

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
 Data File : VL040324.D
 Acq On : 10 Apr 2023 14:27
 Operator : SY/MD
 Sample : 02229-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/11/2023
 Supervised By : Mahesh Dadoda 04/11/2023

Quant Time: Apr 11 14:18:07 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 : Tue Apr 11 04:15:53 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.163	49	976671	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.623	114	2428816	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.442	117	2255176	10.000	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 1906355 10.094 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

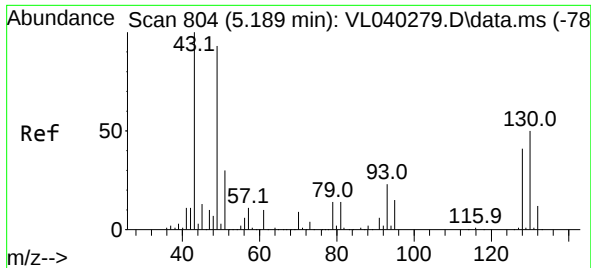
						Qvalue
2) Dichlorodifluoromethane	2.703	85	17149	0.089	ppbv	96
9) Propene	2.668	41	227547	4.836	ppbv	88
10) Heptane	7.545	43	24208	0.214	ppbv	90
11) Trichlorofluoromethane	3.533	101	9771	0.056	ppbv #	76
13) Ethanol	3.214	45	147174	42.650	ppbv	99
15) Acetone	3.433	43	5589829	47.012	ppbv	95
17) tert-Butyl alcohol	3.861	59	34977	0.310	ppbv #	89
19) Isopropyl Alcohol	3.549	45	148652	2.610	ppbv #	90
20) Methylene Chloride	3.902	84	272811	5.454	ppbv	99
26) Hexane	5.182	57	149855	1.640	ppbv #	40
27) Carbon Disulfide	4.095	76	32123	0.252	ppbv #	90
34) 2-Butanone	4.751	43	1397193	11.656	ppbv	100
36) Benzene	6.340	78	52593	0.284	ppbv	99
41) Tetrahydrofuran	5.526	42	626607	9.057	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	51341m	0.277	ppbv	
52) Tetrachloroethene	10.587	164	803076	14.341	ppbv	93
53) Toluene	9.195	91	155601	0.802	ppbv	98
58) Ethyl Benzene	12.063	91	63286m	0.246	ppbv	
59) m/p-Xylene	12.317	91	222332	0.945	ppbv	95
60) o-Xylene	13.037	91	110776	0.493	ppbv	99
61) Styrene	12.873	104	22108m	0.194	ppbv	
69) p-Isopropyltoluene	16.976	119	52574m	0.171	ppbv	
73) 1,3,5-Trimethylbenzene	15.323	105	24940m	0.112	ppbv	
74) 1,2,4-Trimethylbenzene	16.082	105	96177m	0.379	ppbv	

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

Manual Integrations

Quant Time: Apr 11 14:18:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Apr 11 04:15:53 2023
Response via : Initial Calibration





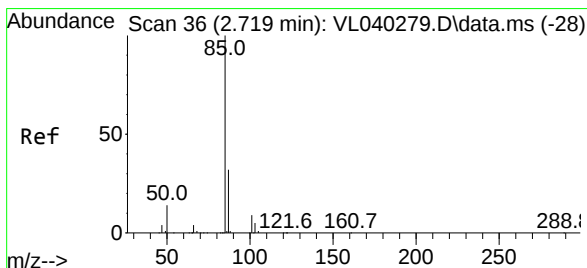
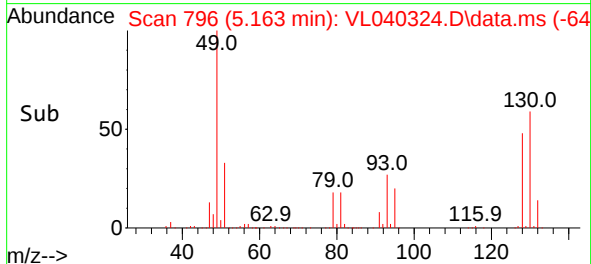
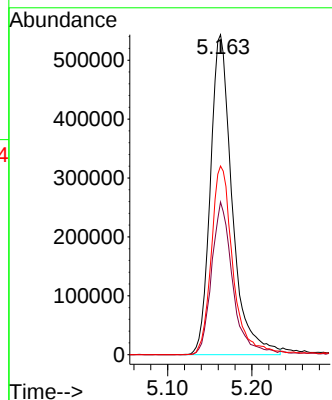
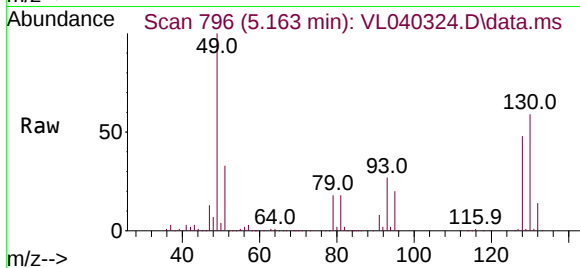
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.163 min Scan# 79
Delta R.T. -0.026 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 49 Resp: 97667
Ion Ratio Lower Upper
49 100
128 47.0 22.4 67.3
130 60.1 28.7 86.1

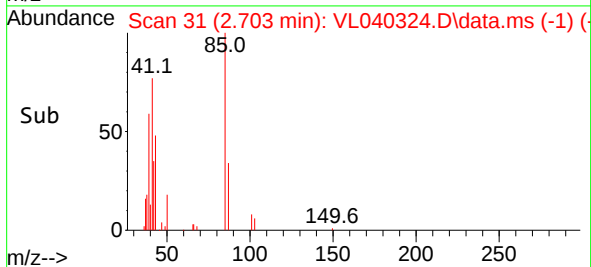
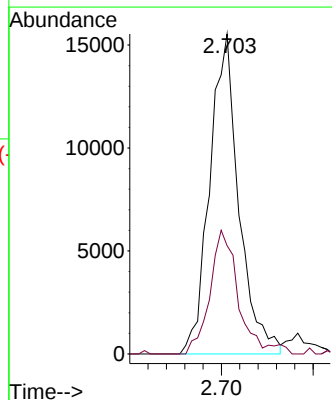
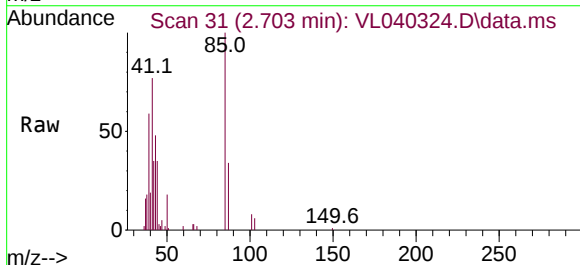
Manual Integrations
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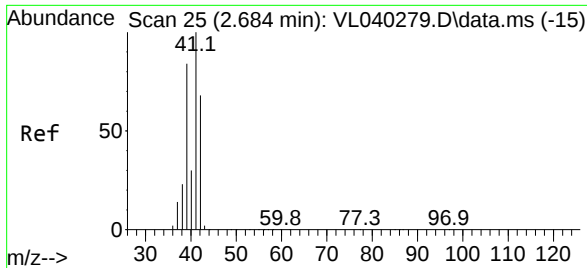
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#2
Dichlorodifluoromethane
Concen: 0.089 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

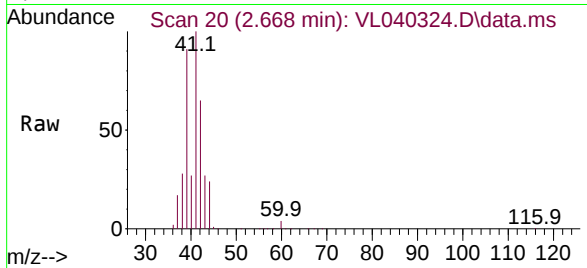
Tgt Ion: 85 Resp: 17149
Ion Ratio Lower Upper
85 100
87 33.9 25.5 38.3





#9
 Propene
 Concen: 4.836 ppbv
 RT: 2.668 min Scan# 20
 Delta R.T. -0.016 min
 Lab File: VL040324.D
 Acq: 10 Apr 2023 14:27

