

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040382.D
 Acq On : 19 Apr 2023 16:34
 Operator : SY/MD
 Sample : 02368-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2A

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2023
 Supervised By : Mahesh Dadoda 04/22/2023

Quant Time: Apr 20 05:11:26 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M

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

QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1069389	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2650004	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2356144	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 1863581 9.565 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 95.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	87614	0.454	ppbv	93
4) Chloromethane	2.796	50	42308	0.479	ppbv	95
9) Propene	2.687	41	71229	1.290	ppbv #	78
11) Trichlorofluoromethane	3.549	101	41714	0.214	ppbv	97
13) Ethanol	3.230	45	11345605	2461.824	ppbv	97
15) Acetone	3.452	43	1266025	8.359	ppbv	98
19) Isopropyl Alcohol	3.574	45	1397655	20.223	ppbv #	98
20) Methylene Chloride	3.922	84	91894	1.520	ppbv	93
26) Hexane	5.205	57	153317	1.427	ppbv #	57
29) Chloroform	5.269	83	30025	0.157	ppbv	96
34) 2-Butanone	4.777	43	103719	0.726	ppbv	99
35) Carbon Tetrachloride	6.497	117	12254m	0.066	ppbv	
36) Benzene	6.359	78	75326	0.348	ppbv #	94
44) 2,2,4-Trimethylpentane	7.320	57	69694	0.193	ppbv #	77
52) Tetrachloroethene	10.609	164	3796m	0.056	ppbv	
53) Toluene	9.220	91	173984	0.759	ppbv	100
58) Ethyl Benzene	12.089	91	36240m	0.125	ppbv	
59) m/p-Xylene	12.346	91	116786m	0.438	ppbv	
60) o-Xylene	13.060	91	48677	0.190	ppbv	96
74) 1,2,4-Trimethylbenzene	16.114	105	42716	0.143	ppbv #	74
76) 1,4-Dichlorobenzene	16.477	146	23371m	0.145	ppbv	

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

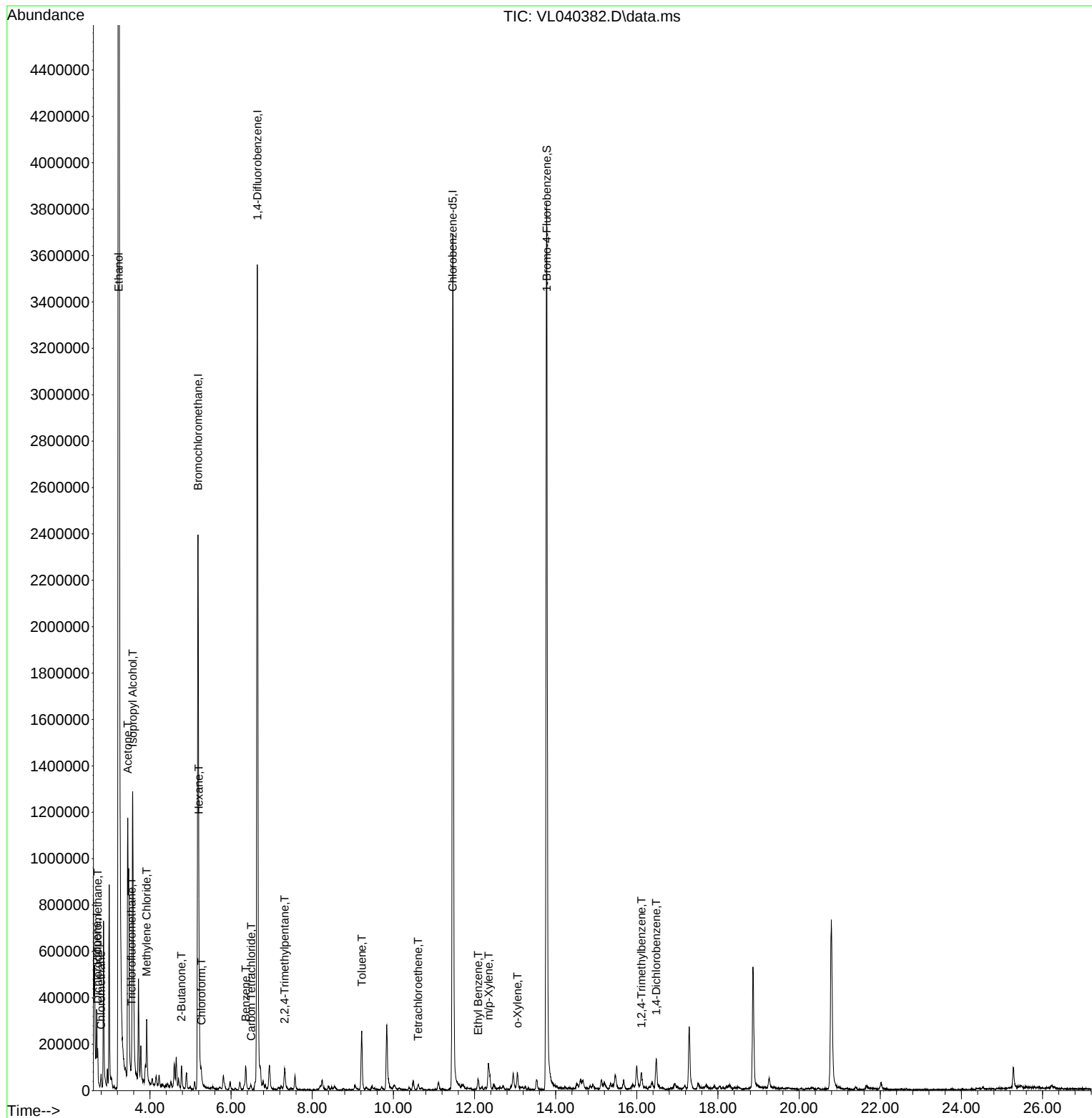
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
Data File : VL040382.D
Acq On : 19 Apr 2023 16:34
Operator : SY/MD
Sample : 02368-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

