

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041689.D
 Acq On : 7 Nov 2024 22:24
 Operator : SY/MD
 Sample : P4696-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:54:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	964603	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2690604	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2290180	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1658535	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	87126	0.500	ppbv	99
3) Chlorodifluoromethane	2.677	51	60836m	0.484	ppbv	
4) Chloromethane	2.812	50	29766	0.447	ppbv #	88
9) Propene	2.703	41	51328	0.937	ppbv #	76
11) Trichlorofluoromethane	3.558	101	31794	0.209	ppbv	97
13) Ethanol	3.243	45	2677510	798.484	ppbv	99
15) Acetone	3.462	43	2167486	18.258	ppbv	100
19) Isopropyl Alcohol	3.587	45	19048572	335.702	ppbv #	95
20) Methylene Chloride	3.931	84	22450	0.514	ppbv	97
27) Carbon Disulfide	4.121	76	24649	0.232	ppbv #	74
29) Chloroform	5.269	83	50667	0.325	ppbv	92
34) 2-Butanone	4.790	43	50383	0.376	ppbv	97
35) Carbon Tetrachloride	6.484	117	9567m	0.067	ppbv	
36) Benzene	6.362	78	20205m	0.101	ppbv	
41) Tetrahydrofuran	5.555	42	13947m	0.182	ppbv	
53) Toluene	9.214	91	145885	0.696	ppbv	97
59) m/p-Xylene	12.333	91	27074m	0.120	ppbv	
60) o-Xylene	13.050	91	26017m	0.121	ppbv	
64) n-propylbenzene	14.912	120	18986m	0.219	ppbv	
72) 4-Ethyltoluene	15.188	105	117780	0.473	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.339	105	76575	0.350	ppbv	92
74) 1,2,4-Trimethylbenzene	16.105	105	326698	1.286	ppbv #	67

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

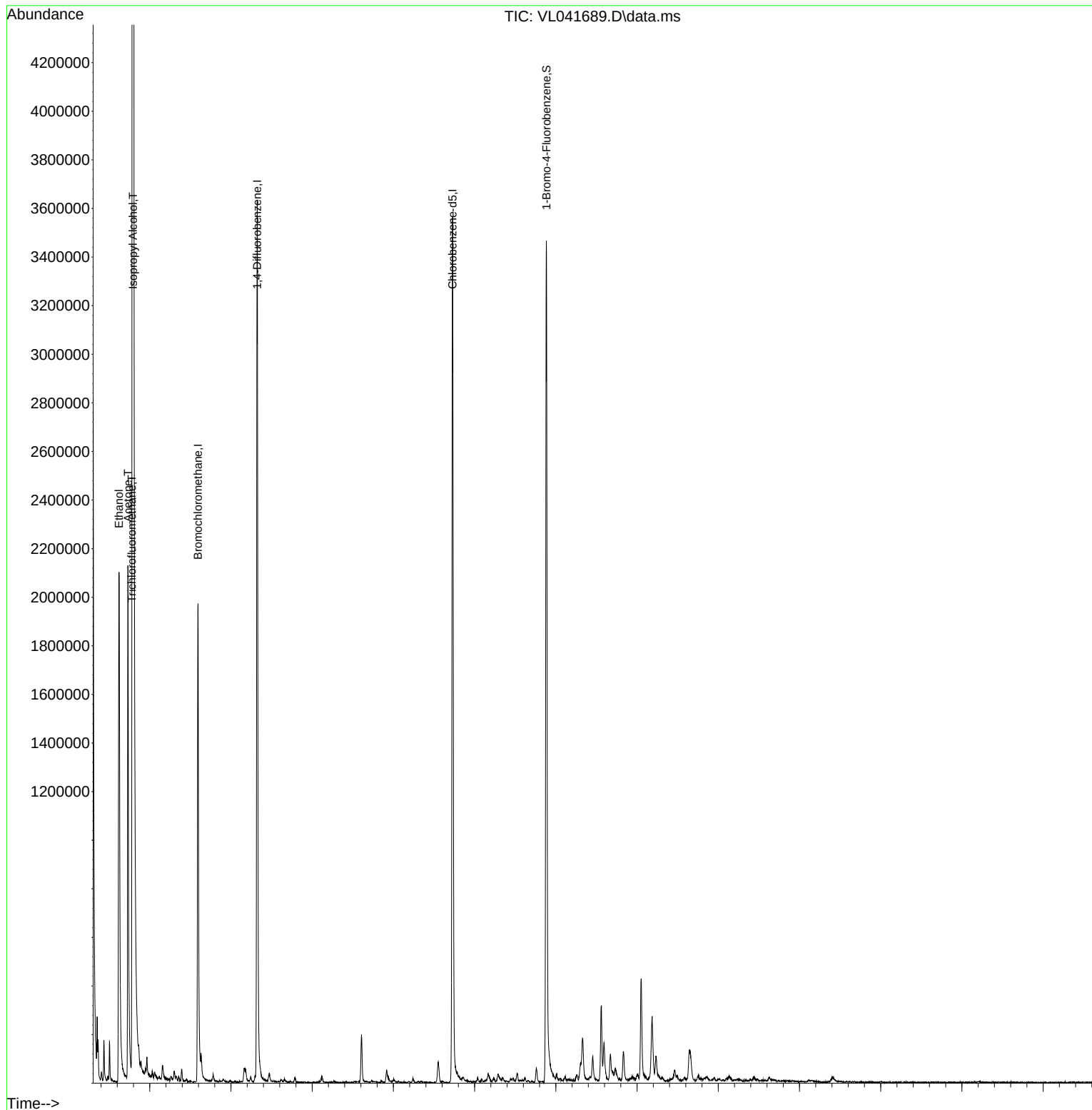
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041689.D
Acq On : 7 Nov 2024 22:24
Operator : SY/MD
Sample : P4696-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

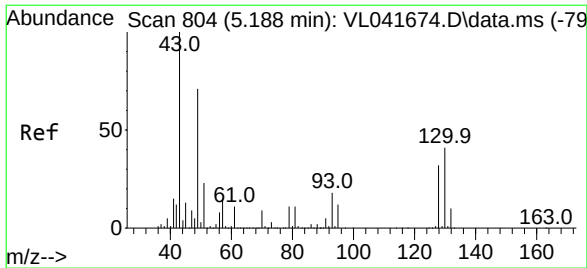
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Nov 08 03:54:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

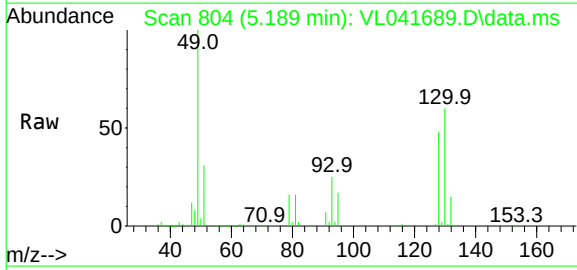
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.001 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

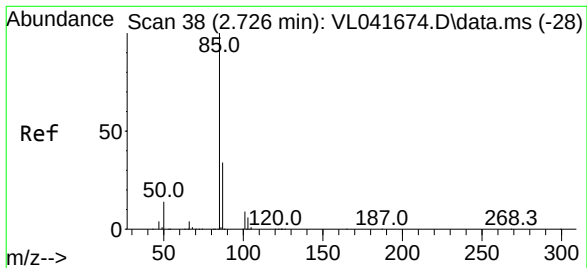
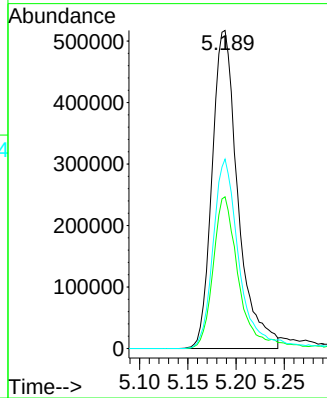
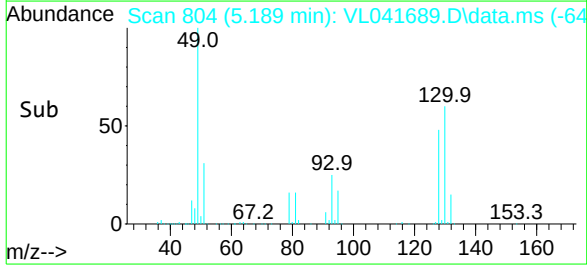
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 964603
Ion Ratio Lower Upper
49 100
128 48.3 23.8 71.2
130 61.8 30.1 90.5