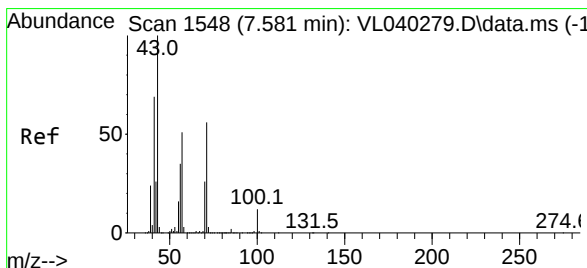
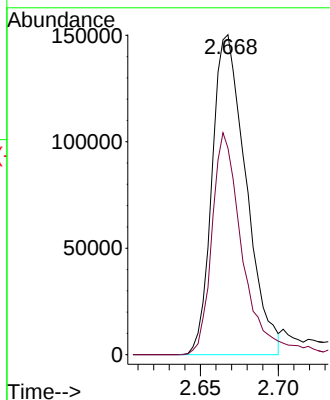
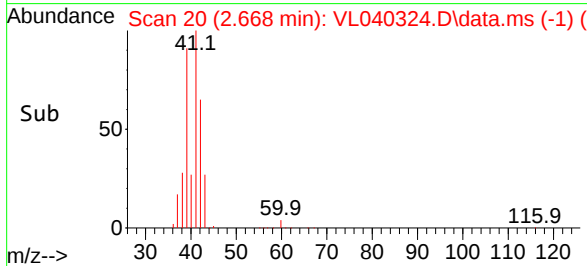
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1



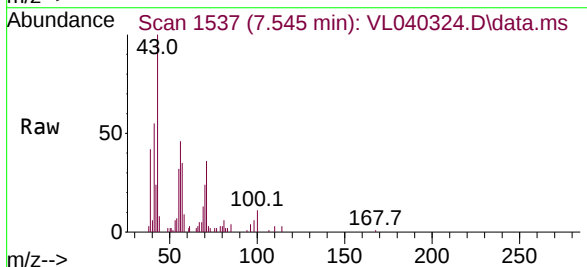
Tgt Ion: 41 Resp: 22754
 Ion Ratio Lower Upper
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 42 63.9 59.0 88.4

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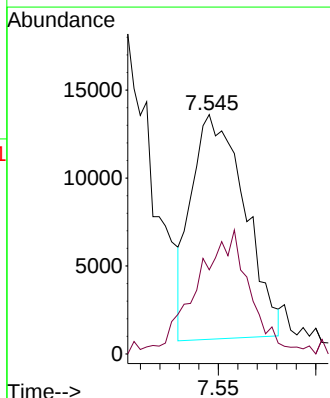
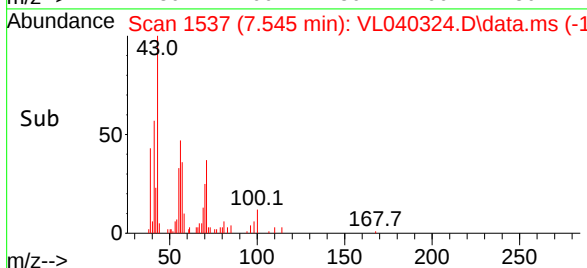
Reviewed By :Semsettin Yesilyurt 04/11/2023
 Supervised By :Mahesh Dadoda 04/11/2023

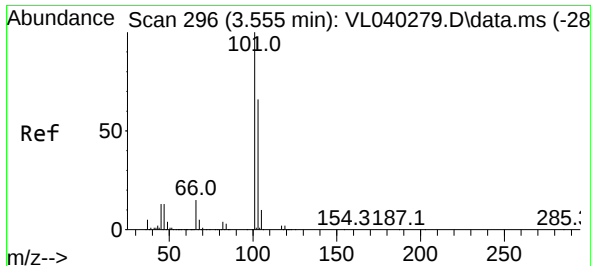


#10
 Heptane
 Concen: 0.214 ppbv
 RT: 7.545 min Scan# 1537
 Delta R.T. -0.036 min
 Lab File: VL040324.D
 Acq: 10 Apr 2023 14:27



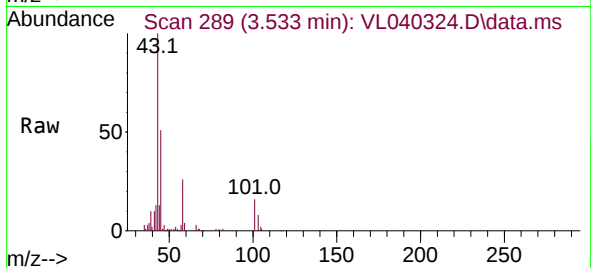
Tgt Ion: 43 Resp: 24208
 Ion Ratio Lower Upper
 43 100
 57 59.5 41.7 62.5





#11
Trichlorofluoromethane
Concen: 0.056 ppbv
RT: 3.533 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

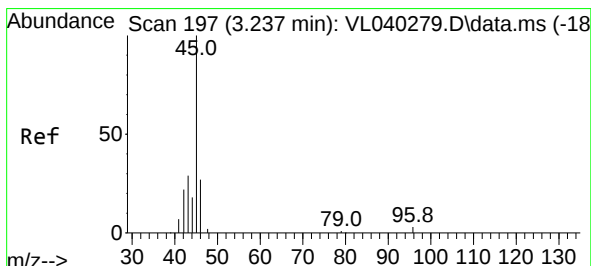
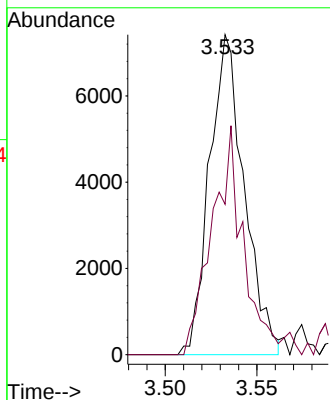
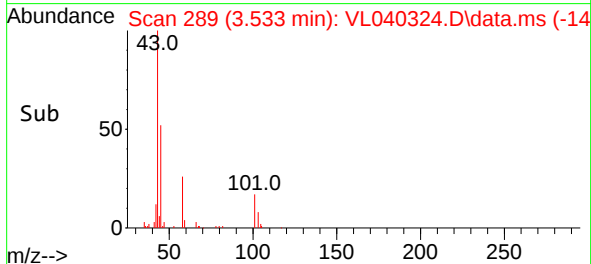
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:101 Resp: 977
Ion Ratio Lower Upper
101 100
103 47.0 53.1 79.7

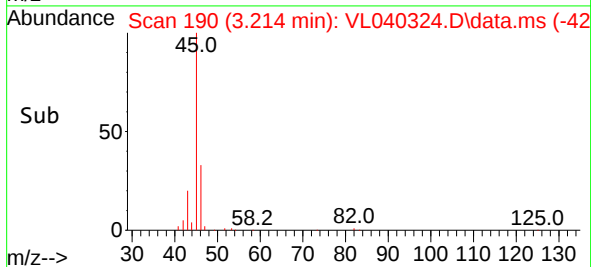
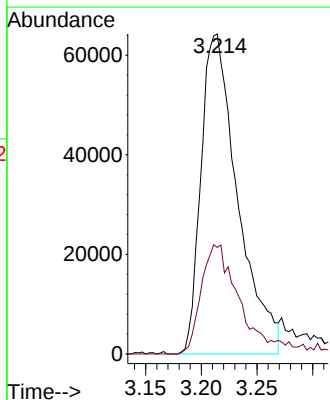
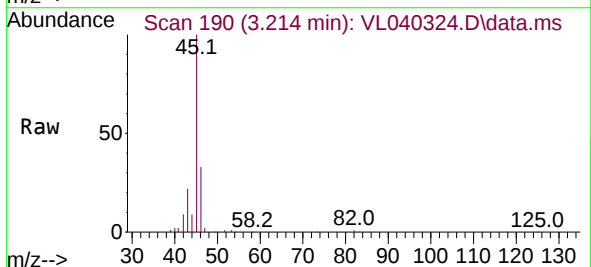
Manual Integrations
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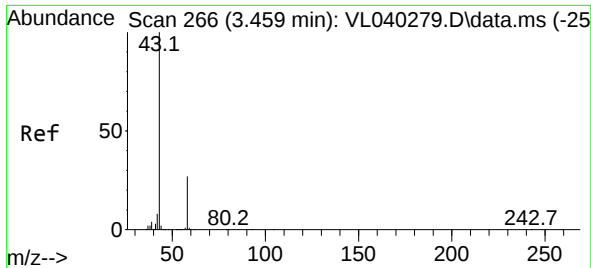
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#13
Ethanol
Concen: 42.650 ppbv
RT: 3.214 min Scan# 190
Delta R.T. -0.023 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 45 Resp: 147174
Ion Ratio Lower Upper
45 100
46 38.4 15.0 60.2