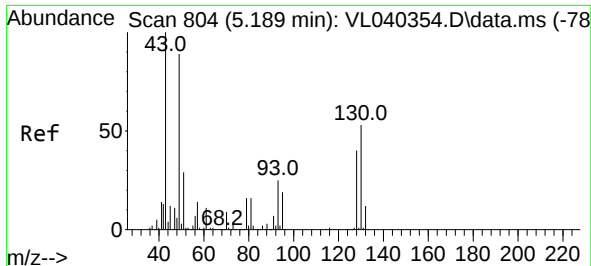
Instrument :
MSVOA_L
ClientSampleId :
AP-2A

Quant Time: Apr 20 05:11:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

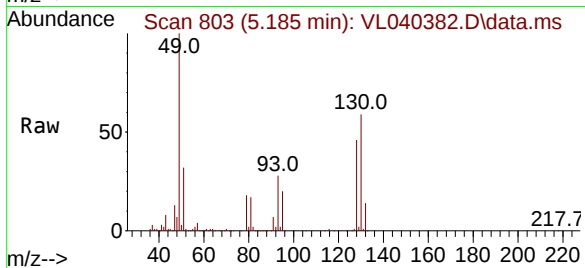
Reviewed By : Semsettin Yesilyurt 04/20/2023
Supervised By : Mahesh Dadoda 04/22/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 804
Delta R.T. -0.004 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

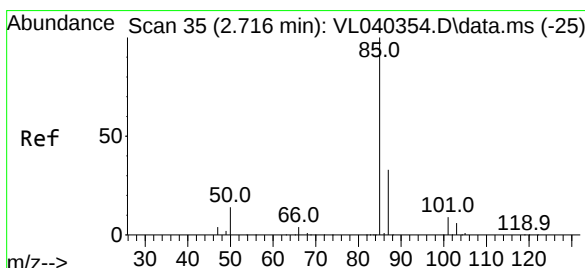
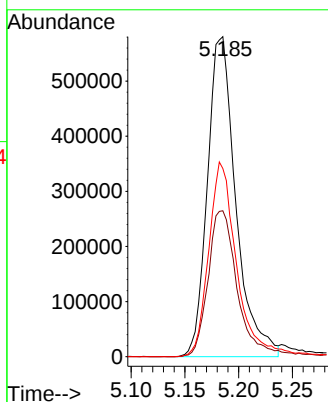
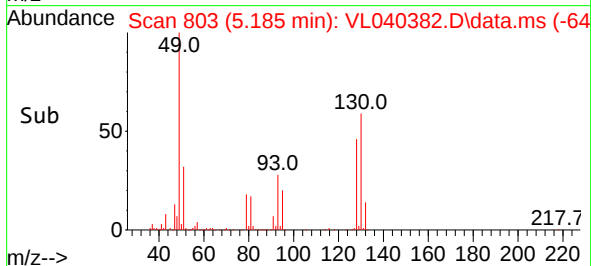
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion: 49 Resp: 106938
Ion Ratio Lower Upper
49 100
128 48.1 23.7 71.1
130 60.9 29.9 89.8

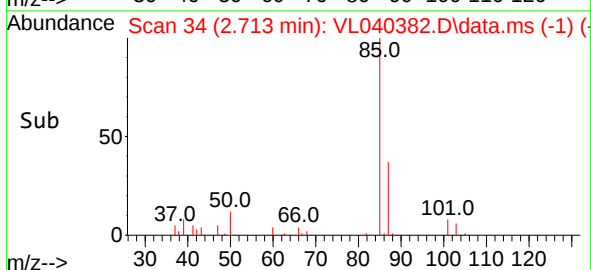
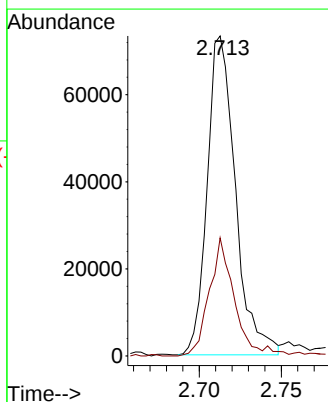
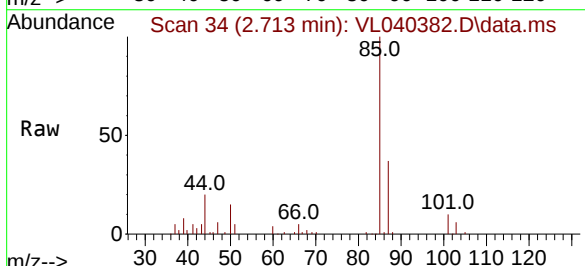
Manual Integrations
APPROVED

