

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040823.D
 Acq On : 8 Nov 2023 23:15
 Operator : SY/MD
 Sample : 05275-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/11/2023
 Supervised By : Mahesh Dadoda 11/13/2023

Quant Time: Nov 09 00:35:00 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

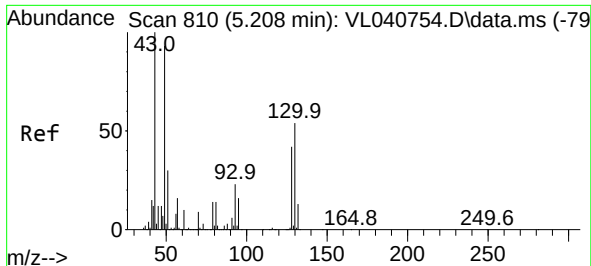
QLast Update : Thu Nov 09 00:25:02 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	999561	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2589493	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2111268	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1507462	9.703	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.777	85	104974	0.596	ppbv	97
3) Chlorodifluoromethane	2.719	51	59342m	0.404	ppbv	
4) Chloromethane	2.854	50	28338	0.489	ppbv	95
9) Propene	2.748	41	95249m	1.746	ppbv	
10) Heptane	7.594	43	32040m	0.234	ppbv	
11) Trichlorofluoromethane	3.600	101	39324m	0.289	ppbv	
13) Ethanol	3.282	45	5264818	427.455	ppbv	100
15) Acetone	3.504	43	684517m	6.624	ppbv	
19) Isopropyl Alcohol	3.623	45	348802	5.244	ppbv #	42
20) Methylene Chloride	3.967	84	339509	7.888	ppbv	97
26) Hexane	5.237	57	1325231	12.807	ppbv #	41
27) Carbon Disulfide	4.156	76	12392	0.109	ppbv #	1
34) 2-Butanone	4.809	43	83413m	0.712	ppbv	
35) Carbon Tetrachloride	6.507	117	11563m	0.080	ppbv	
36) Benzene	6.381	78	103727	0.521	ppbv	95
44) 2,2,4-Trimethylpentane	7.330	57	103011m	0.306	ppbv	
52) Tetrachloroethene	10.613	164	2989m	0.037	ppbv	
53) Toluene	9.224	91	244282	1.031	ppbv	95
58) Ethyl Benzene	12.082	91	50188m	0.189	ppbv	
59) m/p-Xylene	12.343	91	117199m	0.536	ppbv	
60) o-Xylene	13.050	91	49066m	0.235	ppbv	
72) 4-Ethyltoluene	15.182	105	64058m	0.262	ppbv	
73) 1,3,5-Trimethylbenzene	15.349	105	52482	0.244	ppbv	98
74) 1,2,4-Trimethylbenzene	16.101	105	209869	0.894	ppbv #	71

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



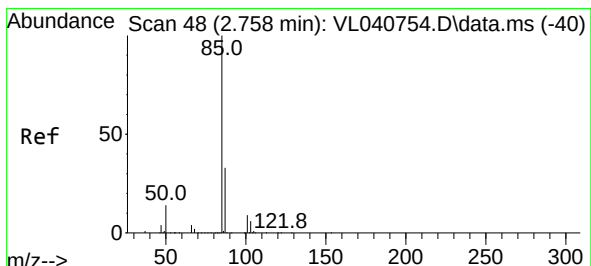
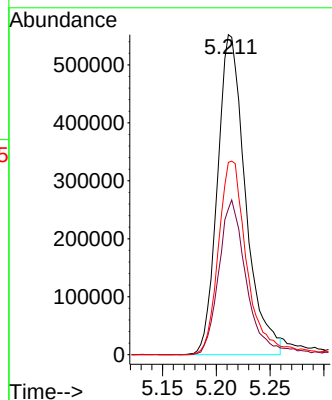
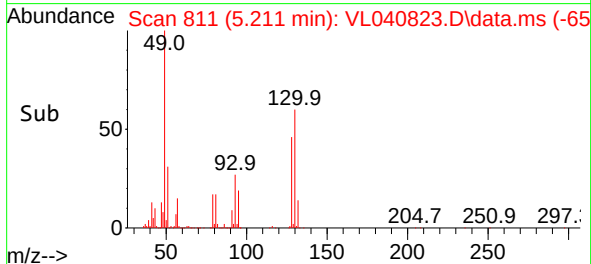
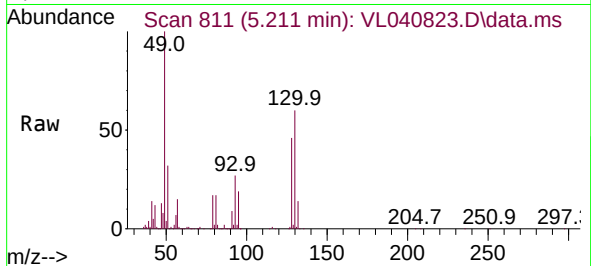
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

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MSVOA_L
ClientSampleId :
NT-IA-1

Tgt Ion: 49 Resp: 99956
Ion Ratio Lower Upper
49 100
128 49.1 23.9 71.7
130 62.9 30.7 92.1

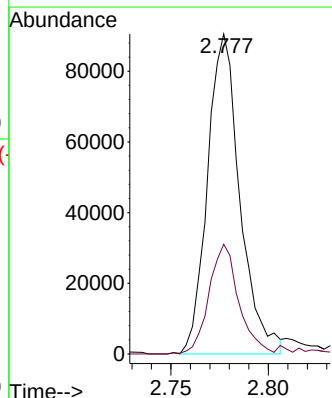
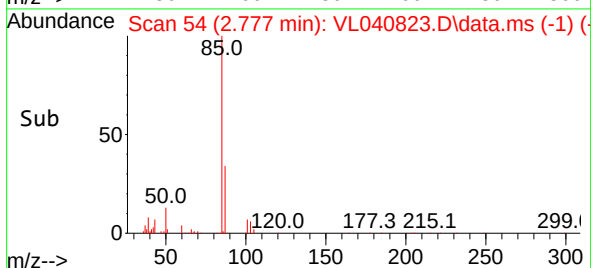
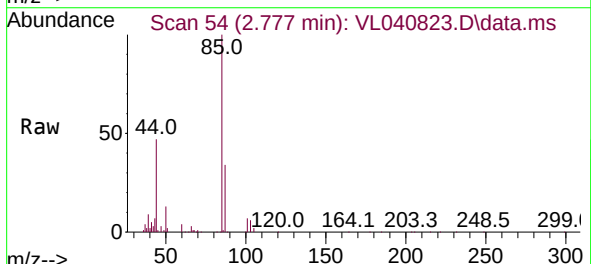
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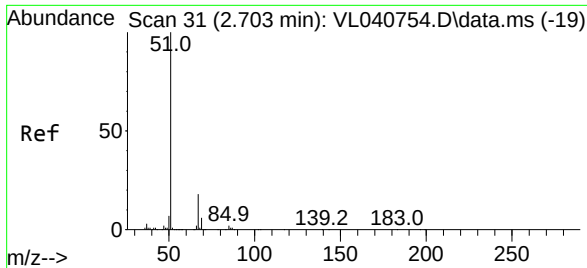
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#2
Dichlorodifluoromethane
Concen: 0.596 ppbv
RT: 2.777 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