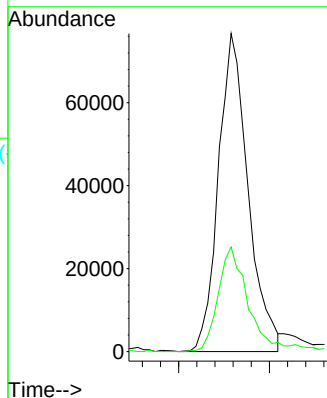
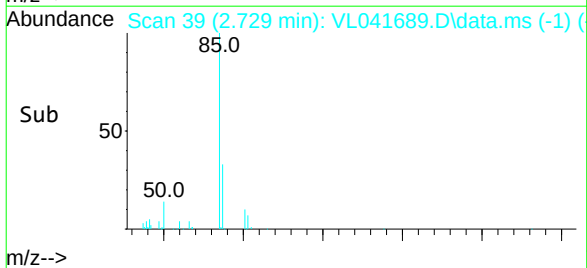
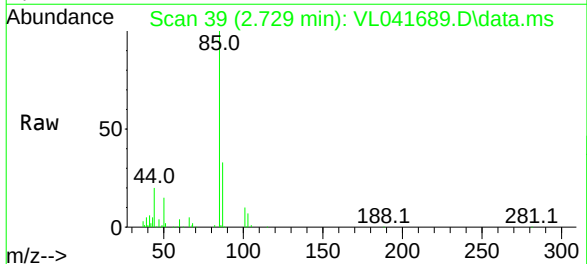
Manual Integrations
APPROVED

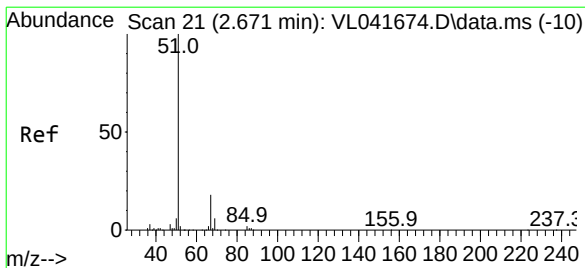
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#2
Dichlorodifluoromethane
Concen: 0.500 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

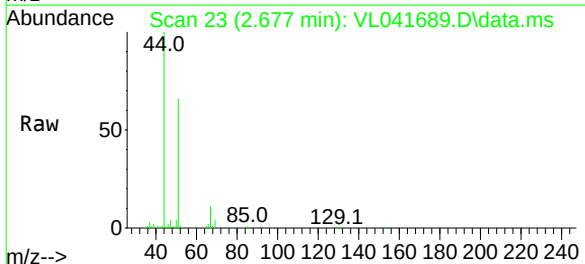
Tgt Ion: 85 Resp: 87126
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.484 ppbv m
RT: 2.677 min Scan# 23
Delta R.T. 0.007 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

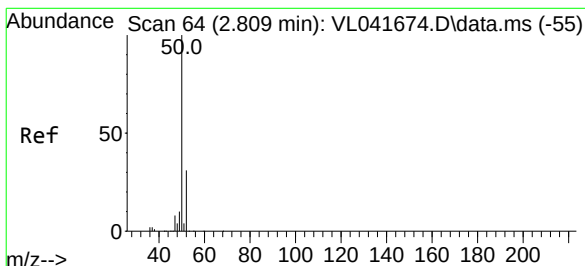
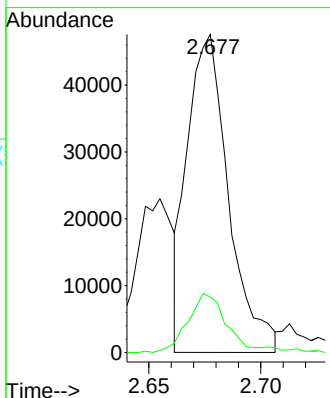
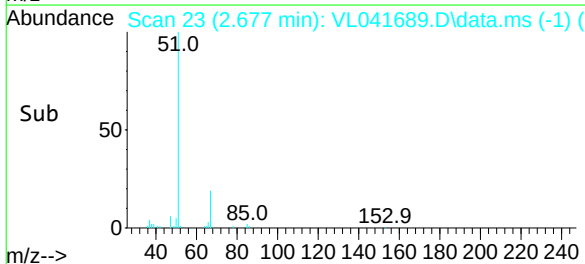
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 51 Resp: 60836
Ion Ratio Lower Upper
51 100
67 18.8 13.9 20.9

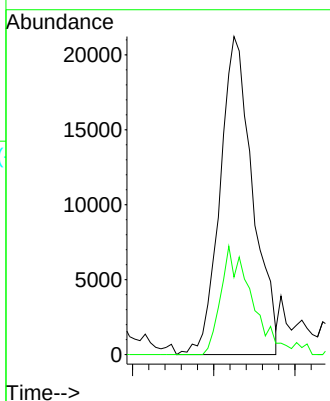
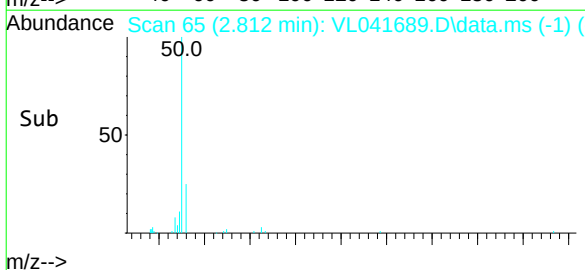
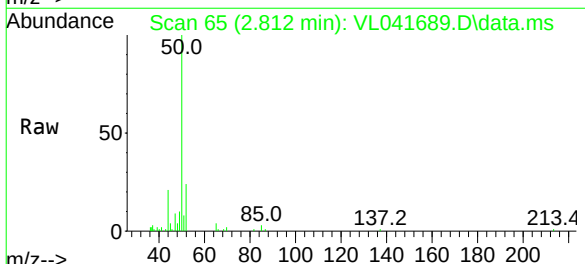
Manual Integrations
APPROVED

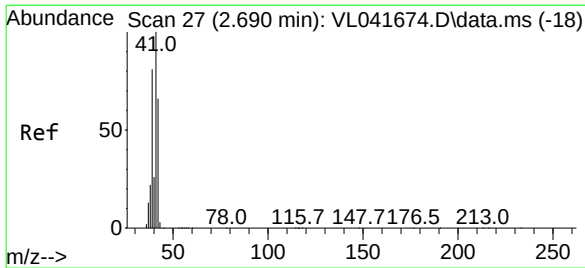
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#4
Chloromethane
Concen: 0.447 ppbv
RT: 2.812 min Scan# 65
Delta R.T. 0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