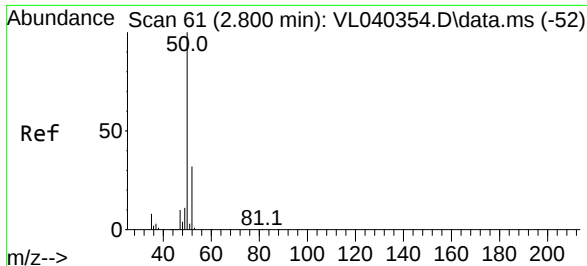
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.454 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

Tgt Ion: 85 Resp: 87614
Ion Ratio Lower Upper
85 100
87 37.0 26.6 40.0





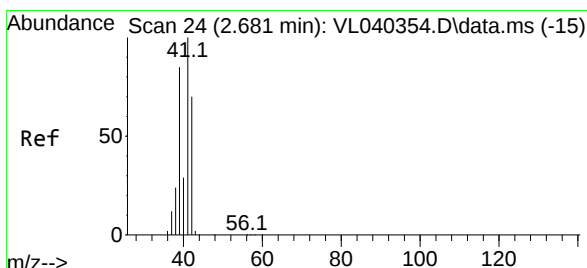
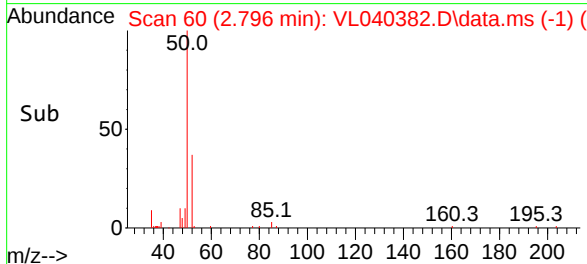
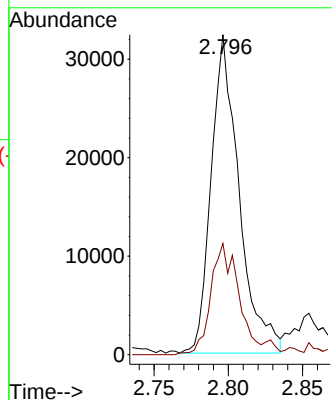
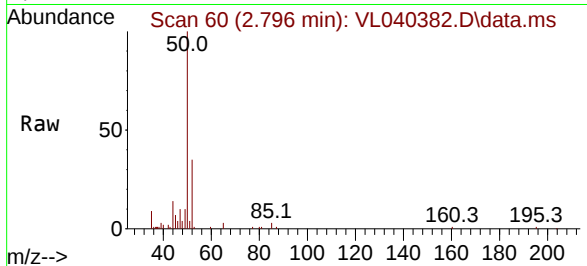
#4
Chloromethane
Concen: 0.479 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.004 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

Instrument :
MSVOA_L
ClientSampleId :
AP-2A

Tgt Ion: 50 Resp: 42308
Ion Ratio Lower Upper
50 100
52 34.3 25.3 37.9

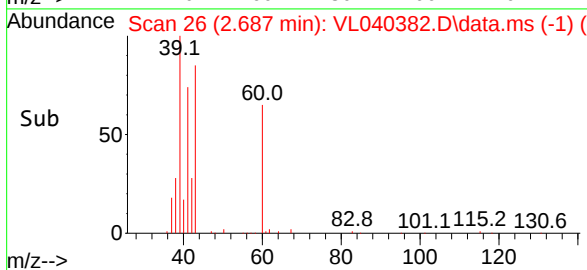
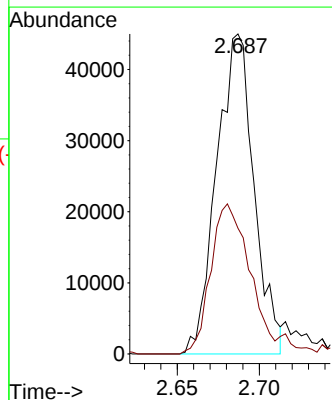
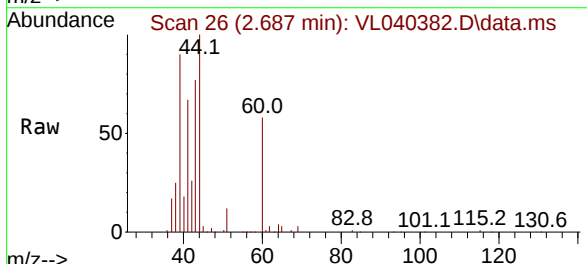
Manual Integrations
APPROVED

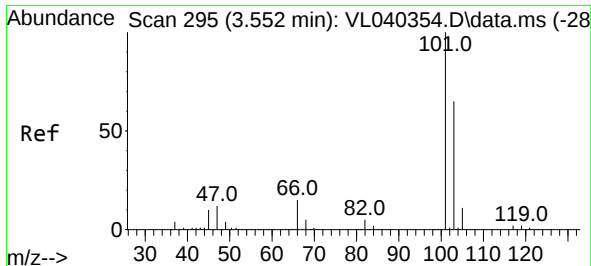
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#9
Propene
Concen: 1.290 ppbv
RT: 2.687 min Scan# 26
Delta R.T. 0.006 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

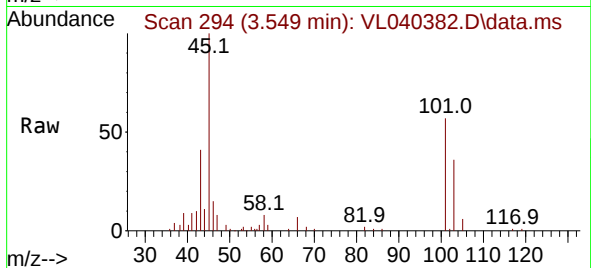
Tgt Ion: 41 Resp: 71229
Ion Ratio Lower Upper
41 100
42 52.6 56.5 84.7#