Tgt Ion: 85 Resp: 104974
Ion Ratio Lower Upper
85 100
87 34.1 26.0 39.0





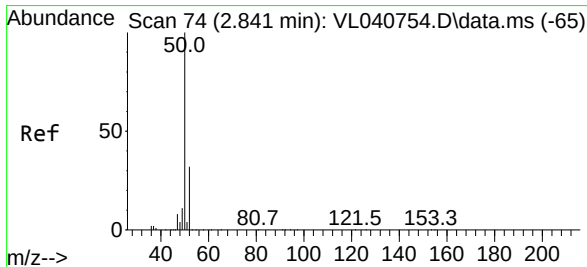
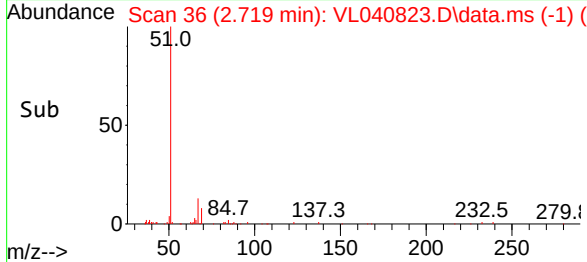
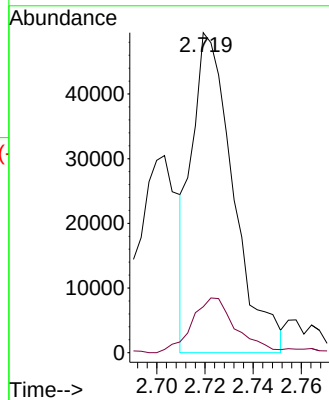
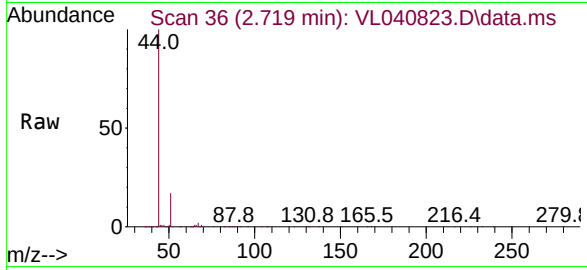
#3
Chlorodifluoromethane
Concen: 0.404 ppbv m
RT: 2.719 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1

Tgt Ion: 51 Resp: 5934
Ion Ratio Lower Upper
51 100
67 20.5 13.8 20.6

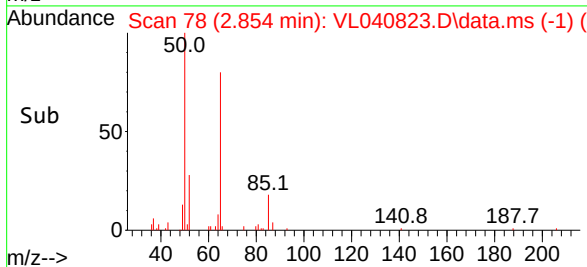
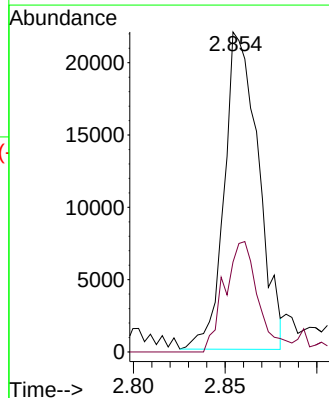
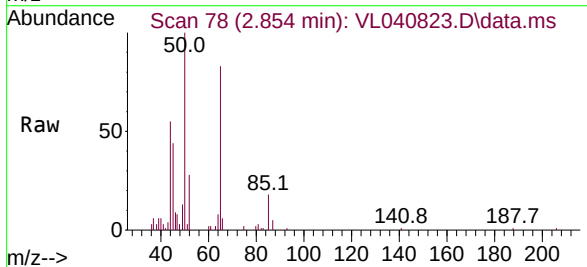
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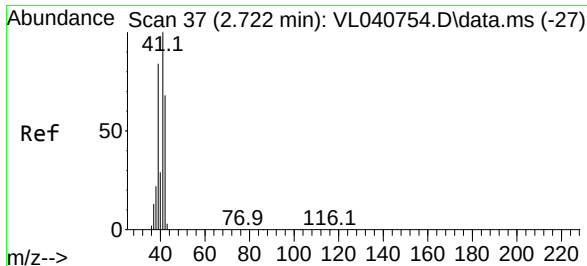
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#4
Chloromethane
Concen: 0.489 ppbv
RT: 2.854 min Scan# 78
Delta R.T. 0.000 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

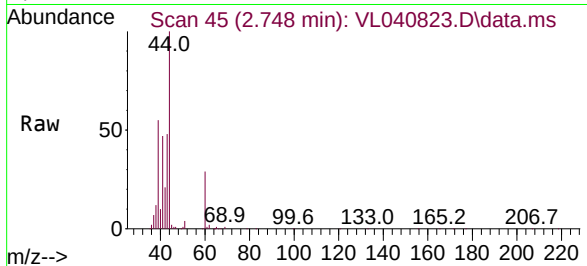
Tgt Ion: 50 Resp: 28338
Ion Ratio Lower Upper
50 100
52 28.7 25.3 37.9





#9
 Propene
 Concen: 1.746 ppbv m
 RT: 2.748 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL040823.D
 Acq: 8 Nov 2023 23:15

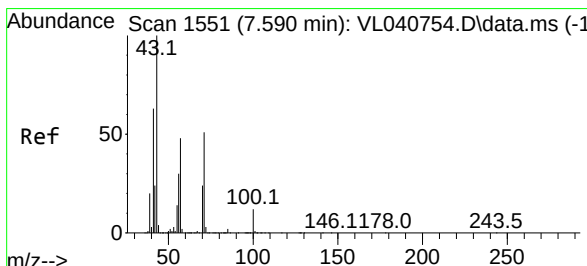
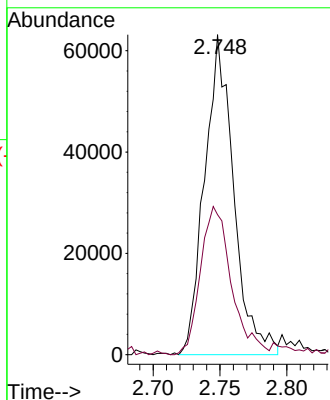
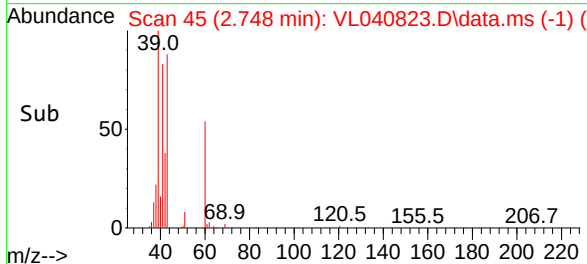
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-1



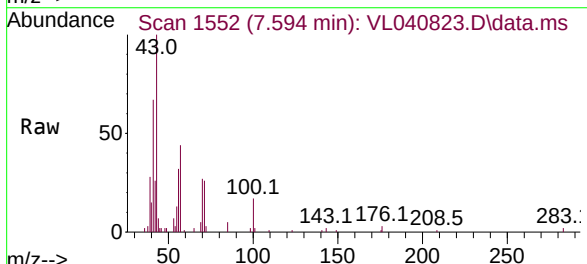
Tgt Ion: 41 Resp: 95249
 Ion Ratio Lower Upper
 41 100
 42 78.4 57.1 85.7

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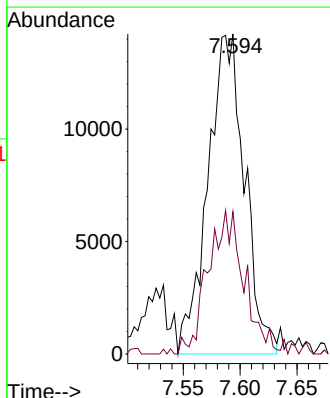
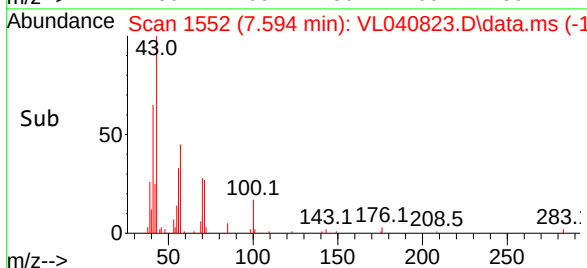
Reviewed By :Semsettin Yesilyurt 11/11/2023
 Supervised By :Mahesh Dadoda 11/13/2023

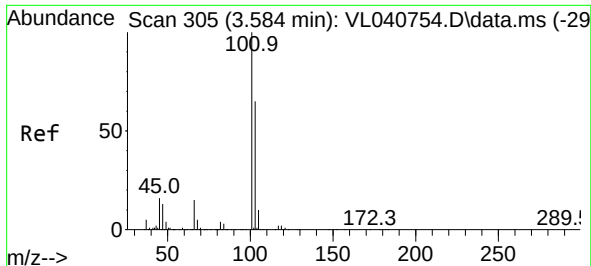


#10
 Heptane
 Concen: 0.234 ppbv m
 RT: 7.594 min Scan# 1552
 Delta R.T. 0.007 min
 Lab File: VL040823.D
 Acq: 8 Nov 2023 23:15