#15

Acetone

Concen: 47.012 ppbv

RT: 3.433 min Scan# 21

Delta R.T. -0.026 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion: 43 Resp: 5589829

Ion Ratio Lower Upper

43 100

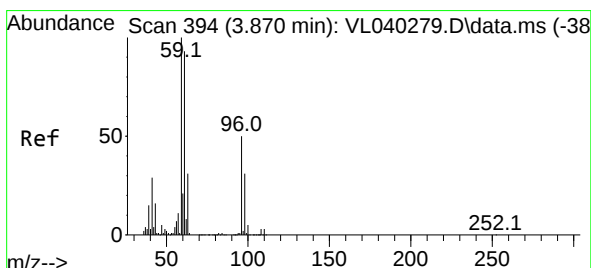
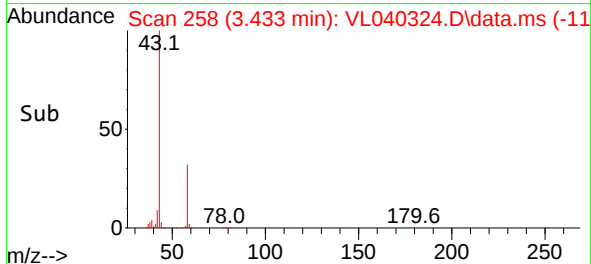
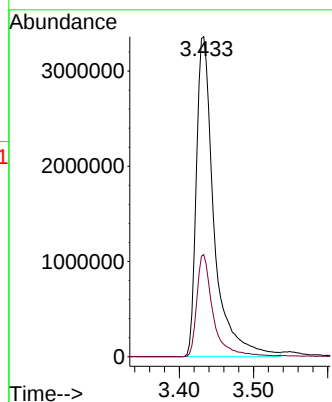
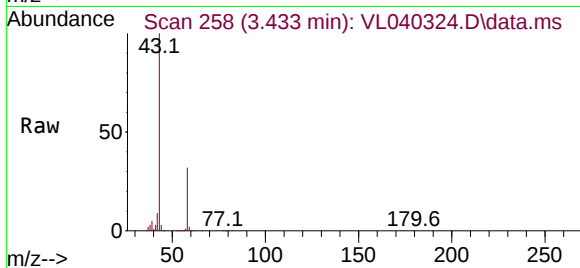
58 30.0 21.8 32.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/11/2023

Supervised By :Mahesh Dadoda 04/11/2023



#17

tert-Butyl alcohol

Concen: 0.310 ppbv

RT: 3.861 min Scan# 391

Delta R.T. -0.009 min

Lab File: VL040324.D

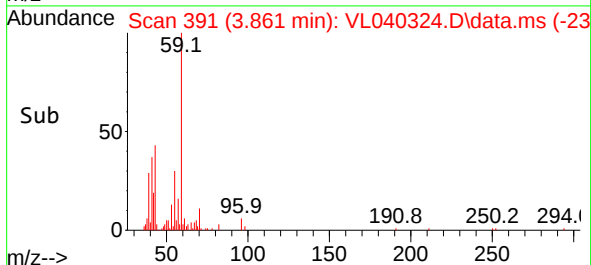
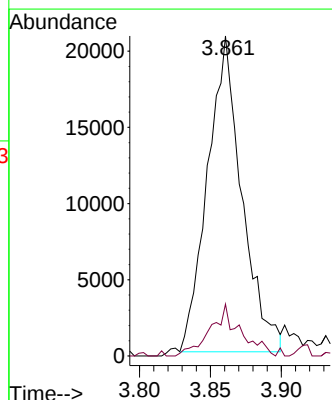
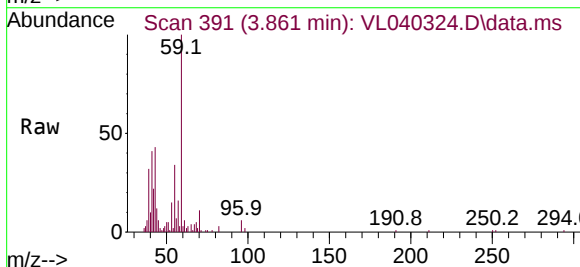
Acq: 10 Apr 2023 14:27

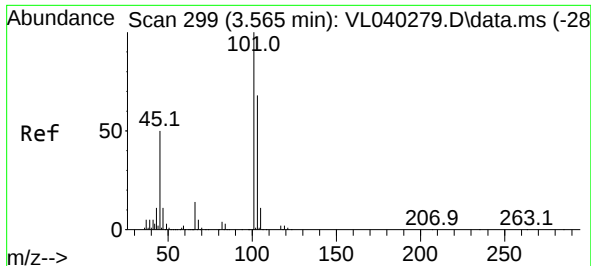
Tgt Ion: 59 Resp: 34977

Ion Ratio Lower Upper

59 100

57 14.7 8.5 12.7#





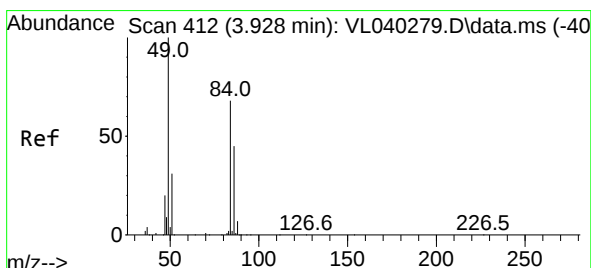
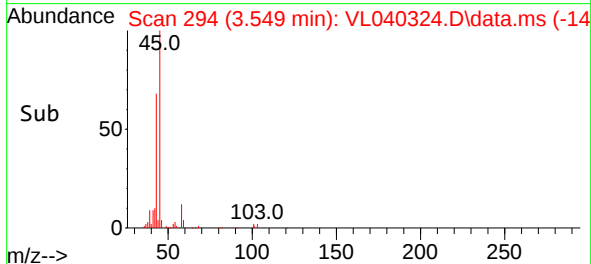
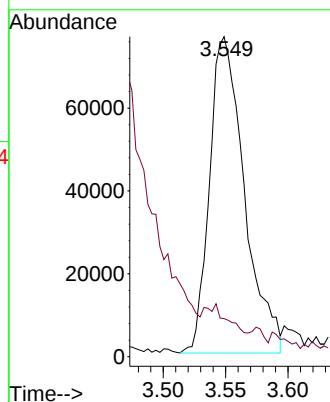
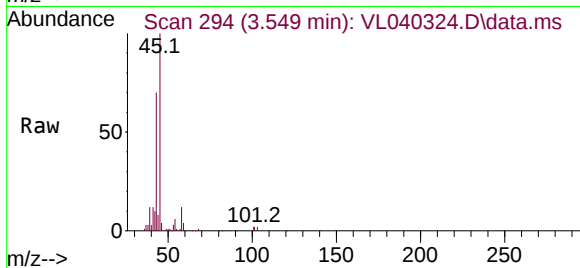
#19
Isopropyl Alcohol
Concen: 2.610 ppbv
RT: 3.549 min Scan# 299
Delta R.T. -0.016 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Instrument : MSVOA_L
ClientSampleId : SV-1

Tgt Ion: 45 Resp: 148652
Ion Ratio Lower Upper
45 100
58 0.0 2.7 4.1

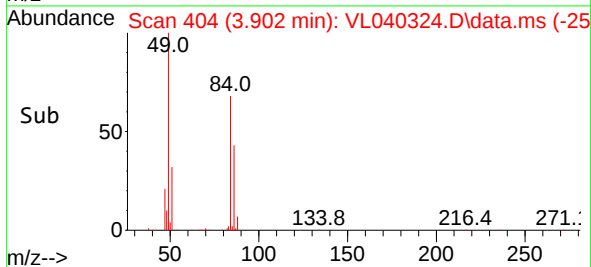
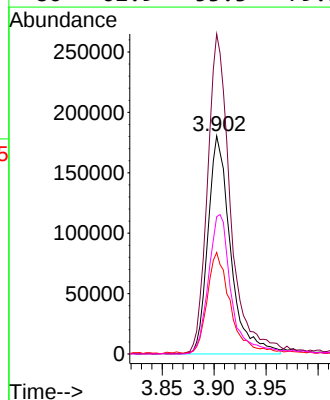
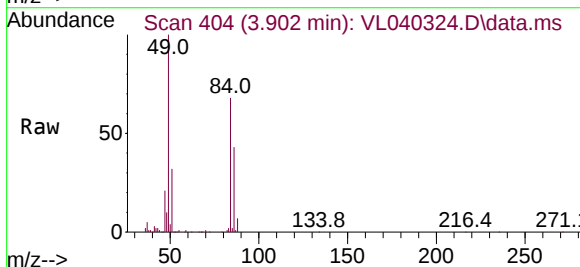
Manual Integrations
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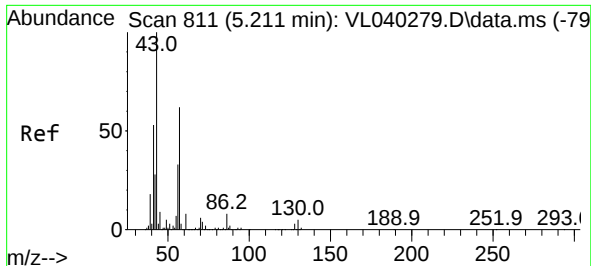
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#20
Methylene Chloride
Concen: 5.454 ppbv
RT: 3.902 min Scan# 404
Delta R.T. -0.026 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

