

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040123.D
 Acq On : 19 Jan 2023 21:23
 Operator : SY/MD
 Sample : 01223-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023
 Supervised By :Mahesh Dadoda 01/20/2023

Quant Time: Jan 20 02:10:23 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

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

QLast Update : Mon Jan 16 14:40:47 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1006273	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.674	114	2727361	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.497	117	2484881	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.809	95	2283125	11.055	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	18867	0.107	ppbv	96
4) Chloromethane	2.812	50	11067	0.148	ppbv #	81
10) Heptane	7.603	43	110218	0.954	ppbv #	27
13) Ethanol	3.240	45	470815	102.006	ppbv	96
15) Acetone	3.465	43	4873170	40.380	ppbv #	85
17) tert-Butyl alcohol	3.896	59	48722	0.434	ppbv #	72
19) Isopropyl Alcohol	3.587	45	93762	1.588	ppbv #	90
20) Methylene Chloride	3.941	84	119354	2.242	ppbv	96
25) Ethyl Acetate	5.217	43	293515	1.381	ppbv	97
26) Hexane	5.230	57	172083m	1.849	ppbv	
30) Cyclohexane	6.623	84	599321	8.103	ppbv	96
34) 2-Butanone	4.793	43	2227104	17.263	ppbv	99
36) Benzene	6.388	78	131088	0.649	ppbv	96
41) Tetrahydrofuran	5.574	42	427689m	5.744	ppbv	
44) 2,2,4-Trimethylpentane	7.352	57	10230464	30.480	ppbv #	72
52) Tetrachloroethene	10.651	164	20625m	0.312	ppbv	
53) Toluene	9.249	91	594597	2.762	ppbv	100
58) Ethyl Benzene	12.121	91	268379	0.968	ppbv	99
59) m/p-Xylene	12.381	91	598476	2.400	ppbv	91
60) o-Xylene	13.092	91	262334	1.108	ppbv	98
62) Isopropylbenzene	14.063	105	70492	0.207	ppbv	99
72) 4-Ethyltoluene	15.227	105	96869m	0.369	ppbv	
73) 1,3,5-Trimethylbenzene	15.387	105	80081	0.339	ppbv	94
74) 1,2,4-Trimethylbenzene	16.143	105	205889	0.786	ppbv #	66

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

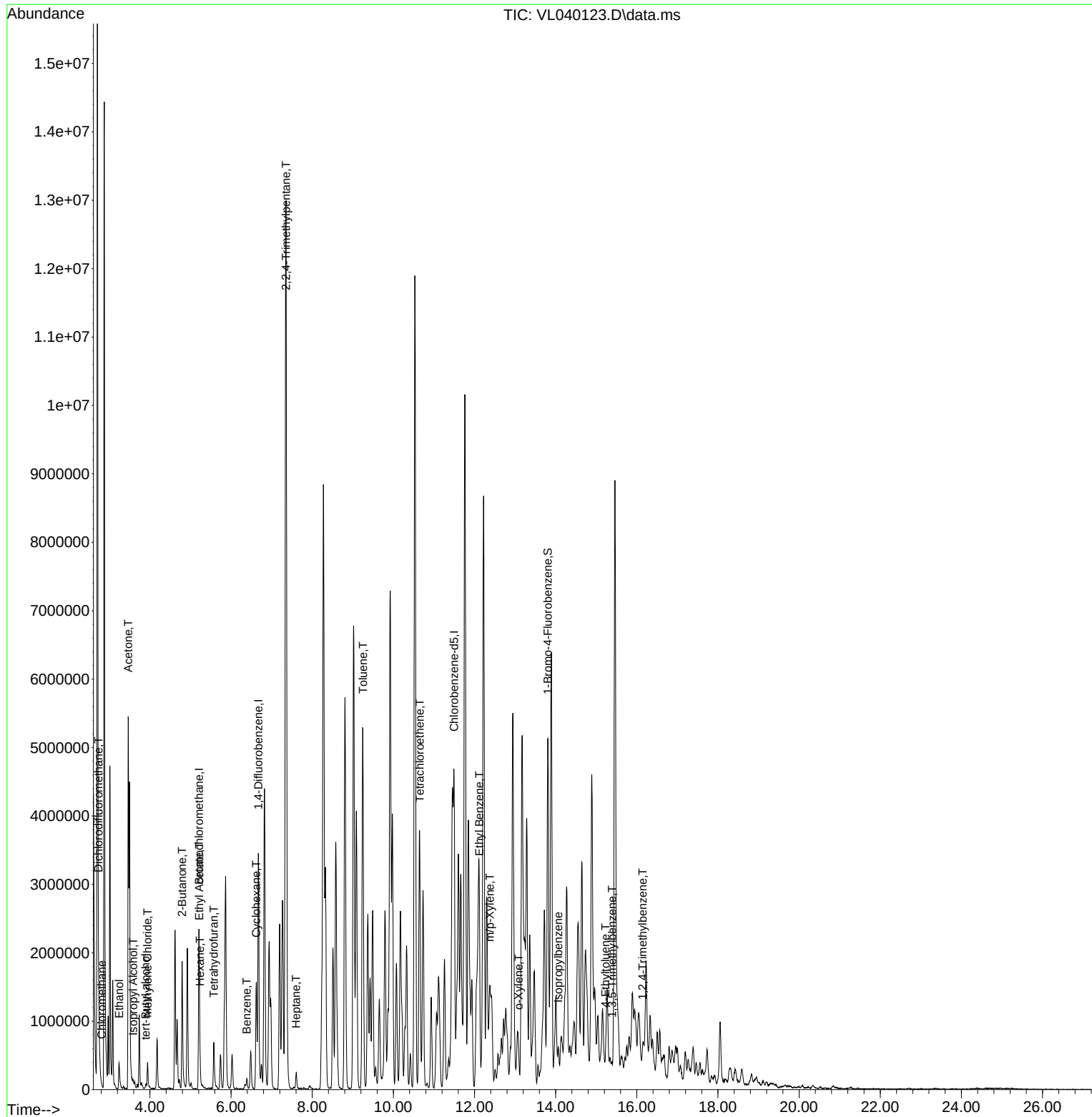
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
Data File : VL040123.D
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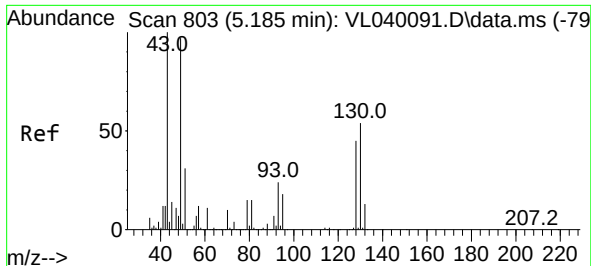
Instrument :
MSVOA_L
ClientSampleId :
VP-2

Quant Time: Jan 20 02:10:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jan 16 14:40:47 2023
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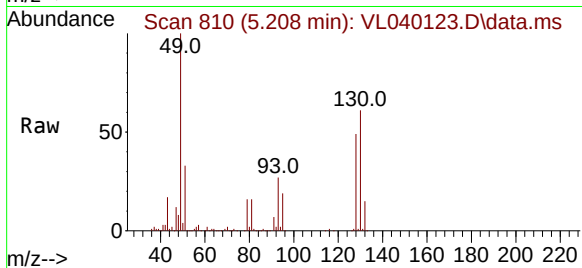
Reviewed By : Semsettin Yesilyurt 01/20/2023
Supervised By : Mahesh Dadoda 01/20/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

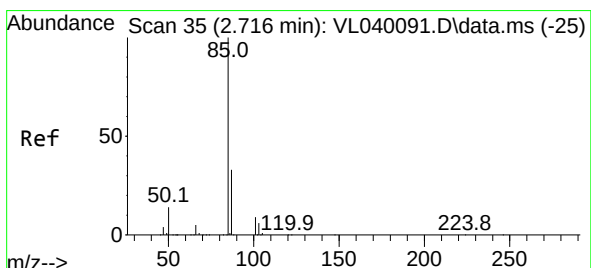
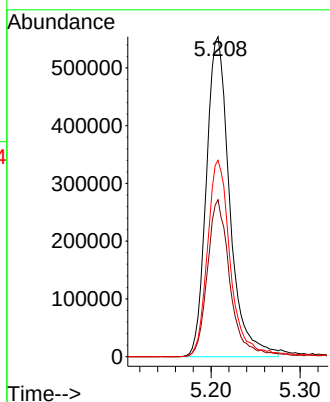
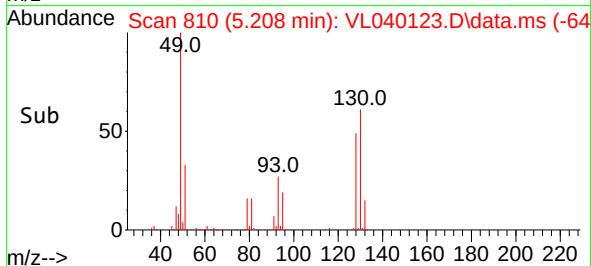
Instrument :
MSVOA_L
ClientSampleId :
VP-2