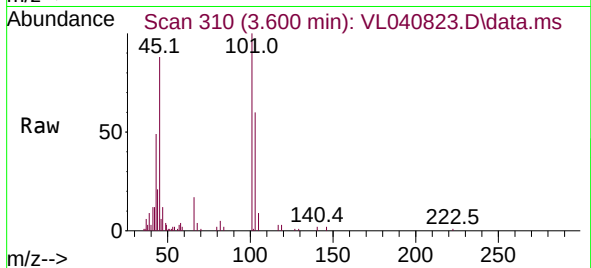
Tgt Ion: 43 Resp: 32040
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.0 60.0





#11
Trichlorofluoromethane
Concen: 0.289 ppbv m
RT: 3.600 min Scan# 311
Delta R.T. 0.007 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

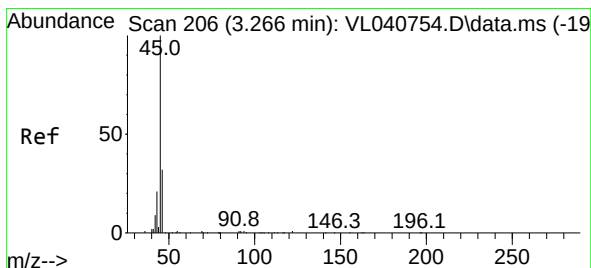
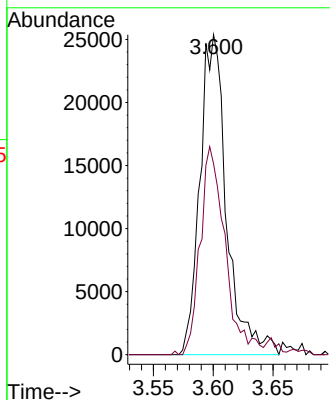
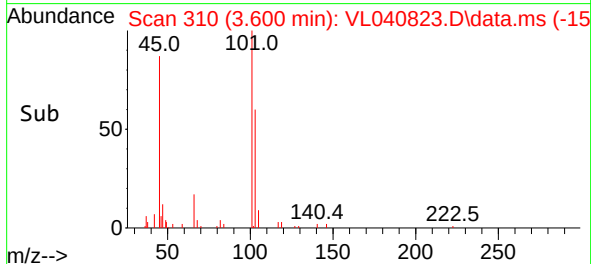
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



Tgt Ion:101 Resp: 39324
Ion Ratio Lower Upper
101 100
103 59.6 52.2 78.2

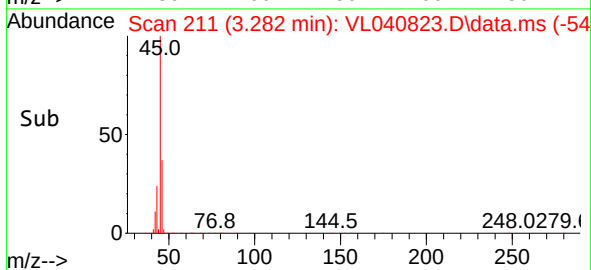
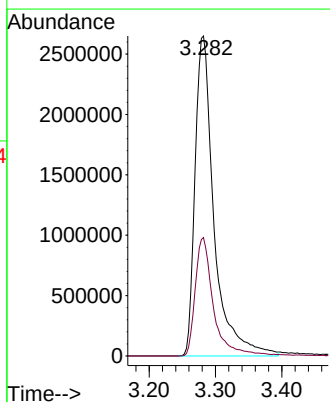
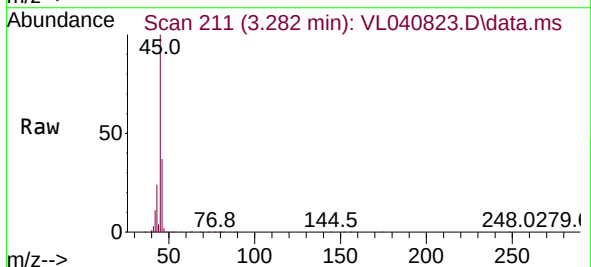
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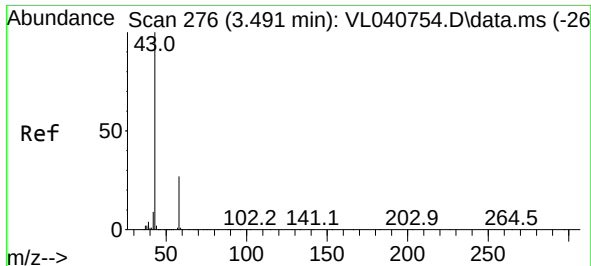
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#13
Ethanol
Concen: 427.455 ppbv
RT: 3.282 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

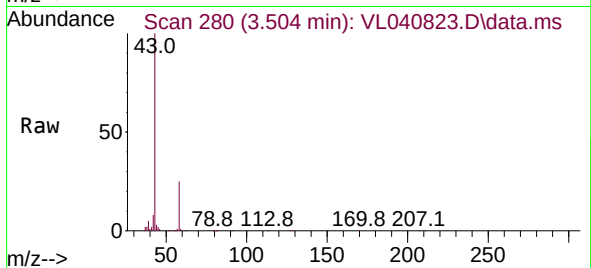
Tgt Ion: 45 Resp: 5264818
Ion Ratio Lower Upper
45 100
46 36.1 14.6 58.2





#15
Acetone
Concen: 6.624 ppbv m
RT: 3.504 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

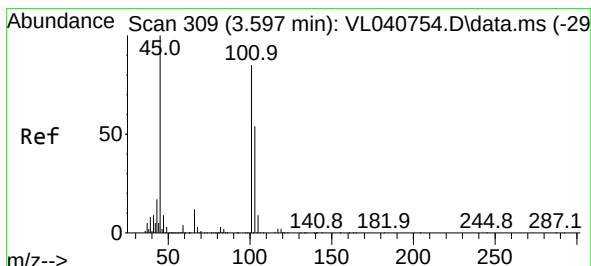
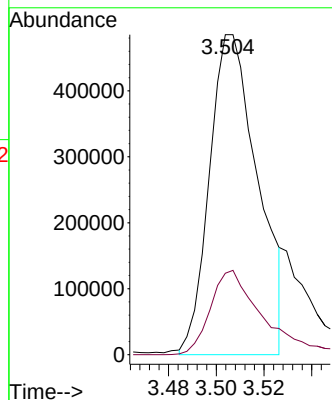
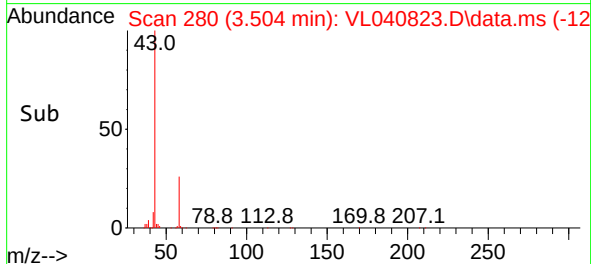
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



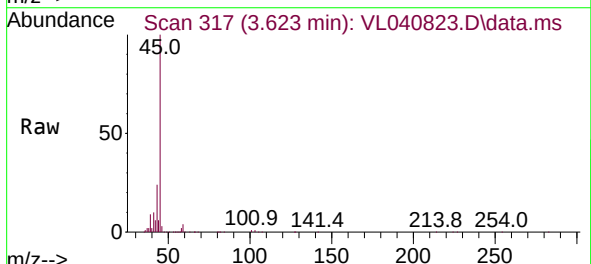
Tgt Ion: 43 Resp: 68451
Ion Ratio Lower Upper
43 100
58 29.9 21.6 32.4

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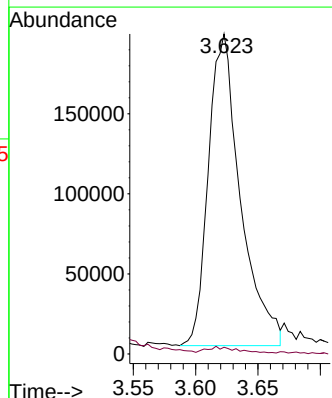
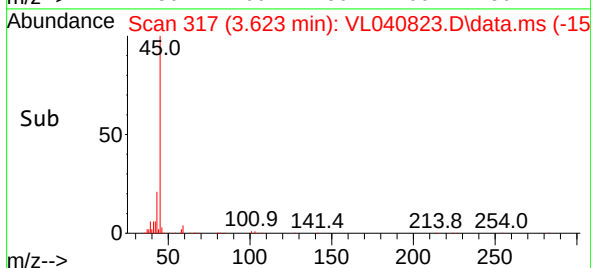
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