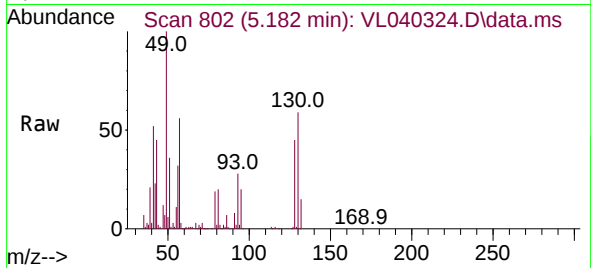
Tgt Ion: 84 Resp: 272811
Ion Ratio Lower Upper
84 100
49 146.5 117.5 176.3
51 45.8 36.9 55.3
86 62.9 53.3 79.9





#26
Hexane
Concen: 1.640 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.029 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

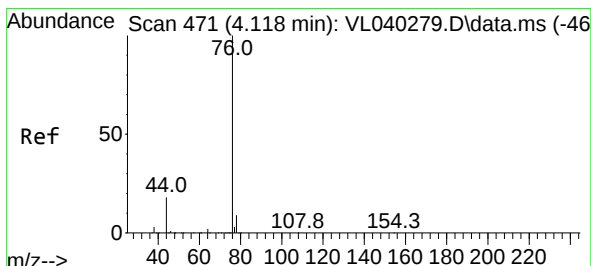
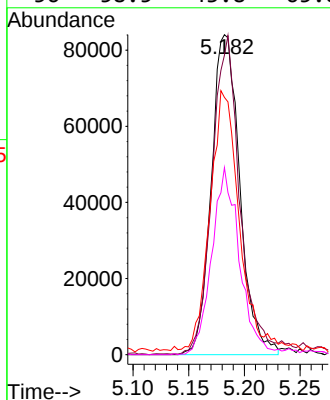
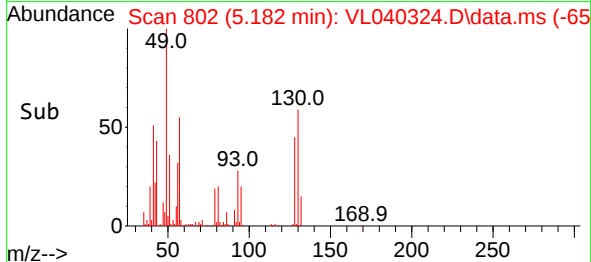
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 57 Resp: 14985
Ion Ratio Lower Upper
57 100
41 99.6 73.5 110.3
43 86.4 196.3 294.5
56 58.5 43.8 65.8

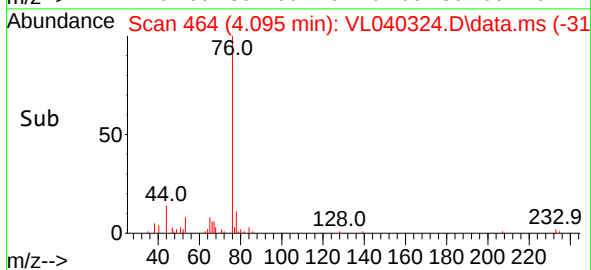
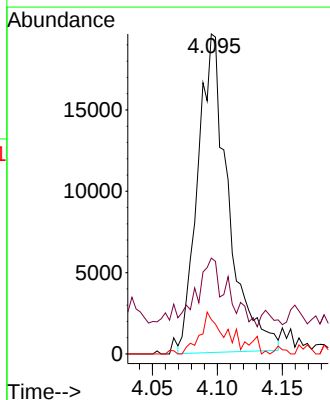
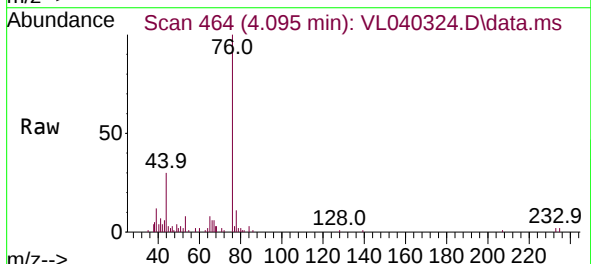
Manual Integrations
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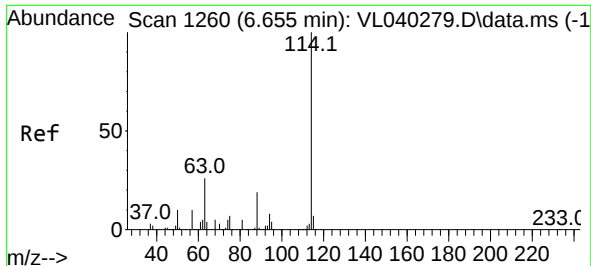
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#27
Carbon Disulfide
Concen: 0.252 ppbv
RT: 4.095 min Scan# 464
Delta R.T. -0.023 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 76 Resp: 32123
Ion Ratio Lower Upper
76 100
44 23.3 15.2 22.8#
78 13.1 7.6 11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.623 min Scan# 114

Delta R.T. -0.032 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion:114 Resp: 2428810

Ion Ratio Lower Upper

114 100

63 26.2 21.2 31.8

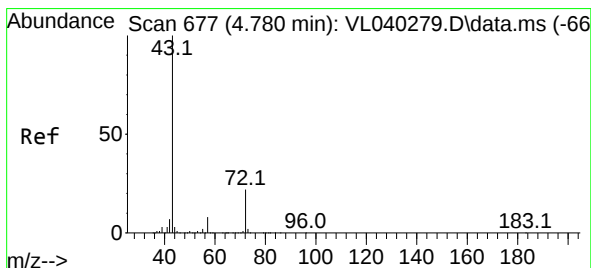
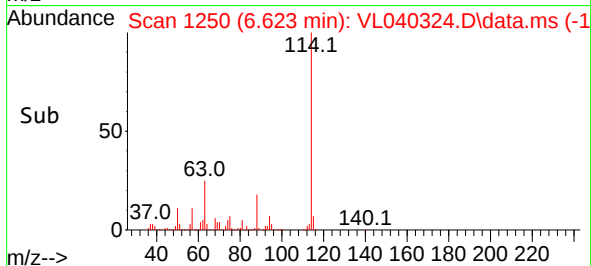
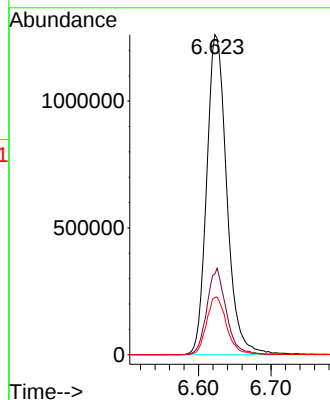
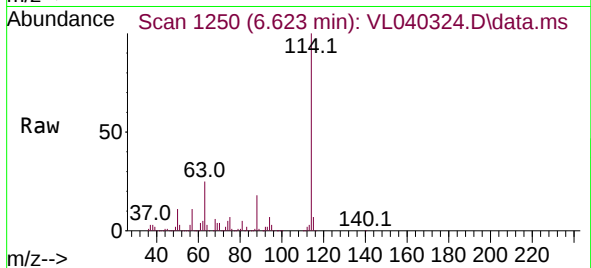
88 18.1 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2023

