

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040523\
 Data File : VL040314.D
 Acq On : 5 Apr 2023 12:58
 Operator : SY/MD
 Sample : 02168-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023
 Supervised By :Mahesh Dadoda 04/06/2023

Quant Time: Apr 06 07:50:39 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

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

QLast Update : Wed Mar 15 16:14:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	1036357	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.632	114	2644358	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2634413	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.761 95 2217213 10.050 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.700	85	22097	0.109	ppbv #	88
3) Chlorodifluoromethane	2.645	51	9501m	0.073	ppbv	
9) Propene	2.845	41	325894	6.528	ppbv	96
10) Heptane	7.561	43	1901057	15.831	ppbv	98
13) Ethanol	3.218	45	70921	19.369	ppbv	93
15) Acetone	3.436	43	4023273	31.888	ppbv	97
17) tert-Butyl alcohol	3.864	59	26444	0.221	ppbv #	72
19) Isopropyl Alcohol	3.555	45	67591	1.118	ppbv #	90
20) Methylene Chloride	3.909	84	74574	1.405	ppbv	98
23) Vinyl Acetate	4.632	43	1236991m	35.241	ppbv	
25) Ethyl Acetate	5.189	43	1282887	5.431	ppbv #	76
26) Hexane	5.189	57	1895177	19.546	ppbv #	36
27) Carbon Disulfide	4.099	76	63031	0.465	ppbv	98
29) Chloroform	5.250	83	29890m	0.175	ppbv	
34) 2-Butanone	4.767	43	187944	1.440	ppbv	97
36) Benzene	6.346	78	109083	0.541	ppbv	94
50) 4-Methyl-2-Pentanone	8.172	43	34225m	0.169	ppbv	
52) Tetrachloroethene	10.603	164	4078m	0.067	ppbv	
53) Toluene	9.201	91	187413	0.887	ppbv	99
58) Ethyl Benzene	12.076	91	53850	0.180	ppbv	98
59) m/p-Xylene	12.327	91	76651m	0.279	ppbv	
60) o-Xylene	13.044	91	38252m	0.146	ppbv	
73) 1,3,5-Trimethylbenzene	15.339	105	25733m	0.099	ppbv	
74) 1,2,4-Trimethylbenzene	16.088	105	76682	0.258	ppbv #	66

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

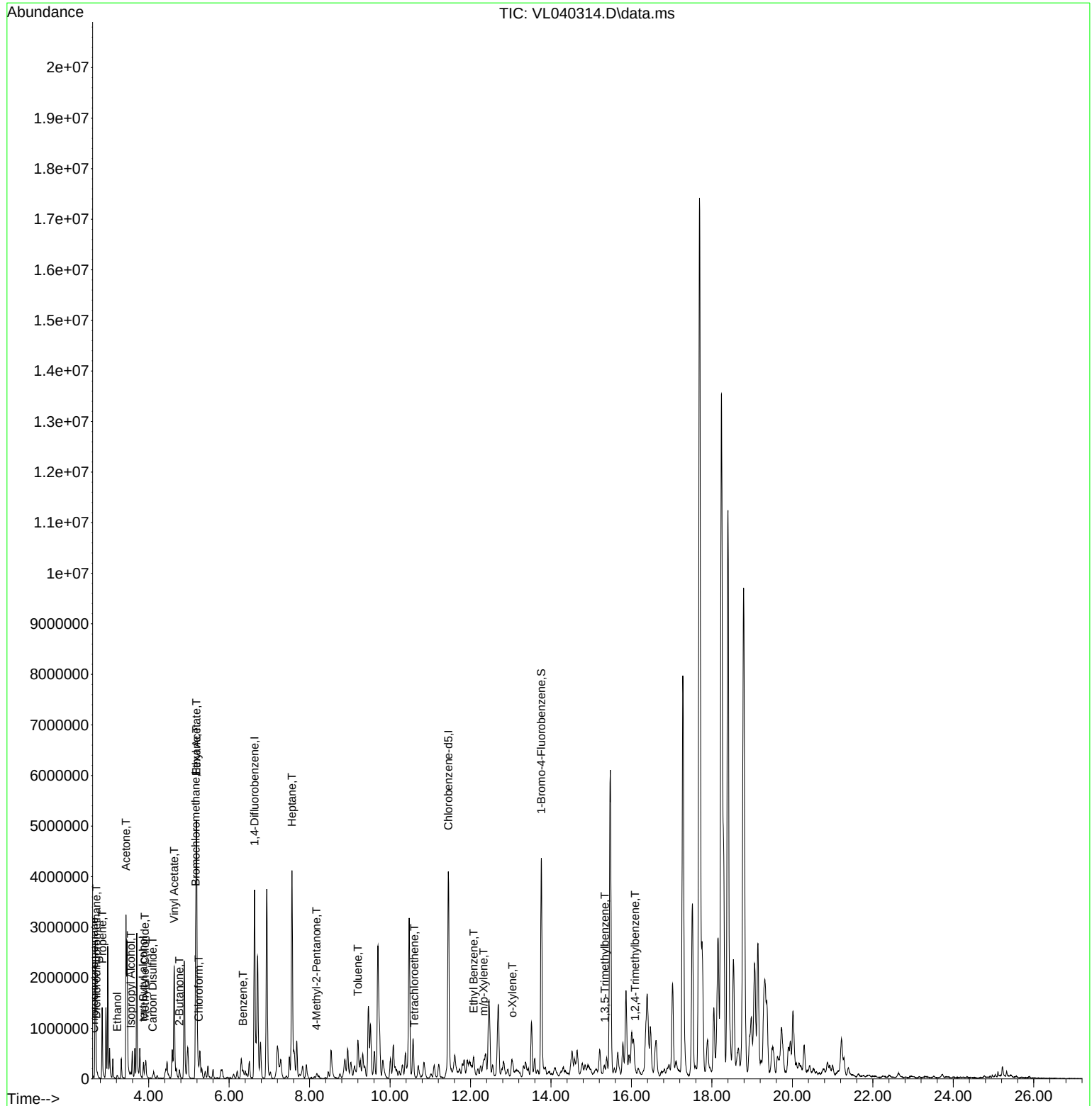
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040523\
Data File : VL040314.D
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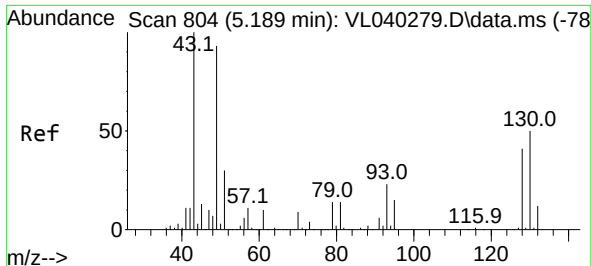
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 06 07:50:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

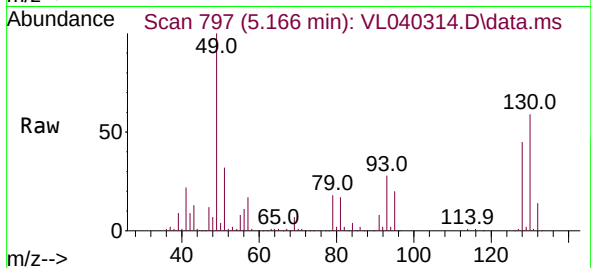
Reviewed By : Semsettin Yesilyurt 04/06/2023
Supervised By : Mahesh Dadoda 04/06/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. -0.023 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

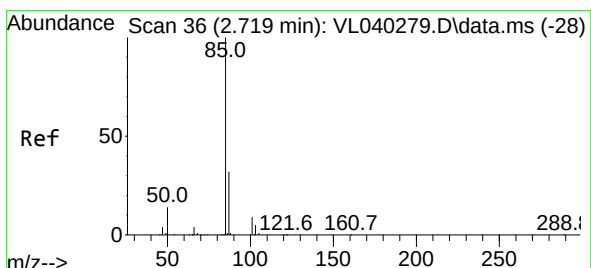
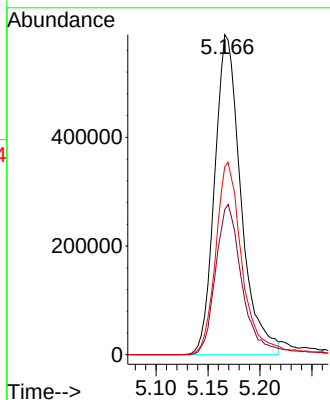
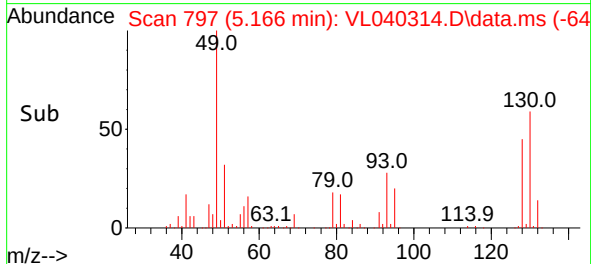
Instrument :
MSVOA_L
ClientSampleId :
SV1