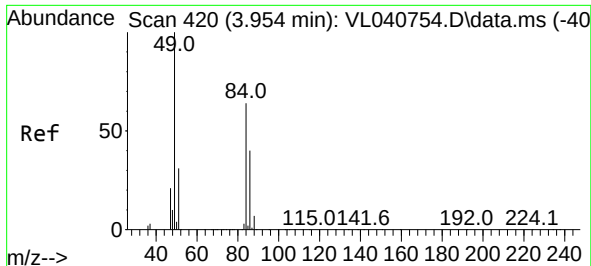


#19
Isopropyl Alcohol
Concen: 5.244 ppbv
RT: 3.623 min Scan# 317
Delta R.T. 0.016 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15



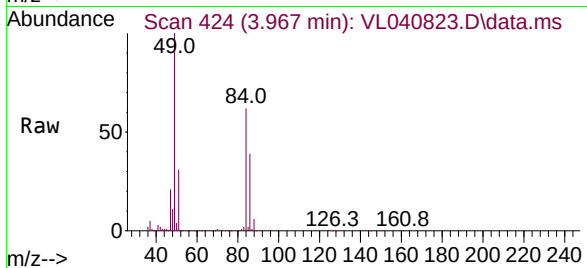
Tgt Ion: 45 Resp: 348802
Ion Ratio Lower Upper
45 100
58 3.0 30.3 45.5#





#20
Methylene Chloride
Concen: 7.888 ppbv
RT: 3.967 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

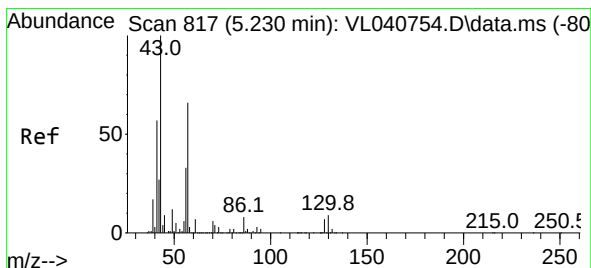
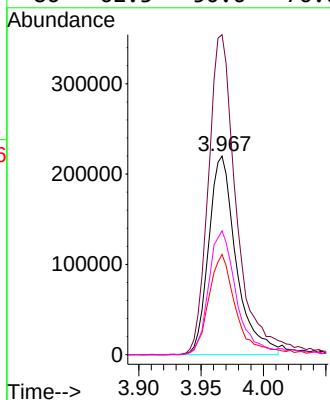
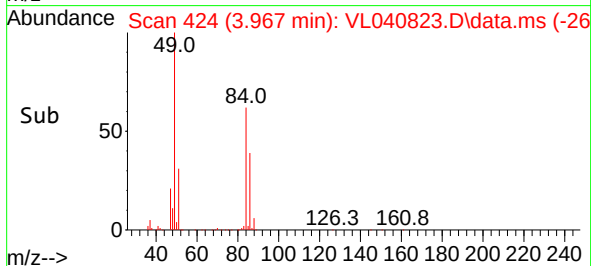
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



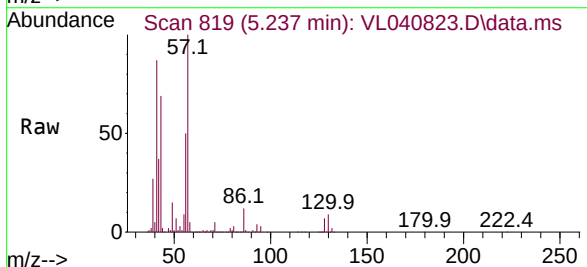
Tgt Ion: 84 Resp: 339509
Ion Ratio Lower Upper
84 100
49 161.0 125.6 188.4
51 50.3 38.9 58.3
86 62.3 50.6 76.0

Manual Integrations
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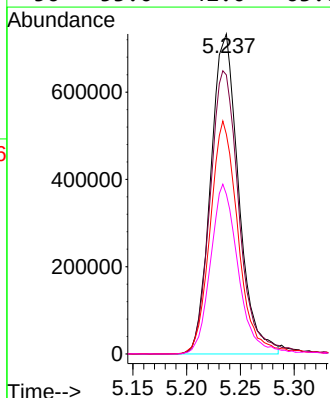
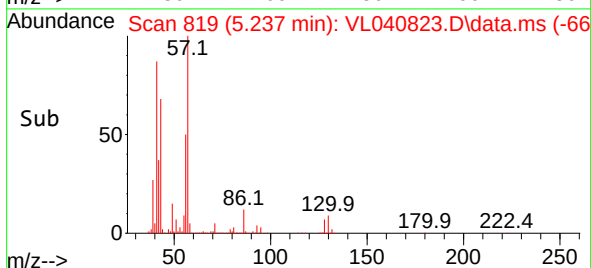
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

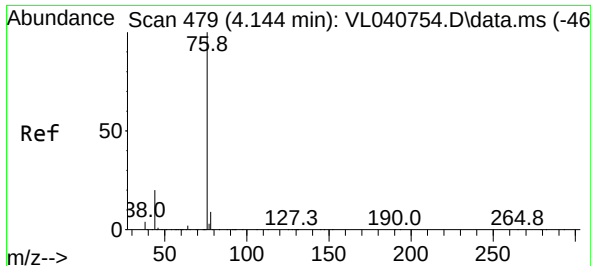


#26
Hexane
Concen: 12.807 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.010 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15



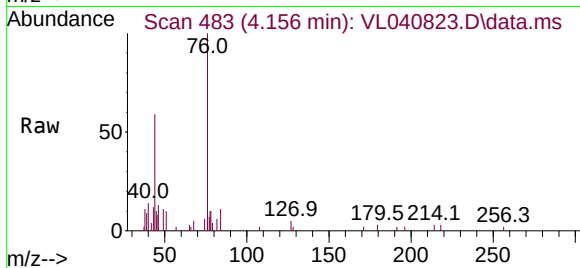
Tgt Ion: 57 Resp: 1325231
Ion Ratio Lower Upper
57 100
41 93.1 71.4 107.2
43 74.0 182.3 273.5#
56 53.0 42.0 63.0





#27
Carbon Disulfide
Concen: 0.109 ppbv
RT: 4.156 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

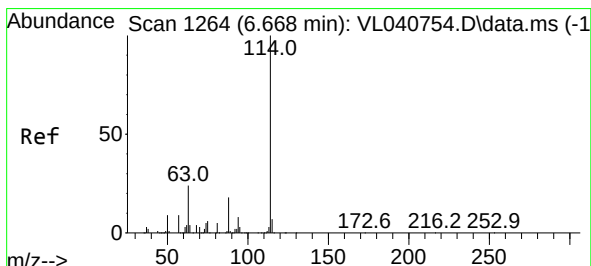
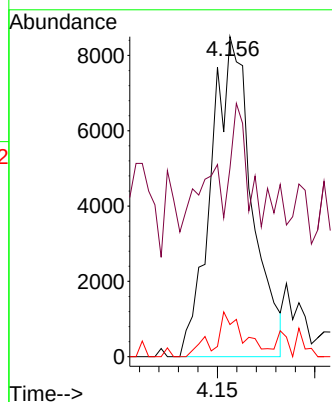
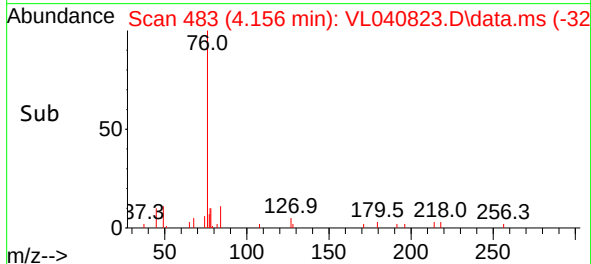
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



Tgt Ion: 76 Resp: 12392
Ion Ratio Lower Upper
76 100
44 91.5 16.6 25.0
78 10.5 7.8 11.6

