

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
 Data File : VL040162.D
 Acq On : 13 Feb 2023 16:13
 Operator : SY/MD
 Sample : 01530-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023
 Supervised By :Mahesh Dadoda 02/14/2023

Quant Time: Feb 14 01:46:44 2023

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

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

QLast Update : Tue Feb 14 01:41:11 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	920351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2365451	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	2055814	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.809 95 1612240 9.436 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.732	85	16490m	0.102	ppbv	
4) Chloromethane	2.816	50	8513m	0.125	ppbv	
7) Chloroethane	3.201	64	5644m	0.255	ppbv	
9) Propene	2.697	41	453716	9.892	ppbv	88
10) Heptane	7.603	43	37877	0.358	ppbv	96
13) Ethanol	3.253	45	45306m	10.732	ppbv	
15) Acetone	3.481	43	313894m	2.844	ppbv	
17) tert-Butyl alcohol	3.906	59	101849m	0.991	ppbv	
19) Isopropyl Alcohol	3.597	45	42508m	0.787	ppbv	
20) Methylene Chloride	3.944	84	73351	1.506	ppbv	96
26) Hexane	5.230	57	106113	1.247	ppbv #	37
30) Cyclohexane	6.626	84	13692m	0.202	ppbv	
34) 2-Butanone	4.809	43	74327m	0.664	ppbv	
35) Carbon Tetrachloride	6.516	117	4886m	0.037	ppbv	
36) Benzene	6.388	78	33916	0.194	ppbv #	93
44) 2,2,4-Trimethylpentane	7.349	57	53735	0.185	ppbv #	79
51) 2-Hexanone	9.600	43	26822m	0.201	ppbv	
53) Toluene	9.246	91	77110	0.413	ppbv	99
59) m/p-Xylene	12.375	91	62122m	0.301	ppbv	
60) o-Xylene	13.089	91	25032m	0.128	ppbv	
74) 1,2,4-Trimethylbenzene	16.140	105	23948m	0.111	ppbv	

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

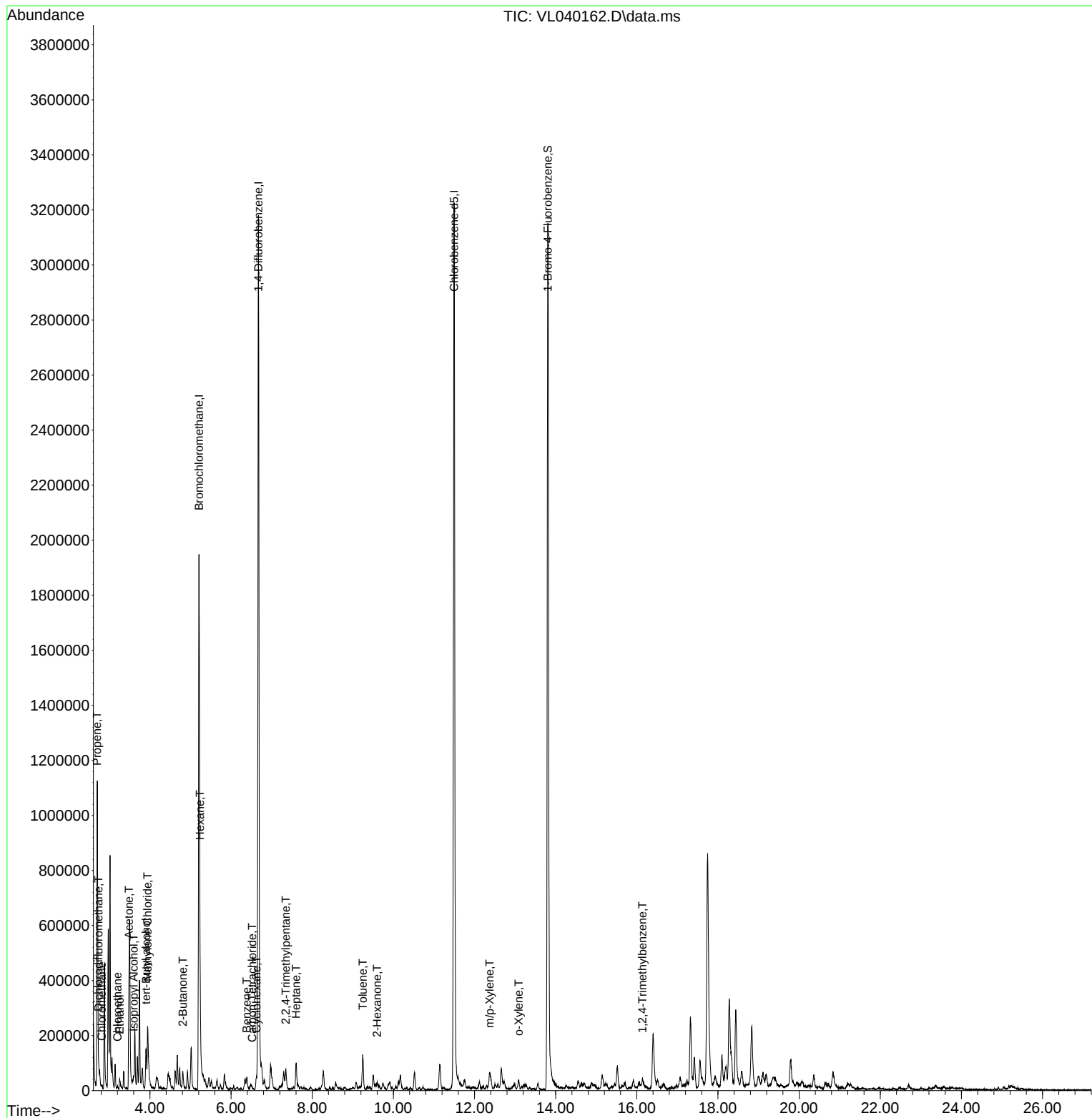
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
Data File : VL040162.D
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 14 01:41:11 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

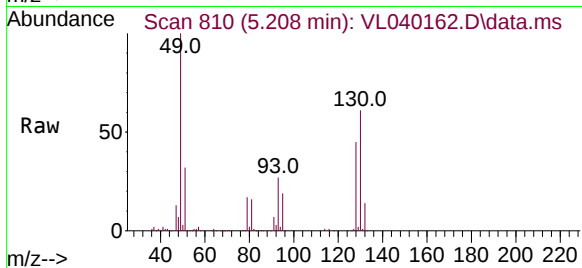
Reviewed By : Semsettin Yesilyurt 02/14/2023
Supervised By : Mahesh Dadoda 02/14/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

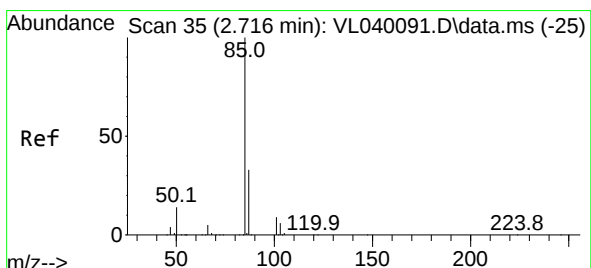
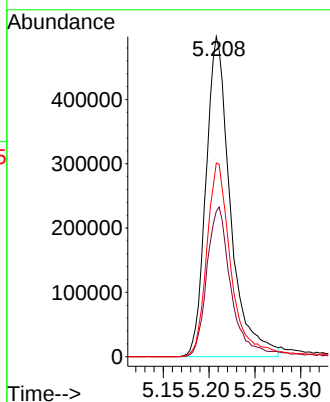
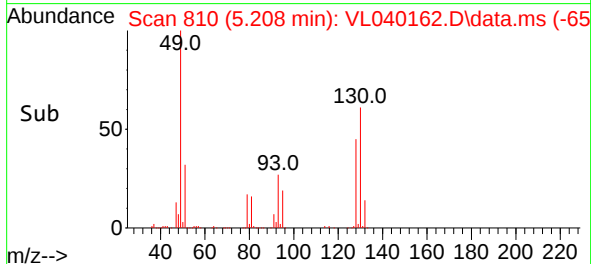
Instrument :
MSVOA_L
ClientSampleId :
SVP-01