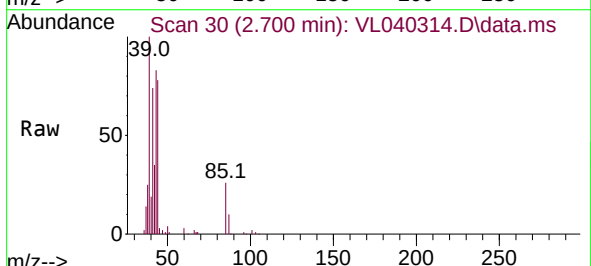
Tgt Ion: 49 Resp: 103635
Ion Ratio Lower Upper
49 100
128 49.1 22.4 67.3
130 62.6 28.7 86.1

Manual Integrations
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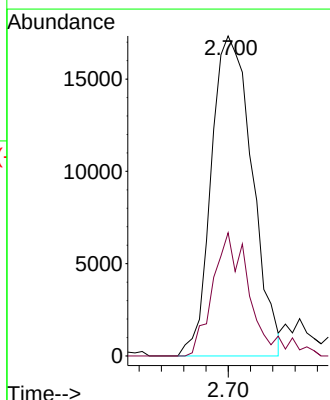
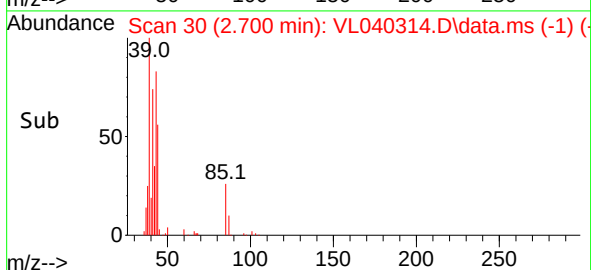
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023

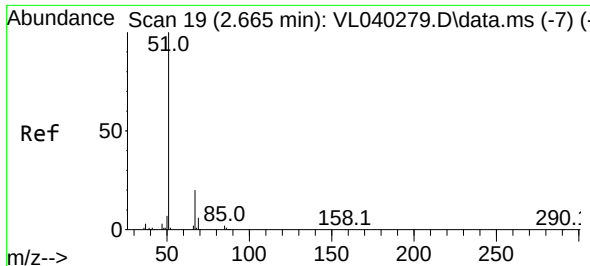


#2
Dichlorodifluoromethane
Concen: 0.109 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.019 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58



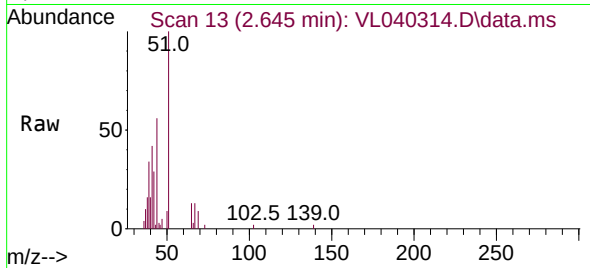
Tgt Ion: 85 Resp: 22097
Ion Ratio Lower Upper
85 100
87 38.5 25.5 38.3





#3
Chlorodifluoromethane
Concen: 0.073 ppbv m
RT: 2.645 min Scan# 11
Delta R.T. -0.020 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

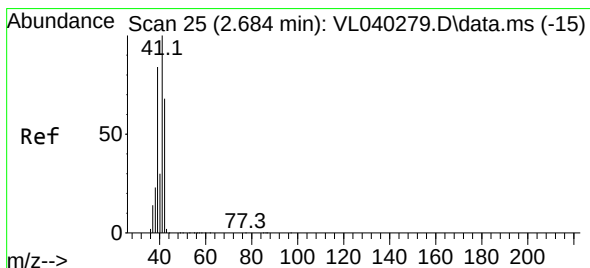
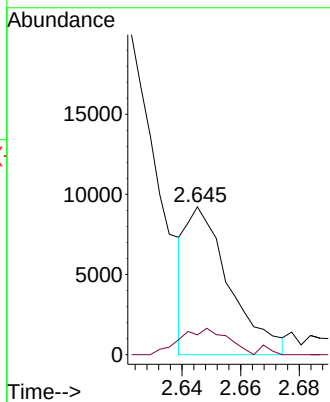
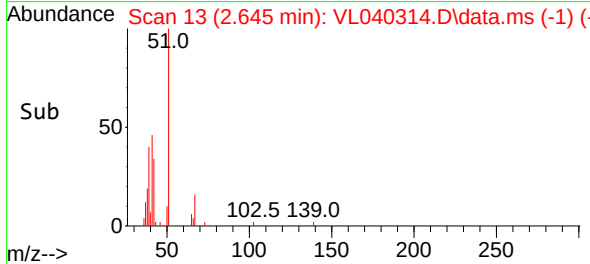
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 950
Ion Ratio Lower Upper
51 100
67 0.8 16.0 24.0

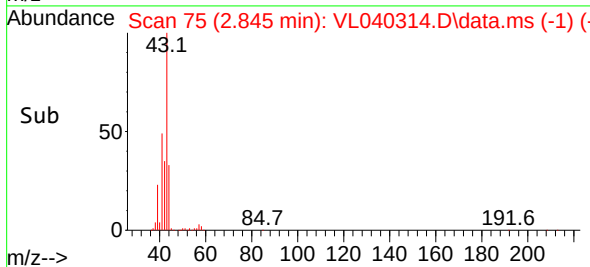
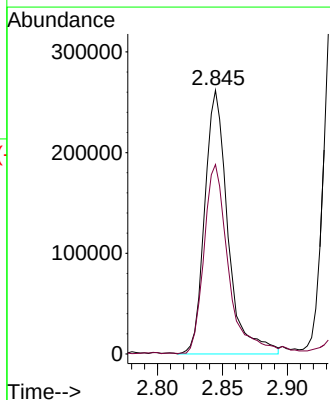
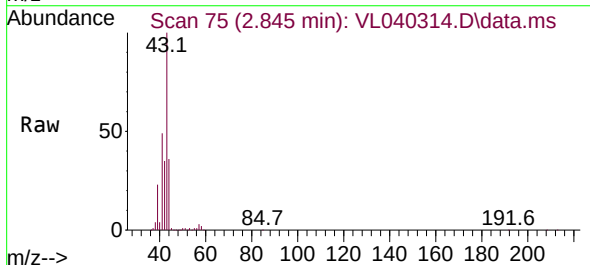
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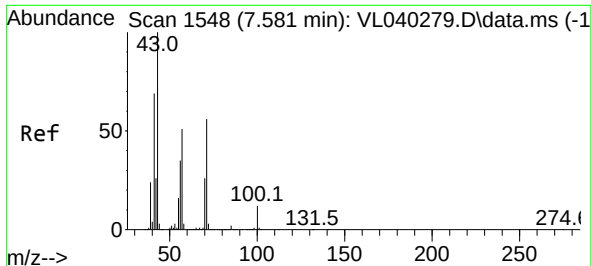
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#9
Propene
Concen: 6.528 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.161 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

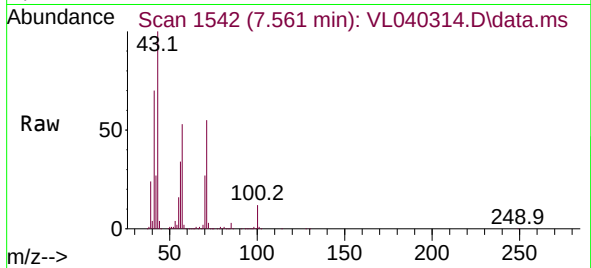
Tgt Ion: 41 Resp: 325894
Ion Ratio Lower Upper
41 100
42 77.2 59.0 88.4





#10
Heptane
Concen: 15.831 ppbv
RT: 7.561 min Scan# 11
Delta R.T. -0.020 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

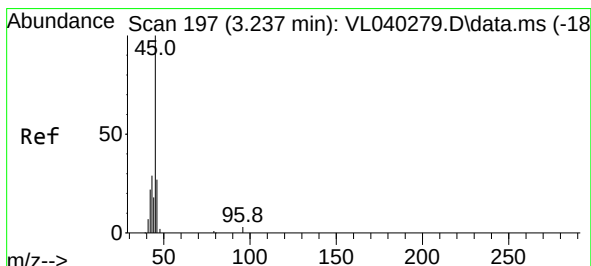
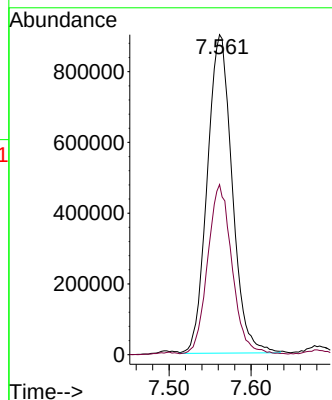
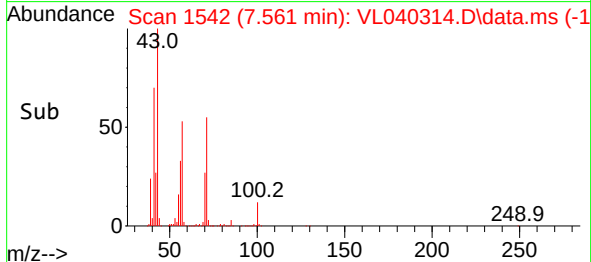
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 190105
Ion Ratio Lower Upper
43 100
57 53.2 41.7 62.5