Tgt Ion: 49 Resp: 100627
Ion Ratio Lower Upper
49 100
128 48.6 23.6 71.0
130 61.5 29.8 89.3

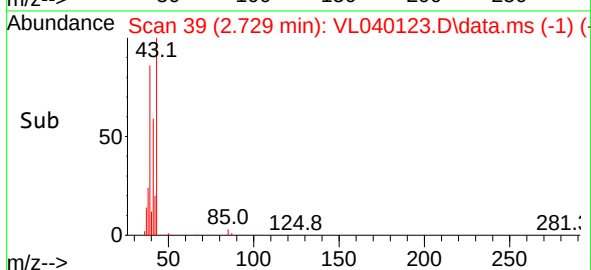
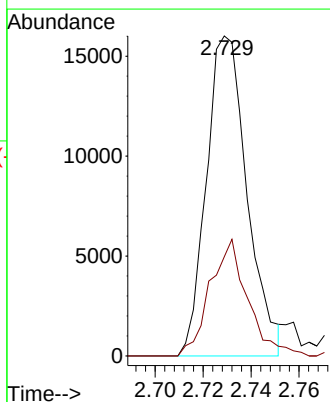
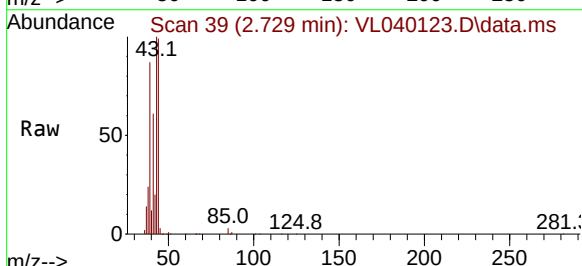
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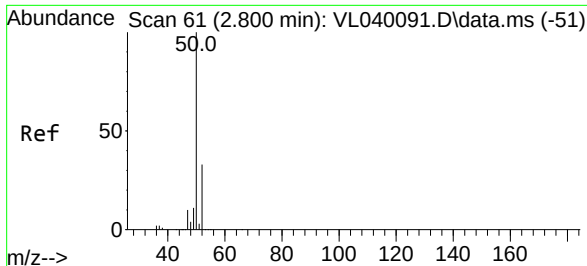
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#2
Dichlorodifluoromethane
Concen: 0.107 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.013 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

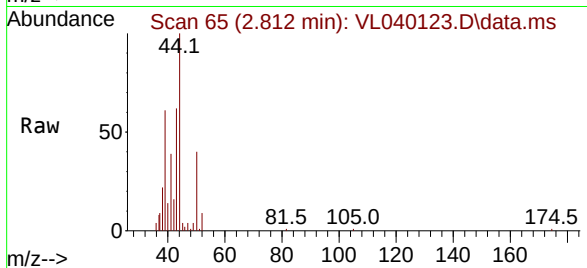
Tgt Ion: 85 Resp: 18867
Ion Ratio Lower Upper
85 100
87 31.0 26.5 39.7





#4
Chloromethane
Concen: 0.148 ppbv
RT: 2.812 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

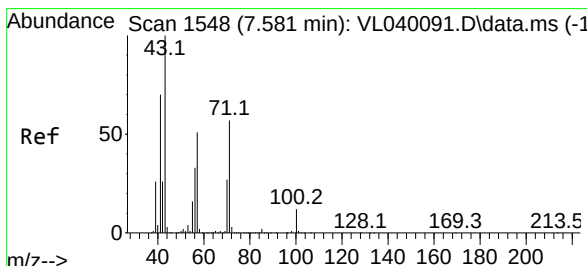
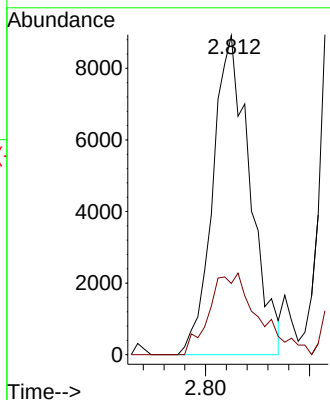
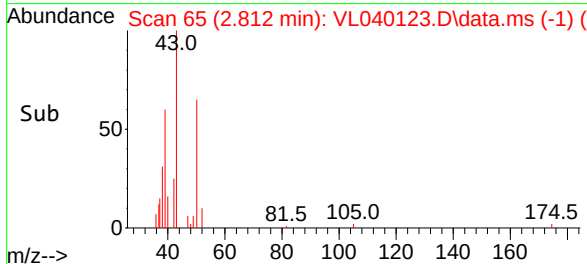
Instrument :
MSVOA_L
ClientSampleId :
VP-2



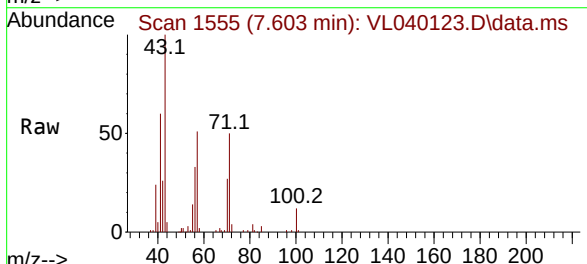
Tgt Ion: 50 Resp: 1106
Ion Ratio Lower Upper
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52 22.3 26.5 39.7

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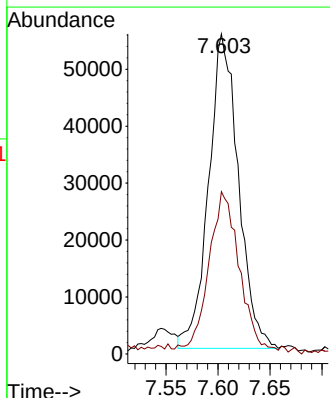
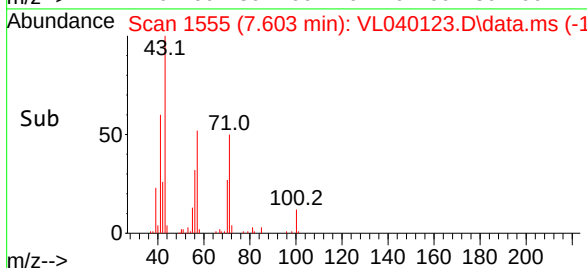
Reviewed By :Semsettin Yesilyurt 01/20/2023
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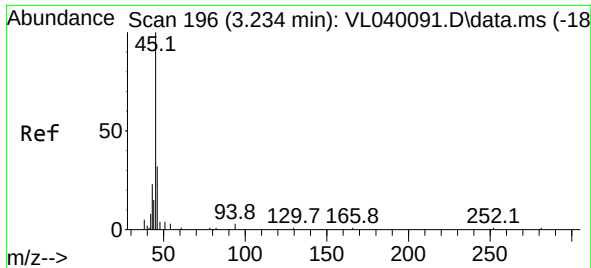


#10
Heptane
Concen: 0.954 ppbv
RT: 7.603 min Scan# 1555
Delta R.T. 0.022 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23



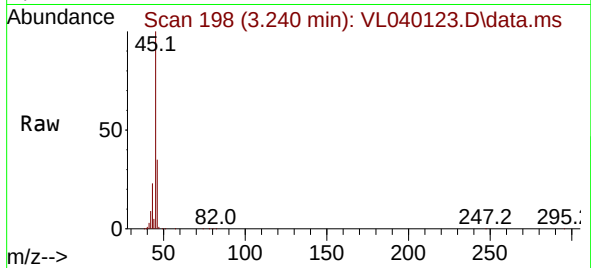
Tgt Ion: 43 Resp: 110218
Ion Ratio Lower Upper
43 100
57 0.0 40.9 61.3





#13
Ethanol
Concen: 102.006 ppbv
RT: 3.240 min Scan# 196
Delta R.T. 0.006 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

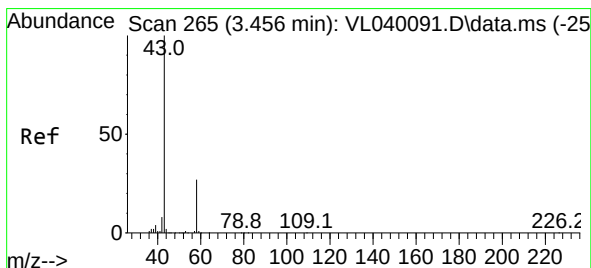
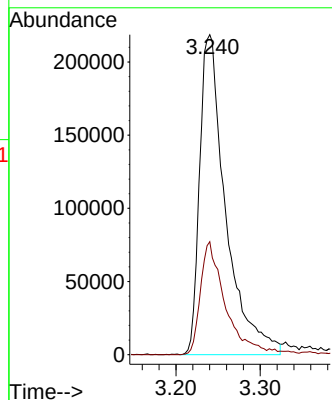
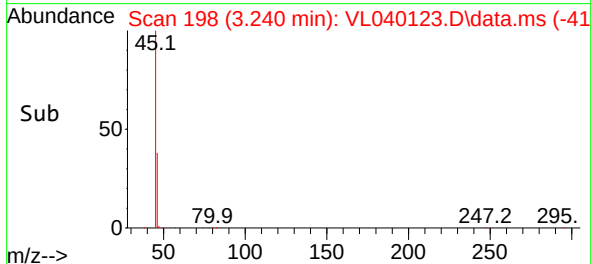
Instrument :
MSVOA_L
ClientSampleId :
VP-2