Tgt Ion: 49 Resp: 92035
Ion Ratio Lower Upper
49 100
128 47.7 23.6 71.0
130 62.2 29.8 89.3

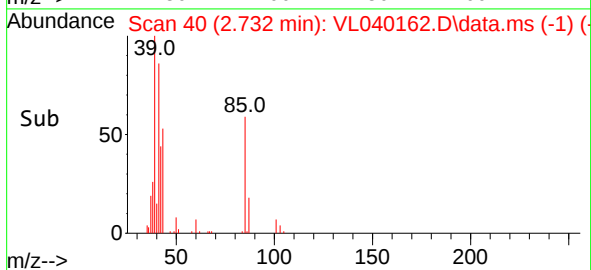
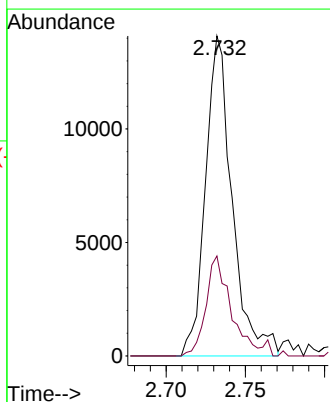
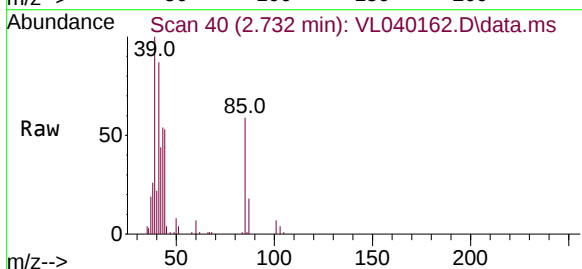
Manual Integrations
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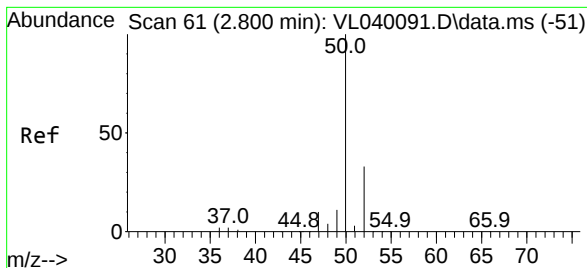
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#2
Dichlorodifluoromethane
Concen: 0.102 ppbv m
RT: 2.732 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 85 Resp: 16490
Ion Ratio Lower Upper
85 100
87 31.2 26.5 39.7





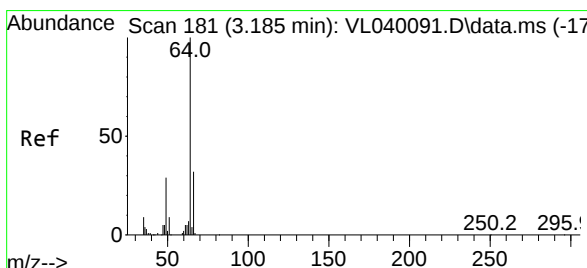
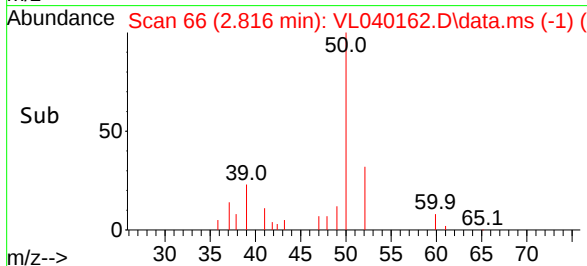
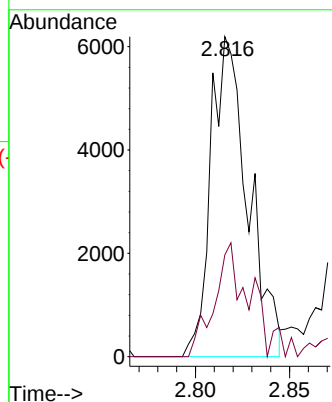
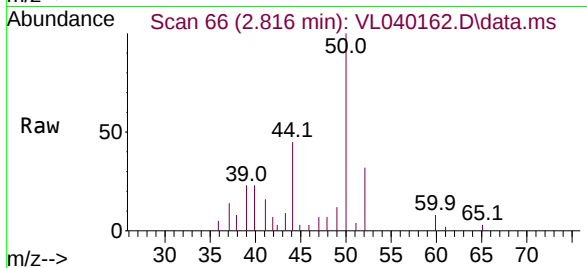
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Chloromethane
Concen: 0.125 ppbv m
RT: 2.816 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
SVP-01

Tgt Ion: 50 Resp: 851
Ion Ratio Lower Upper
50 100
52 31.8 26.5 39.7

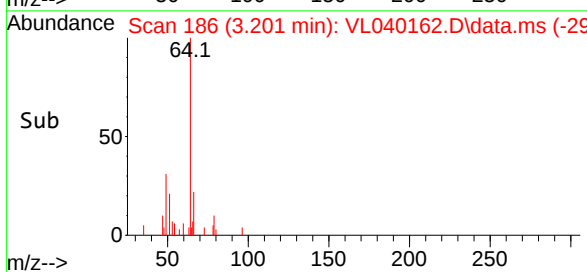
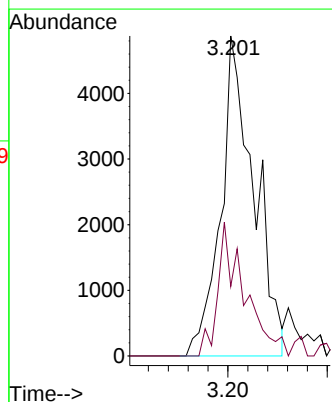
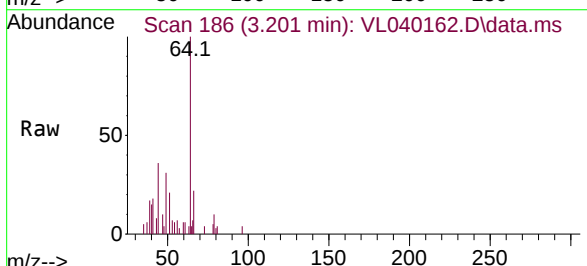
Manual Integrations
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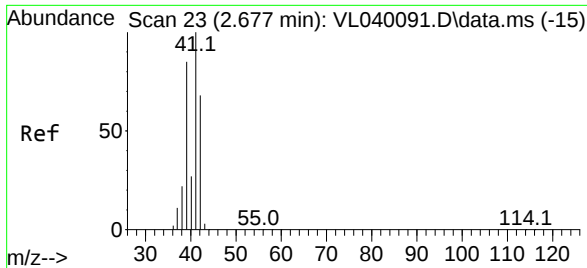
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#7
Chloroethane
Concen: 0.255 ppbv m
RT: 3.201 min Scan# 186
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

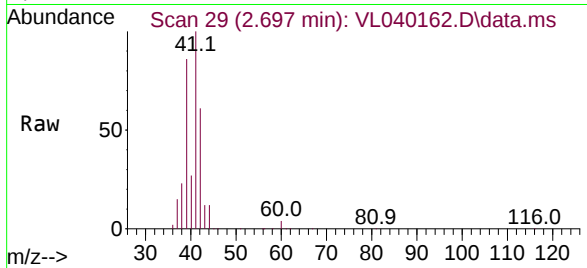
Tgt Ion: 64 Resp: 5644
Ion Ratio Lower Upper
64 100
66 21.8 25.6 38.4#





#9
 Propene
 Concen: 9.892 ppbv
 RT: 2.697 min Scan# 24
 Delta R.T. 0.003 min
 Lab File: VL040162.D
 Acq: 13 Feb 2023 16:13