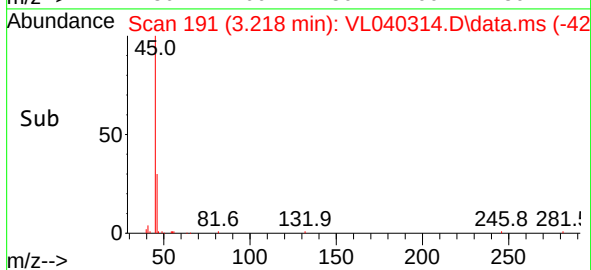
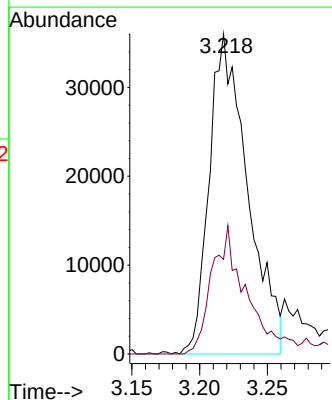
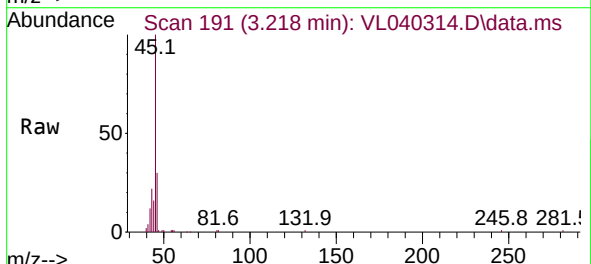
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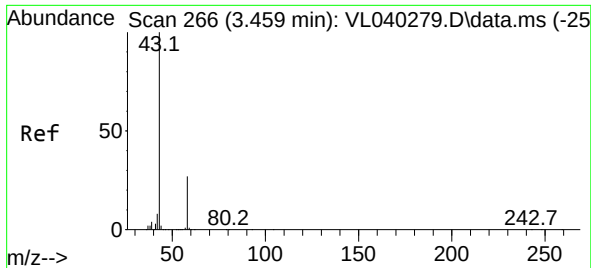
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#13
Ethanol
Concen: 19.369 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.019 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Tgt Ion: 45 Resp: 70921
Ion Ratio Lower Upper
45 100
46 41.8 15.0 60.2





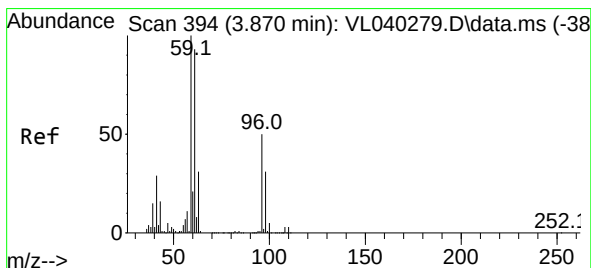
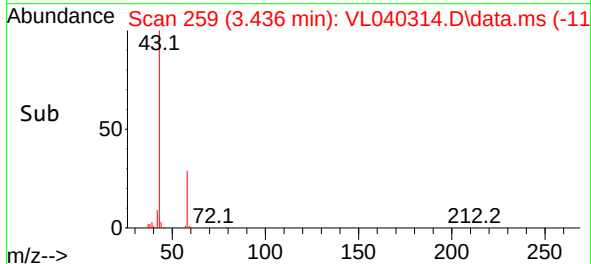
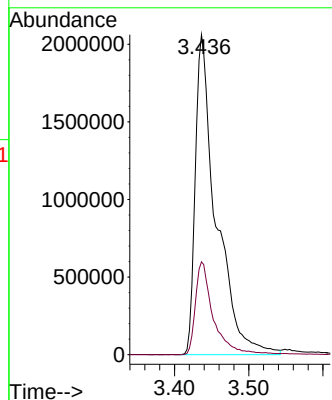
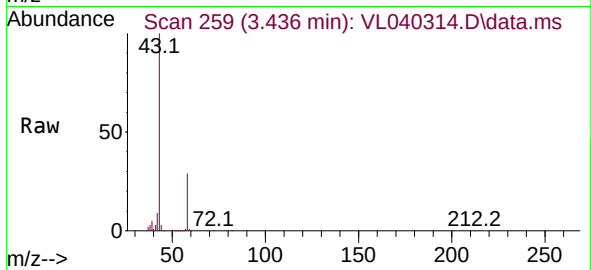
#15
Acetone
Concen: 31.888 ppbv
RT: 3.436 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 402327
Ion Ratio Lower Upper
43 100
58 25.5 21.8 32.8

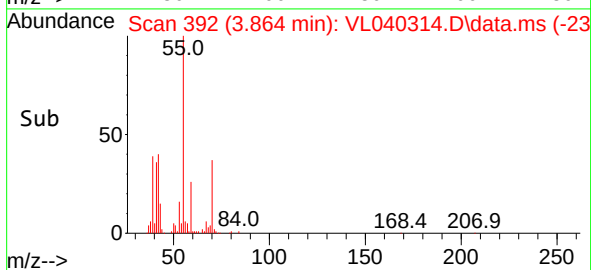
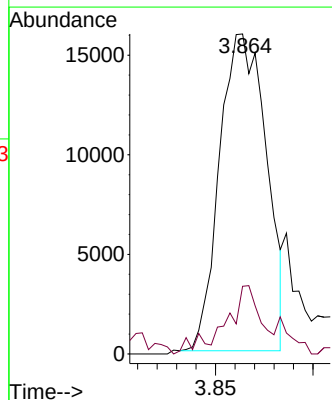
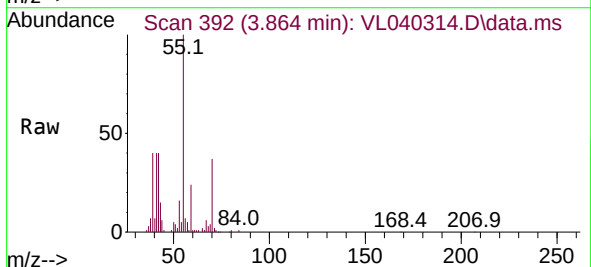
Manual Integrations
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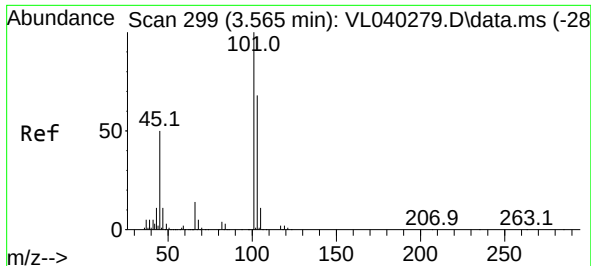
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#17
tert-Butyl alcohol
Concen: 0.221 ppbv
RT: 3.864 min Scan# 392
Delta R.T. -0.006 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Tgt Ion: 59 Resp: 26444
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





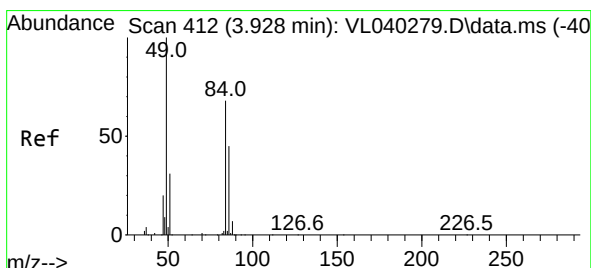
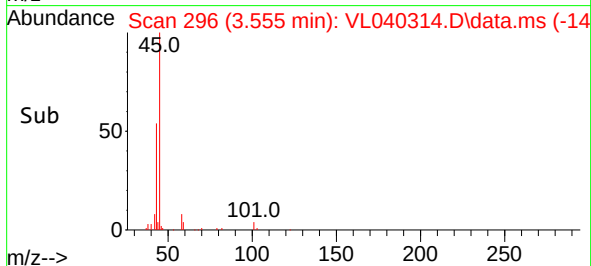
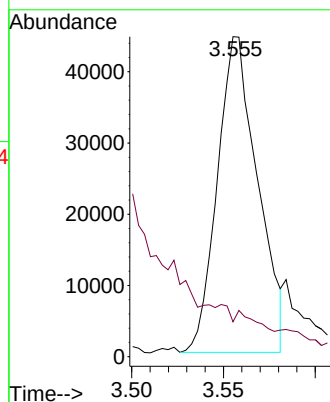
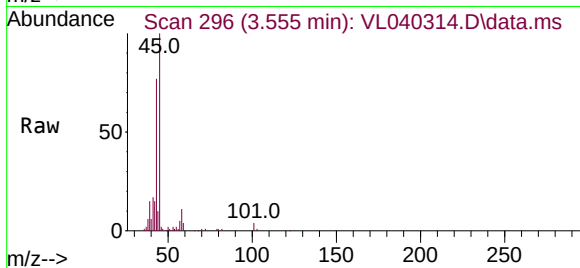
#19
Isopropyl Alcohol
Concen: 1.118 ppbv
RT: 3.555 min Scan# 299
Delta R.T. -0.010 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 6759
Ion Ratio Lower Upper
45 100
58 0.0 2.7 4.1