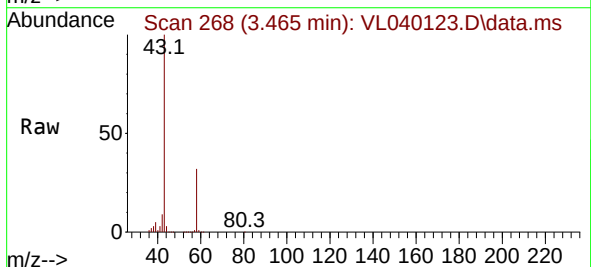
Tgt Ion: 45 Resp: 470815
Ion Ratio Lower Upper
45 100
46 34.9 14.8 59.2

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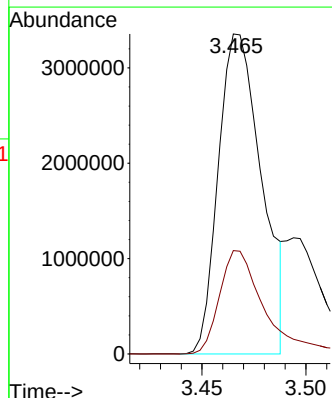
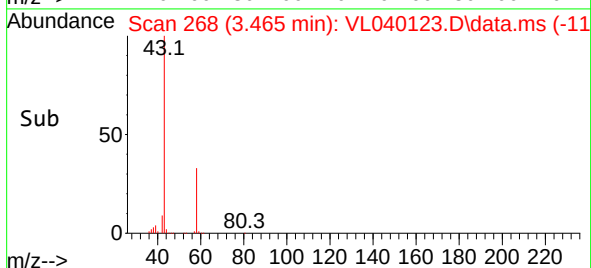
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

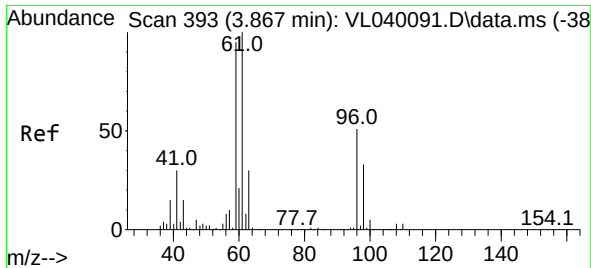


#15
Acetone
Concen: 40.380 ppbv
RT: 3.465 min Scan# 268
Delta R.T. 0.010 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23



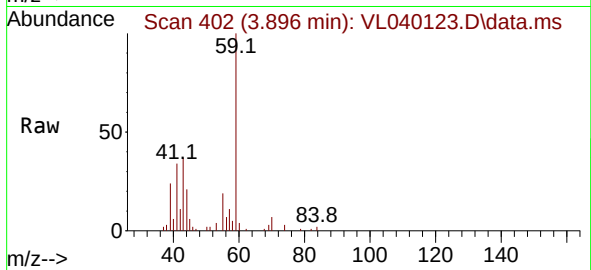
Tgt Ion: 43 Resp: 4873170
Ion Ratio Lower Upper
43 100
58 35.3 21.8 32.8#





#17
tert-Butyl alcohol
Concen: 0.434 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.029 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

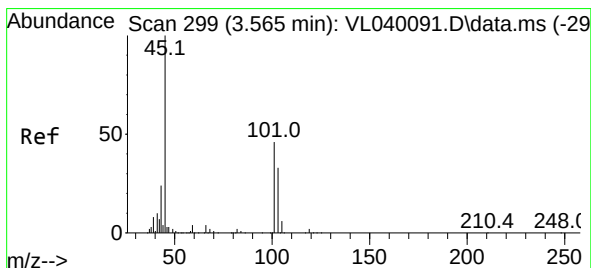
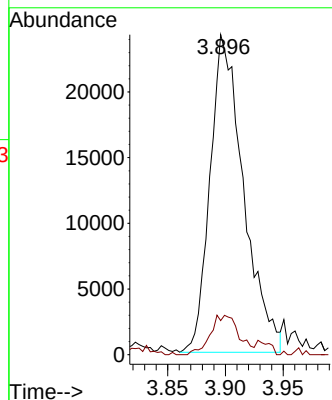
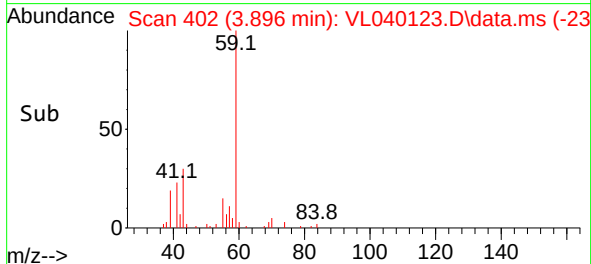
Instrument :
MSVOA_L
ClientSampleId :
VP-2



Tgt Ion: 59 Resp: 4872
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7

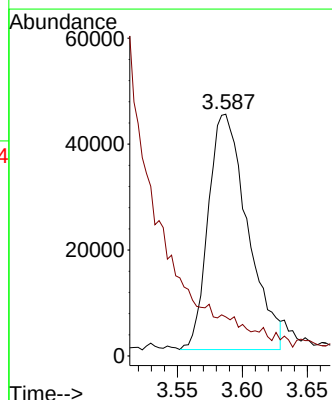
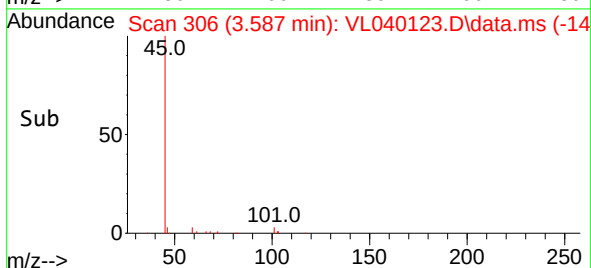
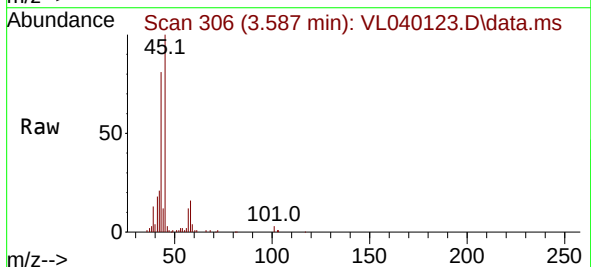
Manual Integrations
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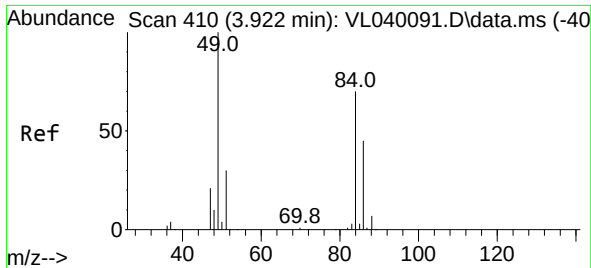
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#19
Isopropyl Alcohol
Concen: 1.588 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.022 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

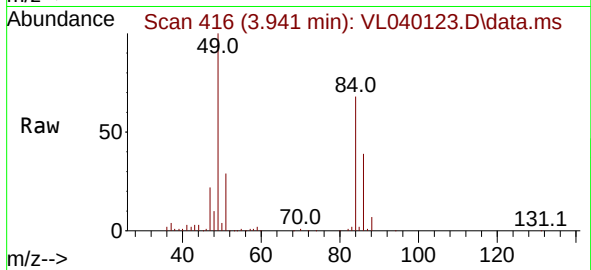
Tgt Ion: 45 Resp: 93762
Ion Ratio Lower Upper
45 100
58 0.0 2.6 4.0





#20
Methylene Chloride
Concen: 2.242 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.019 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

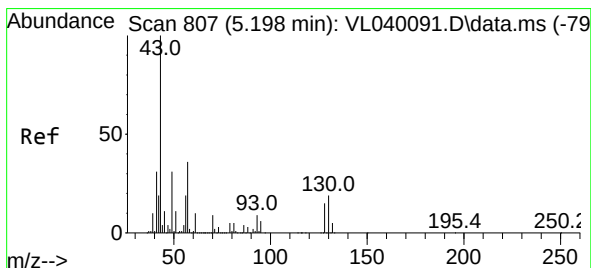
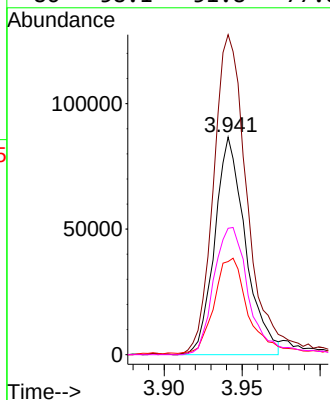
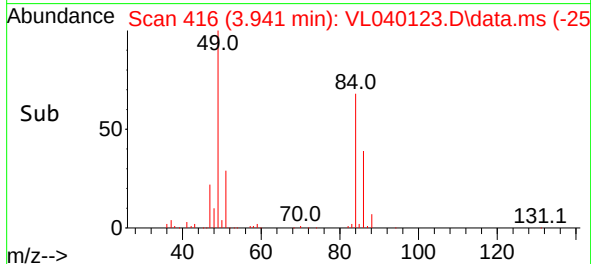
Instrument :
MSVOA_L
ClientSampleId :
VP-2



