations
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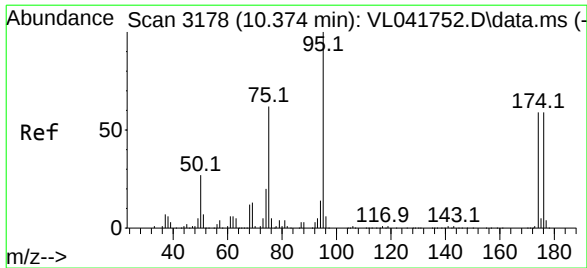
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#61
Styrene
Concen: 0.357 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.004 min
Lab File: VL041825.D
Acq: 19 Dec 2024 17:41

Tgt Ion:104 Resp: 4254
Ion Ratio Lower Upper
104 100
78 58.9 43.8 65.6
103 49.4 37.8 56.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.838 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.000 min

Lab File: VL041825.D

Acq: 19 Dec 2024 17:41

Instrument :

MSVOA_L

ClientSampleId :

C0AC3

Tgt Ion: 95 Resp: 155720

Ion Ratio Lower Upper

95 100

174 56.6 47.6 71.4

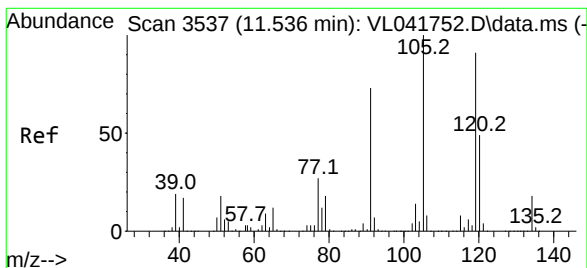
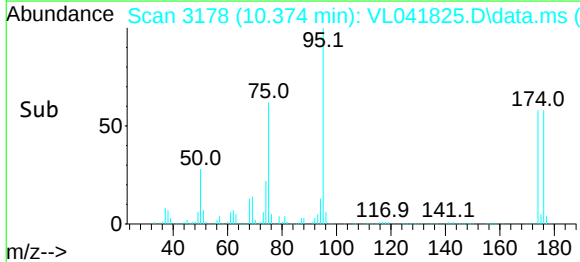
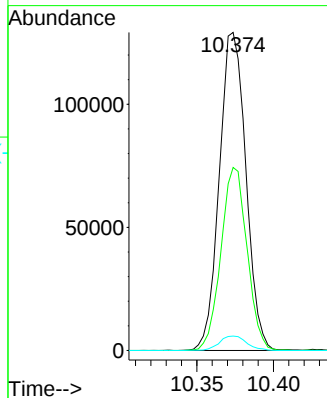
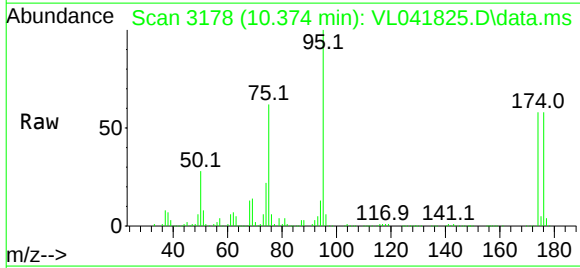
175 4.7 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.115 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041825.D

Acq: 19 Dec 2024 17:41

Tgt Ion:105 Resp: 3328

Ion Ratio Lower Upper

105 100

120 34.3 39.0 58.4#

91 30.3 58.1 87.1#

77 26.5 21.8 32.8