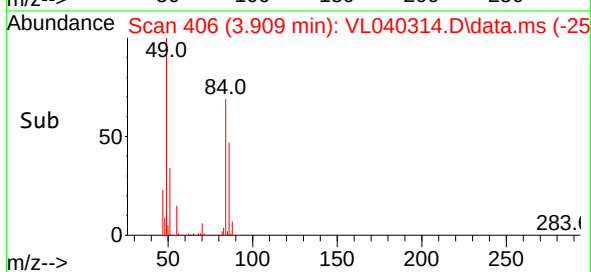
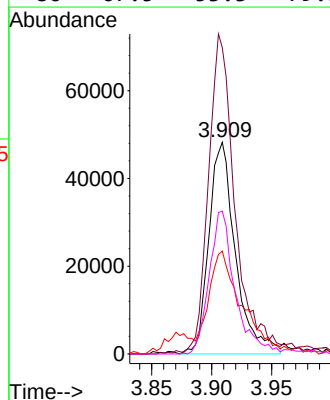
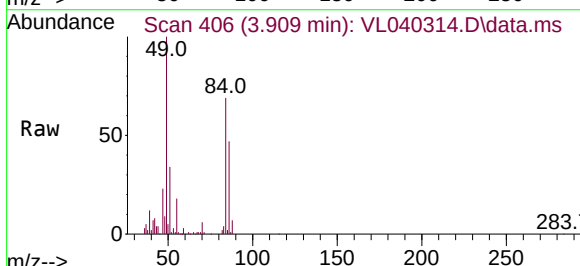
Manual Integrations
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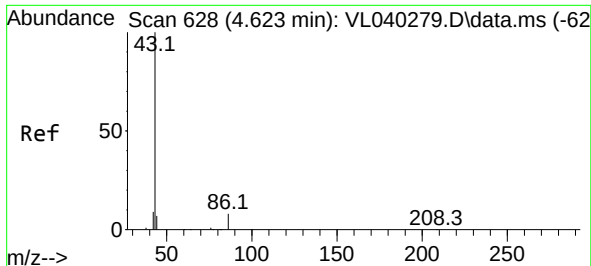
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#20
Methylene Chloride
Concen: 1.405 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.019 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

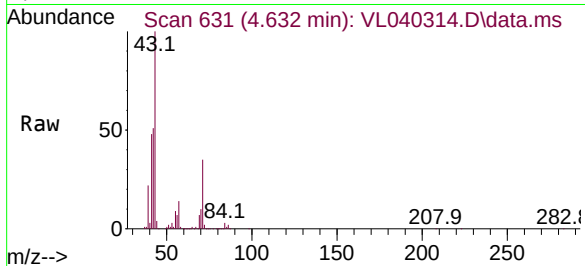
Tgt Ion: 84 Resp: 74574
Ion Ratio Lower Upper
84 100
49 143.7 117.5 176.3
51 46.3 36.9 55.3
86 67.5 53.3 79.9





#23
 Vinyl Acetate
 Concen: 35.241 ppbv m
 RT: 4.632 min Scan# 61
 Delta R.T. 0.009 min
 Lab File: VL040314.D
 Acq: 5 Apr 2023 12:58

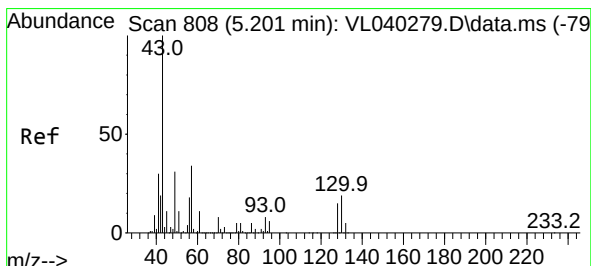
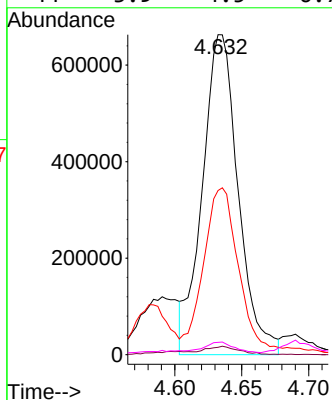
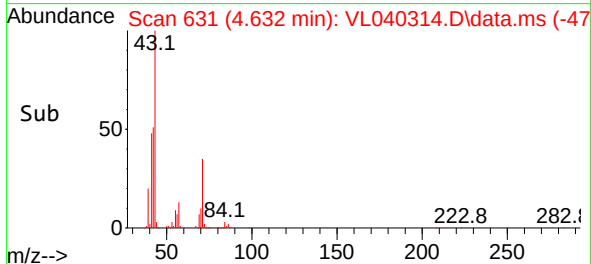
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 43 Resp: 123699
 Ion Ratio Lower Upper
 43 100
 86 2.3 5.0 7.4#
 42 51.3 9.1 13.7#
 44 3.9 4.5 6.7#

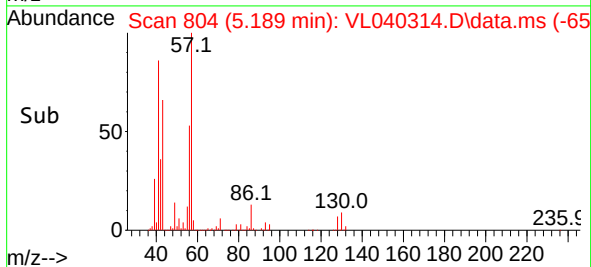
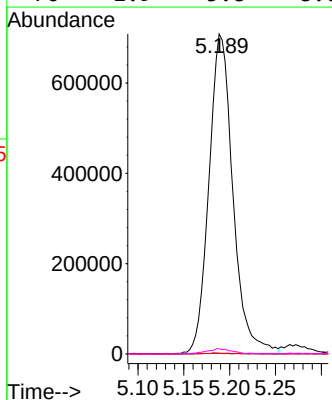
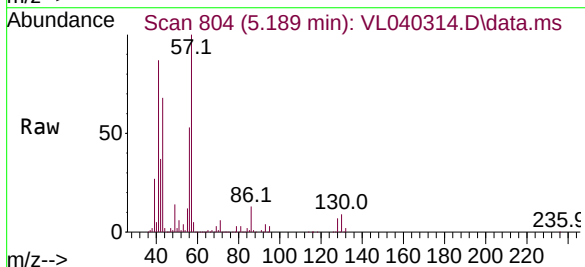
Manual Integrations
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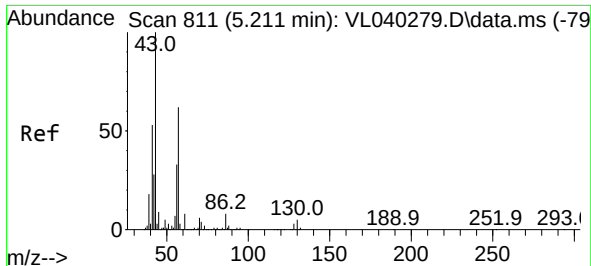
Reviewed By :Semsettin Yesilyurt 04/06/2023
 Supervised By :Mahesh Dadoda 04/06/2023



#25
 Ethyl Acetate
 Concen: 5.431 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. -0.012 min
 Lab File: VL040314.D
 Acq: 5 Apr 2023 12:58

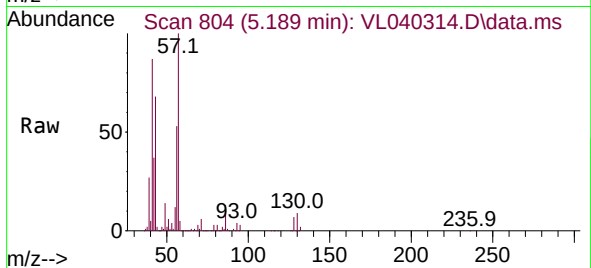
Tgt Ion: 43 Resp: 1282887
 Ion Ratio Lower Upper
 43 100
 45 0.3 8.6 12.8#
 61 0.3 8.4 12.6#
 70 1.9 5.8 8.6#