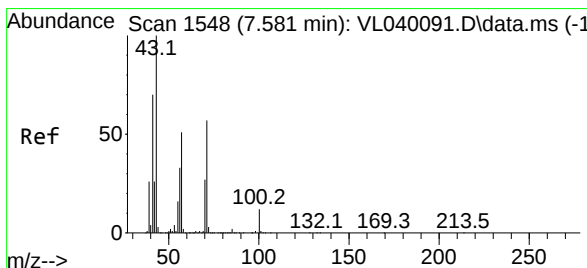
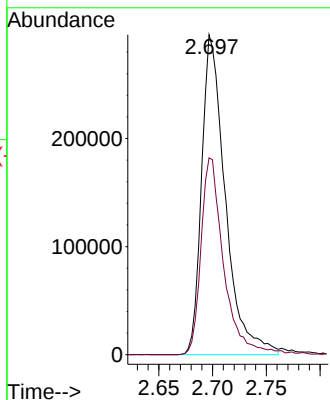
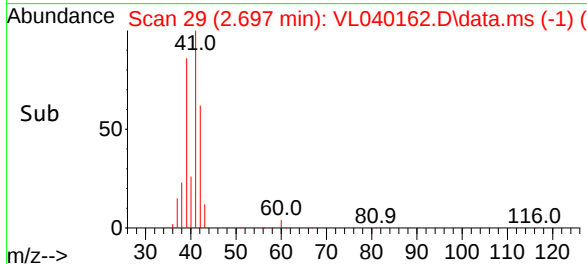
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01



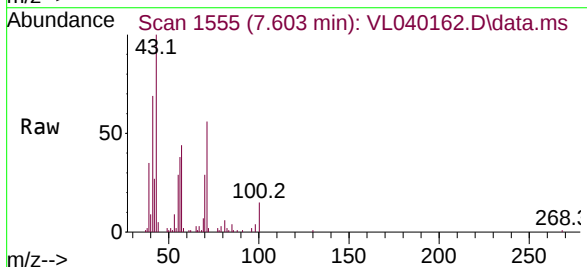
Tgt Ion: 41 Resp: 453710
 Ion Ratio Lower Upper
 41 100
 42 59.5 55.6 83.4

Manual Integrations
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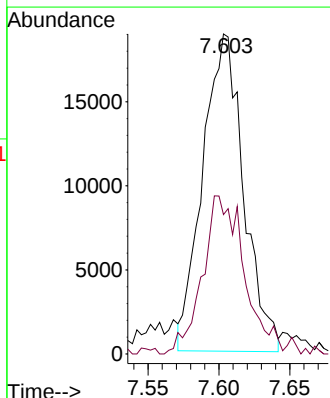
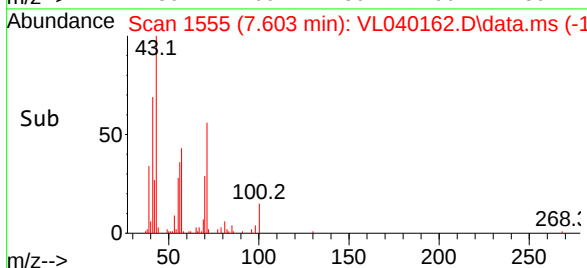
Reviewed By :Semsettin Yesilyurt 02/14/2023
 Supervised By :Mahesh Dadoda 02/14/2023

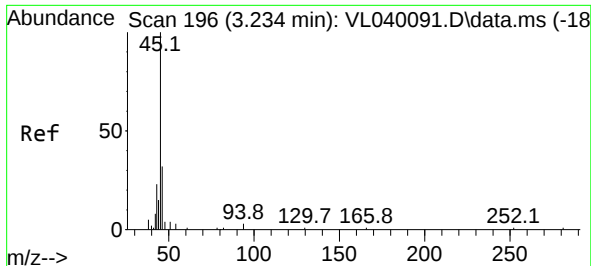


#10
 Heptane
 Concen: 0.358 ppbv
 RT: 7.603 min Scan# 1555
 Delta R.T. 0.000 min
 Lab File: VL040162.D
 Acq: 13 Feb 2023 16:13



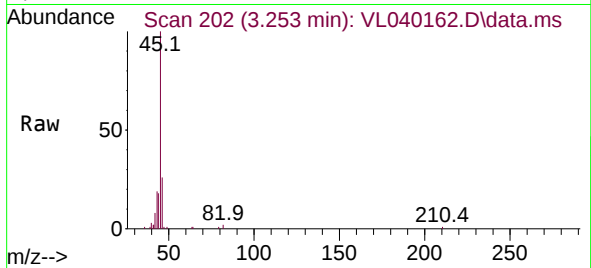
Tgt Ion: 43 Resp: 37877
 Ion Ratio Lower Upper
 43 100
 57 53.6 40.9 61.3





#13
Ethanol
Concen: 10.732 ppbv m
RT: 3.253 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

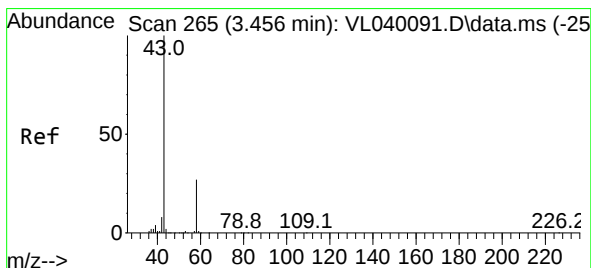
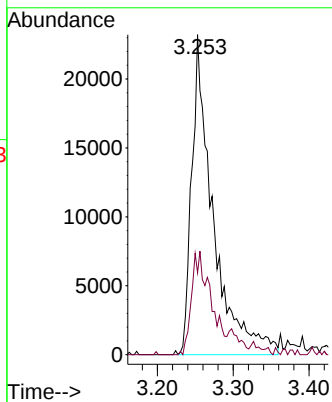
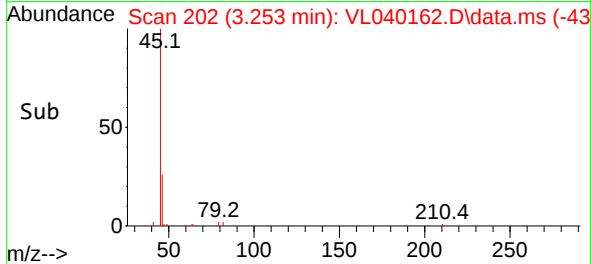
Instrument :
MSVOA_L
ClientSampleId :
SVP-01



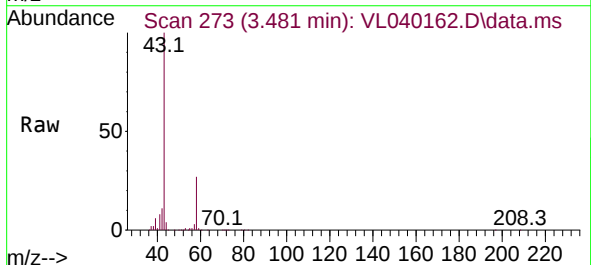
Tgt Ion: 45 Resp: 45300
Ion Ratio Lower Upper
45 100
46 35.6 14.8 59.2

Manual Integrations
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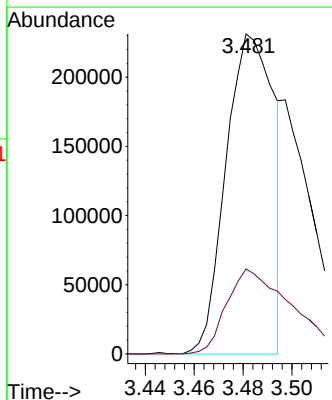
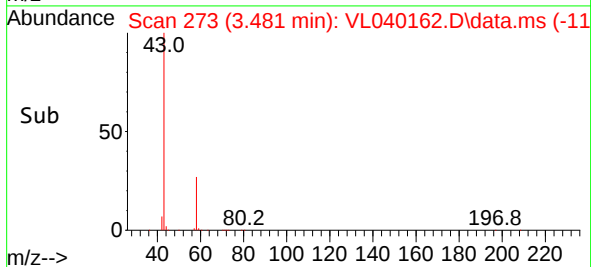
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023