Tgt Ion: 84 Resp: 119354
Ion Ratio Lower Upper
84 100
49 147.1 114.6 171.8
51 42.2 34.3 51.5
86 58.1 51.8 77.8

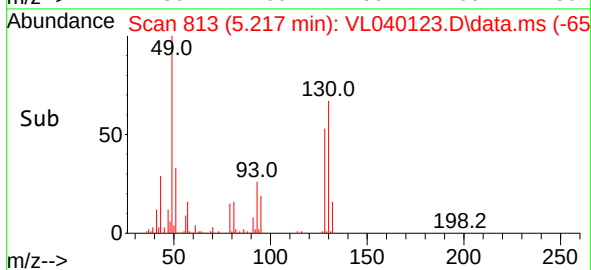
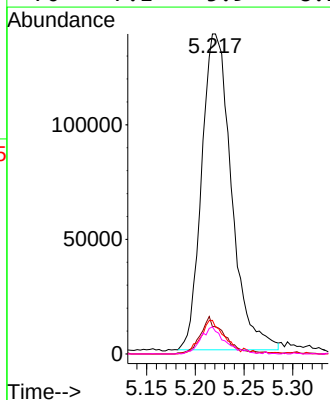
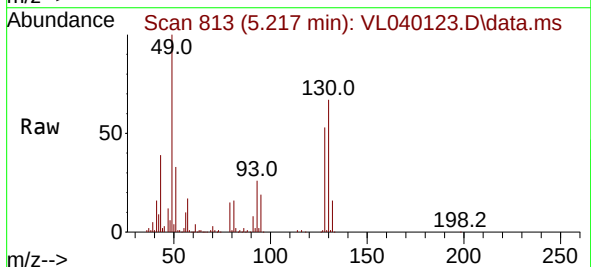
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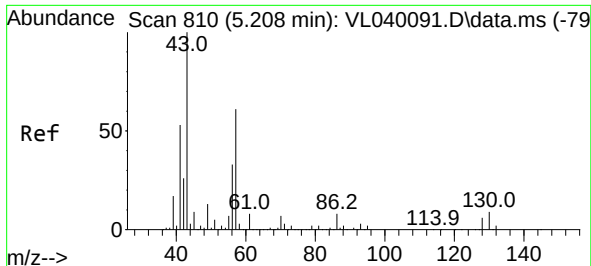
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#25
Ethyl Acetate
Concen: 1.381 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.019 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

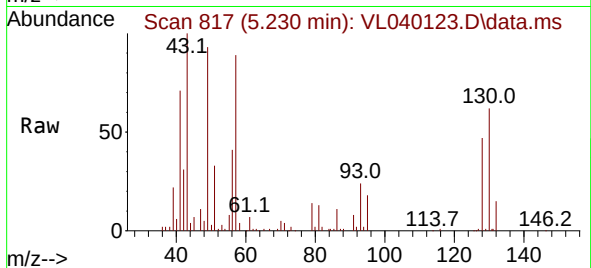
Tgt Ion: 43 Resp: 293515
Ion Ratio Lower Upper
43 100
45 9.6 8.5 12.7
61 8.9 8.4 12.6
70 7.1 5.9 8.9





#26
Hexane
Concen: 1.849 ppbv m
RT: 5.230 min Scan# 810
Delta R.T. 0.022 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

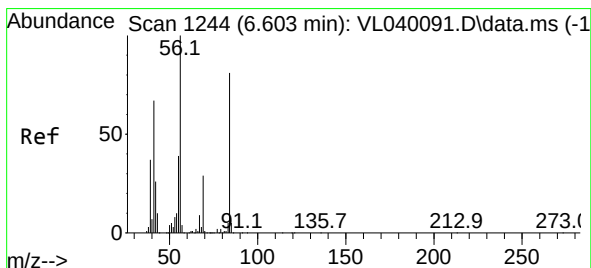
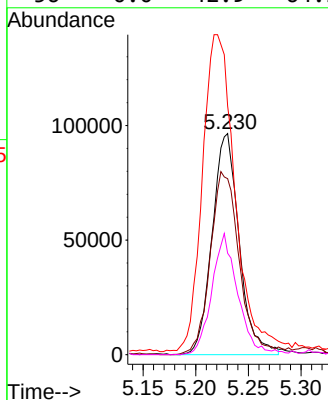
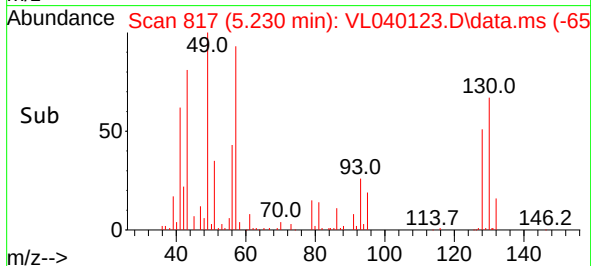
Instrument :
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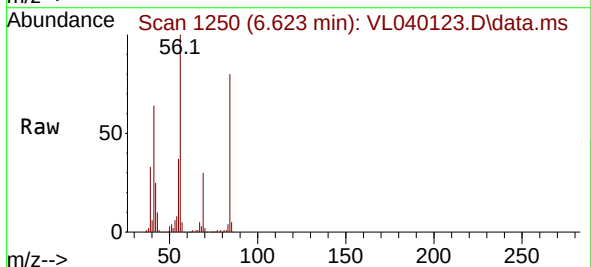
Tgt Ion: 57 Resp: 172083
Ion Ratio Lower Upper
57 100
41 0.0 72.2 108.4
43 0.0 192.1 288.1
56 0.0 42.9 64.3

Manual Integrations
APPROVED

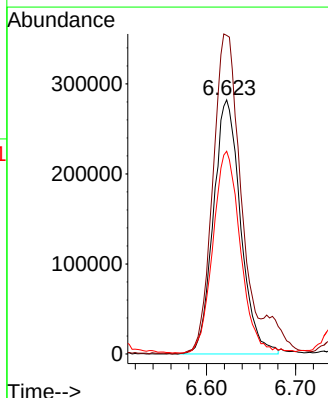
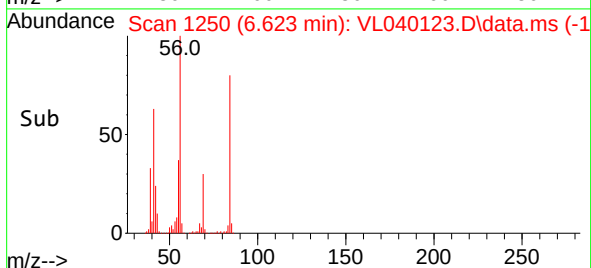
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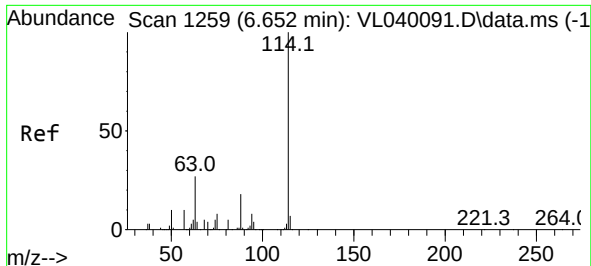


#30
Cyclohexane
Concen: 8.103 ppbv
RT: 6.623 min Scan# 1250
Delta R.T. 0.019 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23



Tgt Ion: 84 Resp: 599321
Ion Ratio Lower Upper
84 100
56 138.5 111.5 167.3
41 80.8 71.4 107.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 114

Delta R.T. 0.022 min

Lab File: VL040123.D

Acq: 19 Jan 2023 21:23

Instrument :

MSVOA_L

ClientSampleId :