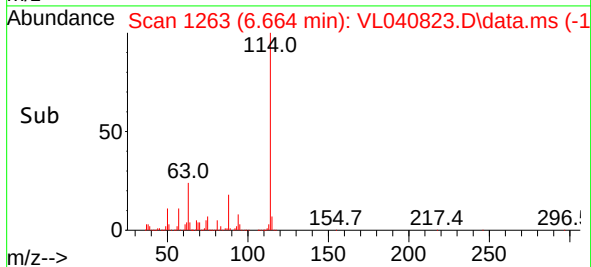
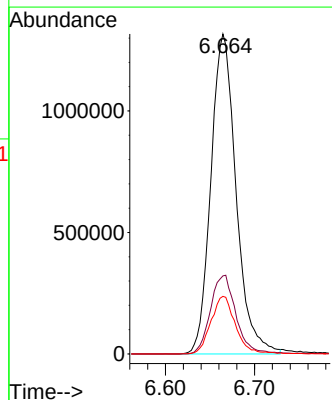
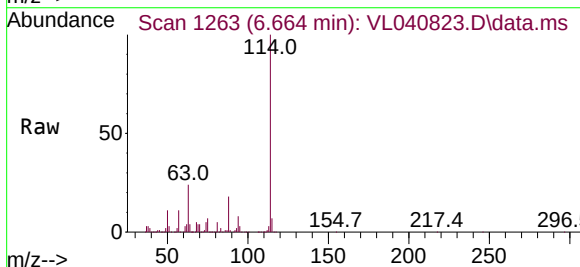
Manual Integrations
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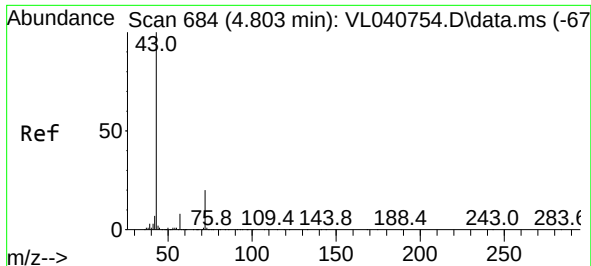
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. 0.000 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

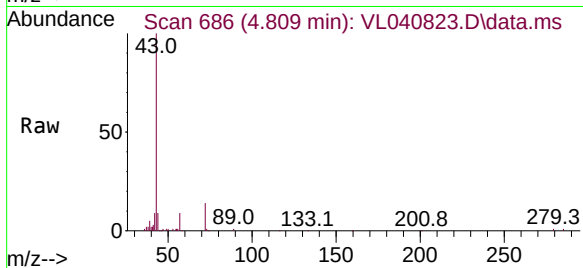
Tgt Ion:114 Resp: 2589493
Ion Ratio Lower Upper
114 100
63 25.3 19.8 29.6
88 17.7 14.2 21.2





#34
2-Butanone
Concen: 0.712 ppbv m
RT: 4.809 min Scan# 684
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

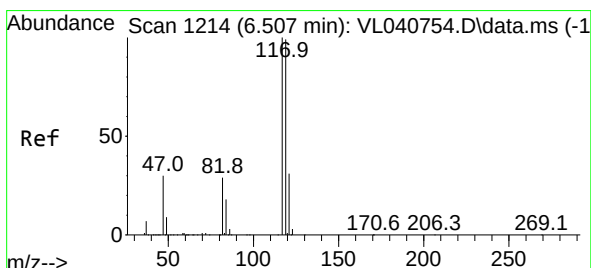
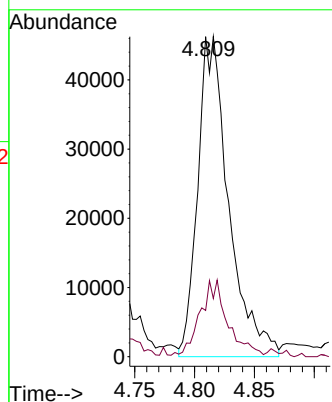
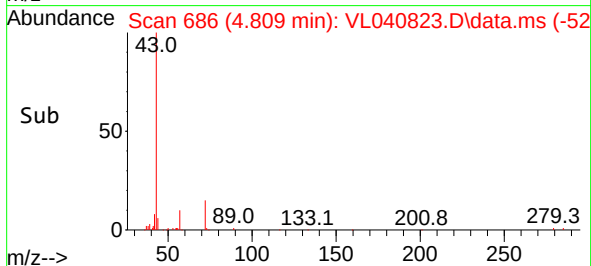
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



Tgt Ion: 43 Resp: 8341
Ion Ratio Lower Upper
43 100
72 0.0 16.8 25.2

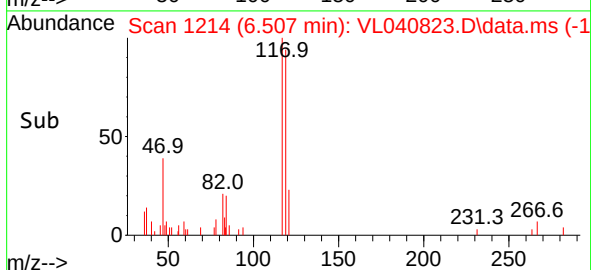
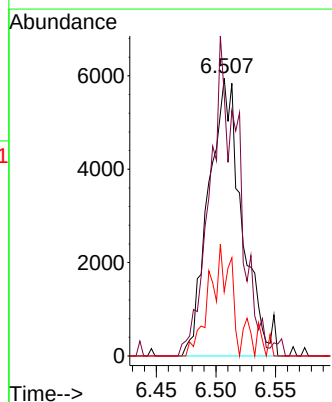
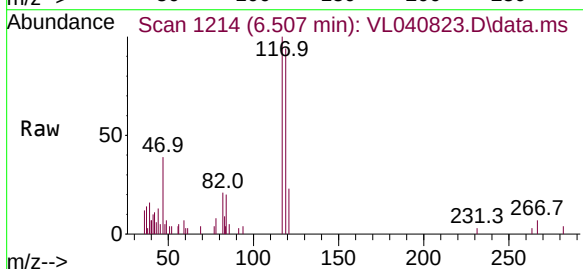
Manual Integrations
APPROVED

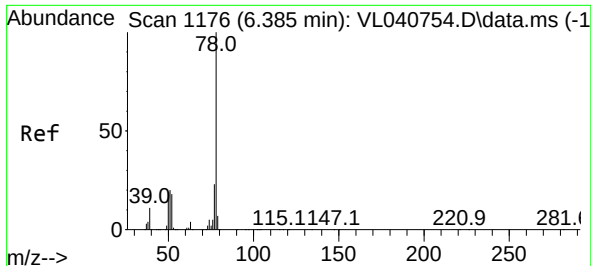
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 6.507 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

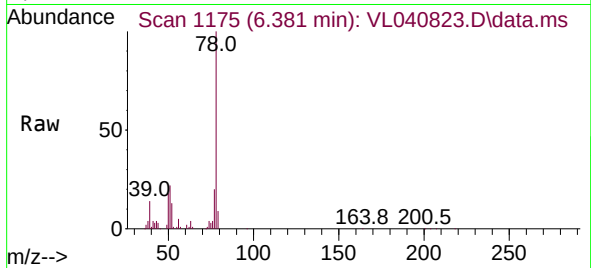
Tgt Ion:117 Resp: 11563
Ion Ratio Lower Upper
117 100
119 94.1 79.4 119.0
121 23.1 25.0 37.4





#36
Benzene
Concen: 0.521 ppbv
RT: 6.381 min Scan# 1176
Delta R.T. 0.000 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