Tgt Ion: 50 Resp: 29766
Ion Ratio Lower Upper
50 100
52 24.4 24.9 37.3





#9

Propene

Concen: 0.937 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 51328

Ion Ratio Lower Upper

41 100

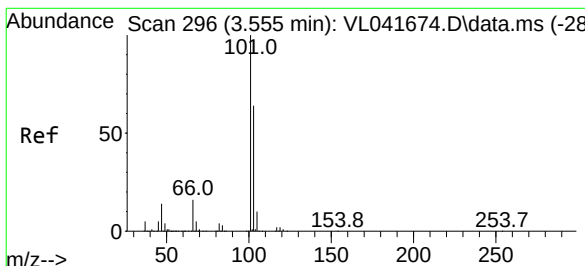
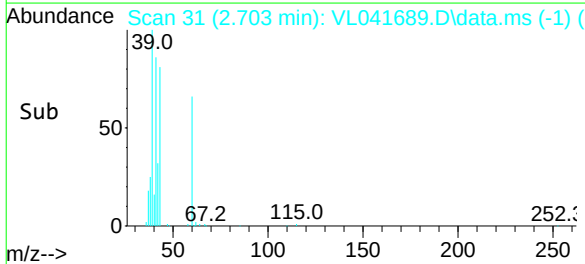
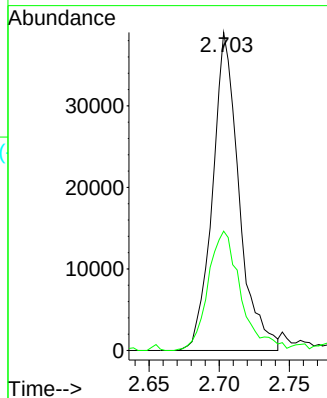
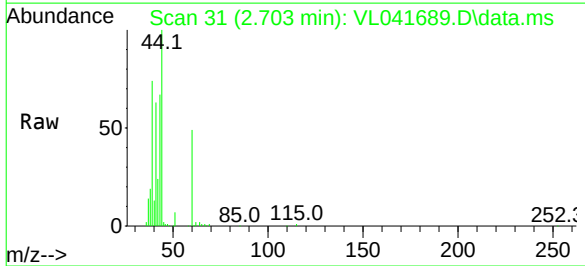
42 49.6 55.0 82.4#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#11

Trichlorofluoromethane

Concen: 0.209 ppbv

RT: 3.558 min Scan# 297

Delta R.T. 0.003 min

Lab File: VL041689.D

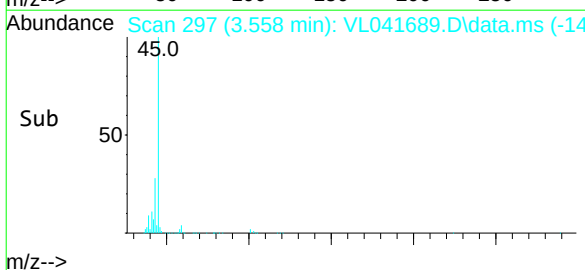
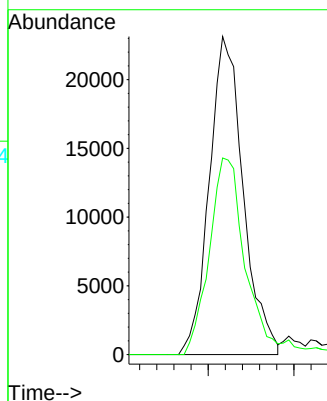
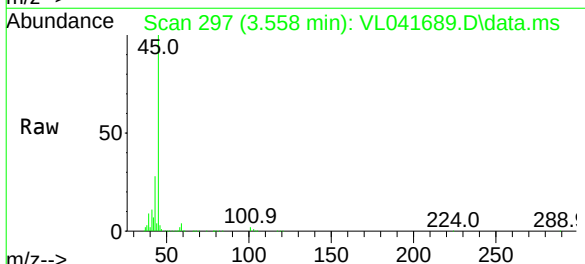
Acq: 7 Nov 2024 22:24

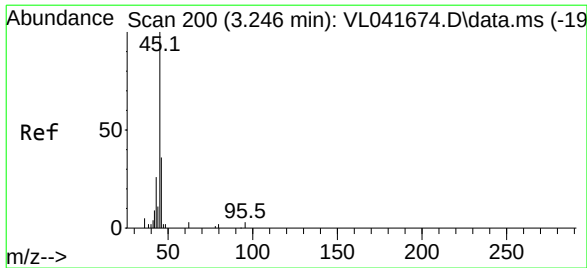
Tgt Ion:101 Resp: 31794

Ion Ratio Lower Upper

101 100

103 61.8 51.0 76.6





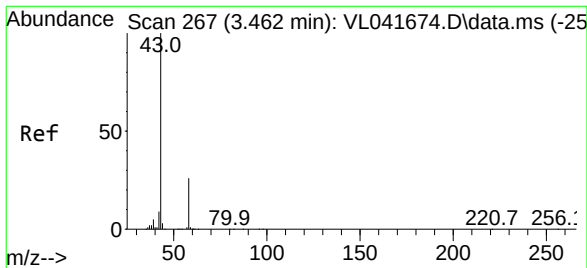
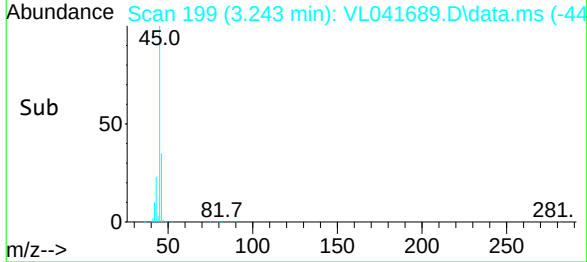
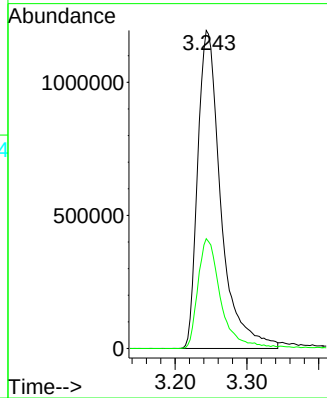
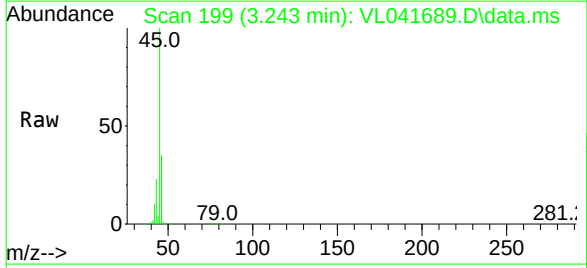
#13
Ethanol
Concen: 798.484 ppbv
RT: 3.243 min Scan# 19
Delta R.T. -0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 45 Resp: 2677510
Ion Ratio Lower Upper
45 100
46 34.9 13.8 55.2

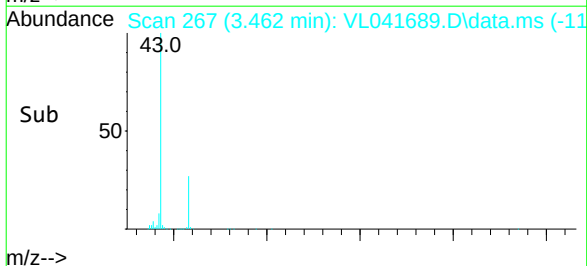
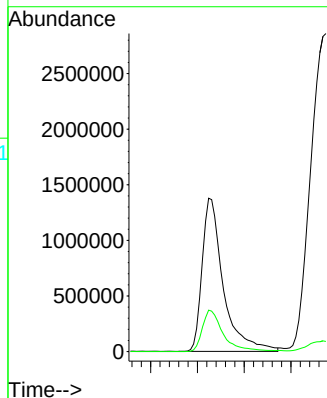
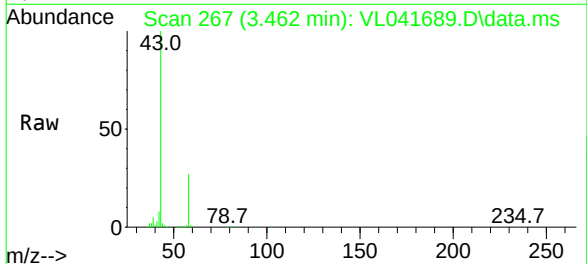
Manual Integrations
APPROVED

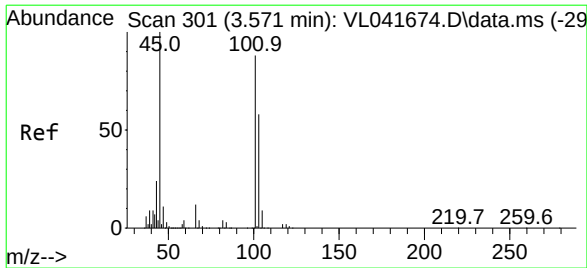
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#15
Acetone
Concen: 18.258 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.000 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