#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 3.549 min Scan# 295
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

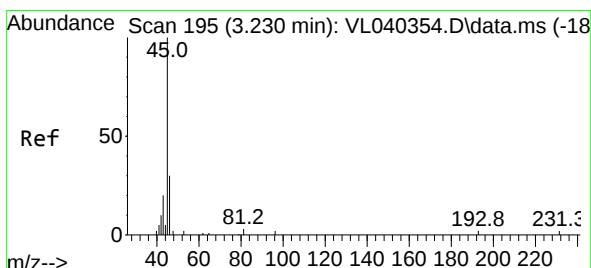
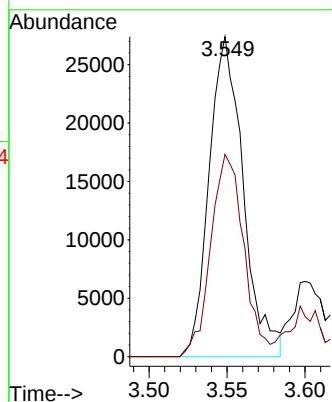
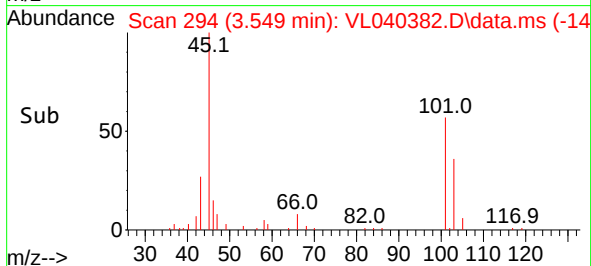
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion:101 Resp: 41714
Ion Ratio Lower Upper
101 100
103 63.2 52.2 78.4

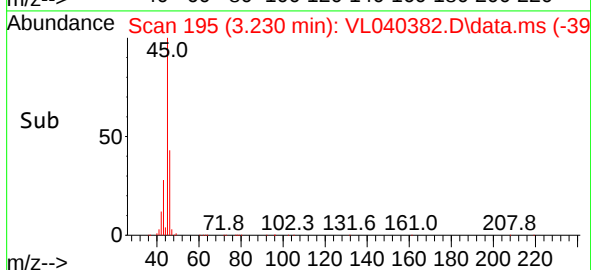
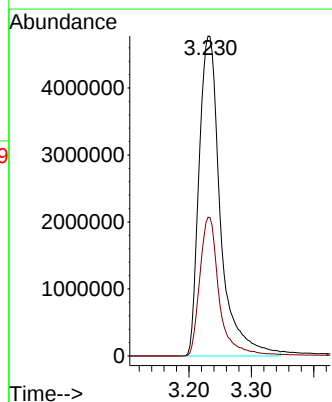
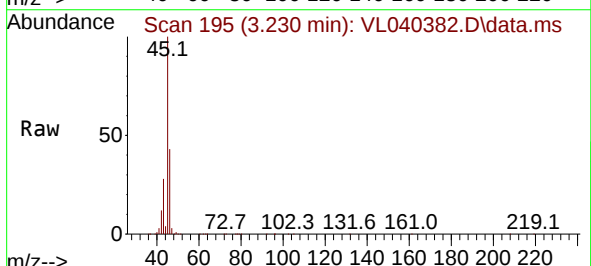
Manual Integrations
APPROVED

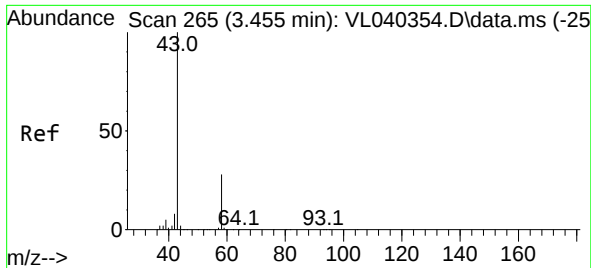
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#13
Ethanol
Concen: 2461.824 ppbv
RT: 3.230 min Scan# 195
Delta R.T. 0.000 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

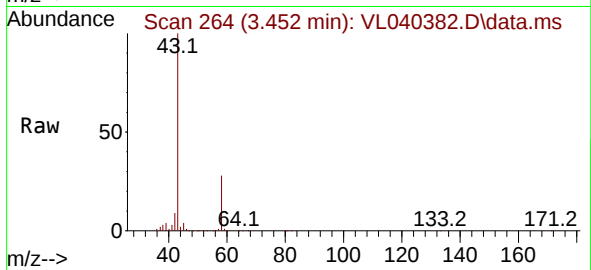
Tgt Ion: 45 Resp:11345605
Ion Ratio Lower Upper
45 100
46 40.1 15.3 61.3