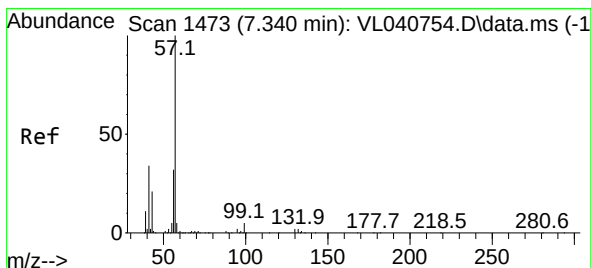
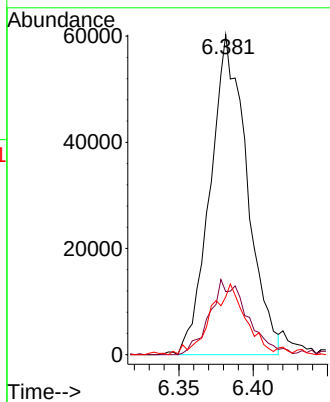
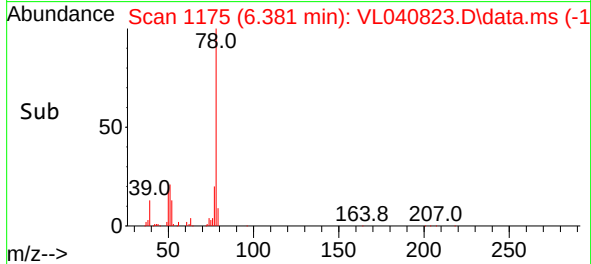
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



Tgt Ion: 78 Resp: 10372
Ion Ratio Lower Upper
78 100
77 19.7 18.4 27.6
50 17.7 15.0 22.4

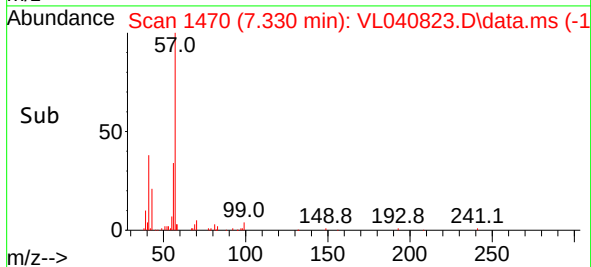
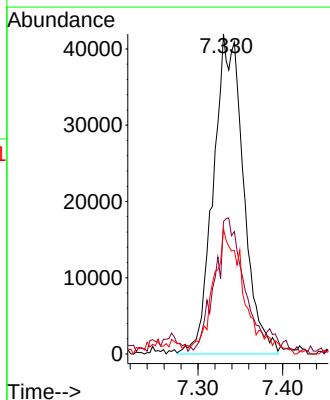
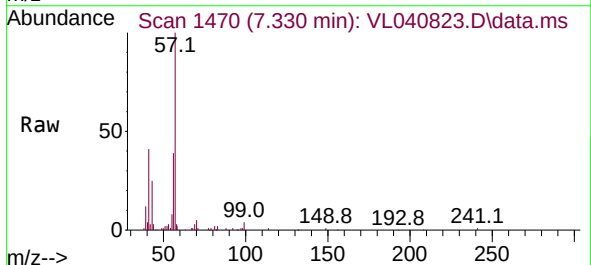
Manual Integrations
APPROVED

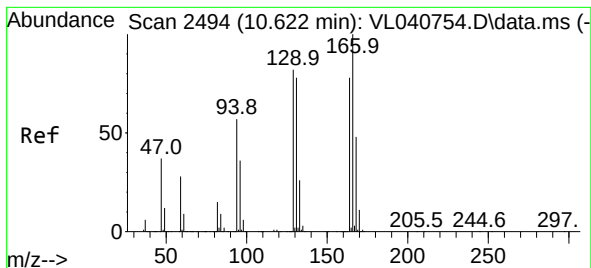
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#44
2,2,4-Trimethylpentane
Concen: 0.306 ppbv m
RT: 7.330 min Scan# 1470
Delta R.T. -0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

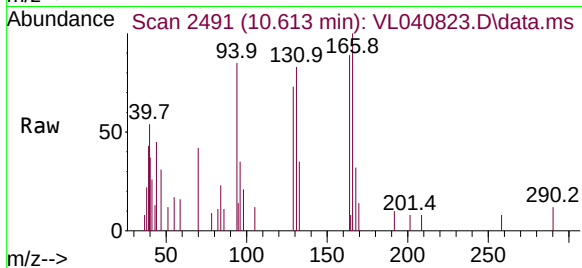
Tgt Ion: 57 Resp: 103011
Ion Ratio Lower Upper
57 100
41 46.2 27.4 41.0#
56 45.2 25.0 37.6#





#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 10.613 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

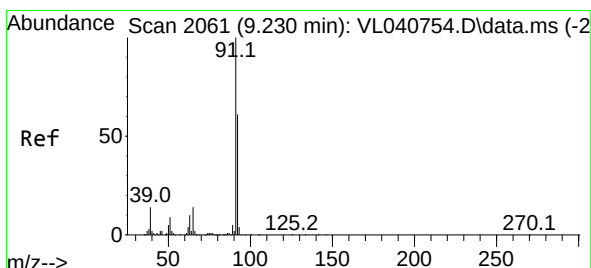
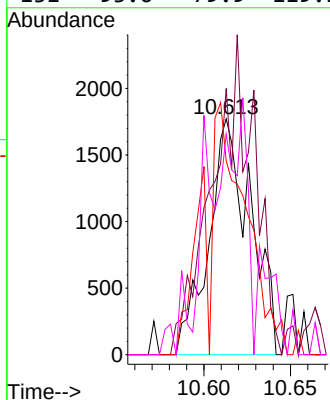
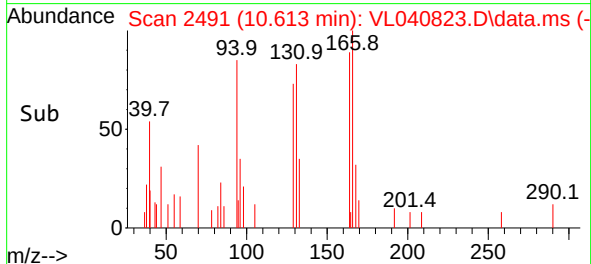
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



Tgt Ion:164 Resp: 2989
Ion Ratio Lower Upper
164 100
166 112.9 102.4 153.6
129 82.2 84.2 126.4
131 93.6 79.9 119.9

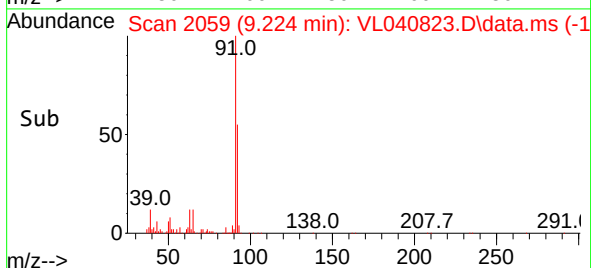
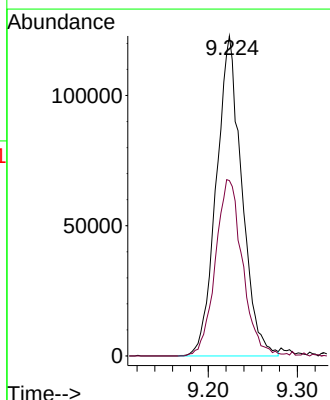
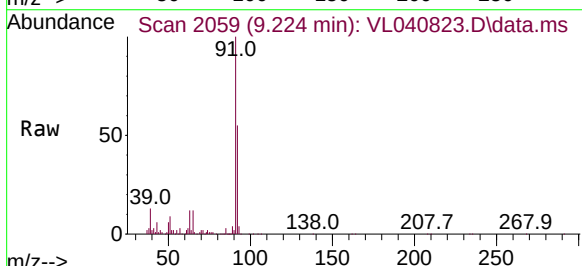
Manual Integrations
APPROVED

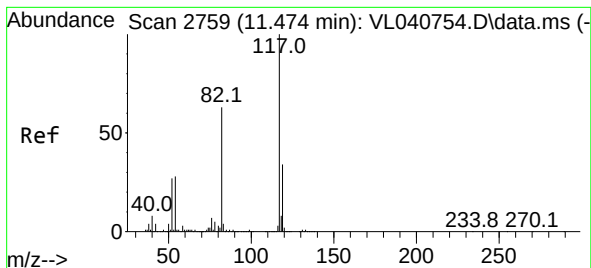
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#53
Toluene
Concen: 1.031 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