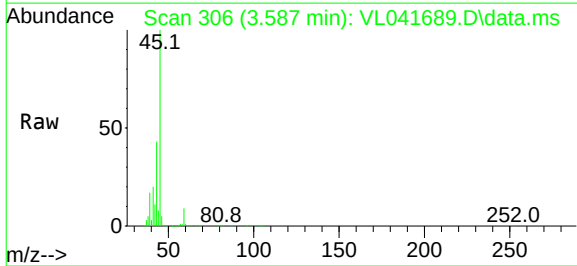
Tgt Ion: 43 Resp: 2167486
Ion Ratio Lower Upper
43 100
58 26.9 21.4 32.0





#19
Isopropyl Alcohol
Concen: 335.702 ppbv
RT: 3.587 min Scan# 301
Delta R.T. 0.016 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

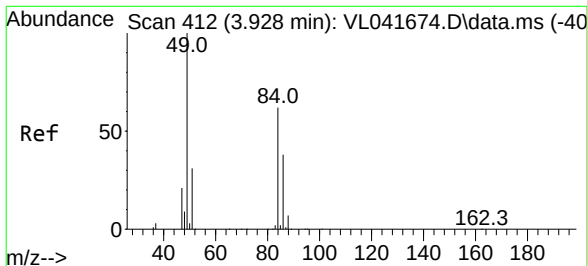
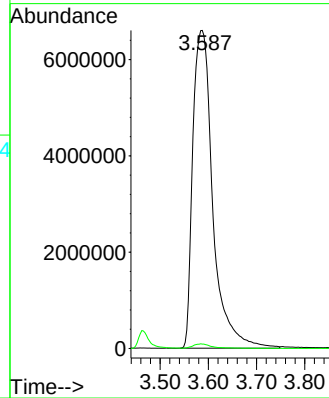
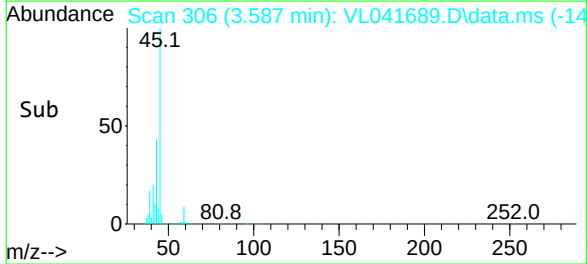
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp:19048572
Ion Ratio Lower Upper
45 100
58 1.5 2.5 3.7#

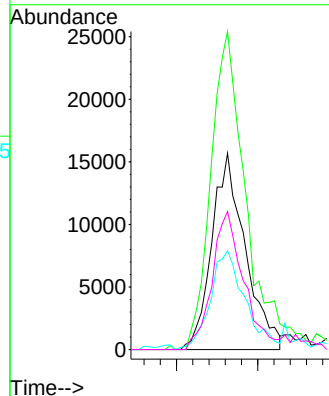
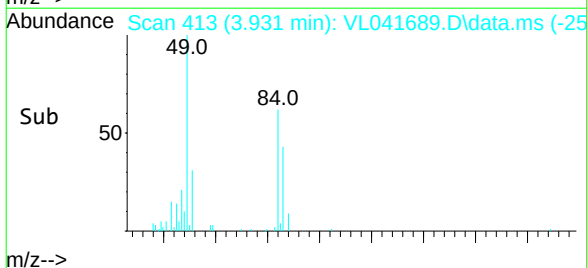
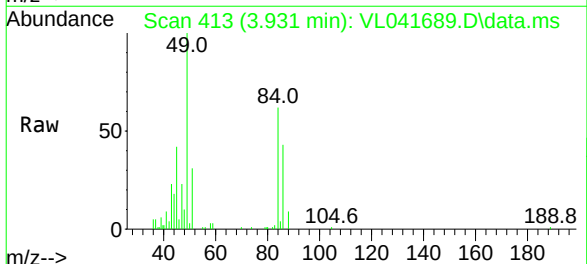
Manual Integrations
APPROVED

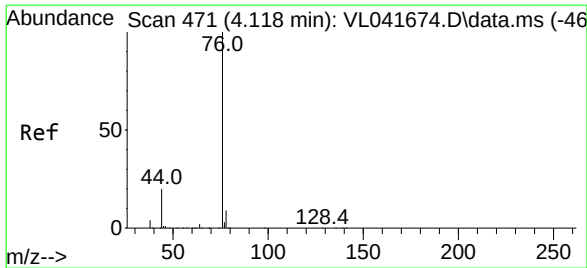
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#20
Methylene Chloride
Concen: 0.514 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

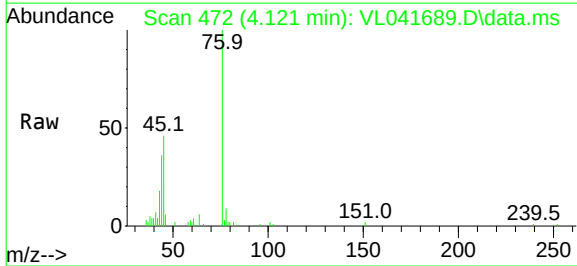
Tgt Ion: 84 Resp: 22450
Ion Ratio Lower Upper
84 100
49 161.9 129.7 194.5
51 49.2 39.8 59.6
86 70.3 49.1 73.7





#27
Carbon Disulfide
Concen: 0.232 ppbv
RT: 4.121 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

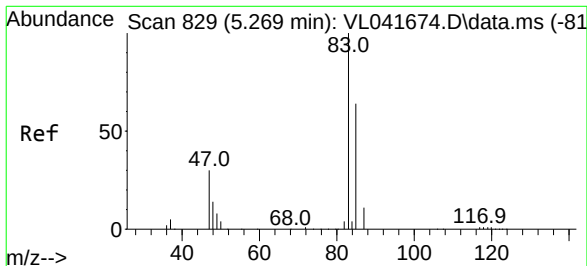
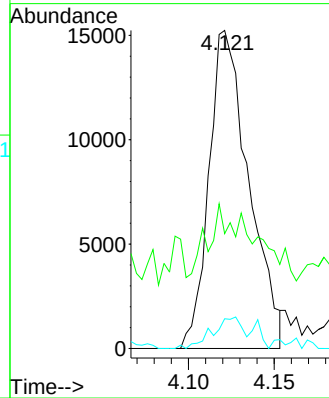
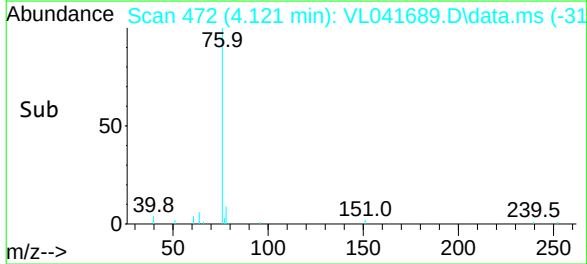
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 76 Resp: 24649
Ion Ratio Lower Upper
76 100
44 36.4 15.8 23.8#
78 11.4 7.5 11.3#