#26
Hexane
Concen: 19.546 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.022 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

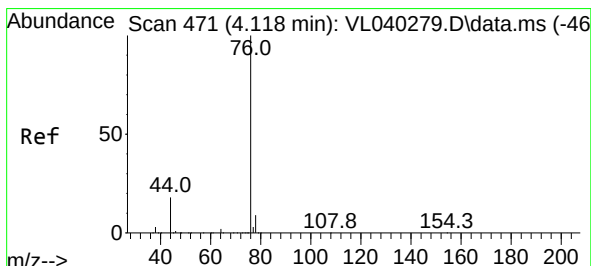
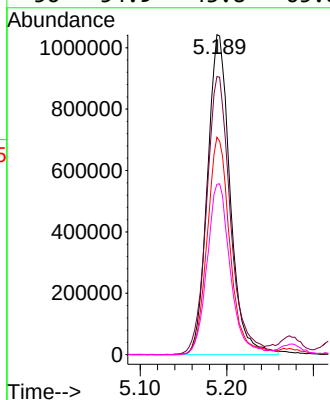
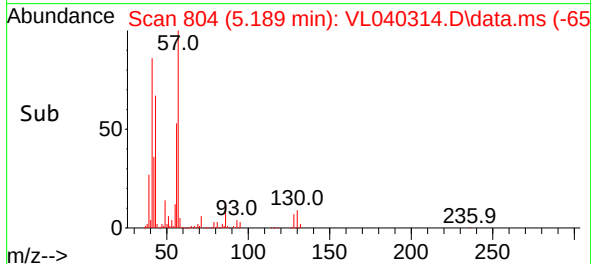
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 189517
Ion Ratio Lower Upper
57 100
41 92.0 73.5 110.3
43 68.3 196.3 294.5
56 54.9 43.8 65.8

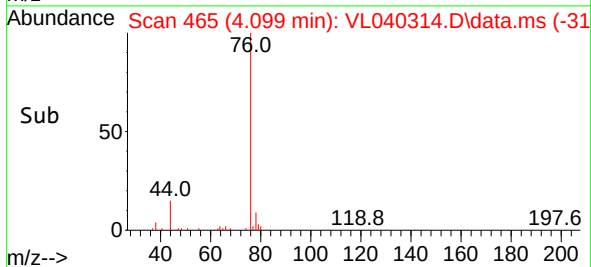
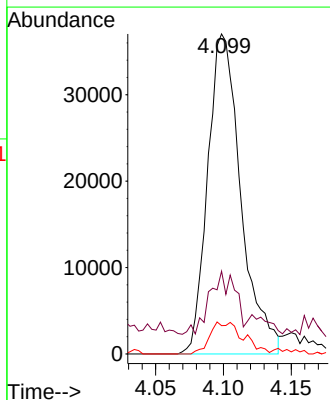
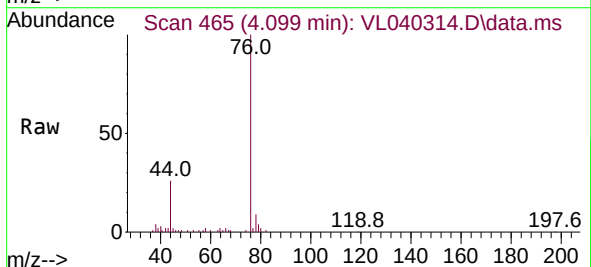
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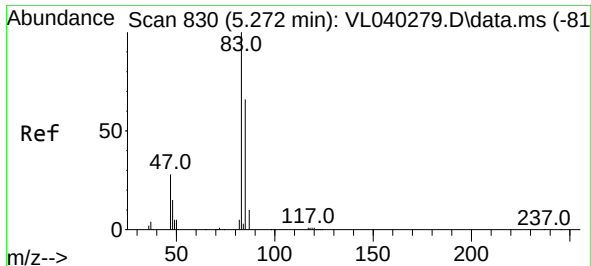
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#27
Carbon Disulfide
Concen: 0.465 ppbv
RT: 4.099 min Scan# 465
Delta R.T. -0.019 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Tgt Ion: 76 Resp: 63031
Ion Ratio Lower Upper
76 100
44 18.7 15.2 22.8
78 11.0 7.6 11.4





#29

Chloroform

Concen: 0.175 ppbv m

RT: 5.250 min Scan# 81

Delta R.T. -0.022 min

Lab File: VL040314.D

Acq: 5 Apr 2023 12:58

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 29890

Ion Ratio Lower Upper

83 100

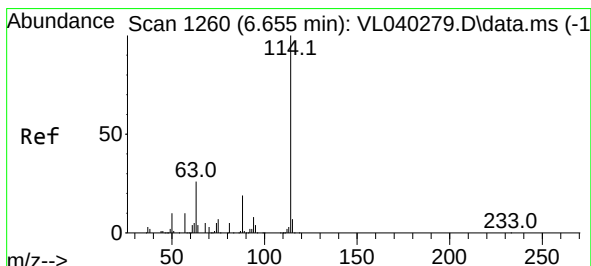
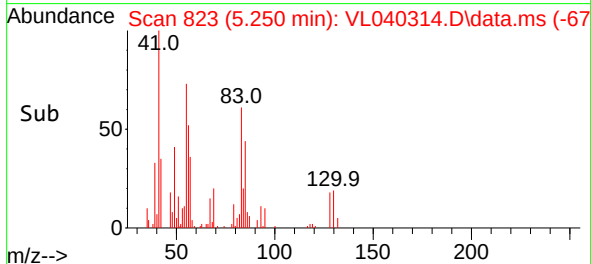
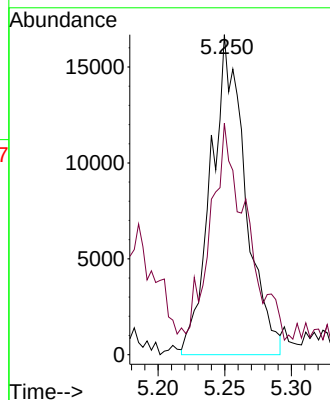
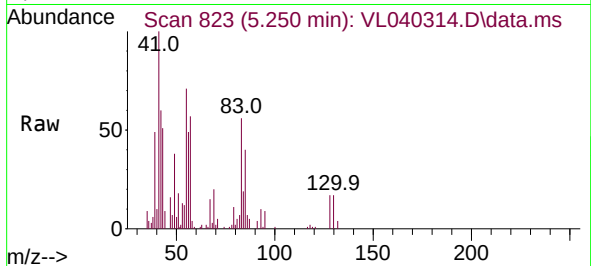
85 72.3 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023

Supervised By :Mahesh Dadoda 04/06/2023



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.023 min

Lab File: VL040314.D

Acq: 5 Apr 2023 12:58

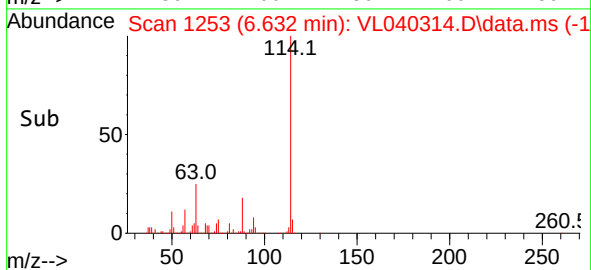
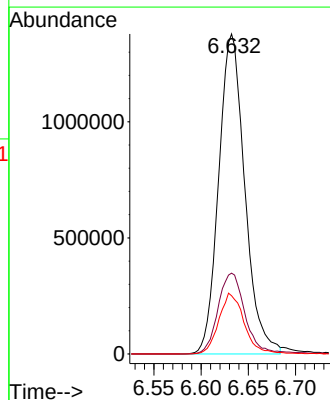
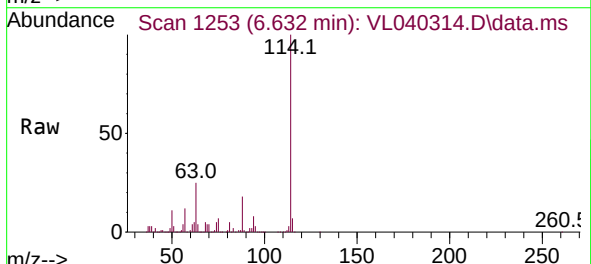
Tgt Ion:114 Resp: 2644358