Tgt Ion: 91 Resp: 244282
Ion Ratio Lower Upper
91 100
92 58.9 50.2 75.2





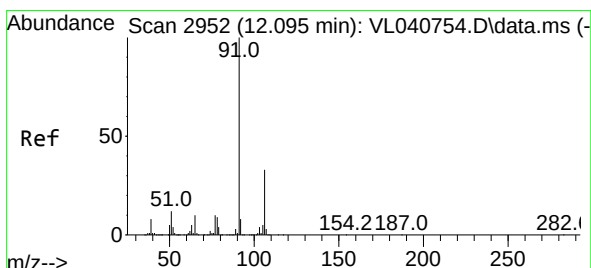
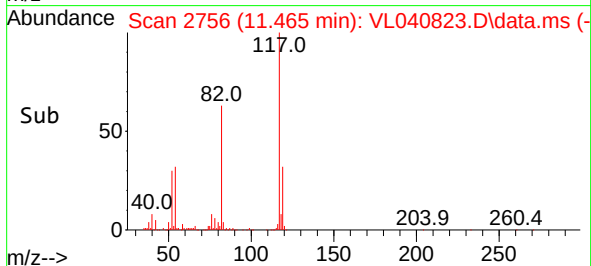
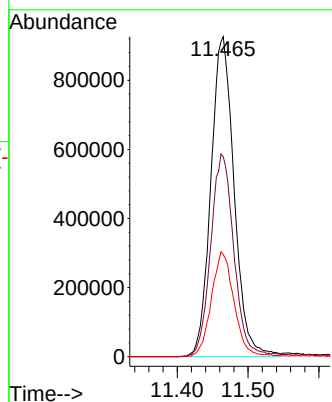
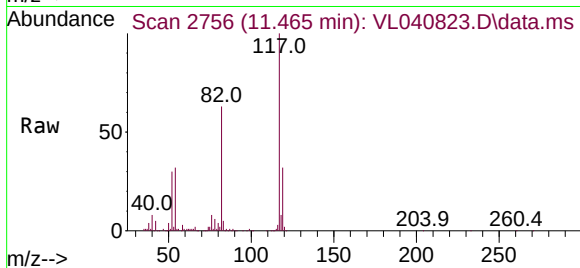
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2111268
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1

Tgt Ion:117 Resp: 2111268
Ion Ratio Lower Upper
117 100
82 63.7 46.6 70.0
119 32.0 26.0 39.0

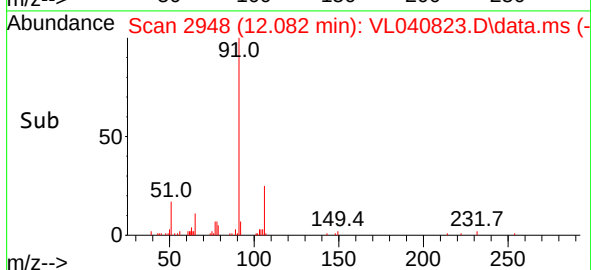
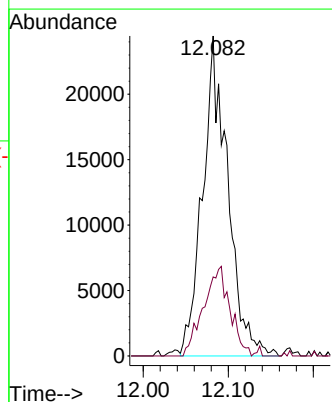
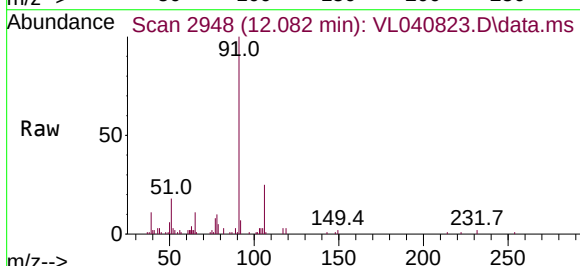
Manual Integrations
APPROVED

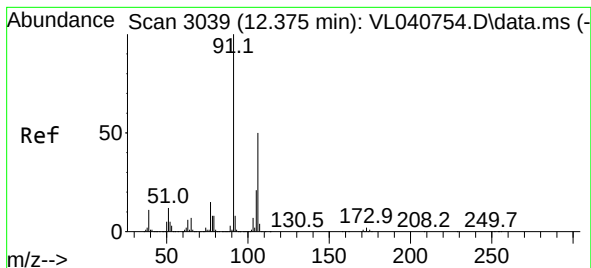
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#58
Ethyl Benzene
Concen: 0.189 ppbv m
RT: 12.082 min Scan# 2948
Delta R.T. 0.000 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

Tgt Ion: 91 Resp: 50188
Ion Ratio Lower Upper
91 100
106 24.7 26.7 40.1#





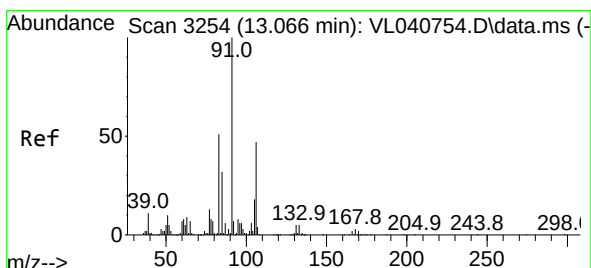
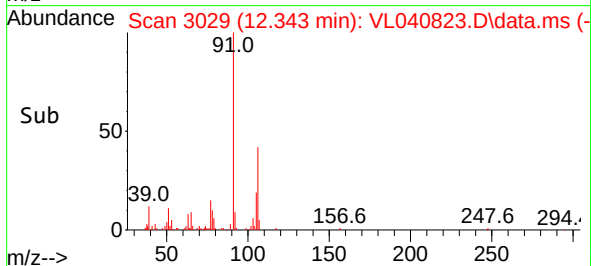
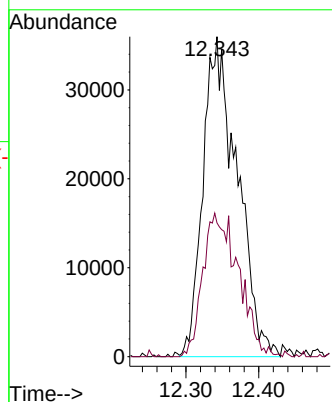
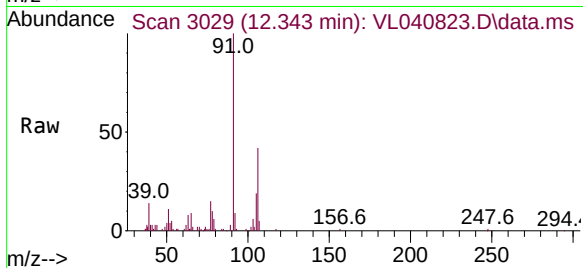
#59
m/p-Xylene
Concen: 0.536 ppbv m
RT: 12.343 min Scan# 3039
Delta R.T. -0.026 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1

Tgt Ion: 91 Resp: 117199
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5

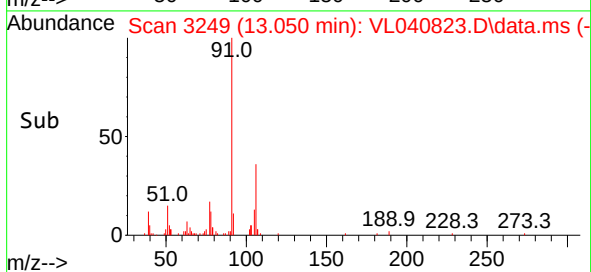
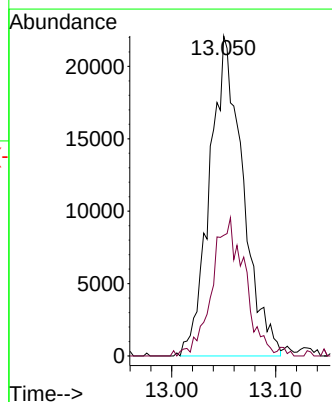
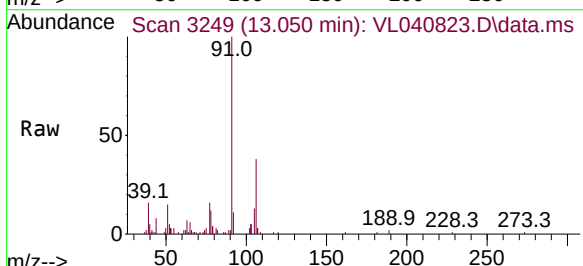
Manual Integrations
APPROVED