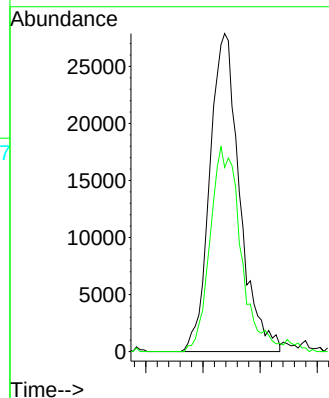
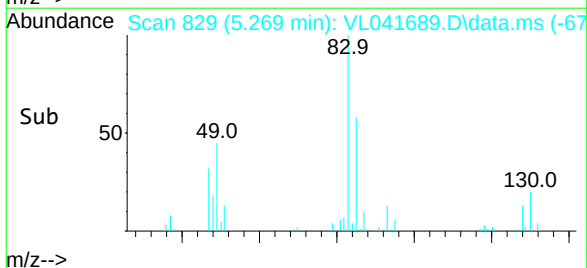
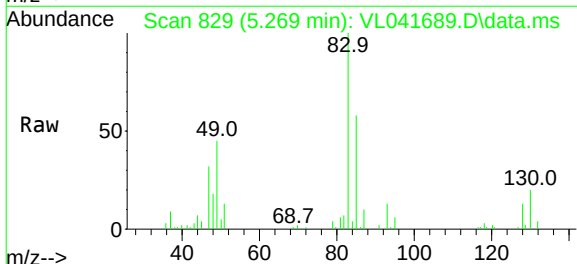
Manual Integrations
APPROVED

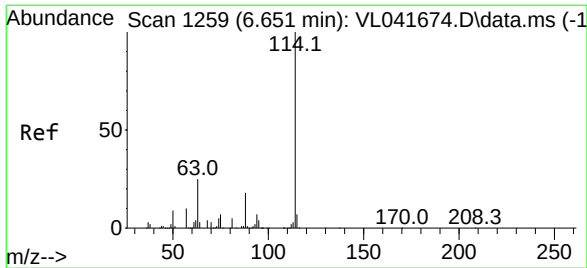
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#29
Chloroform
Concen: 0.325 ppbv
RT: 5.269 min Scan# 829
Delta R.T. 0.000 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

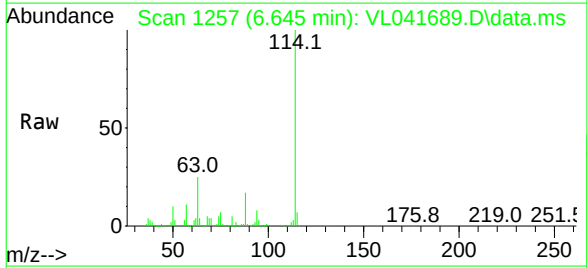
Tgt Ion: 83 Resp: 50667
Ion Ratio Lower Upper
83 100
85 57.9 51.1 76.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 12
Delta R.T. -0.006 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

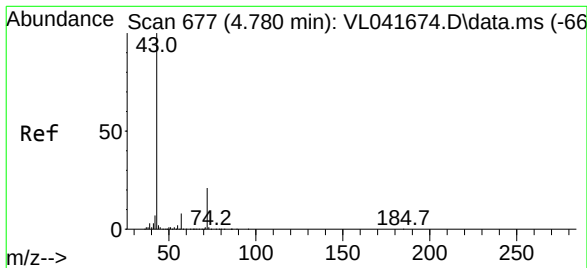
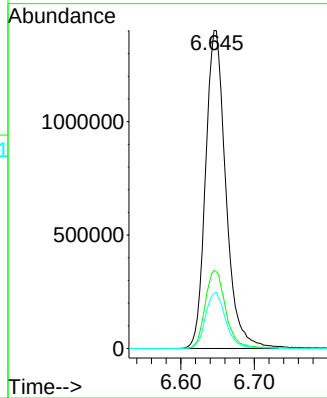
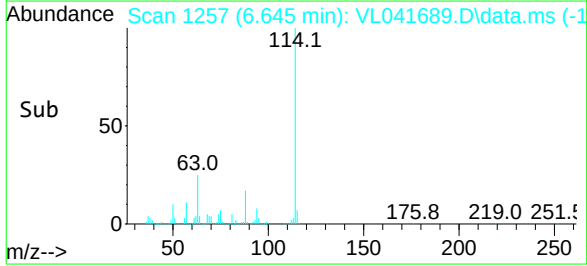
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:114 Resp: 2690604
Ion Ratio Lower Upper
114 100
63 25.1 20.3 30.5
88 17.6 14.2 21.4

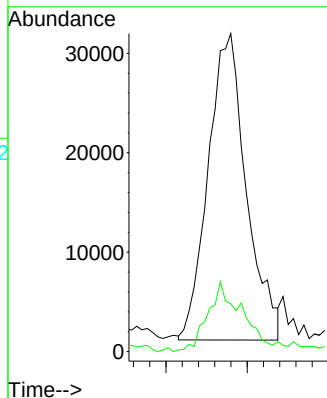
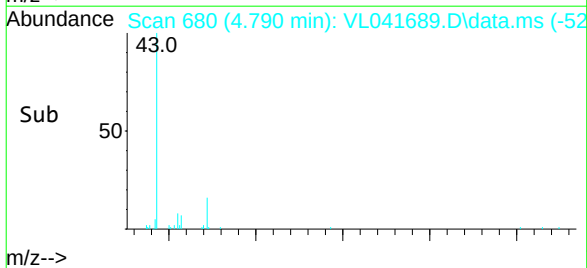
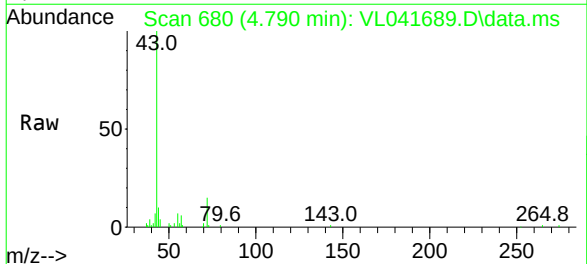
Manual Integrations
APPROVED

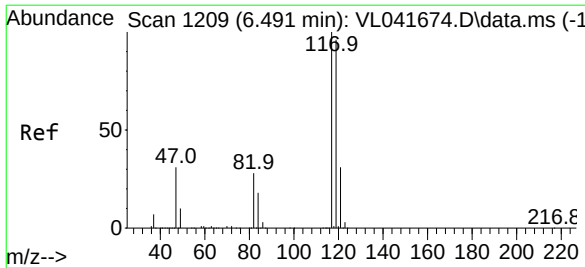
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#34
2-Butanone
Concen: 0.376 ppbv
RT: 4.790 min Scan# 680
Delta R.T. 0.010 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

Tgt Ion: 43 Resp: 50383
Ion Ratio Lower Upper
43 100
72 23.0 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 6.484 min Scan# 1209

Delta R.T. -0.006 min

Lab File: VL041689.D

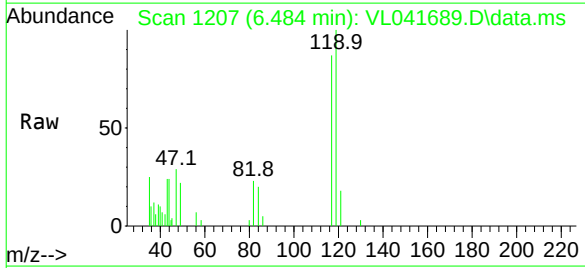
Acq: 7 Nov 2024 22:24

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP



Tgt Ion: 117 Resp: 9567

Ion Ratio Lower Upper

117 100

119 115.0 77.2 115.8

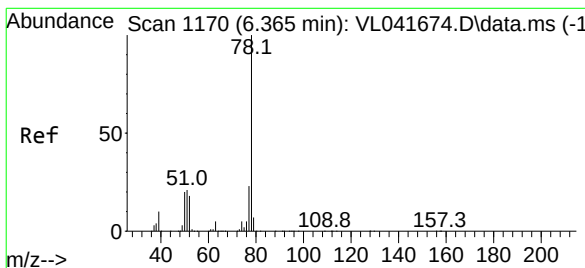
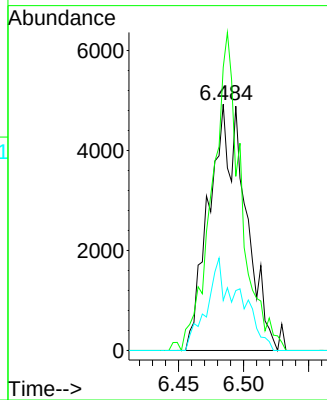
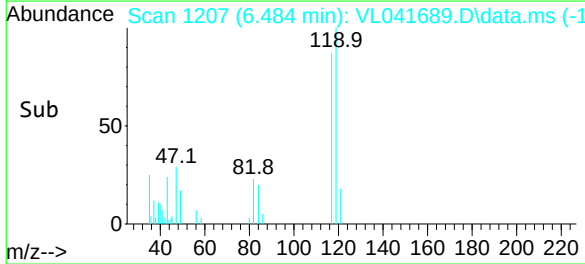
121 20.3 25.0 37.4#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#36