Supervised By :Mahesh Dadoda 04/11/2023



#34

2-Butanone

Concen: 11.656 ppbv

RT: 4.751 min Scan# 668

Delta R.T. -0.029 min

Lab File: VL040324.D

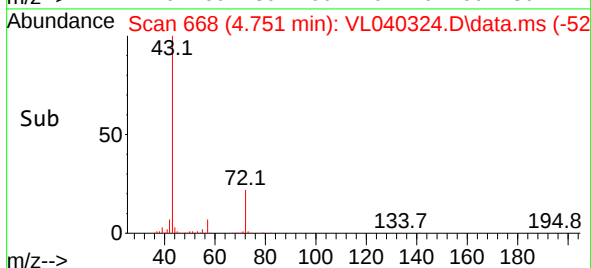
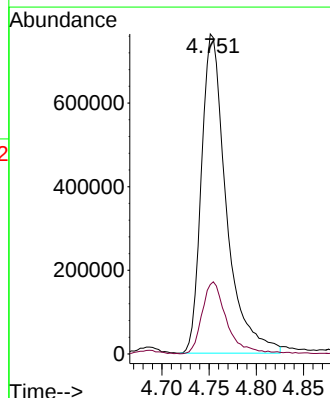
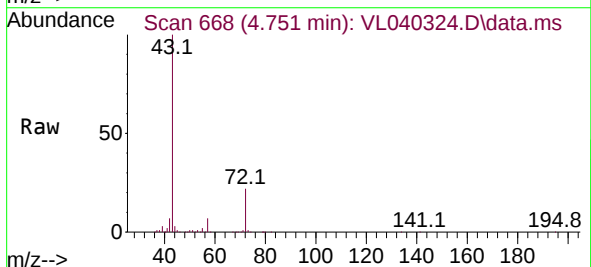
Acq: 10 Apr 2023 14:27

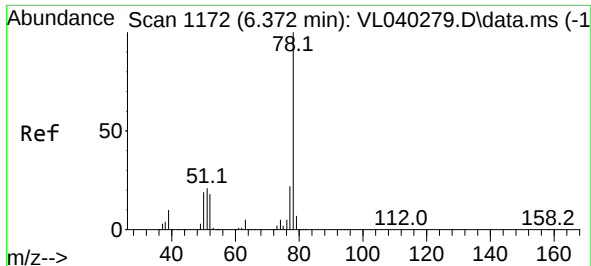
Tgt Ion: 43 Resp: 1397193

Ion Ratio Lower Upper

43 100

72 23.0 18.3 27.5





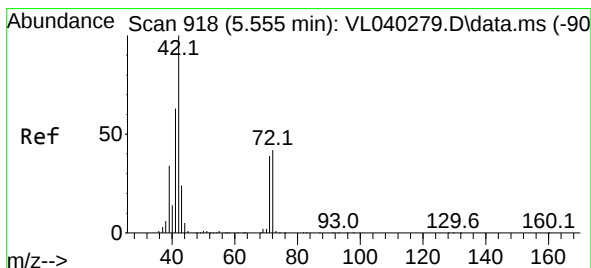
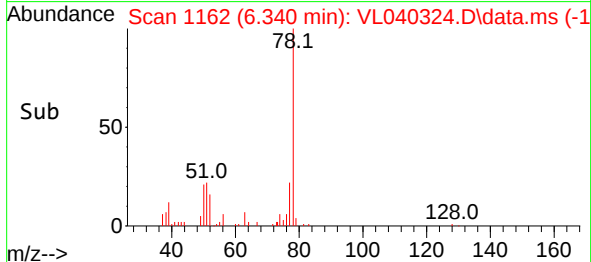
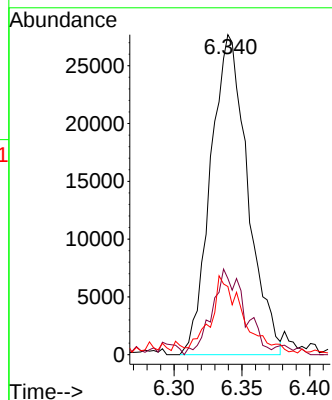
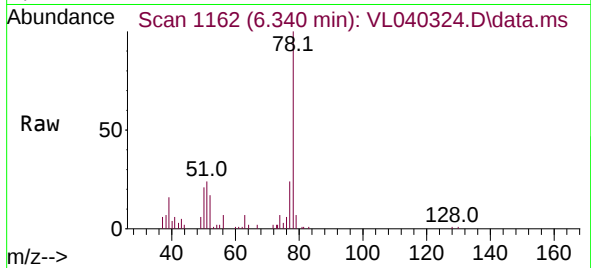
#36
Benzene
Concen: 0.284 ppbv
RT: 6.340 min Scan# 1172
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 78 Resp: 5259
Ion Ratio Lower Upper
78 100
77 22.0 17.8 26.8
50 18.4 15.4 23.2

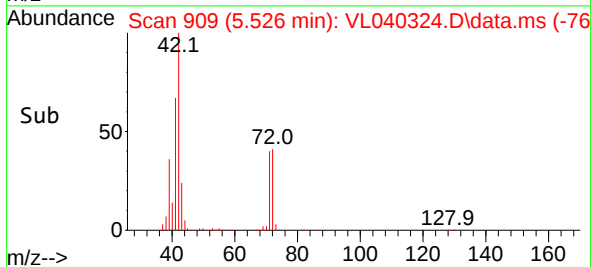
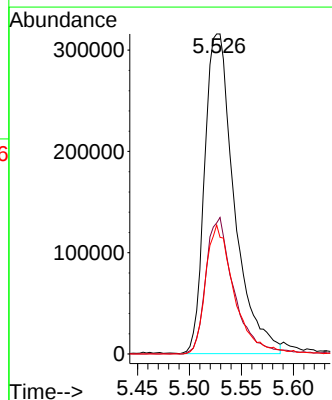
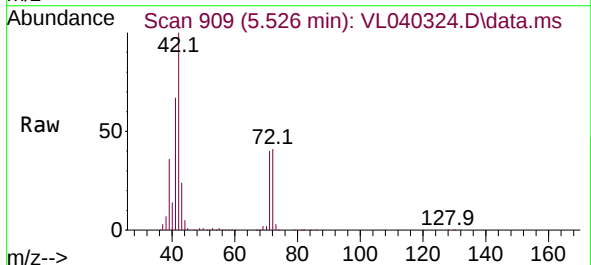
Manual Integrations
APPROVED

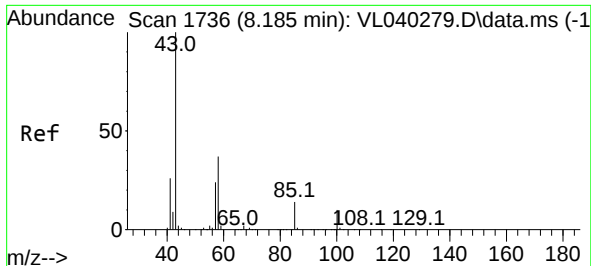
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#41
Tetrahydrofuran
Concen: 9.057 ppbv
RT: 5.526 min Scan# 909
Delta R.T. -0.029 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

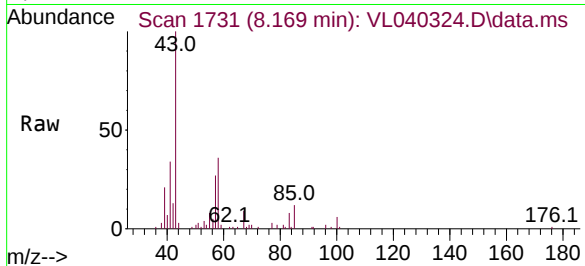
Tgt Ion: 42 Resp: 626607
Ion Ratio Lower Upper
42 100
72 41.1 32.6 49.0
71 39.0 31.0 46.4





#50
4-Methyl-2-Pentanone
Concen: 0.277 ppbv m
RT: 8.169 min Scan# 1
Delta R.T. -0.016 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