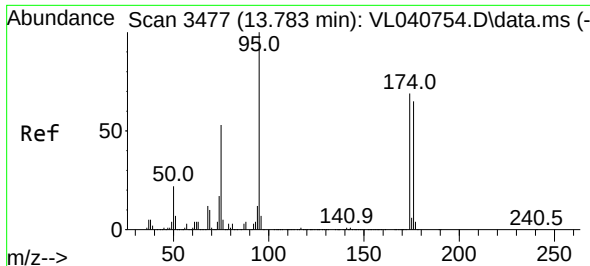
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#60
o-Xylene
Concen: 0.235 ppbv m
RT: 13.050 min Scan# 3249
Delta R.T. -0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

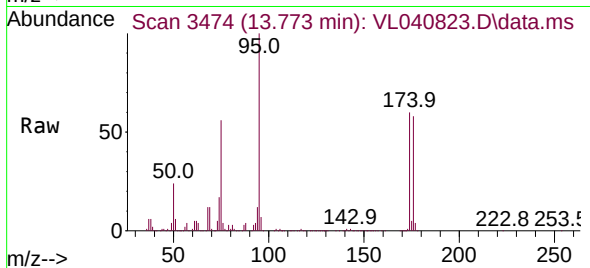
Tgt Ion: 91 Resp: 49066
Ion Ratio Lower Upper
91 100
106 43.0 23.5 70.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.703 ppbv
RT: 13.773 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15

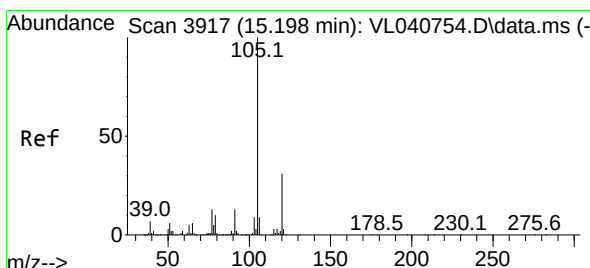
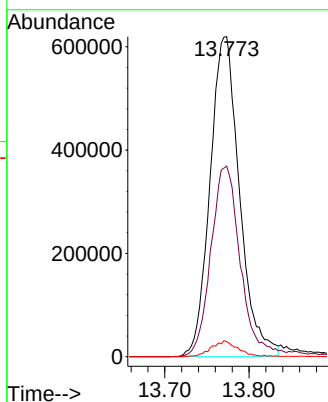
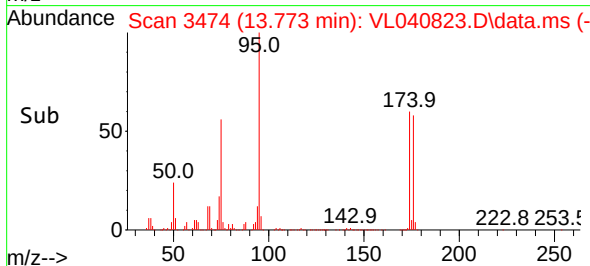
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-1



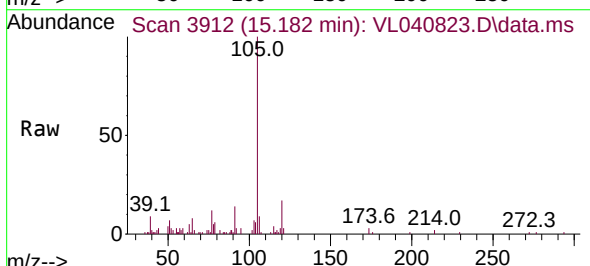
Tgt Ion: 95 Resp: 150746
Ion Ratio Lower Upper
95 100
174 61.2 54.7 82.1
175 4.7 4.2 6.4

Manual Integrations
APPROVED

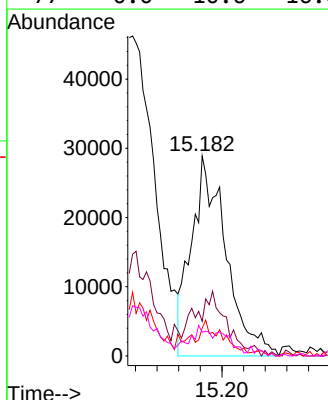
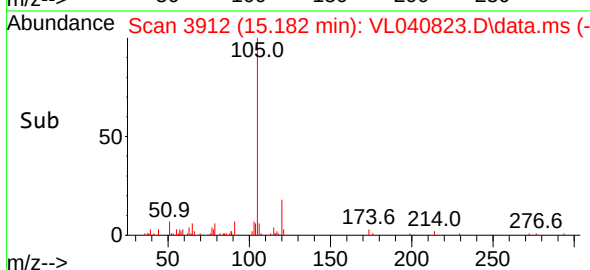
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

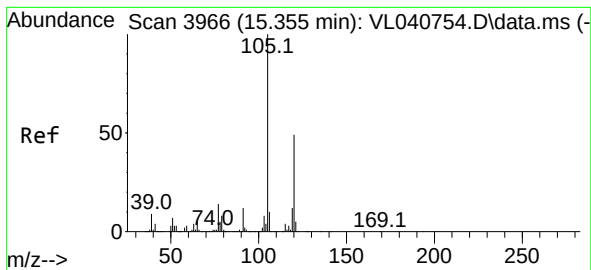


#72
4-Ethyltoluene
Concen: 0.262 ppbv m
RT: 15.182 min Scan# 3912
Delta R.T. -0.003 min
Lab File: VL040823.D
Acq: 8 Nov 2023 23:15



Tgt Ion:105 Resp: 64058
Ion Ratio Lower Upper
105 100
120 34.5 25.0 37.4
91 0.0 9.8 14.8#
77 0.0 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.244 ppbv

RT: 15.349 min Scan# 3966

Delta R.T. 0.007 min

Lab File: VL040823.D

Acq: 8 Nov 2023 23:15

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-1

Tgt Ion:105 Resp: 5248

Ion Ratio Lower Upper

105 100

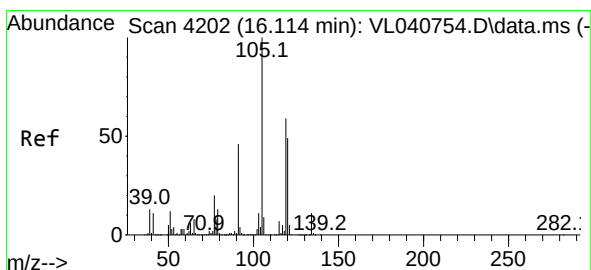
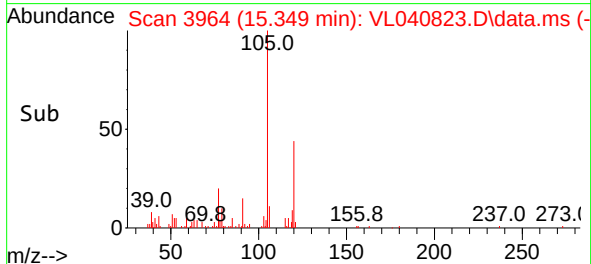
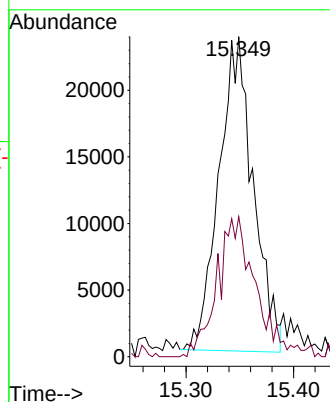
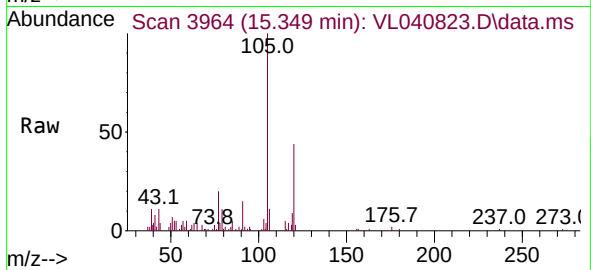
120 47.9 39.4 59.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2023

Supervised By :Mahesh Dadoda 11/13/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.894 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.000 min

Lab File: VL040823.D

Acq: 8 Nov 2023 23:15

Tgt Ion:105 Resp: 209869

Ion Ratio Lower Upper

105 100

120 42.9 39.4 59.2

91 10.3 38.6 58.0#

77 16.0 16.6 25.0#