VP-2

Tgt Ion:114 Resp: 272736

Ion Ratio Lower Upper

114 100

63 24.6 21.8 32.8

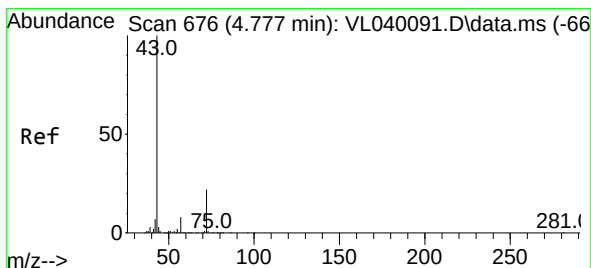
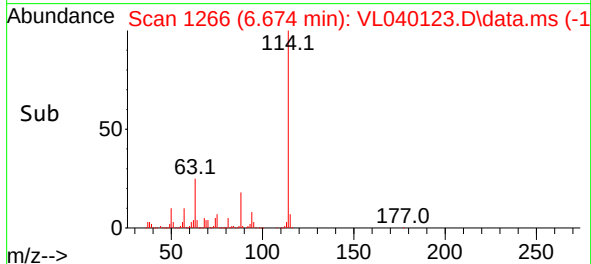
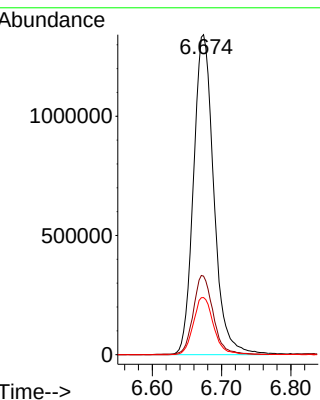
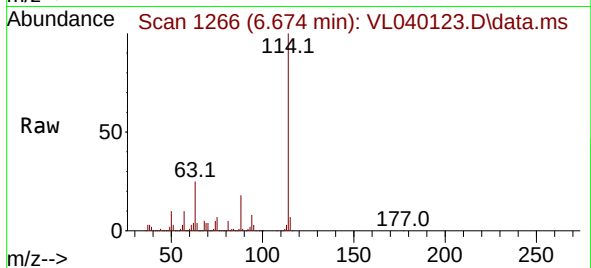
88 17.9 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#34

2-Butanone

Concen: 17.263 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.016 min

Lab File: VL040123.D

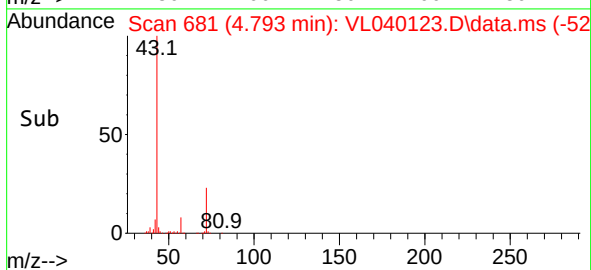
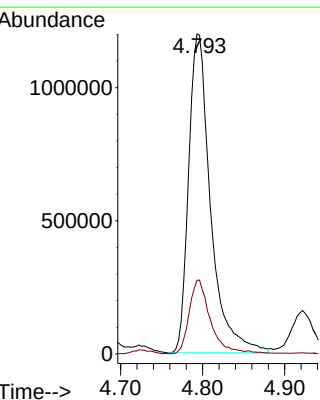
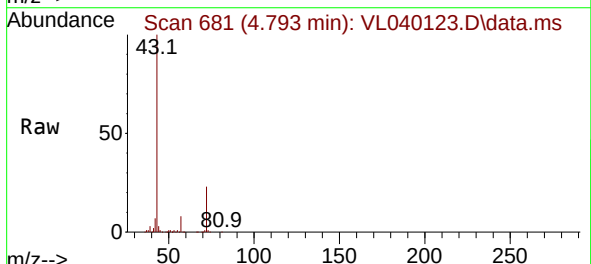
Acq: 19 Jan 2023 21:23

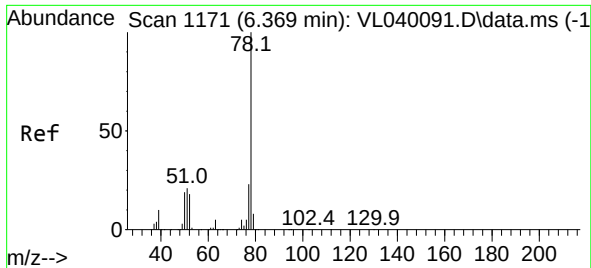
Tgt Ion: 43 Resp: 2227104

Ion Ratio Lower Upper

43 100

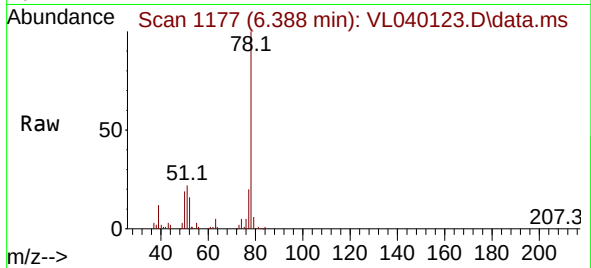
72 22.4 18.4 27.6





#36
Benzene
Concen: 0.649 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. 0.019 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

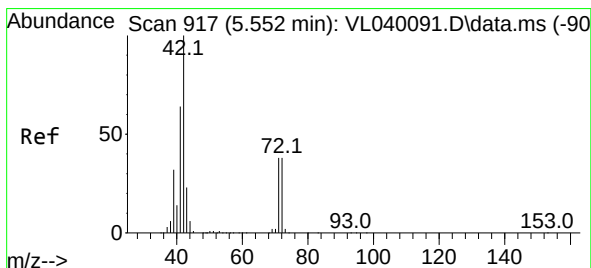
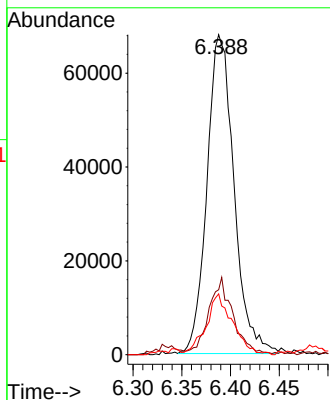
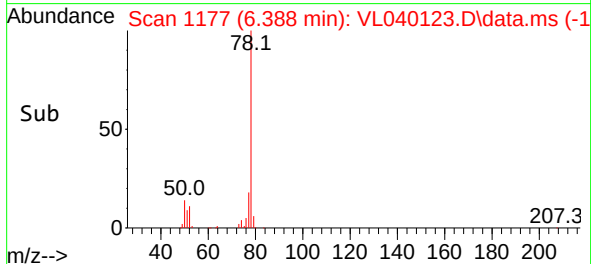
Instrument :
MSVOA_L
ClientSampleId :
VP-2



Tgt Ion: 78 Resp: 131088
Ion Ratio Lower Upper
78 100
77 20.0 18.1 27.1
50 18.0 15.6 23.4

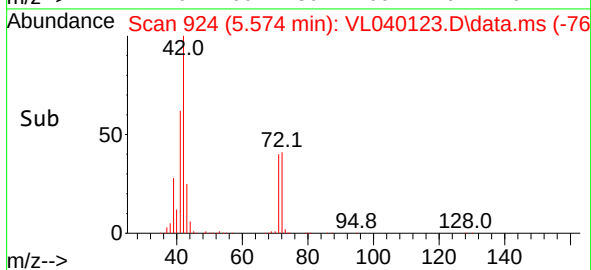
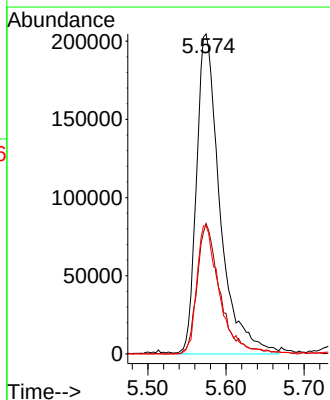
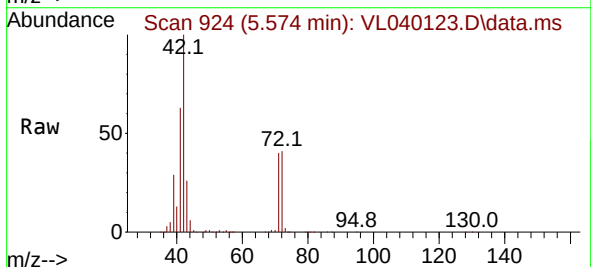
Manual Integrations
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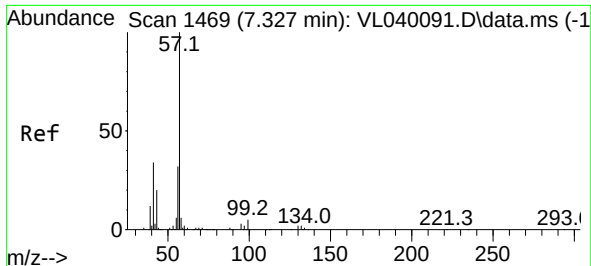
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#41
Tetrahydrofuran
Concen: 5.744 ppbv m
RT: 5.574 min Scan# 924
Delta R.T. 0.022 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