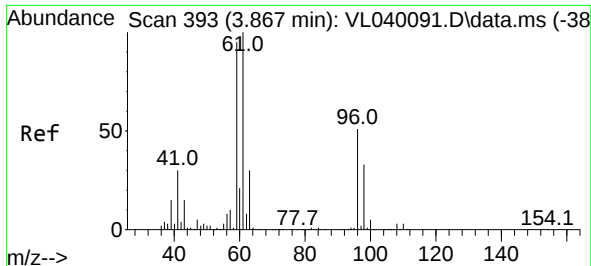


#15
Acetone
Concen: 2.844 ppbv m
RT: 3.481 min Scan# 273
Delta R.T. 0.010 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13



Tgt Ion: 43 Resp: 313894
Ion Ratio Lower Upper
43 100
58 41.6 21.8 32.8#





#17

tert-Butyl alcohol

Concen: 0.991 ppbv m

RT: 3.906 min Scan# 405

Delta R.T. 0.022 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

Tgt Ion: 59 Resp: 101849

Ion Ratio Lower Upper

59 100

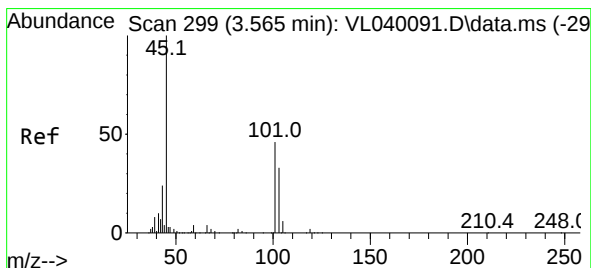
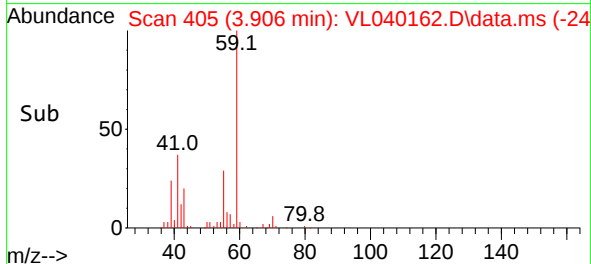
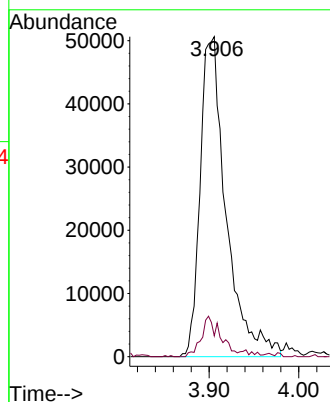
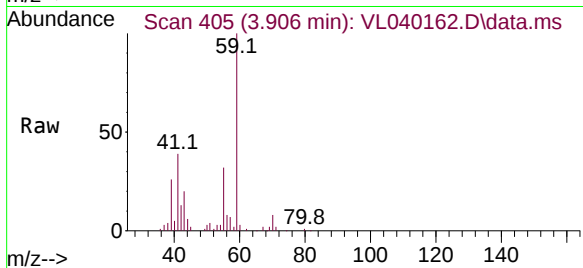
57 10.2 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023

Supervised By :Mahesh Dadoda 02/14/2023



#19

Isopropyl Alcohol

Concen: 0.787 ppbv m

RT: 3.597 min Scan# 309

Delta R.T. 0.019 min

Lab File: VL040162.D

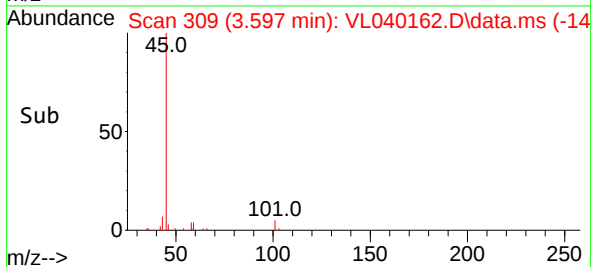
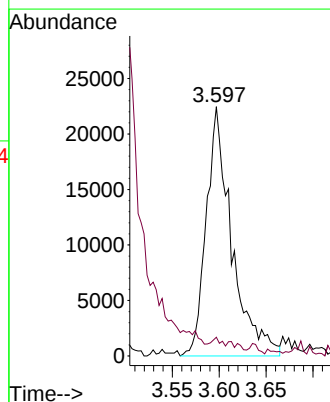
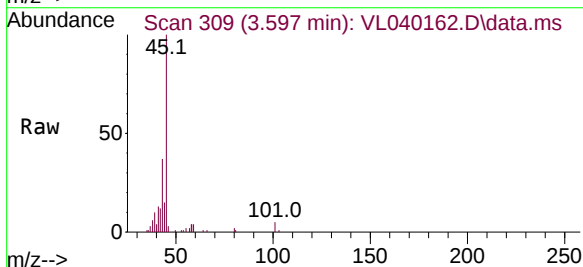
Acq: 13 Feb 2023 16:13

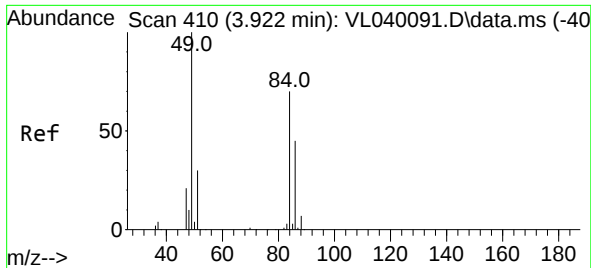
Tgt Ion: 45 Resp: 42508

Ion Ratio Lower Upper

45 100

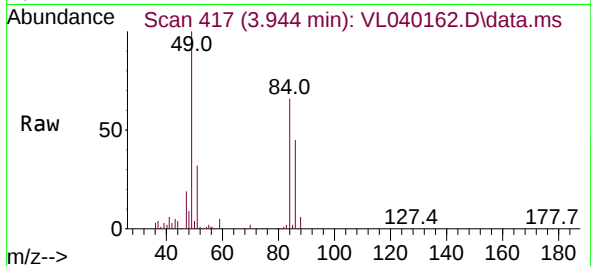
58 0.0 2.6 4.0#





#20
Methylene Chloride
Concen: 1.506 ppbv
RT: 3.944 min Scan# 410
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

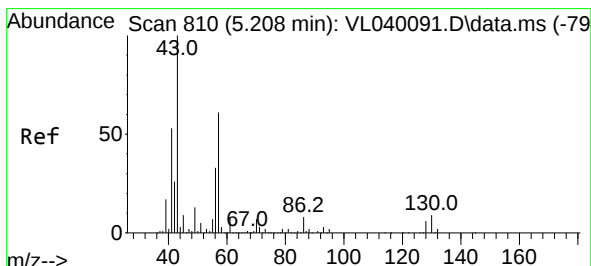
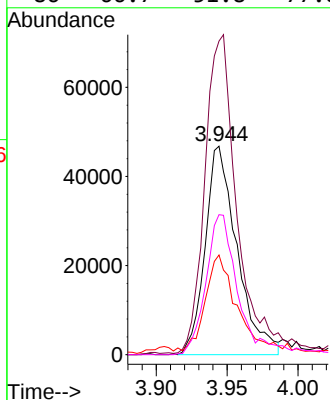
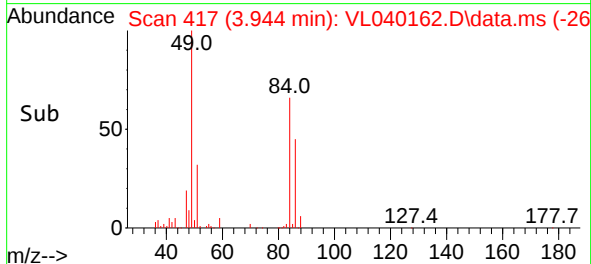
Instrument :
MSVOA_L
ClientSampleId :
SVP-01