#15
Acetone
Concen: 8.359 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

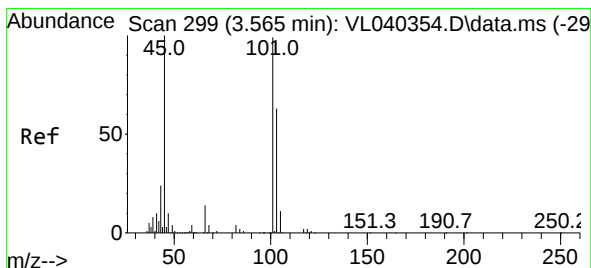
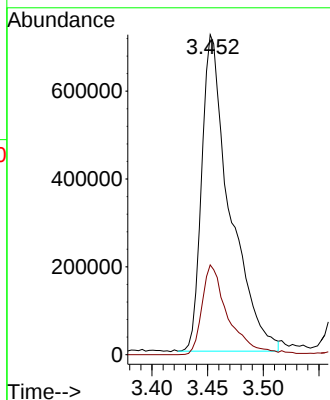
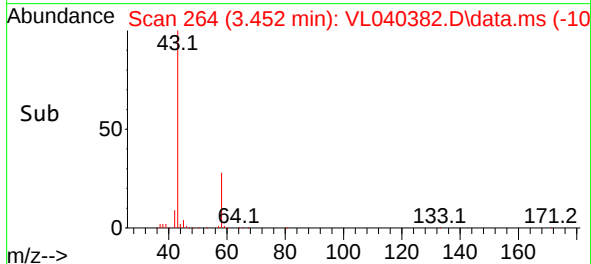
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion: 43 Resp: 126602
Ion Ratio Lower Upper
43 100
58 26.5 22.2 33.2

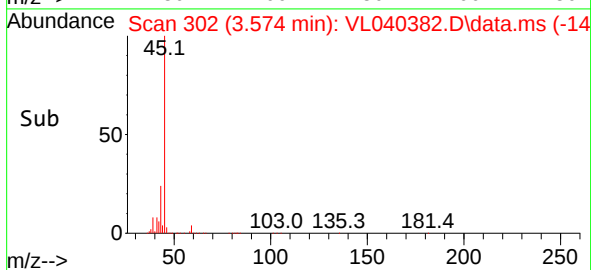
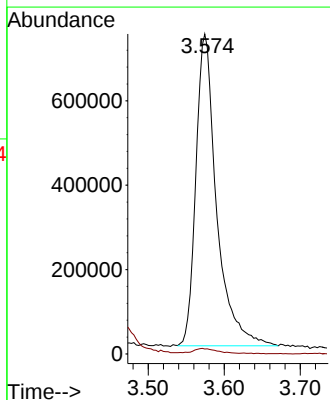
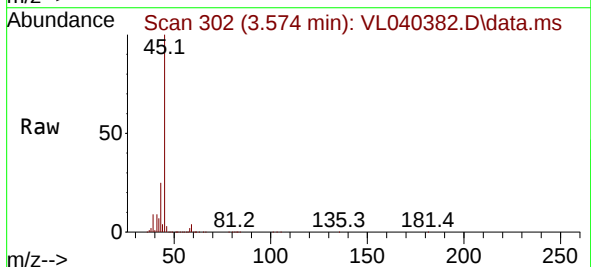
Manual Integrations
APPROVED

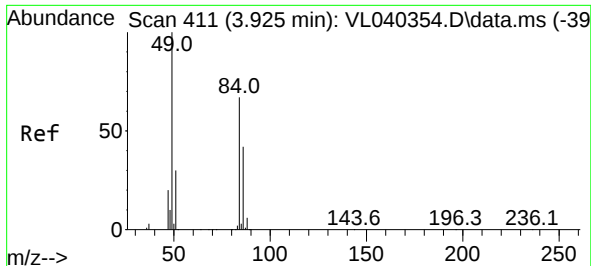
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#19
Isopropyl Alcohol
Concen: 20.223 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.009 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

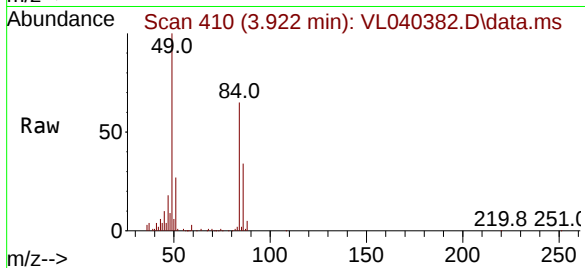
Tgt Ion: 45 Resp: 1397655
Ion Ratio Lower Upper
45 100
58 2.5 2.6 4.0#





#20
Methylene Chloride
Concen: 1.520 ppbv
RT: 3.922 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

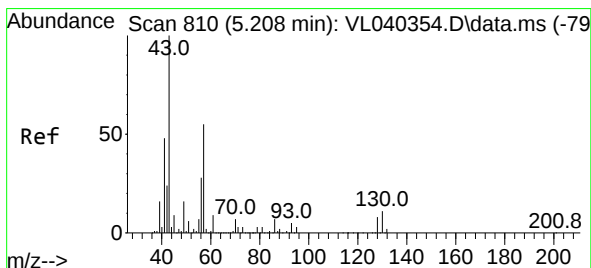
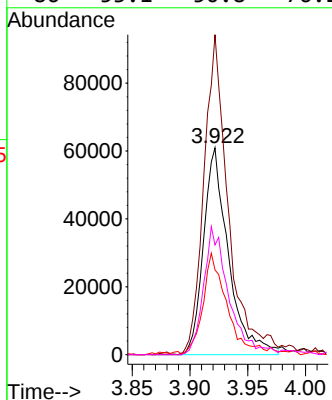
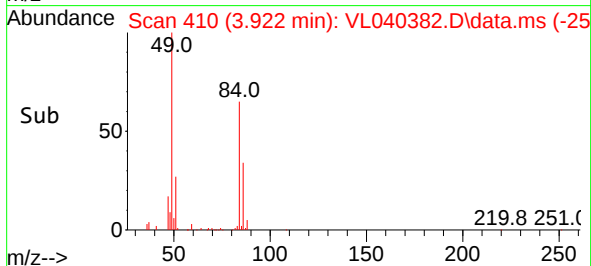
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