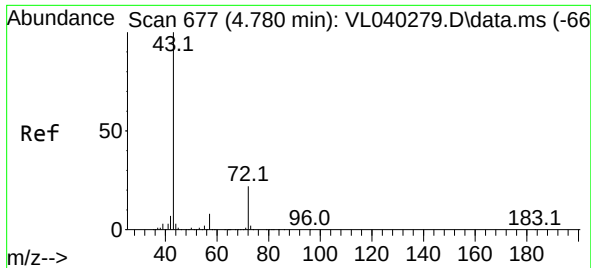
Ion Ratio Lower Upper

114 100

63 26.5 21.2 31.8

88 18.6 14.5 21.7





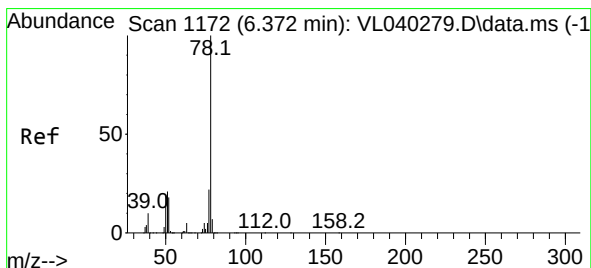
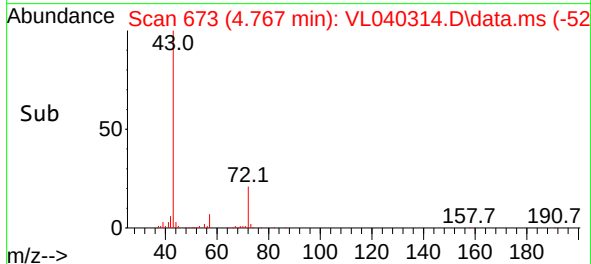
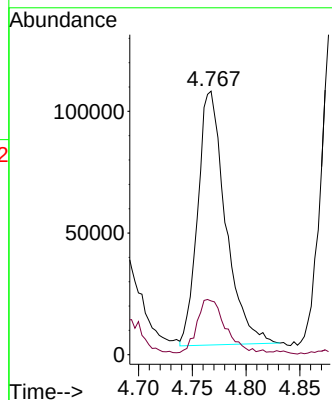
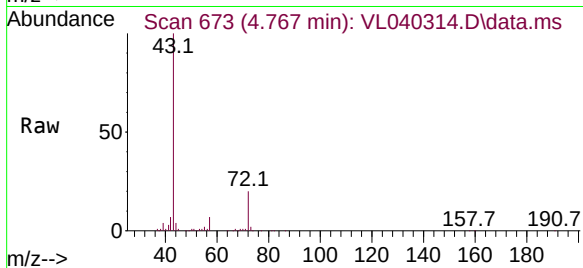
#34
2-Butanone
Concen: 1.440 ppbv
RT: 4.767 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 187944
Ion Ratio Lower Upper
43 100
72 24.3 18.3 27.5

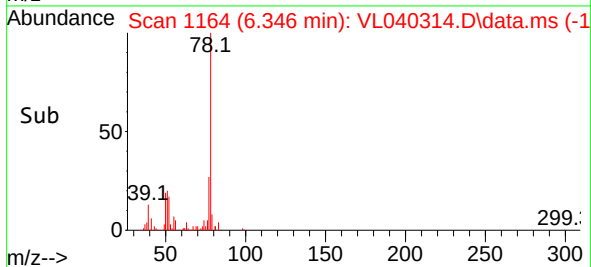
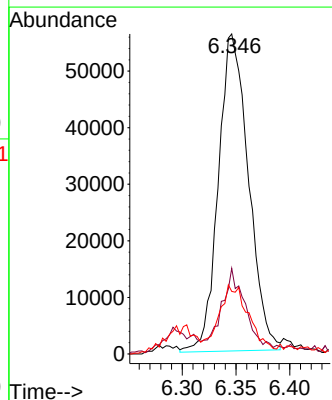
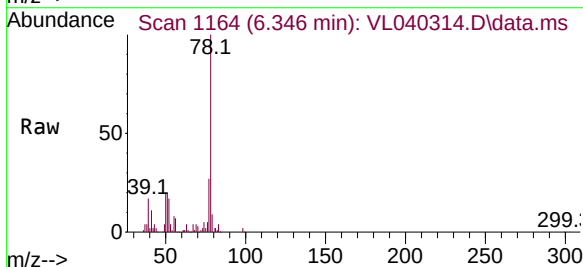
Manual Integrations
APPROVED

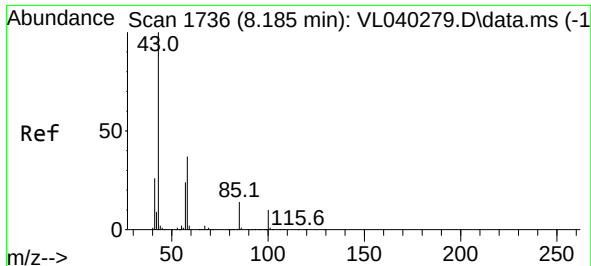
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#36
Benzene
Concen: 0.541 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. -0.026 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

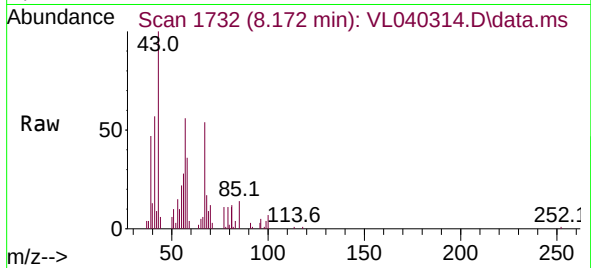
Tgt Ion: 78 Resp: 109083
Ion Ratio Lower Upper
78 100
77 24.8 17.8 26.8
50 16.7 15.4 23.2





#50
4-Methyl-2-Pentanone
Concen: 0.169 ppbv m
RT: 8.172 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

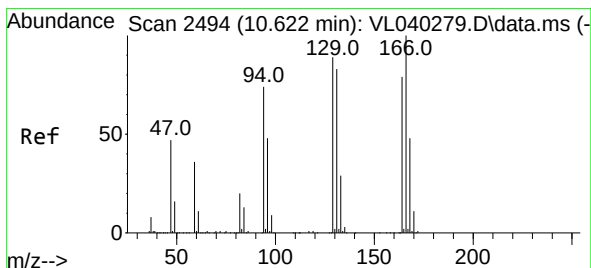
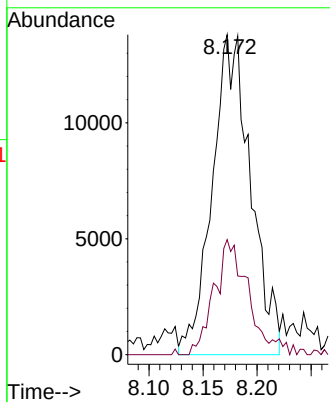
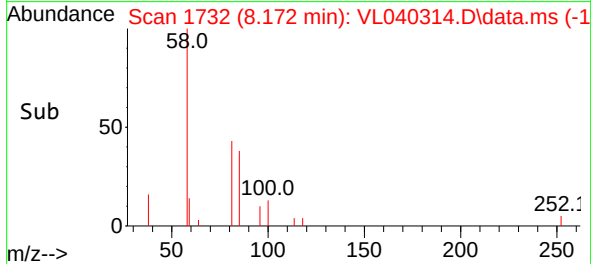
Instrument :
MSVOA_L
ClientSampleId :
SV1



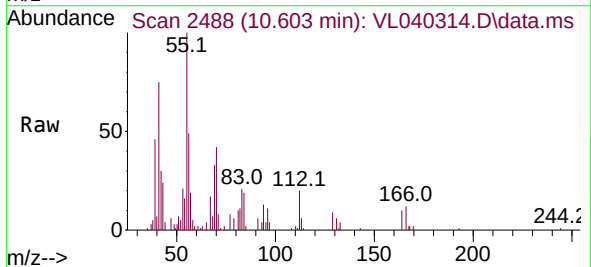
Tgt Ion: 43 Resp: 3422
Ion Ratio Lower Upper
43 100
58 32.4 29.2 43.8

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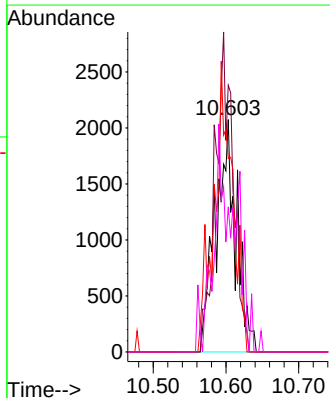
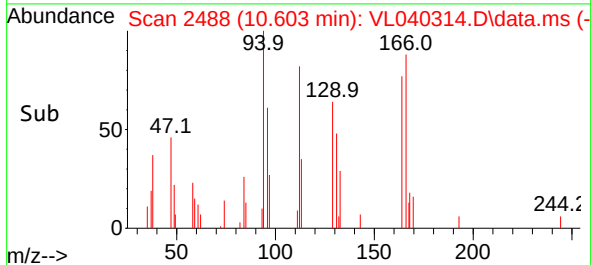
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023