Tgt Ion: 84 Resp: 7335
Ion Ratio Lower Upper
84 100
49 149.4 114.6 171.8
51 44.6 34.3 51.5
86 66.7 51.8 77.8

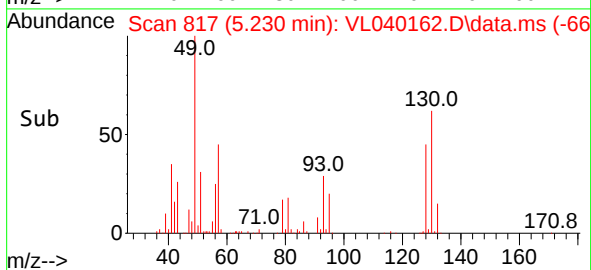
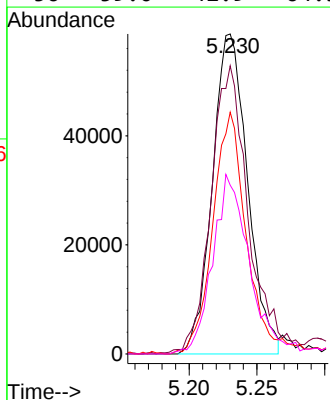
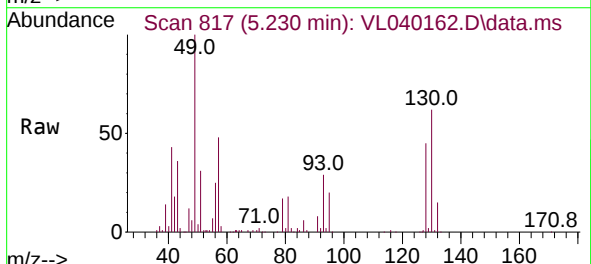
Manual Integrations
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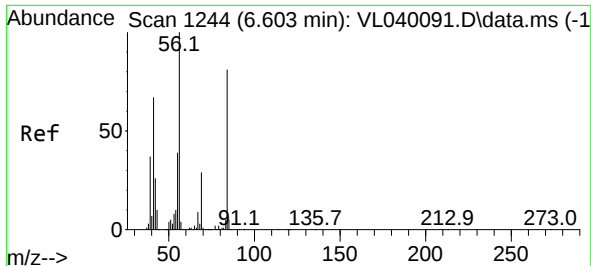
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#26
Hexane
Concen: 1.247 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

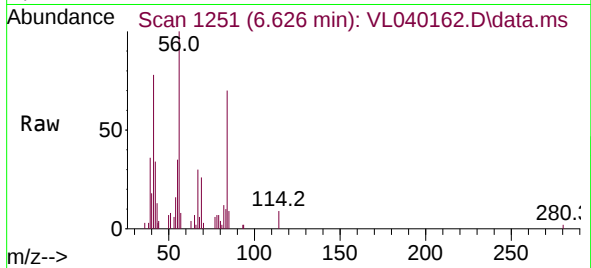
Tgt Ion: 57 Resp: 106113
Ion Ratio Lower Upper
57 100
41 95.4 72.2 108.4
43 73.9 192.1 288.1#
56 59.0 42.9 64.3





#30
Cyclohexane
Concen: 0.202 ppbv m
RT: 6.626 min Scan# 1251
Delta R.T. 0.006 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

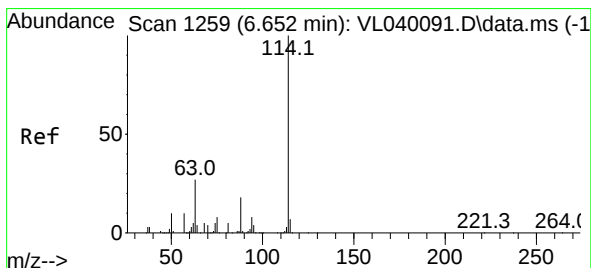
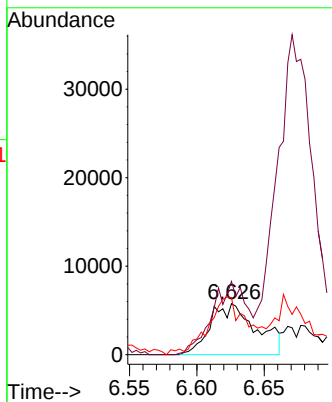
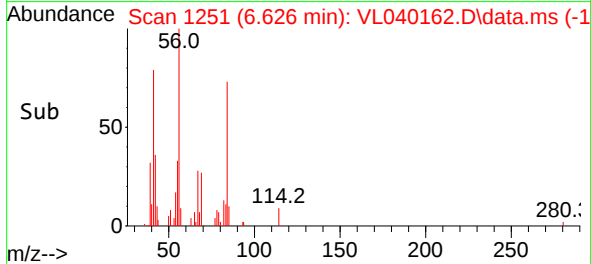
Instrument :
MSVOA_L
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SVP-01



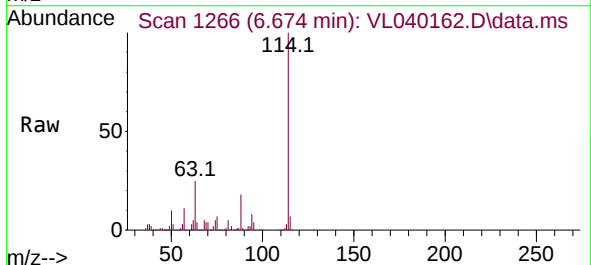
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Ion Ratio Lower Upper
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41 74.0 71.4 107.0

Manual Integrations
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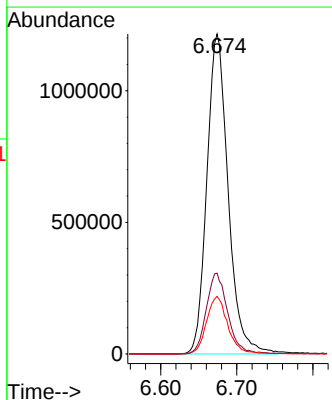
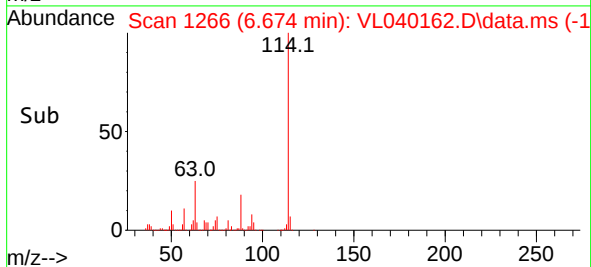
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023

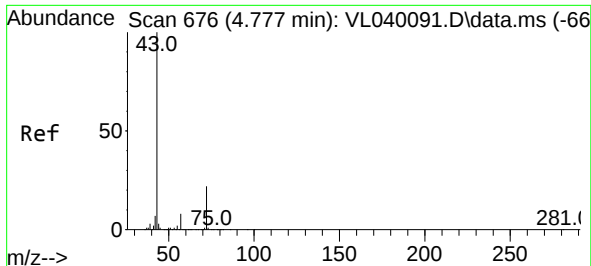


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13



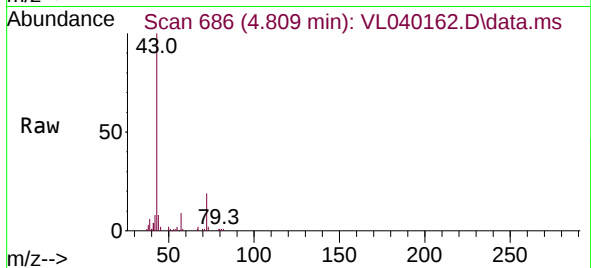
Tgt Ion:114 Resp: 2365451
Ion Ratio Lower Upper
114 100
63 25.7 21.8 32.8
88 18.1 14.8 22.2





#34
2-Butanone
Concen: 0.664 ppbv m
RT: 4.809 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