Benzene

Concen: 0.101 ppbv m

RT: 6.362 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

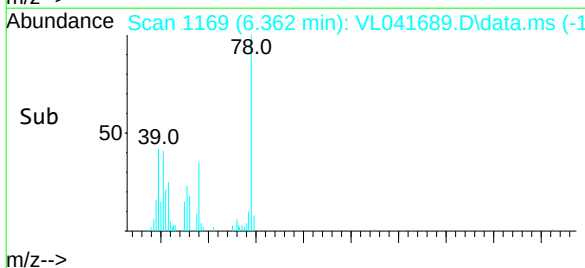
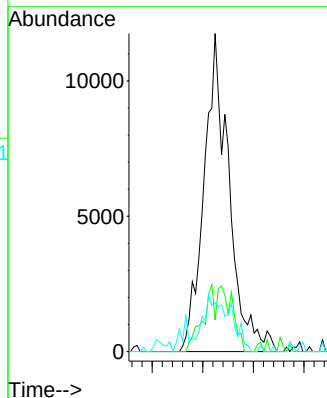
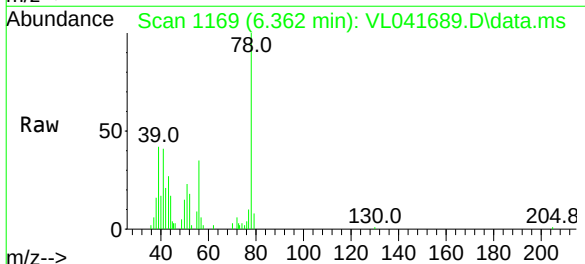
Tgt Ion: 78 Resp: 20205

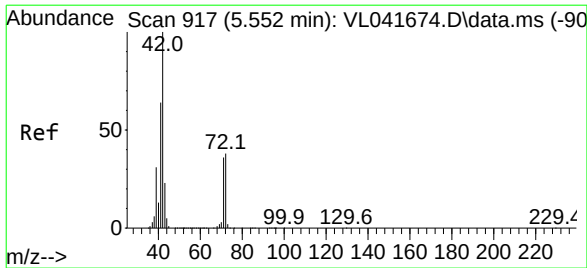
Ion Ratio Lower Upper

78 100

77 10.0 18.5 27.7#

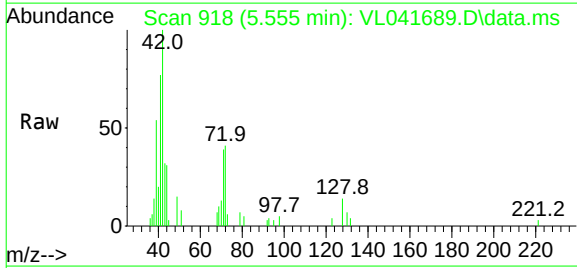
50 15.4 15.6 23.4#





#41
Tetrahydrofuran
Concen: 0.182 ppbv m
RT: 5.555 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

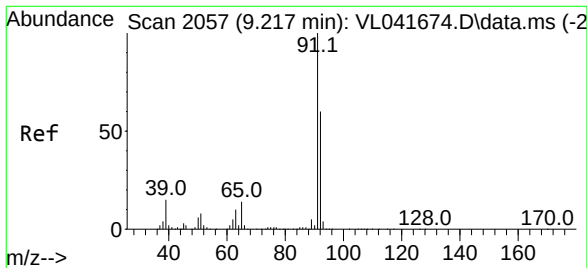
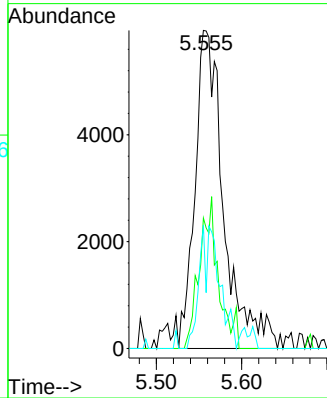
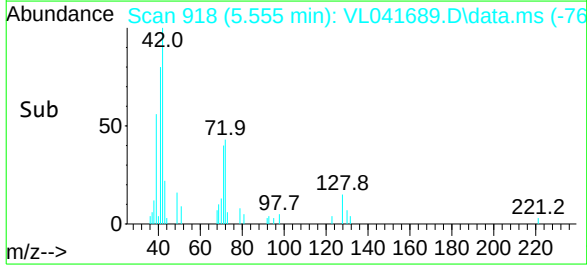
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 42 Resp: 13947
Ion Ratio Lower Upper
42 100
72 0.0 29.8 44.6#
71 30.1 29.4 44.2

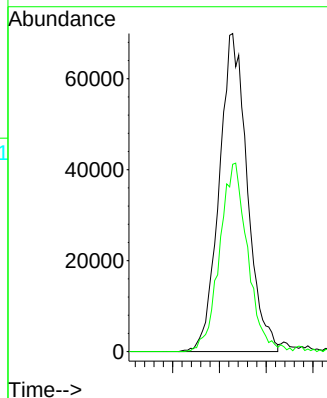
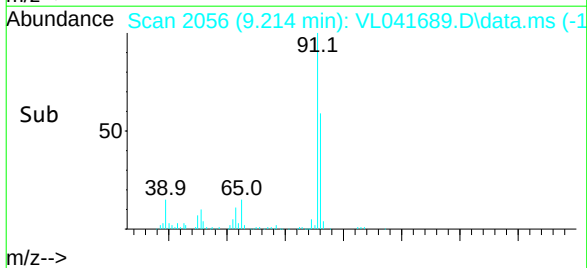
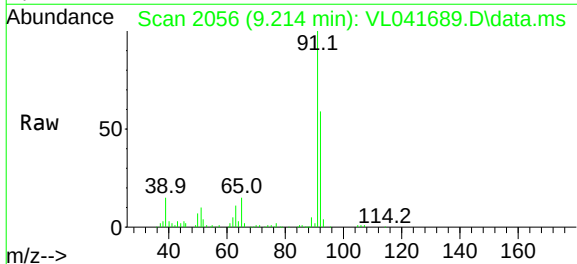
Manual Integrations
APPROVED

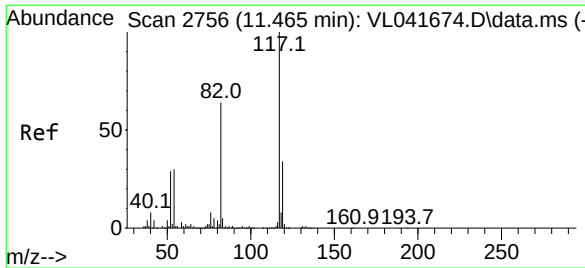
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#53
Toluene
Concen: 0.696 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. -0.003 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

Tgt Ion: 91 Resp: 145885
Ion Ratio Lower Upper
91 100
92 59.2 49.0 73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 27

Delta R.T. -0.009 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:117 Resp: 2290180