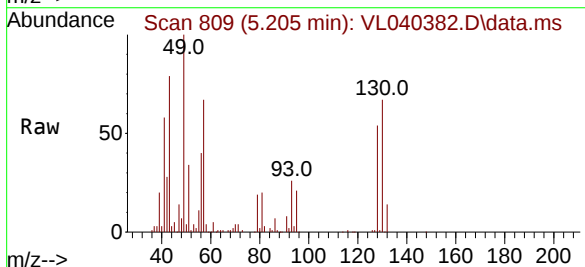
Tgt Ion: 84 Resp: 91894
Ion Ratio Lower Upper
84 100
49 154.6 120.1 180.1
51 39.5 36.3 54.5
86 53.1 50.8 76.2

Manual Integrations
APPROVED

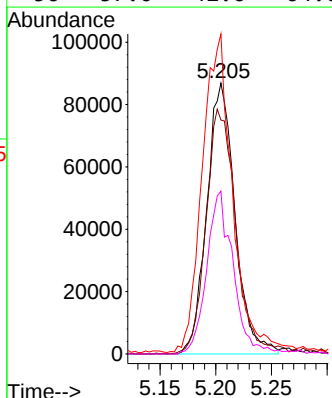
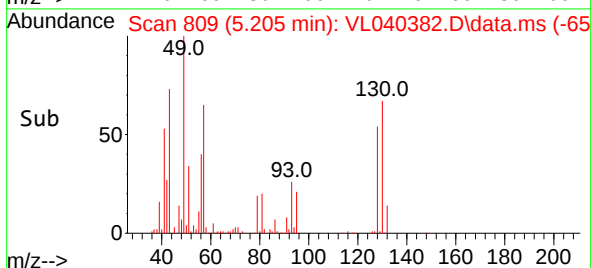
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

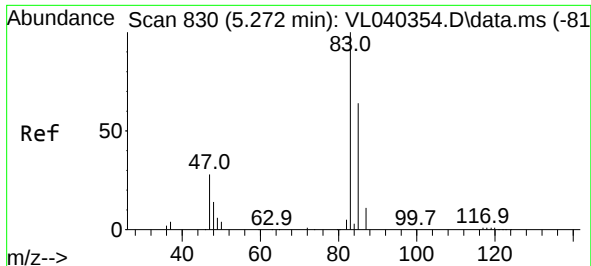


#26
Hexane
Concen: 1.427 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34



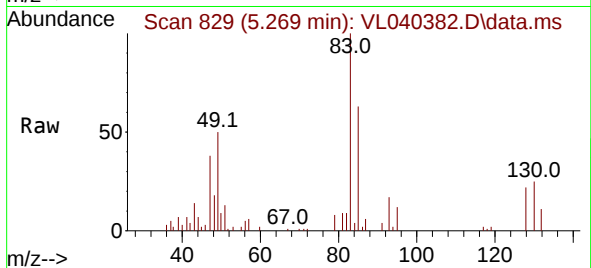
Tgt Ion: 57 Resp: 153317
Ion Ratio Lower Upper
57 100
41 95.8 74.8 112.2
43 127.9 192.7 289.1#
56 57.0 42.6 64.0





#29
Chloroform
Concen: 0.157 ppbv
RT: 5.269 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

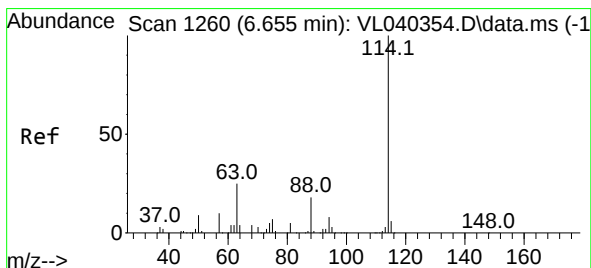
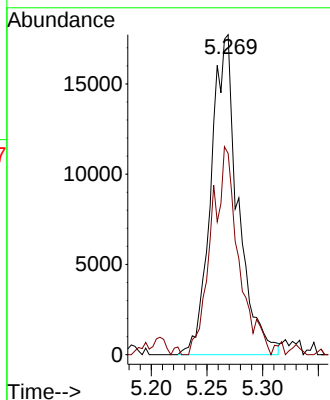
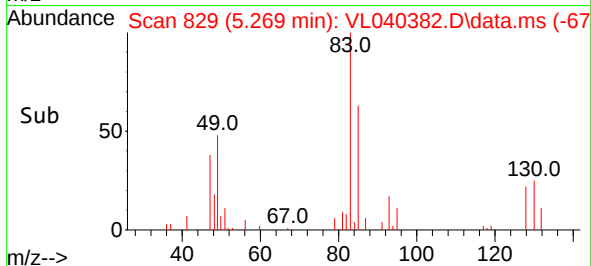
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion: 83 Resp: 3002
Ion Ratio Lower Upper
83 100
85 60.5 51.0 76.4