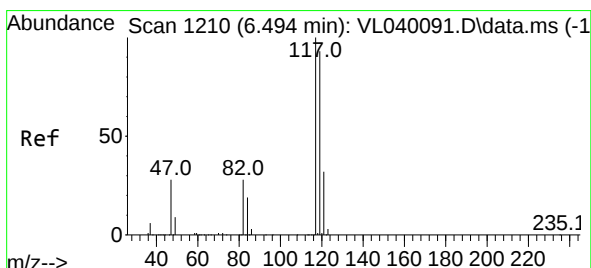
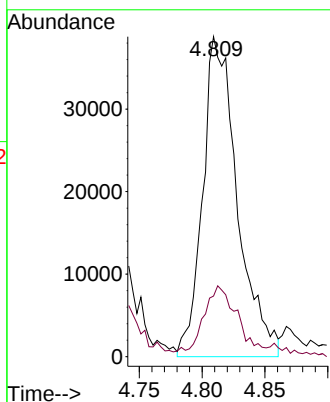
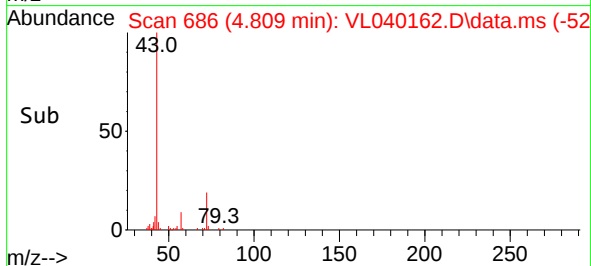
Instrument :
MSVOA_L
ClientSampleId :
SVP-01



Tgt Ion: 43 Resp: 7432
Ion Ratio Lower Upper
43 100
72 25.6 18.4 27.6

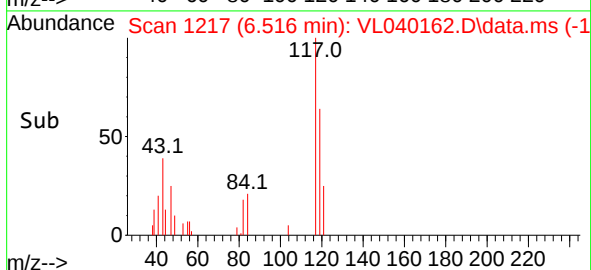
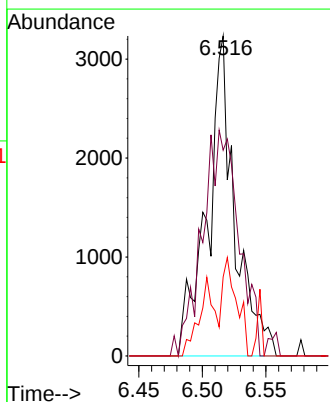
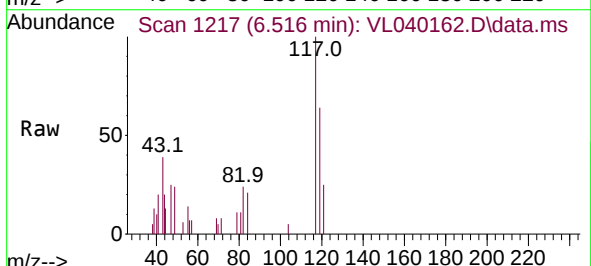
Manual Integrations
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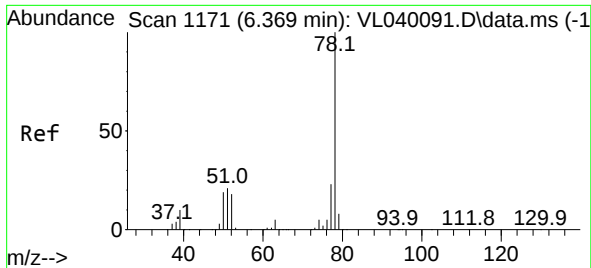
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#35
Carbon Tetrachloride
Concen: 0.037 ppbv m
RT: 6.516 min Scan# 1217
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion:117 Resp: 4886
Ion Ratio Lower Upper
117 100
119 64.3 74.5 111.7#
121 24.7 25.4 38.0#





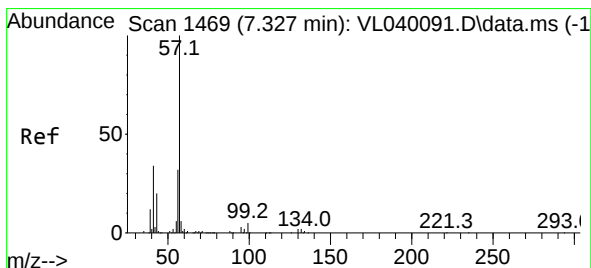
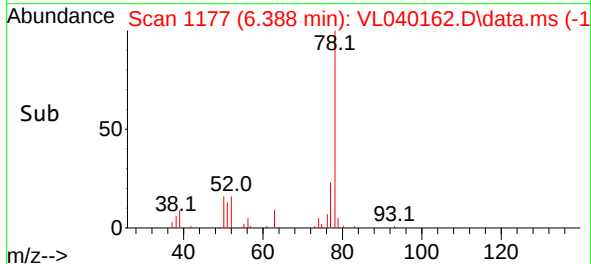
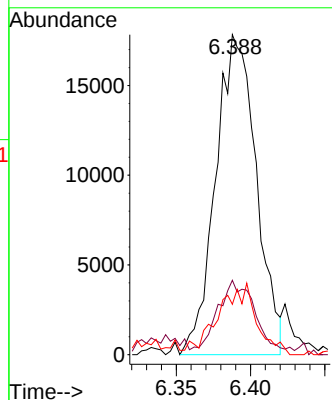
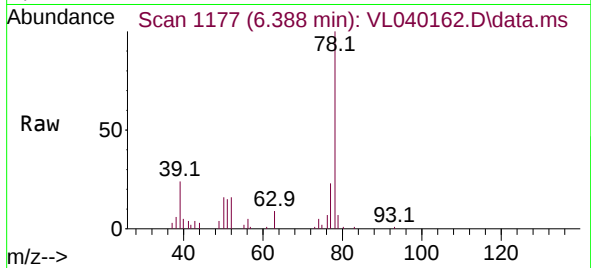
#36
Benzene
Concen: 0.194 ppbv
RT: 6.388 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
SVP-01

Tgt Ion: 78 Resp: 33910
Ion Ratio Lower Upper
78 100
77 21.1 18.1 27.1
50 14.4 15.6 23.4

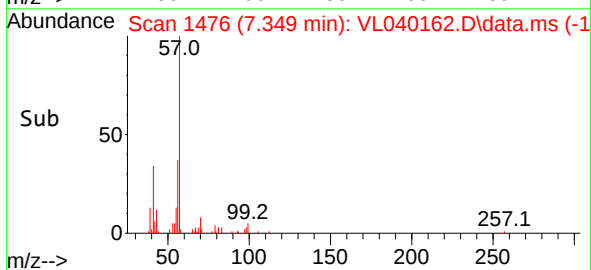
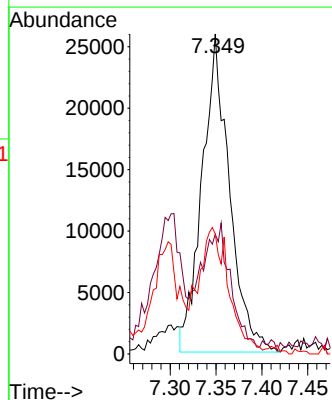
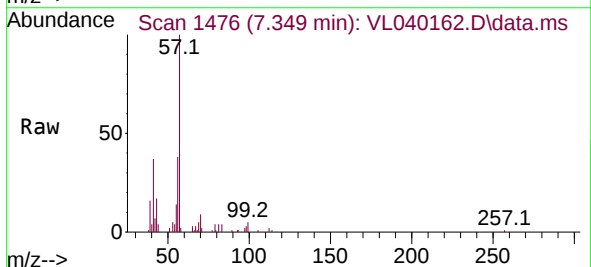
Manual Integrations
APPROVED