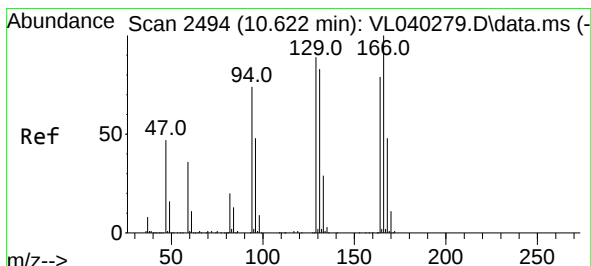
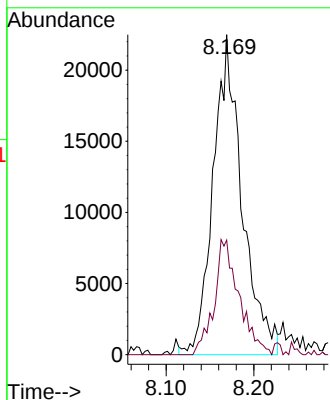
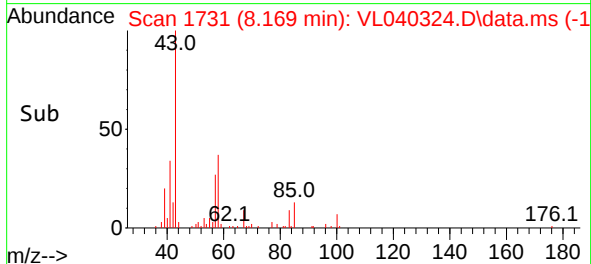
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 5134
Ion Ratio Lower Upper
43 100
58 32.7 29.2 43.8

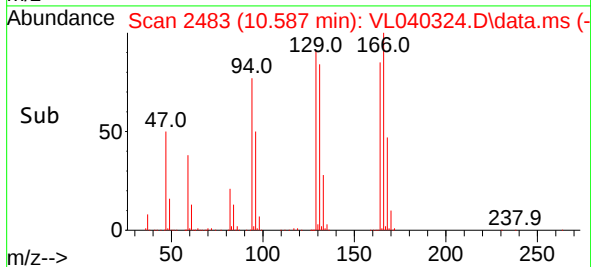
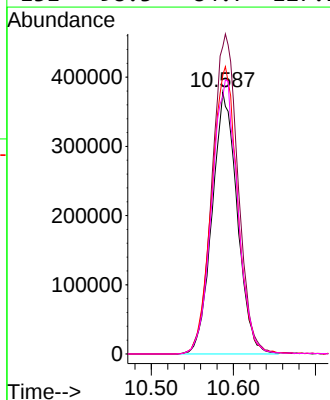
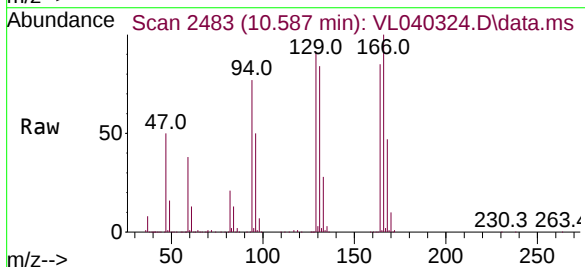
Manual Integrations
APPROVED

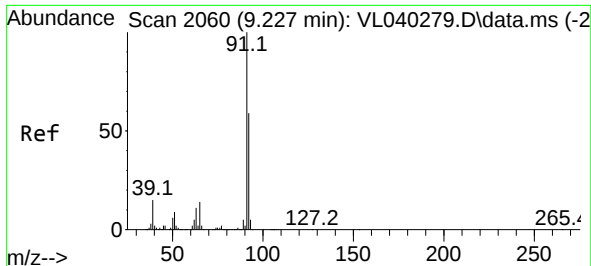
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#52
Tetrachloroethene
Concen: 14.341 ppbv
RT: 10.587 min Scan# 2483
Delta R.T. -0.035 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion:164 Resp: 803076
Ion Ratio Lower Upper
164 100
166 117.5 101.8 152.6
129 106.5 90.2 135.2
131 98.3 84.7 127.1





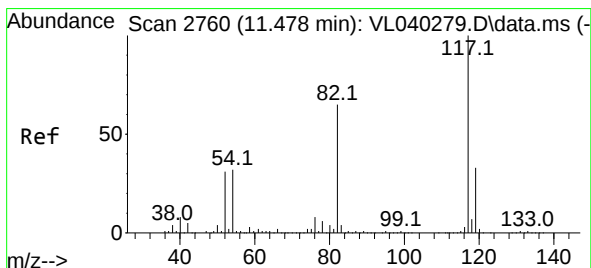
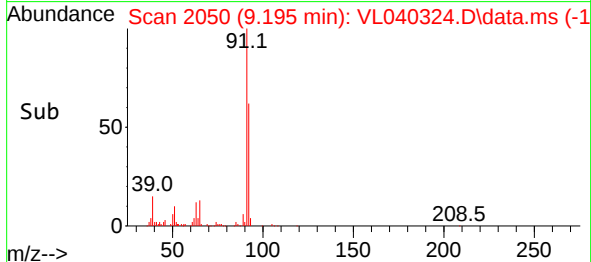
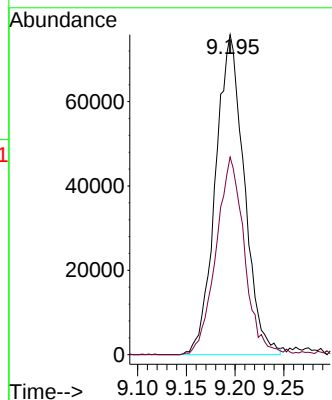
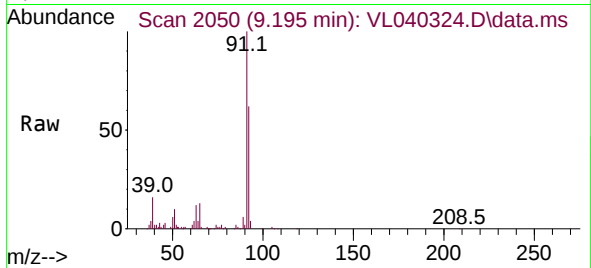
#53
Toluene
Concen: 0.802 ppbv
RT: 9.195 min Scan# 2060
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 15560
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0

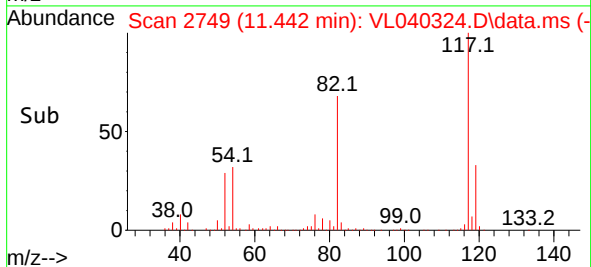
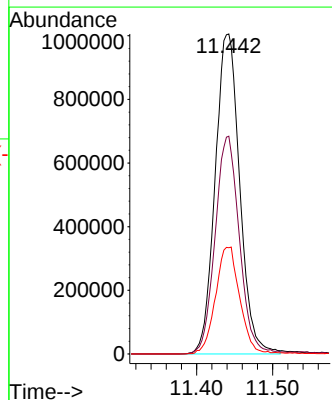
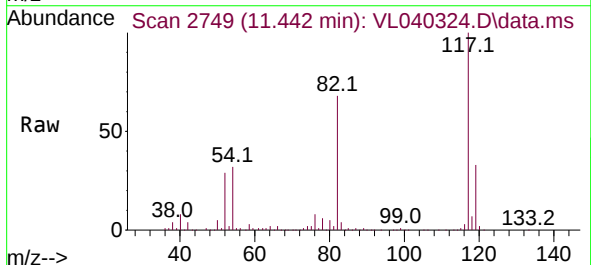
Manual Integrations
APPROVED

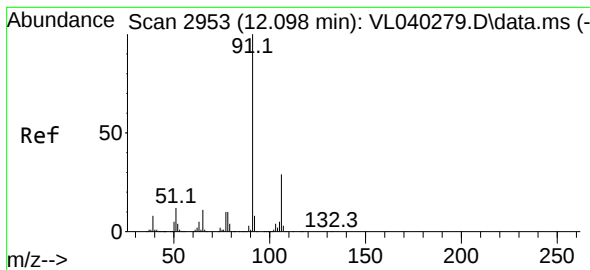
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. -0.036 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

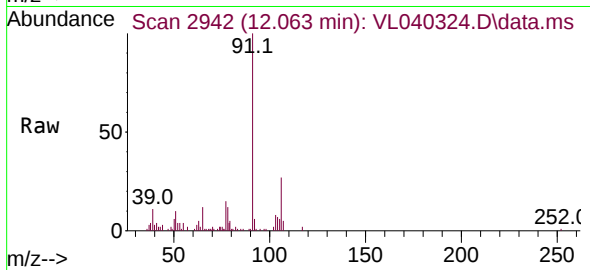
Tgt Ion:117 Resp: 2255176
Ion Ratio Lower Upper
117 100
82 68.1 51.4 77.2
119 33.3 24.0 36.0