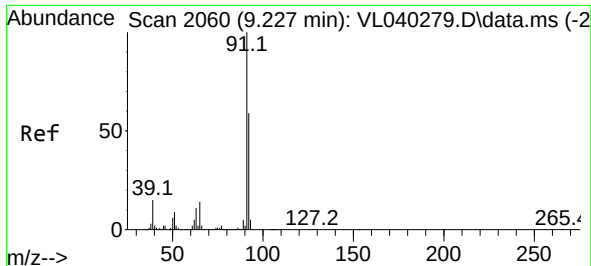


#52
Tetrachloroethene
Concen: 0.067 ppbv m
RT: 10.603 min Scan# 2488
Delta R.T. -0.019 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58



Tgt Ion:164 Resp: 4078
Ion Ratio Lower Upper
164 100
166 114.9 101.8 152.6
129 83.3 90.2 135.2#
131 62.5 84.7 127.1#





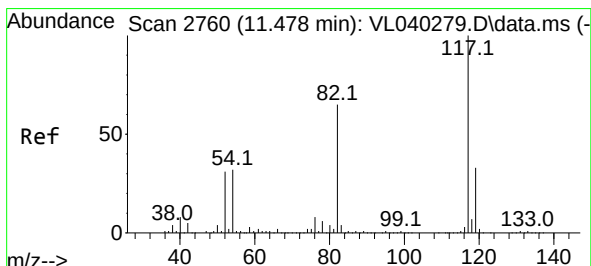
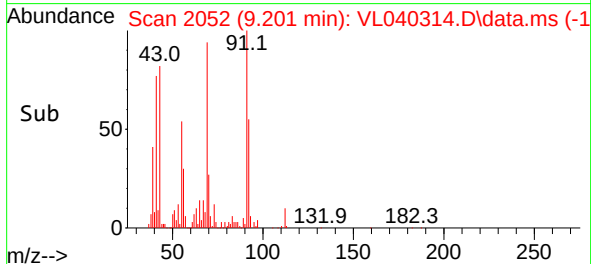
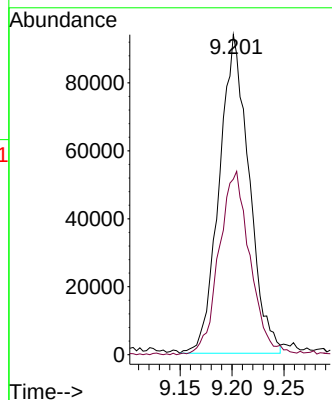
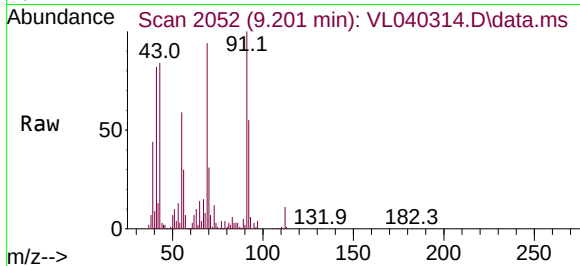
#53
Toluene
Concen: 0.887 ppbv
RT: 9.201 min Scan# 2060
Delta R.T. -0.026 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 18741
Ion Ratio Lower Upper
91 100
92 60.6 48.0 72.0

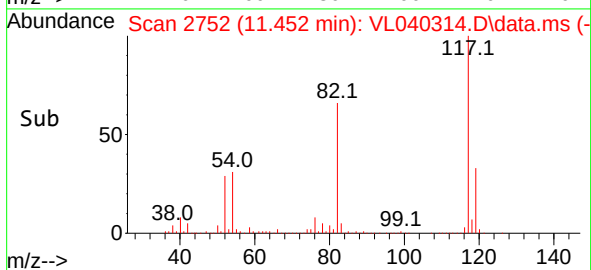
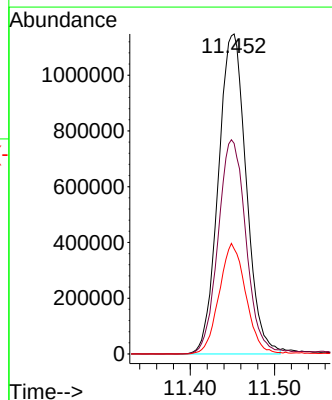
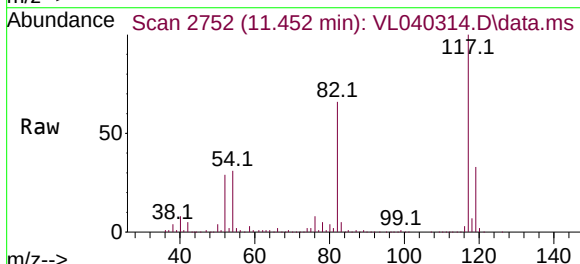
Manual Integrations
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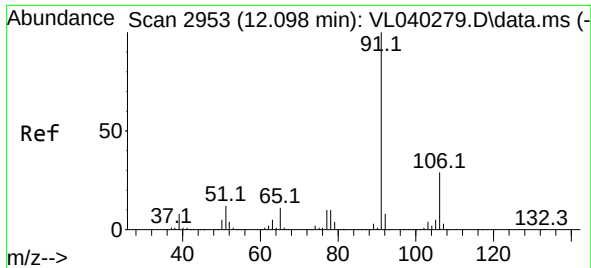
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.026 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

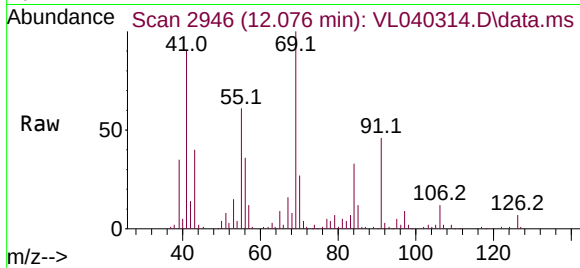
Tgt Ion:117 Resp: 2634413
Ion Ratio Lower Upper
117 100
82 68.6 51.4 77.2
119 33.6 24.0 36.0





#58
Ethyl Benzene
Concen: 0.180 ppbv
RT: 12.076 min Scan# 2953
Delta R.T. -0.022 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

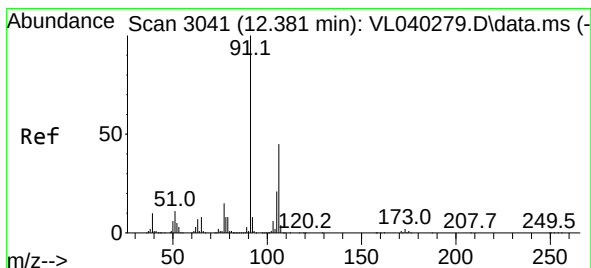
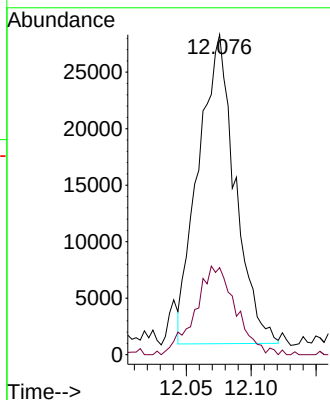
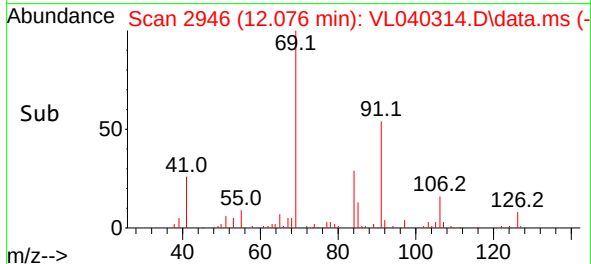
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 53850
Ion Ratio Lower Upper
91 100
106 28.4 23.4 35.2

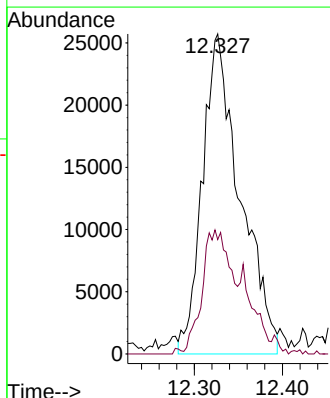
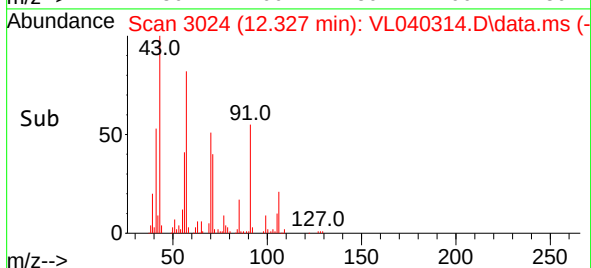
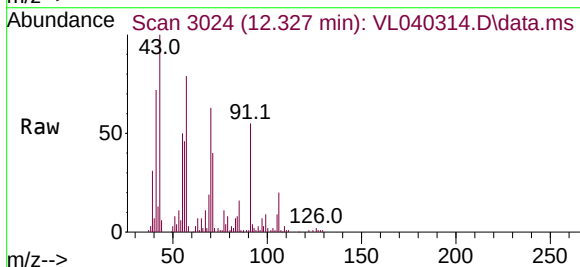
Manual Integrations
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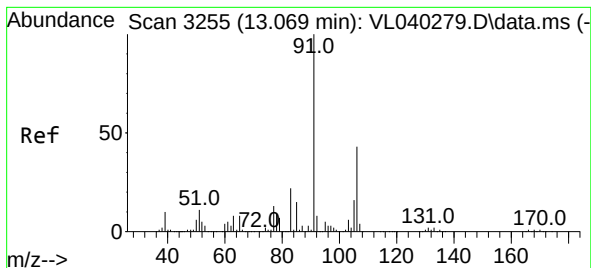
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#59
m/p-Xylene
Concen: 0.279 ppbv m
RT: 12.327 min Scan# 3024
Delta R.T. -0.054 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