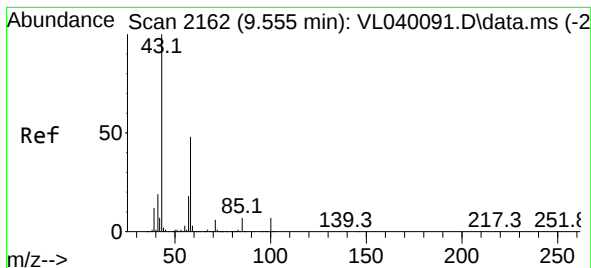
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#44
2,2,4-Trimethylpentane
Concen: 0.185 ppbv
RT: 7.349 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

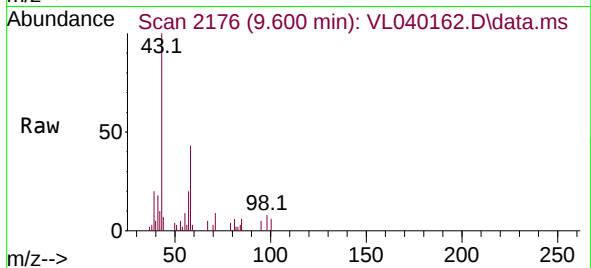
Tgt Ion: 57 Resp: 53735
Ion Ratio Lower Upper
57 100
41 41.9 27.1 40.7#
56 46.6 25.0 37.4#





#51
2-Hexanone
Concen: 0.201 ppbv m
RT: 9.600 min Scan# 2162
Delta R.T. 0.026 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

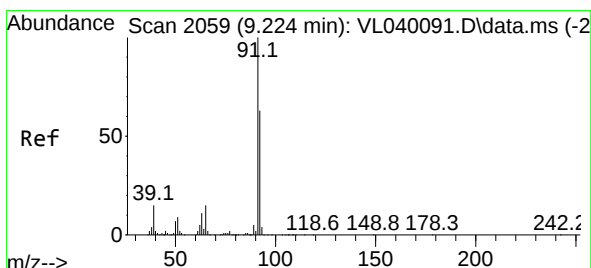
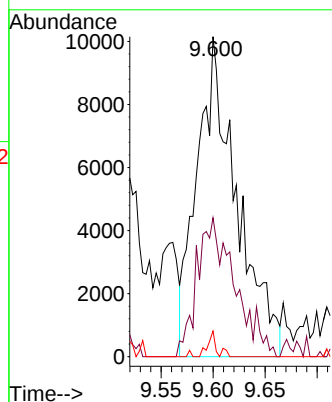
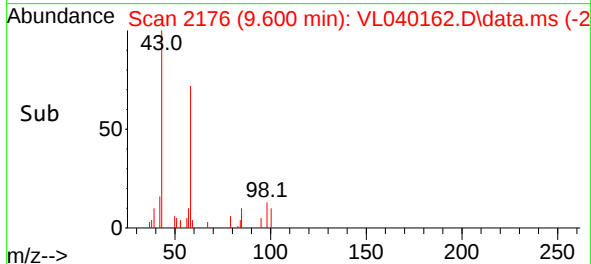
Instrument :
MSVOA_L
ClientSampleId :
SVP-01



Tgt Ion: 43 Resp: 2682
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3
98 0.0 0.4 0.6

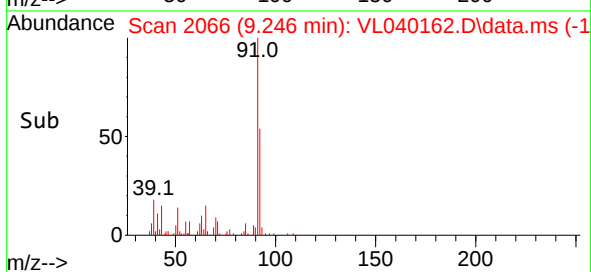
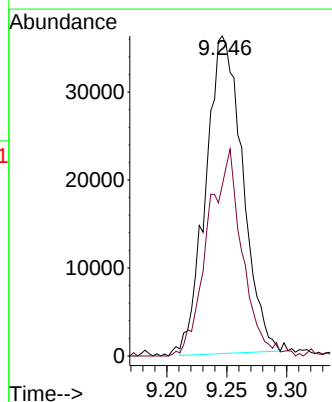
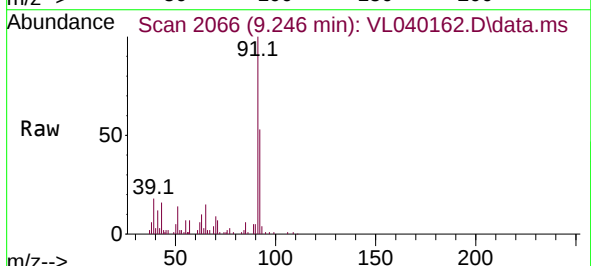
Manual Integrations
APPROVED

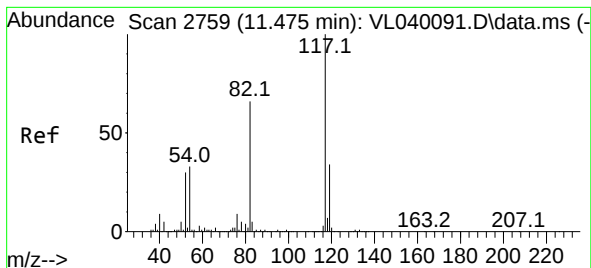
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#53
Toluene
Concen: 0.413 ppbv
RT: 9.246 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

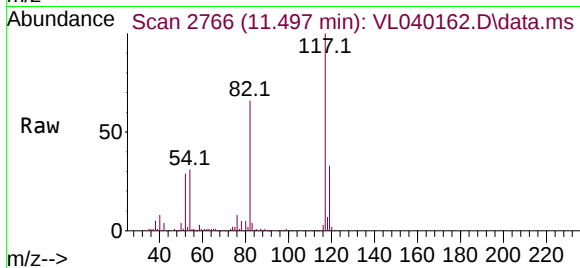
Tgt Ion: 91 Resp: 77110
Ion Ratio Lower Upper
91 100
92 61.2 48.3 72.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.497 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

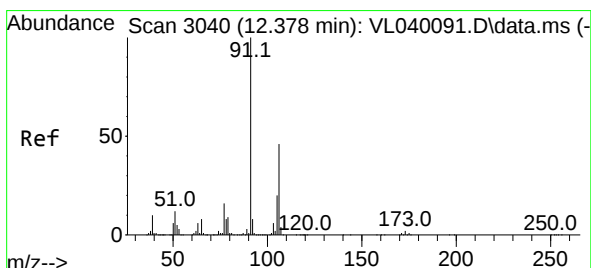
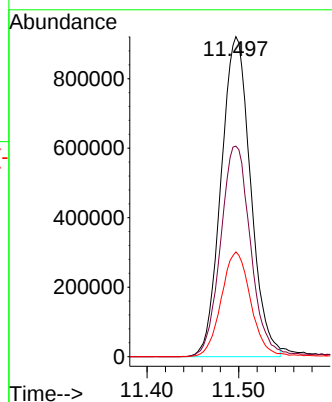
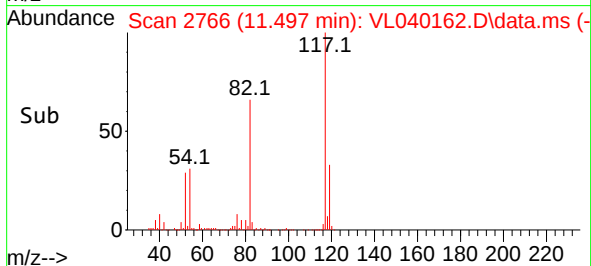
Instrument :
MSVOA_L
ClientSampleId :
SVP-01