Ion Ratio Lower Upper

117 100

82 63.9 49.8 74.8

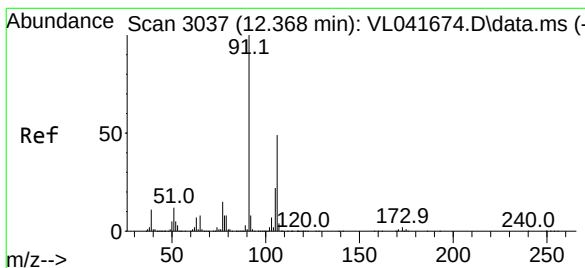
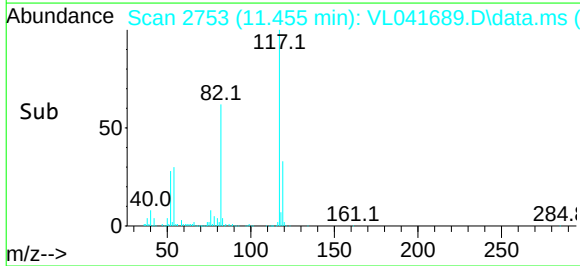
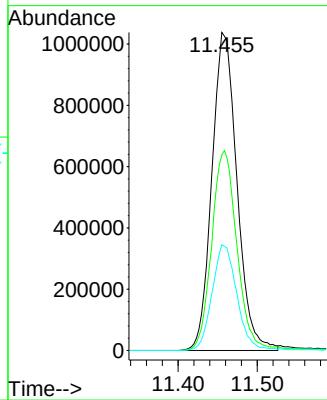
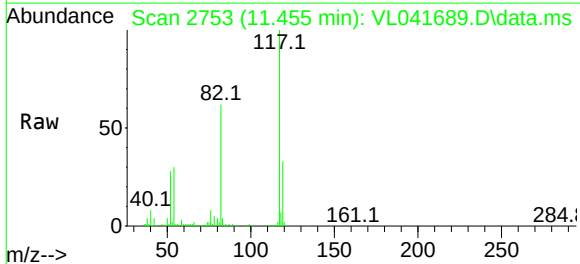
119 33.2 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#59

m/p-Xylene

Concen: 0.120 ppbv m

RT: 12.333 min Scan# 3026

Delta R.T. -0.035 min

Lab File: VL041689.D

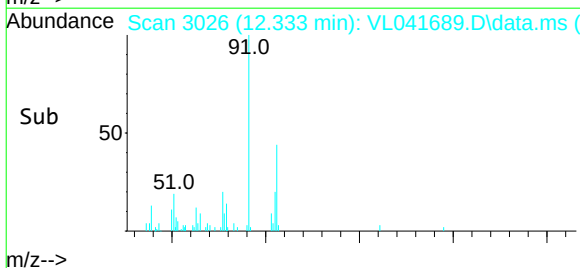
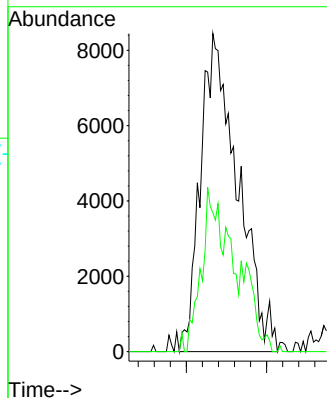
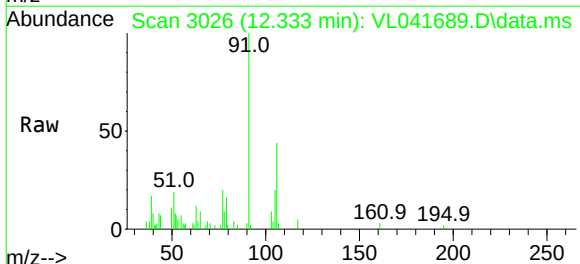
Acq: 7 Nov 2024 22:24

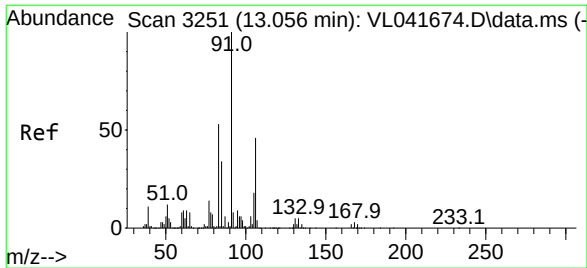
Tgt Ion: 91 Resp: 27074

Ion Ratio Lower Upper

91 100

106 0.0 36.9 55.3#





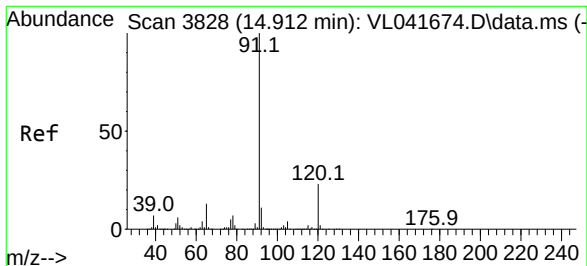
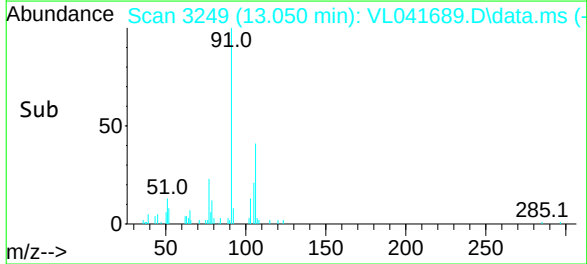
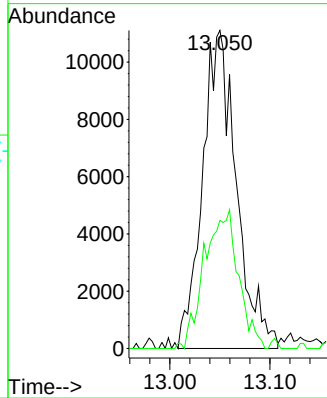
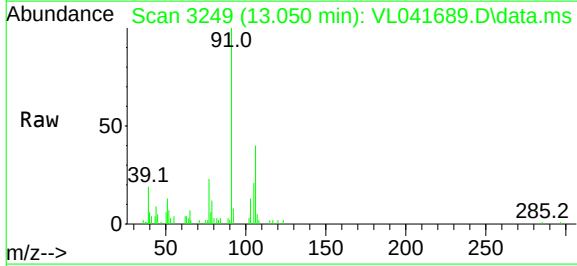
#60
o-Xylene
Concen: 0.121 ppbv m
RT: 13.050 min Scan# 3251
Delta R.T. -0.006 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

Instrument : MSVOA_L
ClientSampleId : IA1DUP

Tgt Ion: 91 Resp: 26017
Ion Ratio Lower Upper
91 100
106 0.0 23.2 69.6#

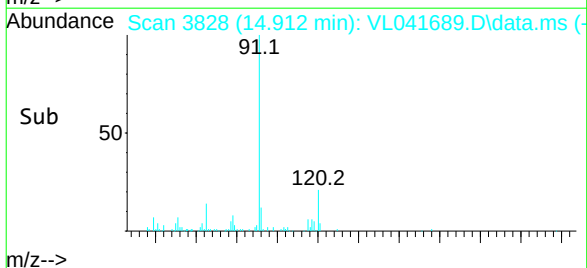
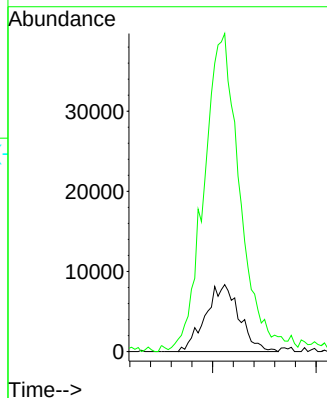
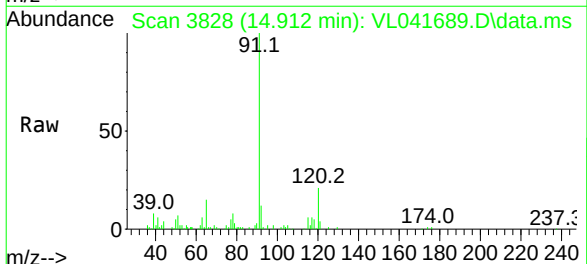
Manual Integrations
APPROVED