Tgt Ion: 91 Resp: 76651
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#





#60

o-Xylene

Concen: 0.146 ppbv m

RT: 13.044 min Scan# 31

Delta R.T. -0.025 min

Lab File: VL040314.D

Acq: 5 Apr 2023 12:58

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 3825

Ion Ratio Lower Upper

91 100

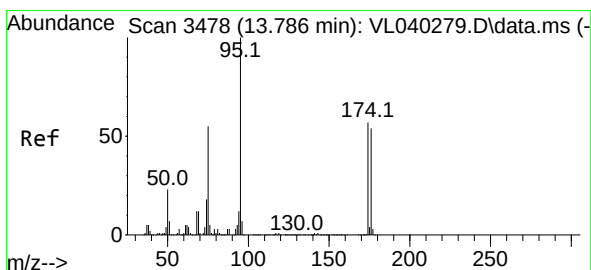
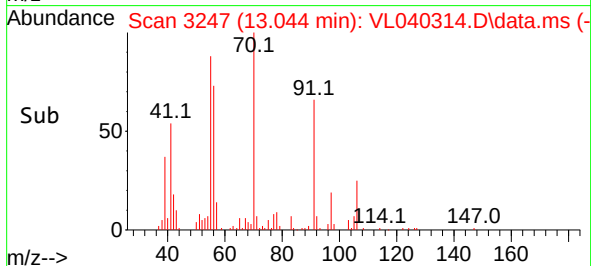
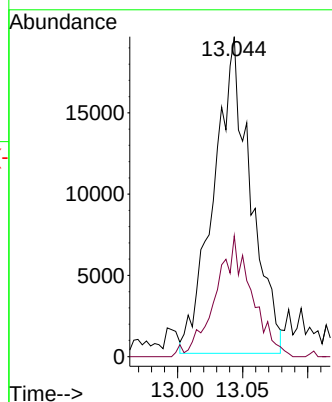
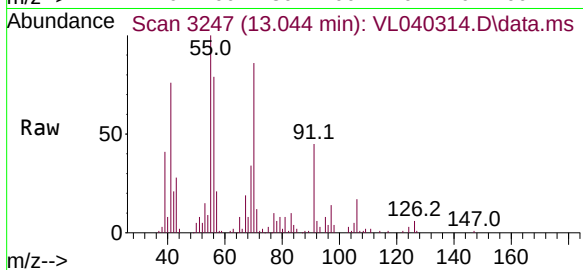
106 37.7 21.7 65.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023

Supervised By :Mahesh Dadoda 04/06/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 10.050 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.025 min

Lab File: VL040314.D

Acq: 5 Apr 2023 12:58

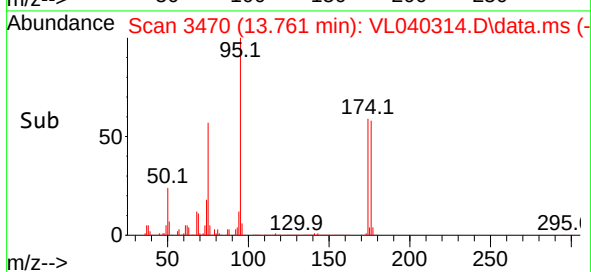
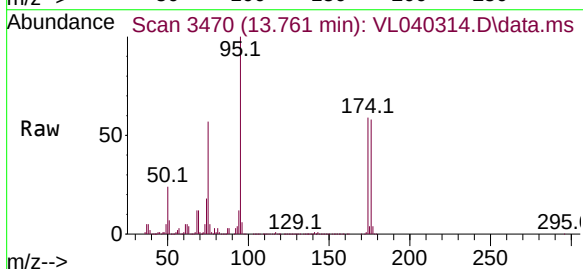
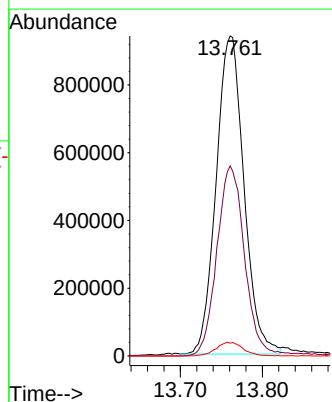
Tgt Ion: 95 Resp: 2217213

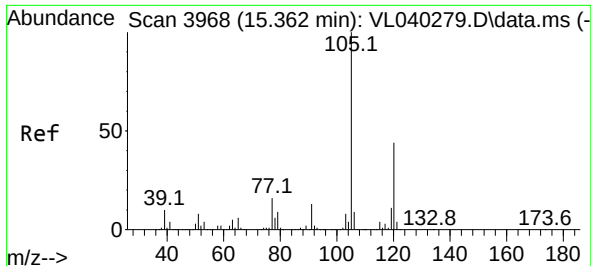
Ion Ratio Lower Upper

95 100

174 60.9 47.0 70.6

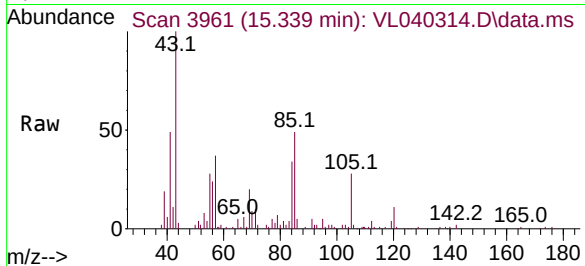
175 4.2 3.4 5.2





#73
1,3,5-Trimethylbenzene
Concen: 0.099 ppbv m
RT: 15.339 min Scan# 3968
Delta R.T. -0.023 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58

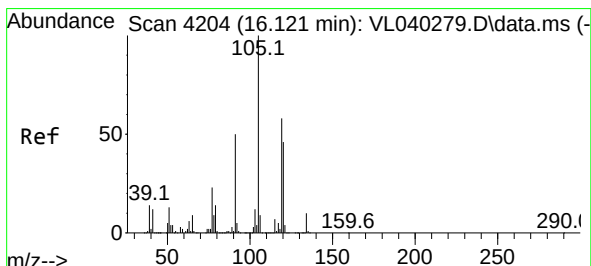
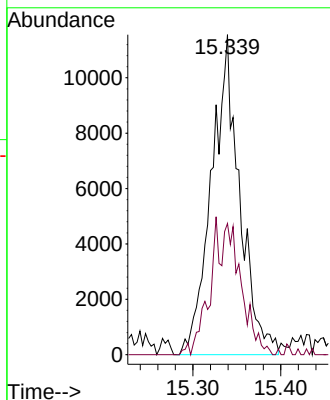
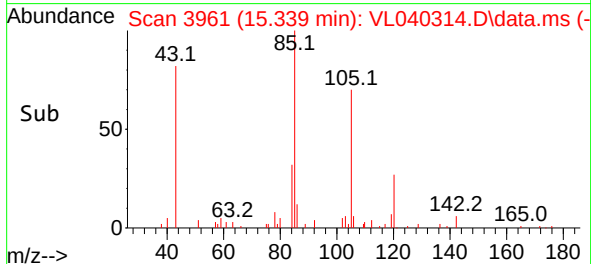
Instrument :
MSVOA_L
ClientSampleId :
SV1



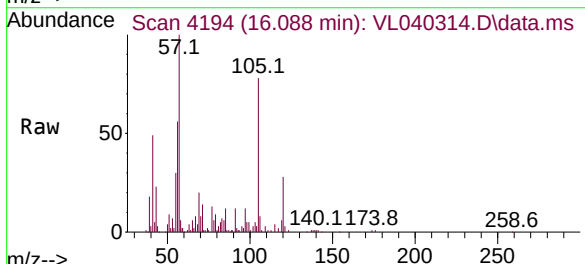
Tgt Ion:105 Resp: 2573
Ion Ratio Lower Upper
105 100
120 41.0 34.9 52.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.258 ppbv
RT: 16.088 min Scan# 4194
Delta R.T. -0.033 min
Lab File: VL040314.D
Acq: 5 Apr 2023 12:58



Tgt Ion:105 Resp: 76682
Ion Ratio Lower Upper
105 100
120 35.5 36.6 54.8#
91 11.9 39.9 59.9#
77 11.8 18.6 27.8#