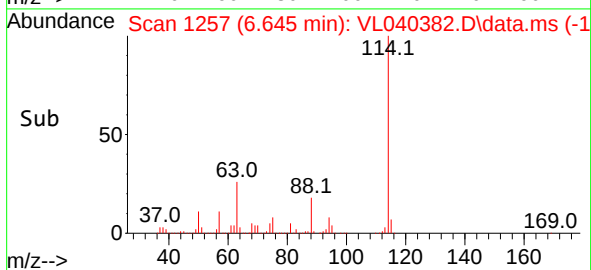
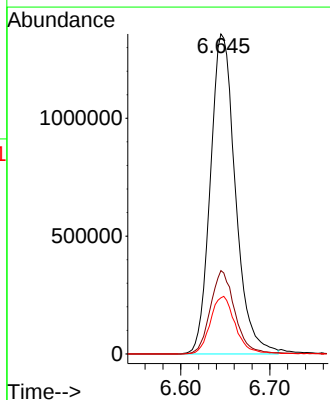
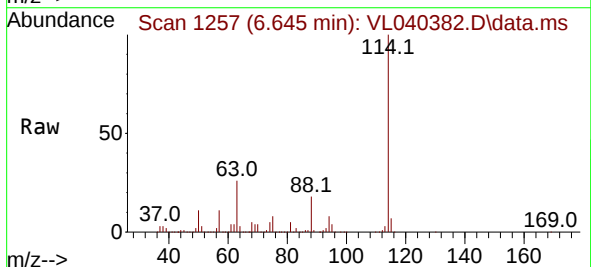
Manual Integrations
APPROVED

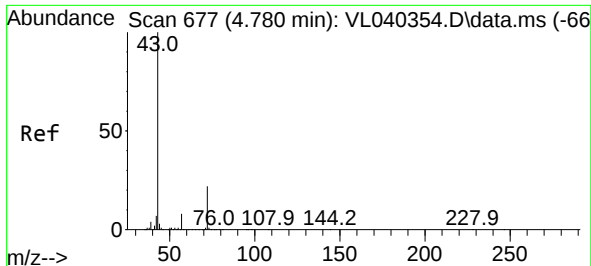
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

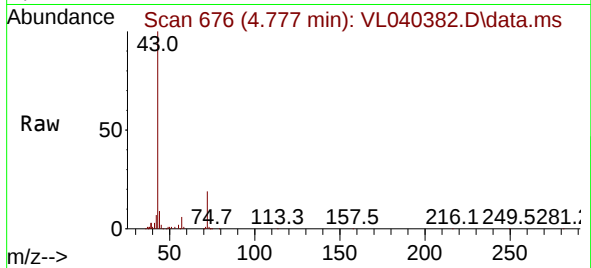
Tgt Ion:114 Resp: 2650004
Ion Ratio Lower Upper
114 100
63 25.7 21.4 32.0
88 18.1 14.6 22.0





#34
2-Butanone
Concen: 0.726 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

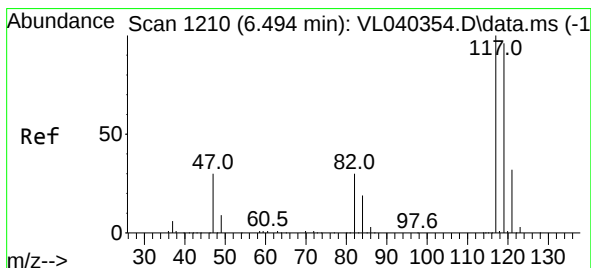
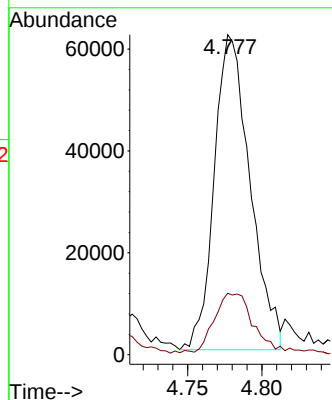
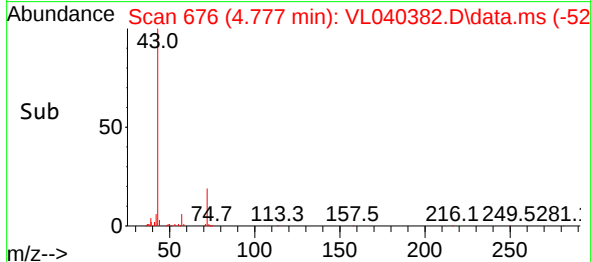
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion: 43 Resp: 103719
Ion Ratio Lower Upper
43 100
72 23.3 18.4 27.6

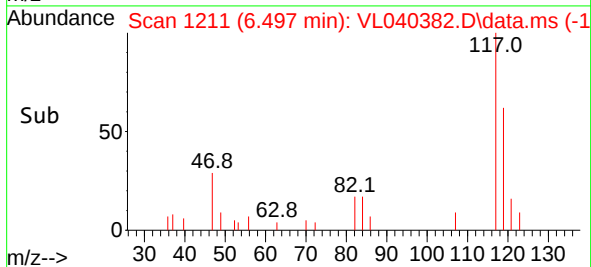
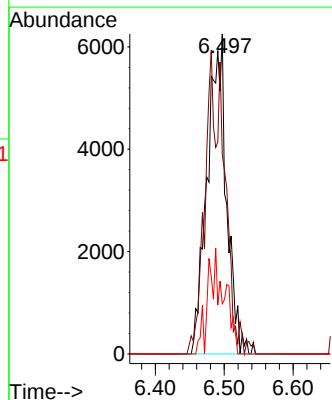
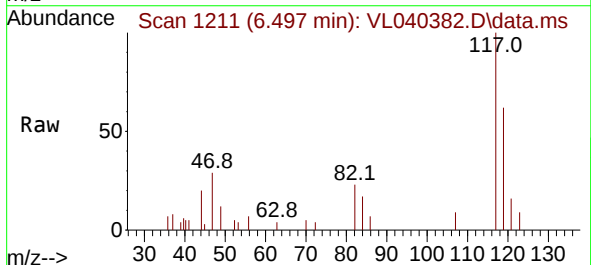
Manual Integrations
APPROVED