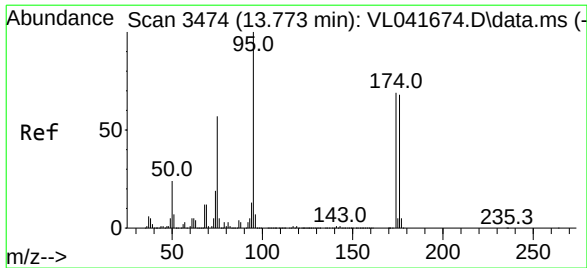
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#64
n-propylbenzene
Concen: 0.219 ppbv m
RT: 14.912 min Scan# 3828
Delta R.T. 0.000 min
Lab File: VL041689.D
Acq: 7 Nov 2024 22:24

Tgt Ion:120 Resp: 18986
Ion Ratio Lower Upper
120 100
91 0.0 362.4 543.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.829 ppbv

RT: 13.770 min Scan# 3474

Delta R.T. -0.003 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 95 Resp: 1658535

Ion Ratio Lower Upper

95 100

174 70.2 55.6 83.4

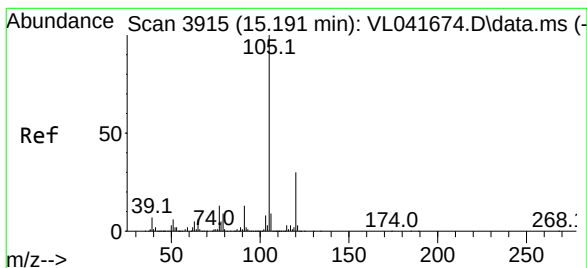
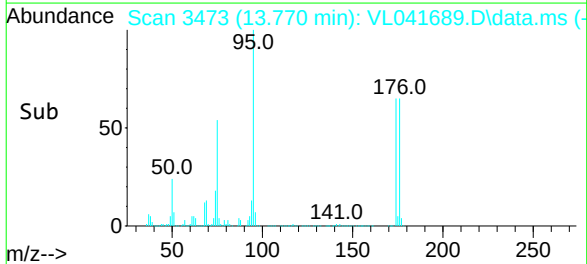
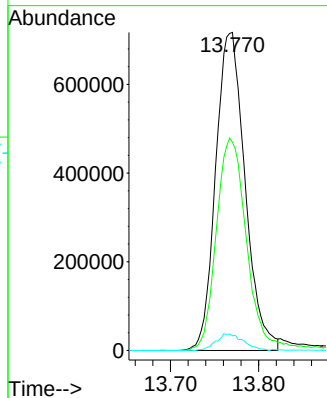
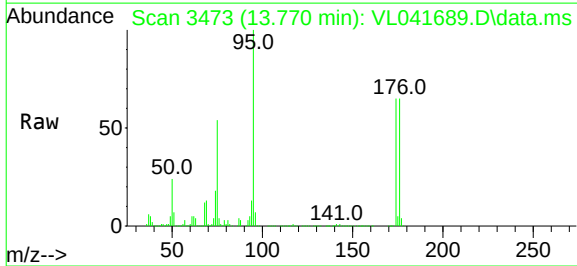
175 5.0 4.2 6.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#72

4-Ethyltoluene

Concen: 0.473 ppbv

RT: 15.188 min Scan# 3914

Delta R.T. -0.003 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

Tgt Ion:105 Resp: 117780

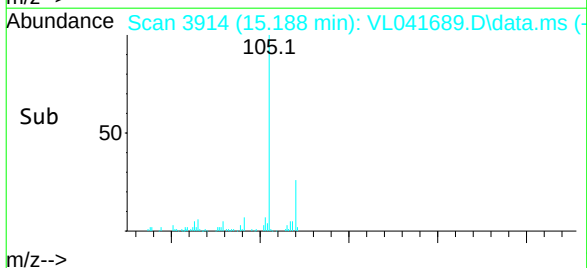
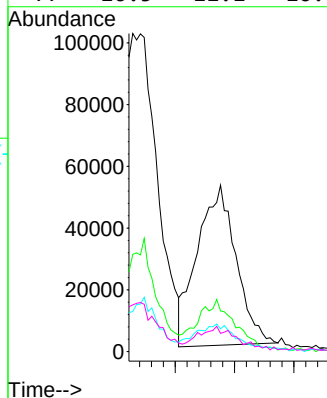
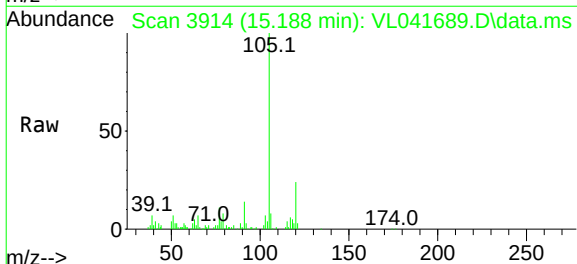
Ion Ratio Lower Upper

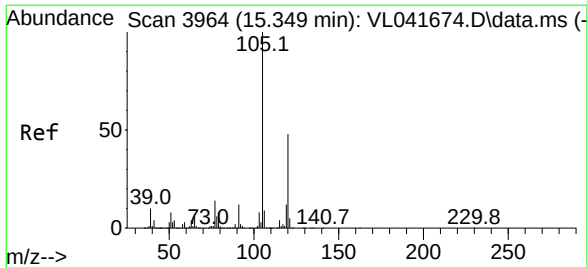
105 100

120 33.8 25.0 37.4

91 20.2 10.6 15.8#

77 16.5 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.350 ppbv

RT: 15.339 min Scan# 3964

Delta R.T. -0.010 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

Instrument :

MSVOA_L

ClientSampleId :

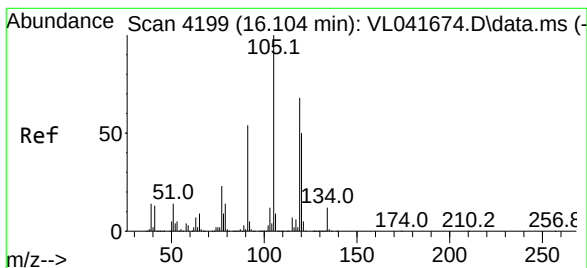
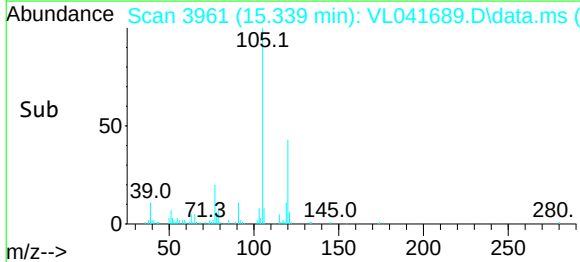
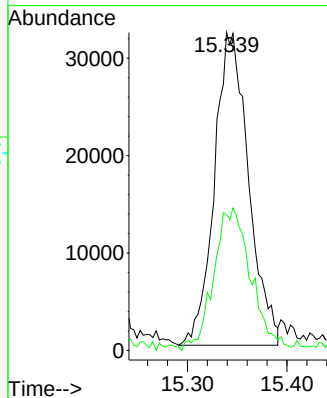
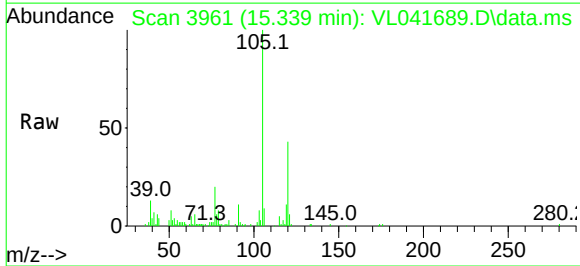
IA1DUP

Tgt Ion:105 Resp: 76575
 Ion Ratio Lower Upper
 105 100
 120 42.3 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 1.286 ppbv

RT: 16.105 min Scan# 4199

Delta R.T. 0.000 min

Lab File: VL041689.D

Acq: 7 Nov 2024 22:24

Tgt Ion:105 Resp: 326698
 Ion Ratio Lower Upper
 105 100
 120 41.4 39.8 59.8
 91 12.0 43.2 64.8#
 77 13.8 18.5 27.7#