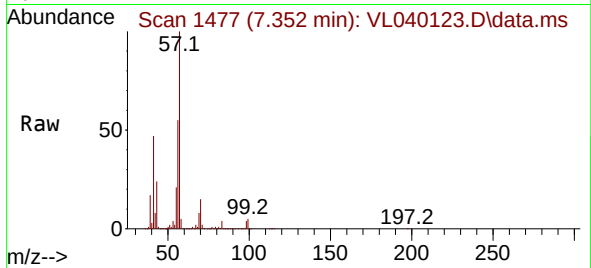
Tgt Ion: 42 Resp: 427689
Ion Ratio Lower Upper
42 100
72 40.1 31.9 47.9
71 39.6 31.4 47.2





#44
2,2,4-Trimethylpentane
Concen: 30.480 ppbv
RT: 7.352 min Scan# 1469
Delta R.T. 0.026 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

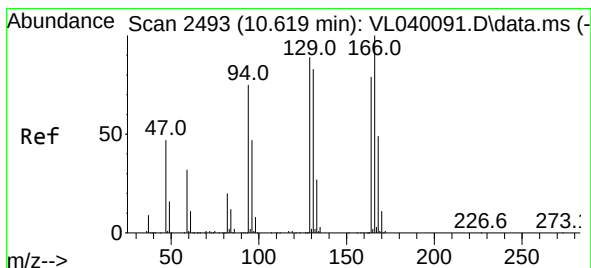
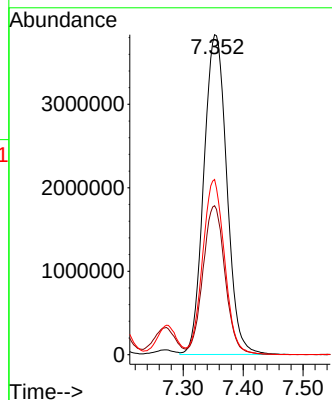
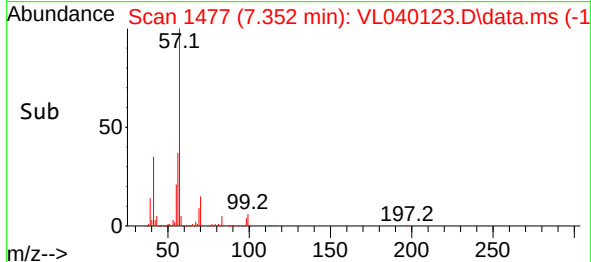
Instrument :
MSVOA_L
ClientSampleId :
VP-2



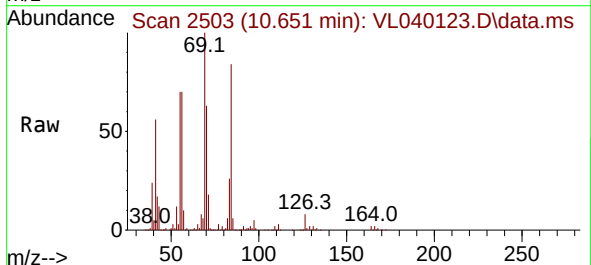
Tgt Ion: 57 Resp: 1023046
Ion Ratio Lower Upper
57 100
41 45.0 27.1 40.7
56 52.4 25.0 37.4

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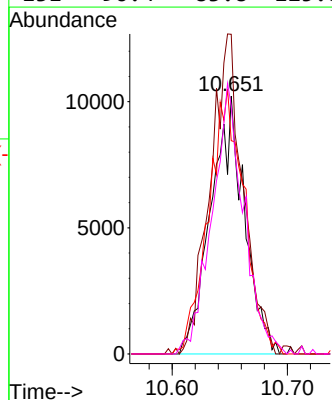
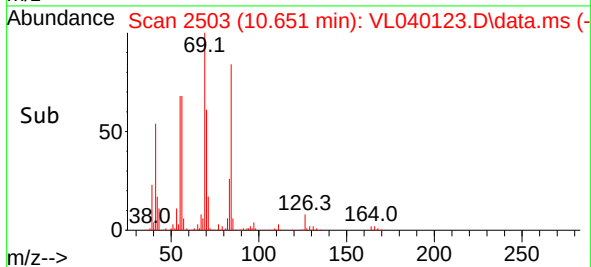
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

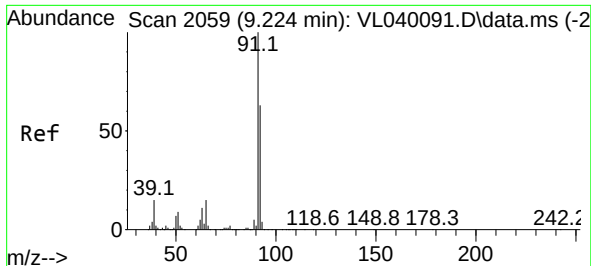


#52
Tetrachloroethene
Concen: 0.312 ppbv m
RT: 10.651 min Scan# 2503
Delta R.T. 0.032 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23



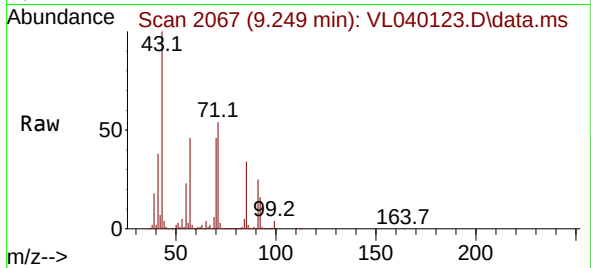
Tgt Ion: 164 Resp: 20625
Ion Ratio Lower Upper
164 100
166 124.0 101.2 151.8
129 82.8 90.2 135.2
131 96.4 83.8 125.8





#53
Toluene
Concen: 2.762 ppbv
RT: 9.249 min Scan# 2059
Delta R.T. 0.026 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

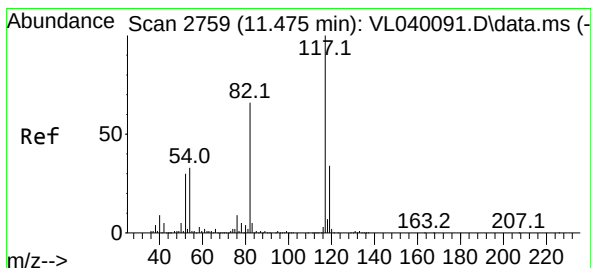
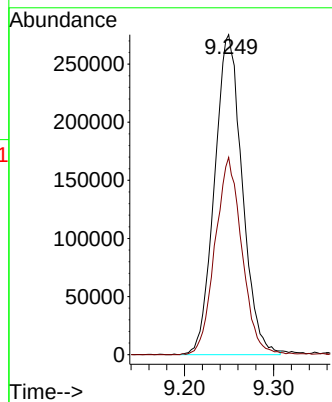
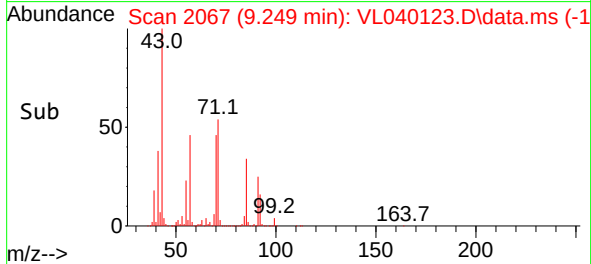
Instrument :
MSVOA_L
ClientSampleId :
VP-2



Tgt Ion: 91 Resp: 594597
Ion Ratio Lower Upper
91 100
92 60.2 48.3 72.5

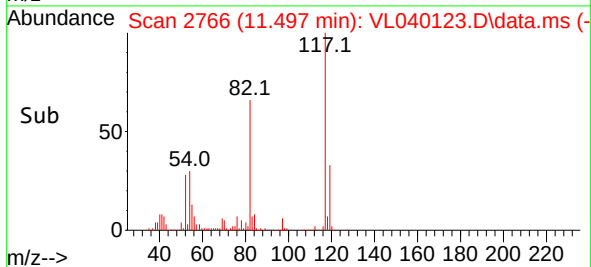
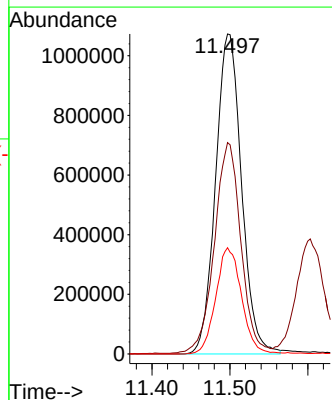
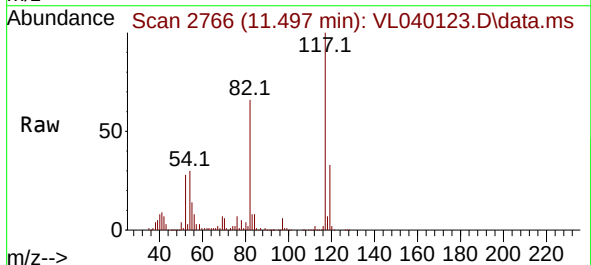
Manual Integrations
APPROVED