Tgt Ion:117 Resp: 2055814
Ion Ratio Lower Upper
117 100
82 67.5 54.4 81.6
119 33.4 26.8 40.2

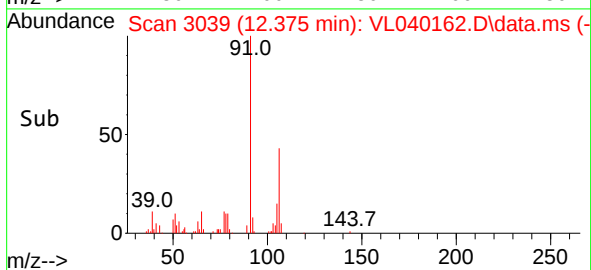
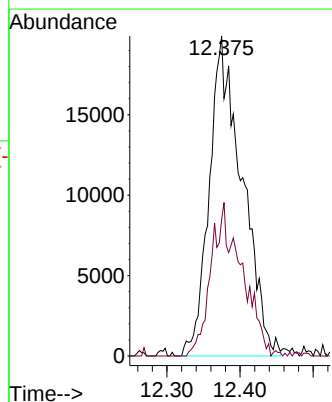
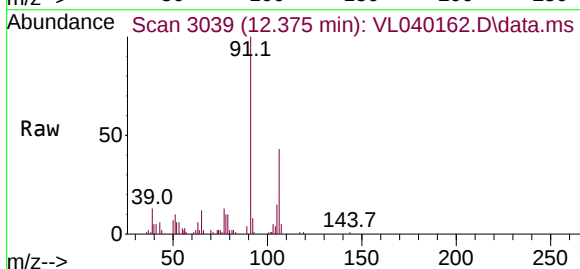
Manual Integrations
APPROVED

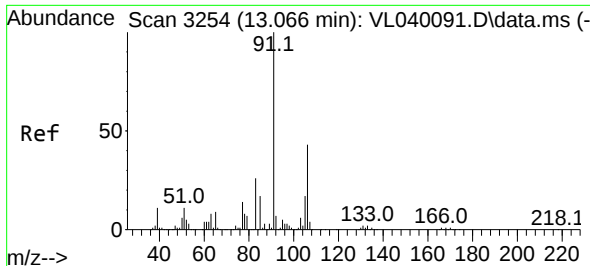
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#59
m/p-Xylene
Concen: 0.301 ppbv m
RT: 12.375 min Scan# 3039
Delta R.T. -0.029 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 91 Resp: 62122
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.4#





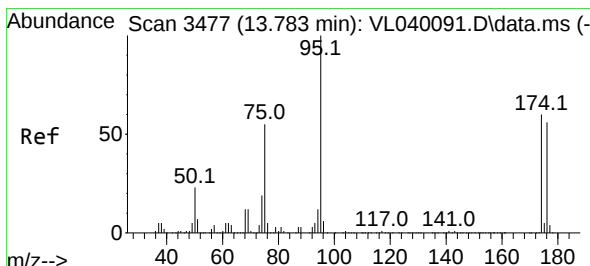
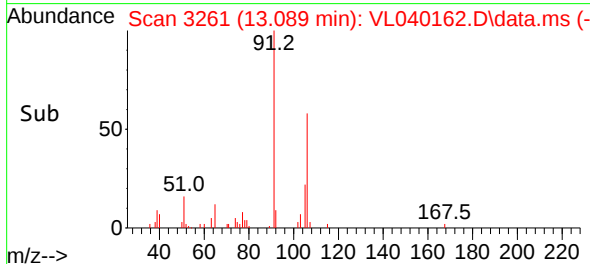
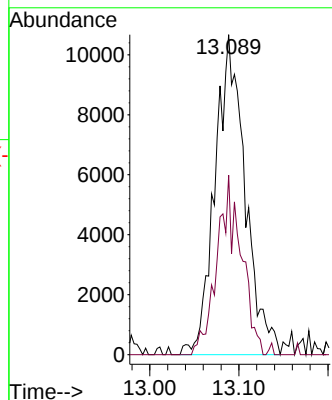
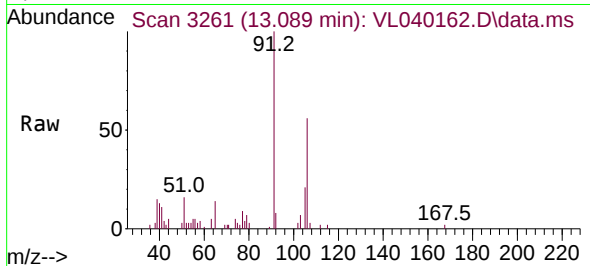
#60
o-Xylene
Concen: 0.128 ppbv m
RT: 13.089 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
SVP-01

Tgt Ion: 91 Resp: 2503
Ion Ratio Lower Upper
91 100
106 45.4 21.6 64.8

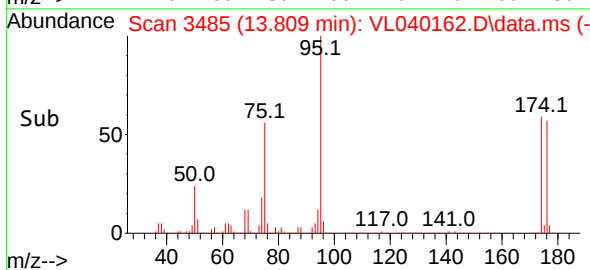
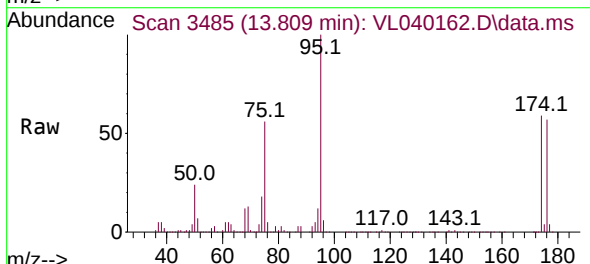
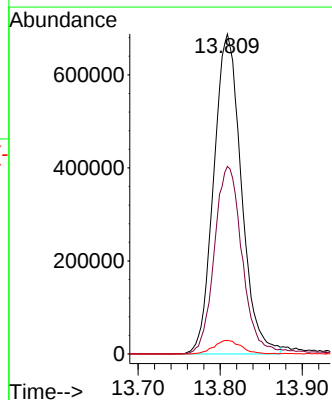
Manual Integrations
APPROVED

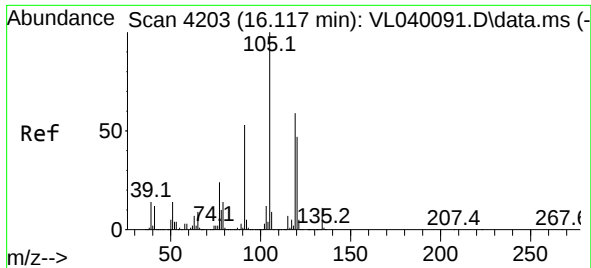
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.436 ppbv
RT: 13.809 min Scan# 3485
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

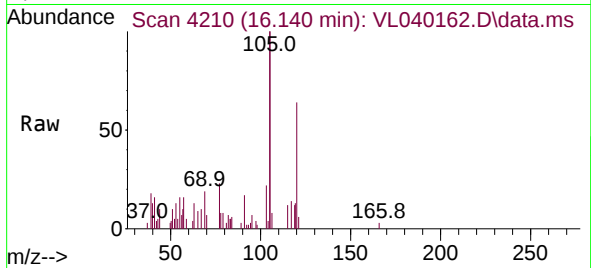
Tgt Ion: 95 Resp: 1612240
Ion Ratio Lower Upper
95 100
174 60.9 47.7 71.5
175 4.3 3.4 5.2





#74
1,2,4-Trimethylbenzene
Concen: 0.111 ppbv m
RT: 16.140 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
SVP-01



Tgt Ion:	105	Resp:	2394
Ion Ratio	Lower	Upper	
105	100		
120	64.2	38.0	57.0
91	16.9	42.1	63.1
77	23.3	19.3	28.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023