#58
Ethyl Benzene
Concen: 0.246 ppbv m
RT: 12.063 min Scan# 2953
Delta R.T. -0.035 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

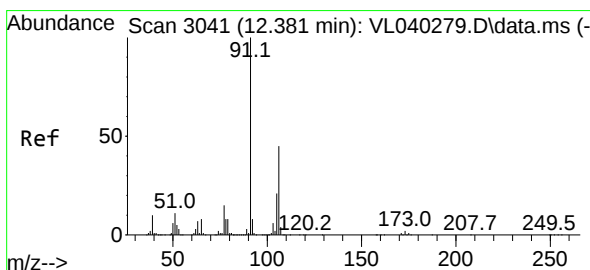
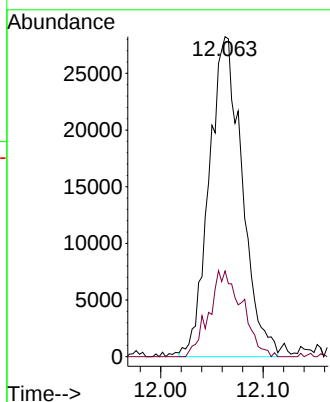
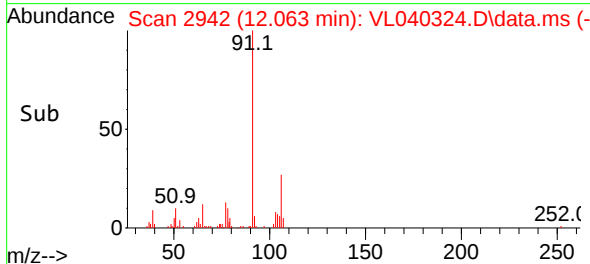
Instrument :
MSVOA_L
ClientSampleId :
SV-1



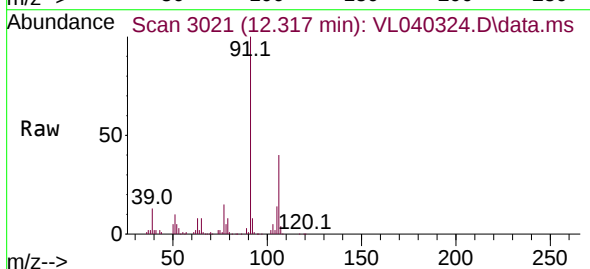
Tgt Ion: 91 Resp: 63280
Ion Ratio Lower Upper
91 100
106 26.8 23.4 35.2

Manual Integrations
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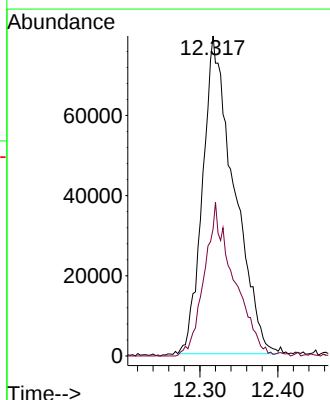
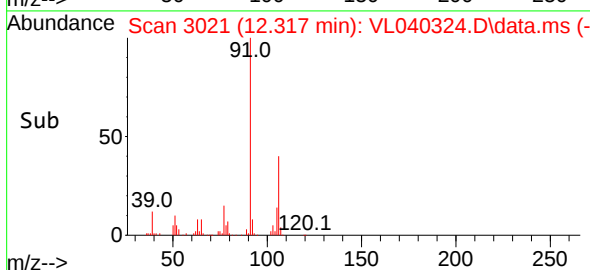
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023

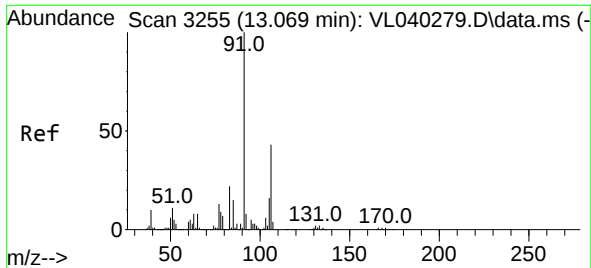


#59
m/p-Xylene
Concen: 0.945 ppbv
RT: 12.317 min Scan# 3021
Delta R.T. -0.064 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27



Tgt Ion: 91 Resp: 222332
Ion Ratio Lower Upper
91 100
106 45.7 34.0 51.0





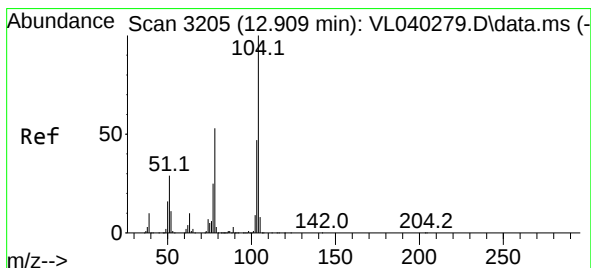
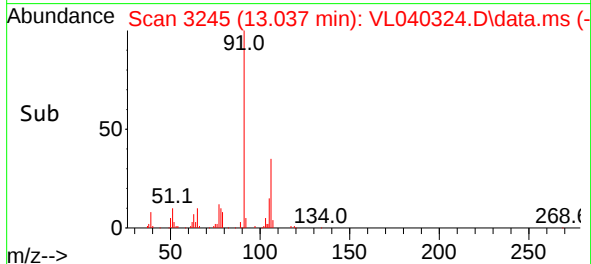
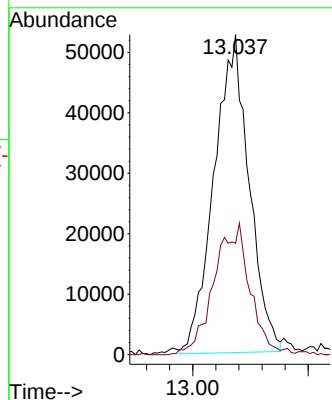
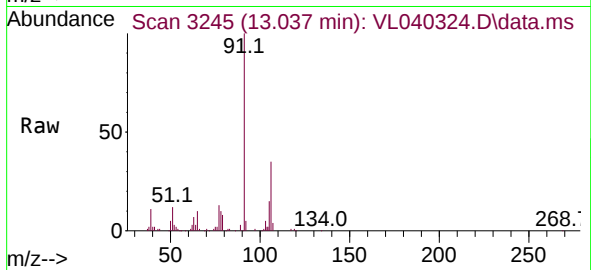
#60
o-Xylene
Concen: 0.493 ppbv
RT: 13.037 min Scan# 3194
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 110770
Ion Ratio Lower Upper
91 100
106 42.6 21.7 65.1

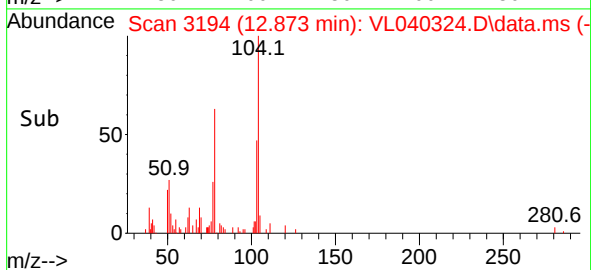
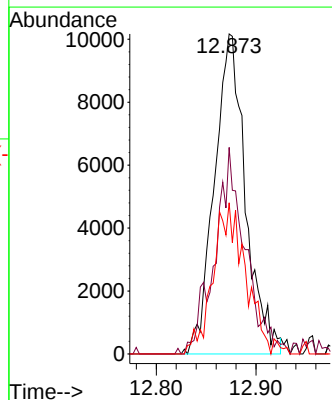
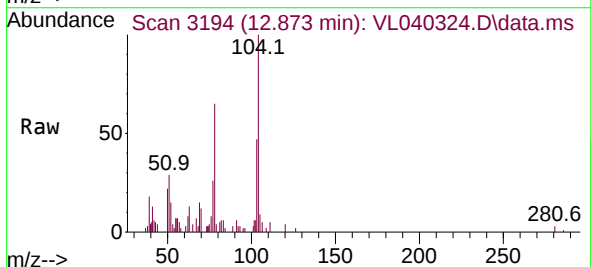
Manual Integrations
APPROVED

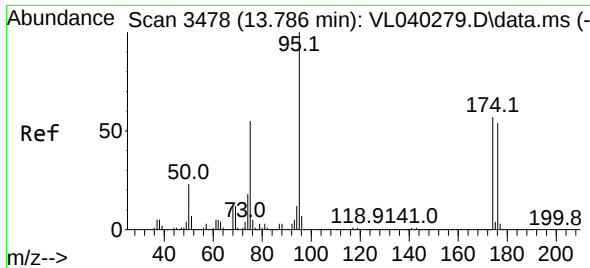
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#61
Styrene
Concen: 0.194 ppbv m
RT: 12.873 min Scan# 3194
Delta R.T. -0.036 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