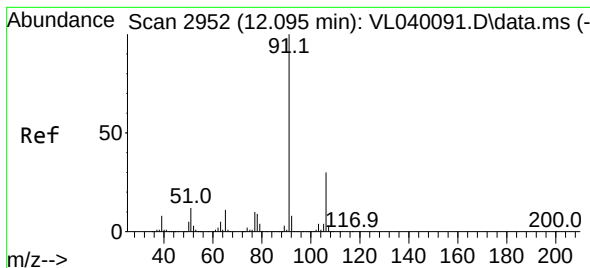
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.497 min Scan# 2766
Delta R.T. 0.022 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

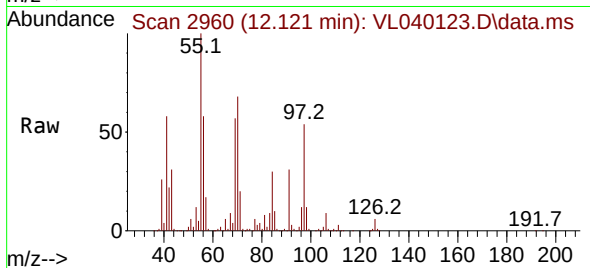
Tgt Ion:117 Resp: 2484881
Ion Ratio Lower Upper
117 100
82 67.3 54.4 81.6
119 33.1 26.8 40.2





#58
Ethyl Benzene
Concen: 0.968 ppbv
RT: 12.121 min Scan# 2952
Delta R.T. 0.026 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

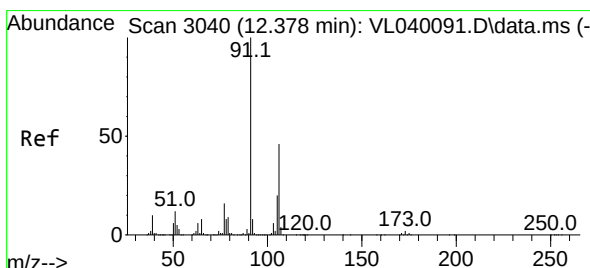
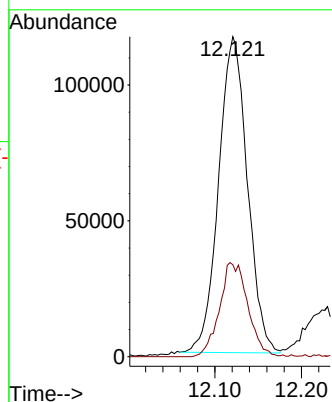
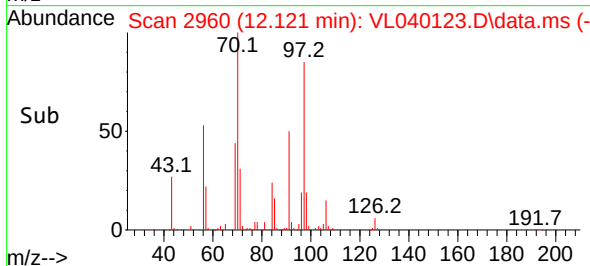
Instrument :
MSVOA_L
ClientSampleId :
VP-2



Tgt Ion: 91 Resp: 268379
Ion Ratio Lower Upper
91 100
106 29.2 23.7 35.5

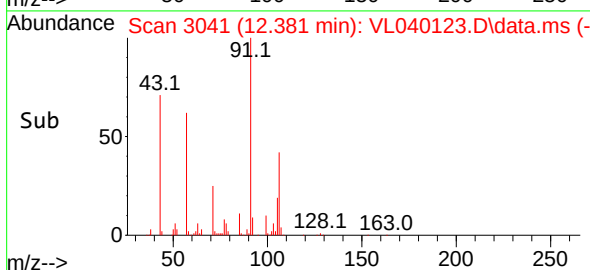
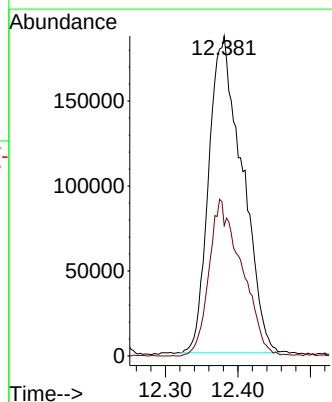
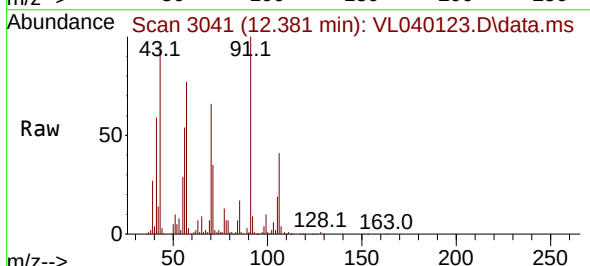
Manual Integrations
APPROVED

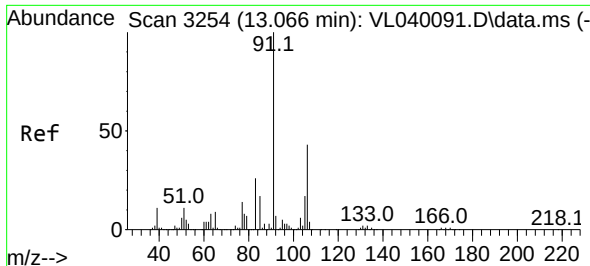
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#59
m/p-Xylene
Concen: 2.400 ppbv
RT: 12.381 min Scan# 3041
Delta R.T. 0.003 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

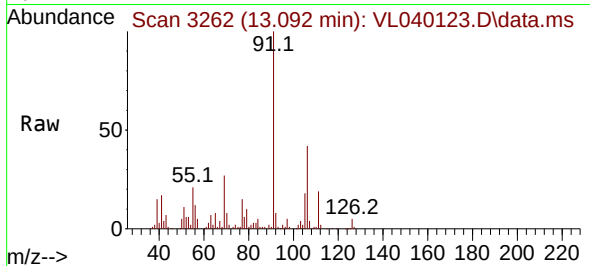
Tgt Ion: 91 Resp: 598476
Ion Ratio Lower Upper
91 100
106 48.4 34.2 51.4





#60
o-Xylene
Concen: 1.108 ppbv
RT: 13.092 min Scan# 31
Delta R.T. 0.026 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

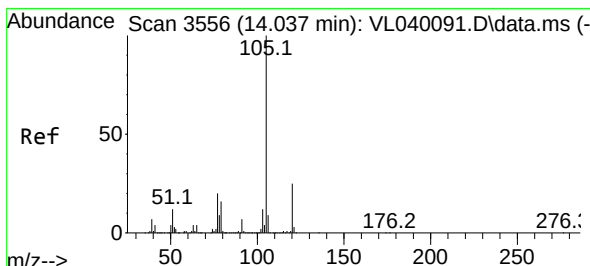
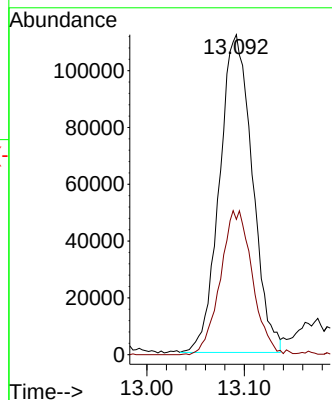
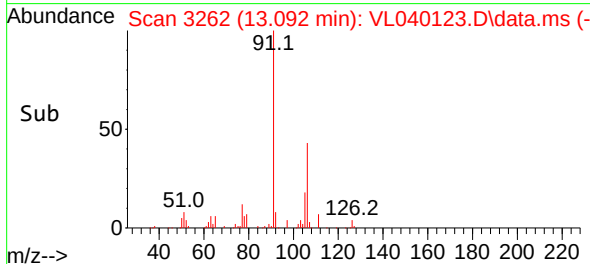
Instrument :
MSVOA_L
ClientSampleId :
VP-2



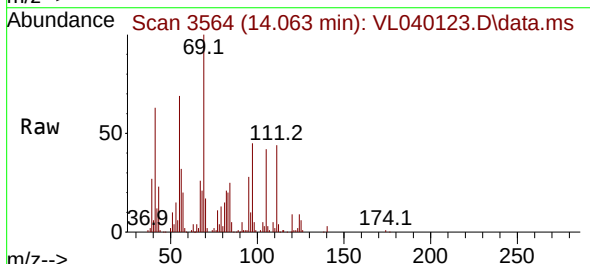
Tgt Ion: 91 Resp: 262334
Ion Ratio Lower Upper
91 100
106 44.3 21.6 64.8

Manual Integrations
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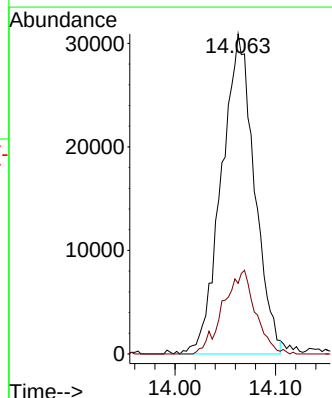
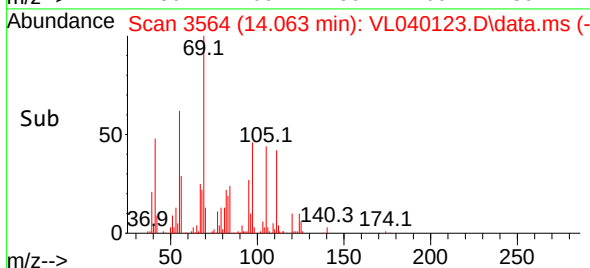
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