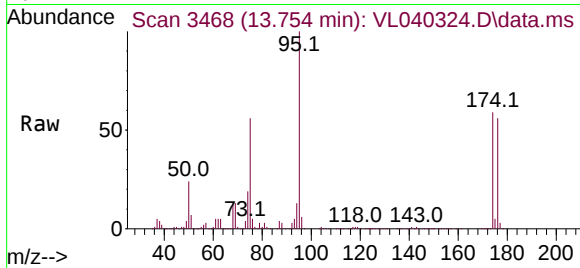
Tgt Ion:104 Resp: 22108
Ion Ratio Lower Upper
104 100
78 65.0 43.7 65.5
103 49.8 37.4 56.2





#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 13.754 min Scan# 3478
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

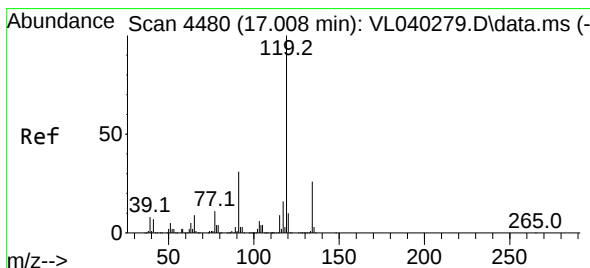
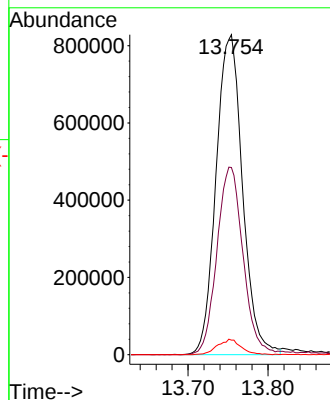
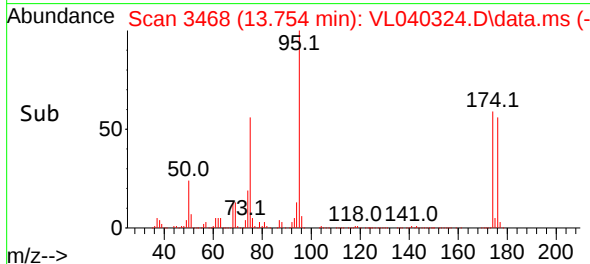
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 95 Resp: 190635
Ion Ratio Lower Upper
95 100
174 59.2 47.0 70.6
175 4.3 3.4 5.2

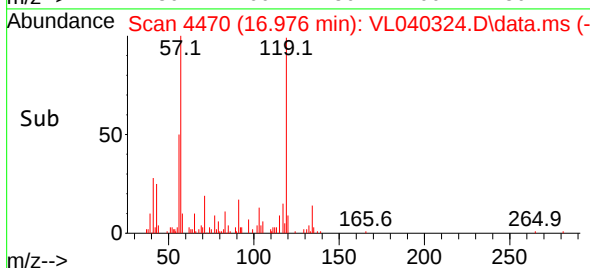
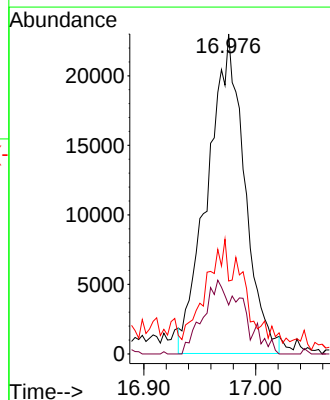
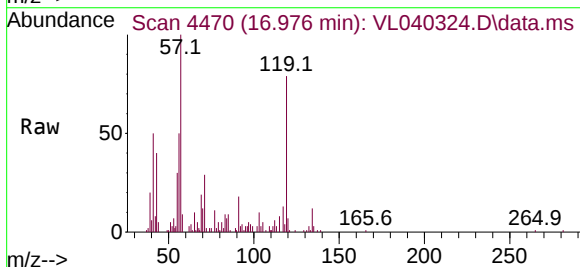
Manual Integrations
APPROVED

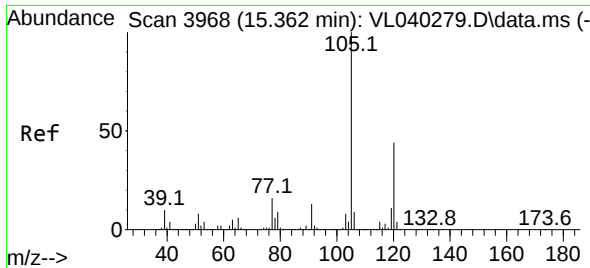
Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#69
p-Isopropyltoluene
Concen: 0.171 ppbv m
RT: 16.976 min Scan# 4470
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

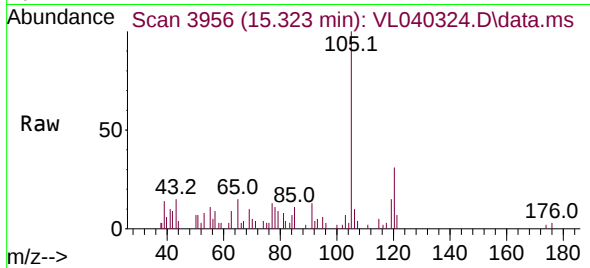
Tgt Ion:119 Resp: 52574
Ion Ratio Lower Upper
119 100
134 24.8 20.2 30.2
91 0.0 25.1 37.7#





#73
1,3,5-Trimethylbenzene
Concen: 0.112 ppbv m
RT: 15.323 min Scan# 3968
Delta R.T. -0.039 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

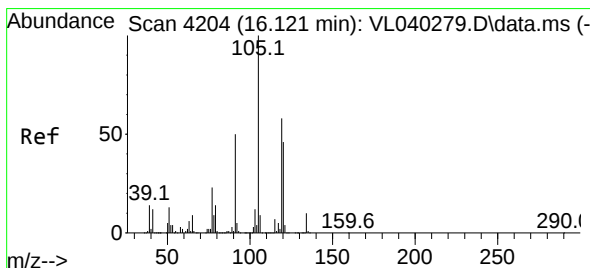
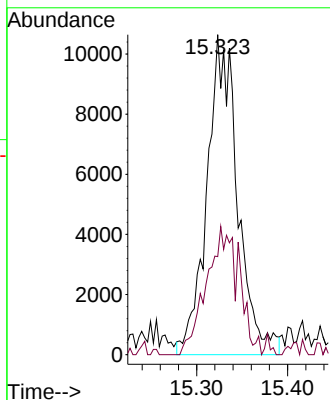
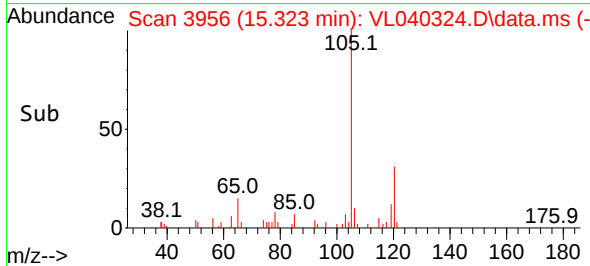
Instrument :
MSVOA_L
ClientSampleId :
SV-1



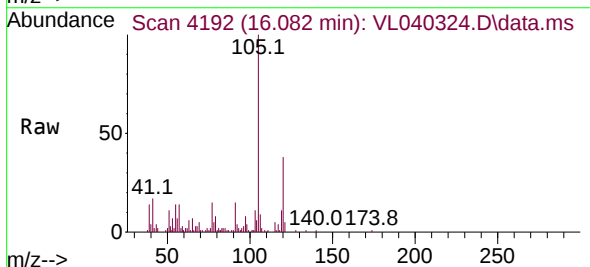
Tgt Ion:105 Resp: 24940
Ion Ratio Lower Upper
105 100
120 30.7 34.9 52.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2023
Supervised By :Mahesh Dadoda 04/11/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.379 ppbv m
RT: 16.082 min Scan# 4192
Delta R.T. -0.039 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27



Tgt Ion:105 Resp: 96177
Ion Ratio Lower Upper
105 100
120 38.4 36.6 54.8
91 14.8 39.9 59.9#
77 15.3 18.6 27.8#