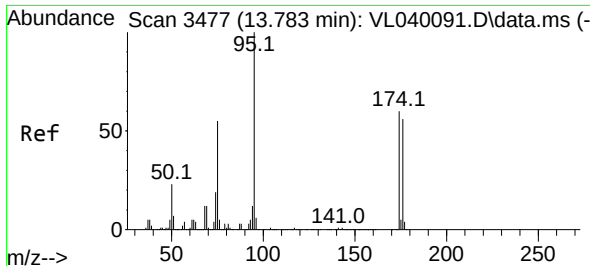


#62
Isopropylbenzene
Concen: 0.207 ppbv
RT: 14.063 min Scan# 3564
Delta R.T. 0.026 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23



Tgt Ion:105 Resp: 70492
Ion Ratio Lower Upper
105 100
120 25.5 20.2 30.2





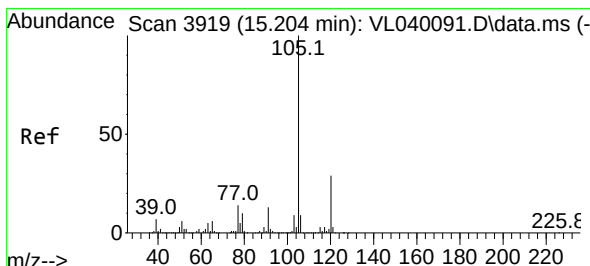
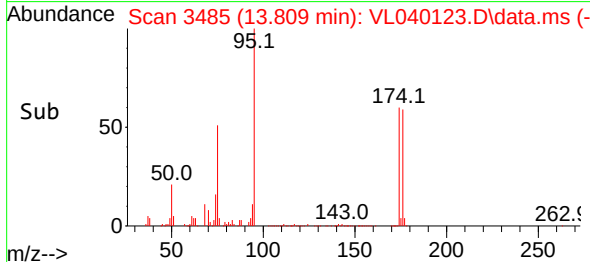
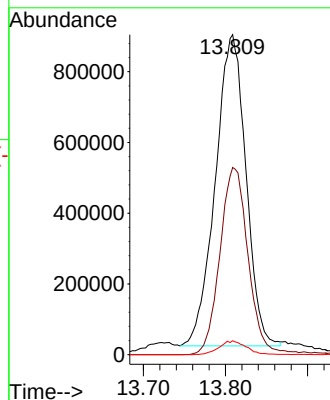
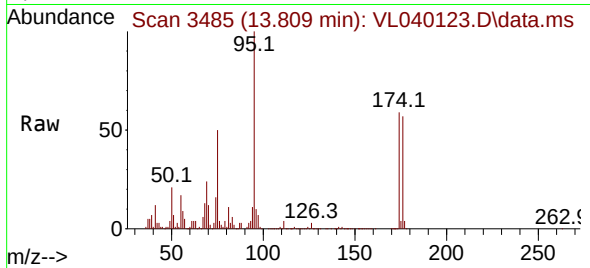
#68
1-Bromo-4-Fluorobenzene
Concen: 11.055 ppbv
RT: 13.809 min Scan# 3477
Delta R.T. 0.026 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

Instrument :
MSVOA_L
ClientSampleId :
VP-2

Tgt Ion: 95 Resp: 228312
Ion Ratio Lower Upper
95 100
174 56.5 47.7 71.5
175 4.0 3.4 5.2

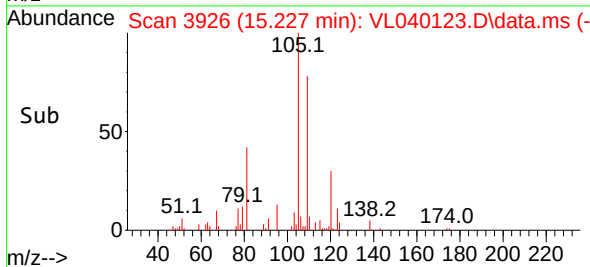
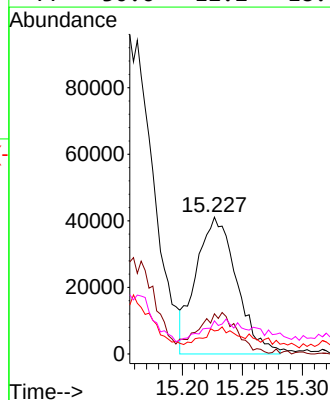
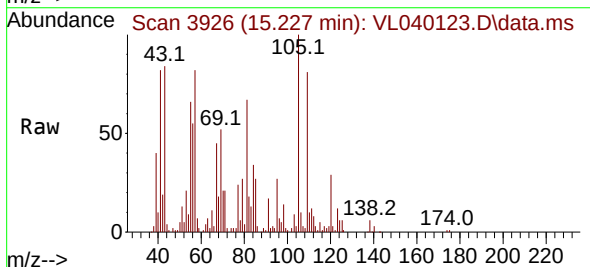
Manual Integrations
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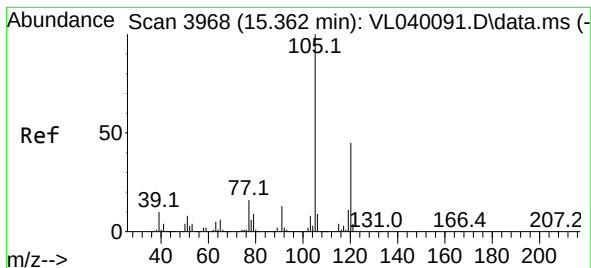
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#72
4-Ethyltoluene
Concen: 0.369 ppbv m
RT: 15.227 min Scan# 3926
Delta R.T. 0.022 min
Lab File: VL040123.D
Acq: 19 Jan 2023 21:23

Tgt Ion:105 Resp: 96869
Ion Ratio Lower Upper
105 100
120 30.6 23.1 34.7
91 22.6 11.2 16.8#
77 30.6 12.2 18.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.339 ppbv

RT: 15.387 min Scan# 3968

Delta R.T. 0.026 min

Lab File: VL040123.D

Acq: 19 Jan 2023 21:23

Instrument :

MSVOA_L

ClientSampleId :

VP-2

Tgt Ion:105 Resp: 8008

Ion Ratio Lower Upper

105 100

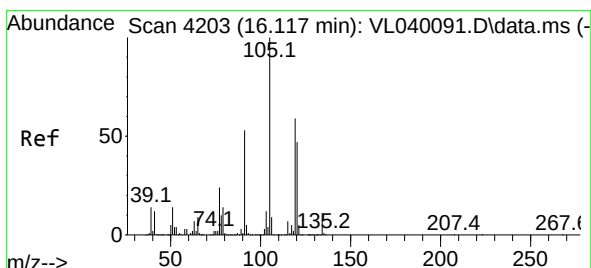
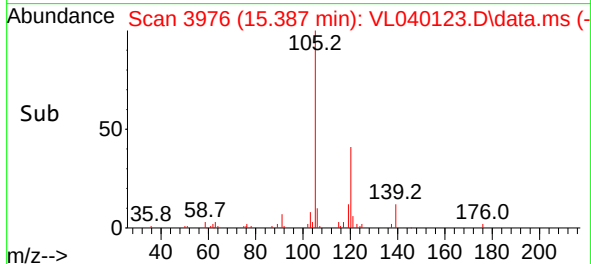
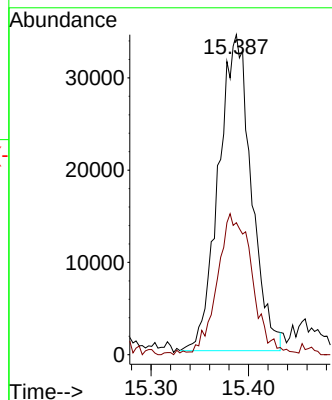
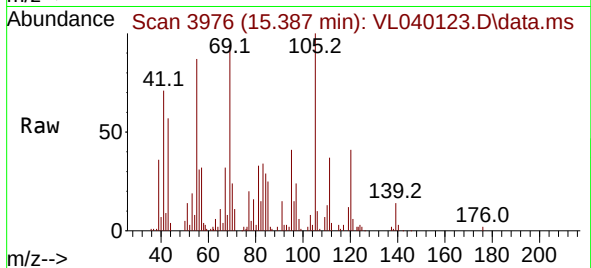
120 41.2 36.2 54.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.786 ppbv

RT: 16.143 min Scan# 4211

Delta R.T. 0.026 min

Lab File: VL040123.D

Acq: 19 Jan 2023 21:23

Tgt Ion:105 Resp: 205889

Ion Ratio Lower Upper

105 100

120 39.9 38.0 57.0

91 11.5 42.1 63.1#

77 10.5 19.3 28.9#