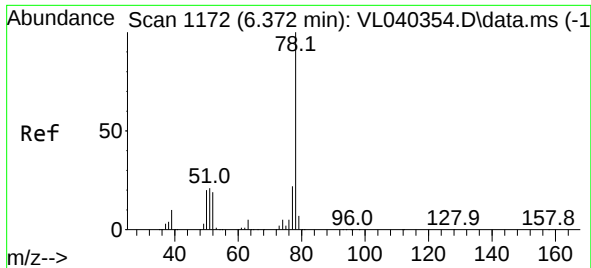
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. 0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

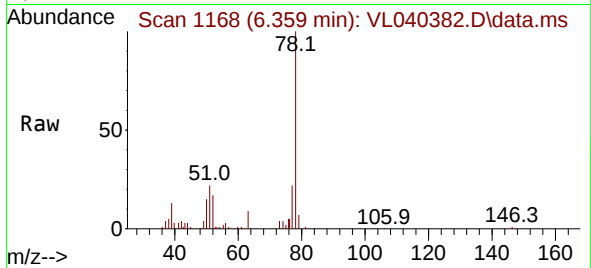
Tgt Ion:117 Resp: 12254
Ion Ratio Lower Upper
117 100
119 62.2 76.6 114.8#
121 15.8 25.3 37.9#





#36
Benzene
Concen: 0.348 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.013 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

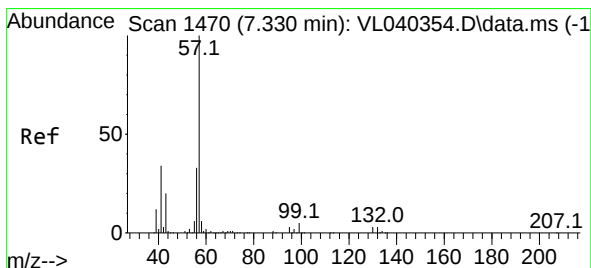
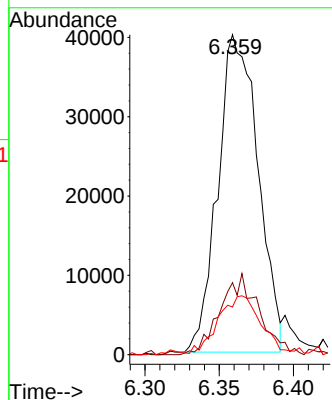
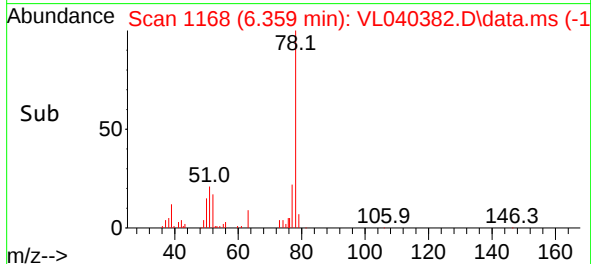
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



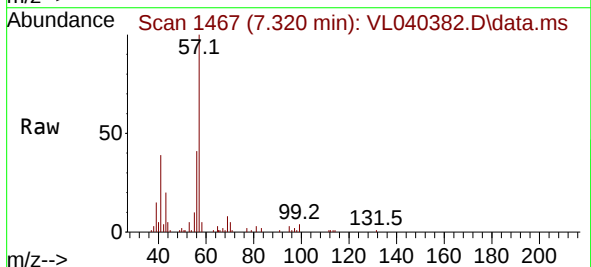
Tgt Ion: 78 Resp: 75320
Ion Ratio Lower Upper
78 100
77 22.7 17.8 26.8
50 14.3 15.6 23.4

Manual Integrations
APPROVED

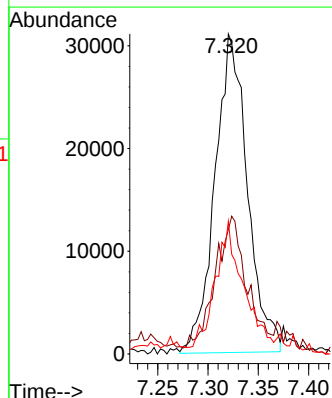
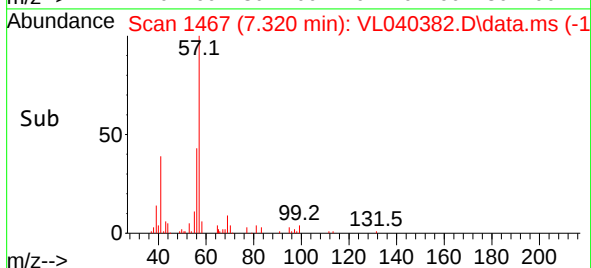
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

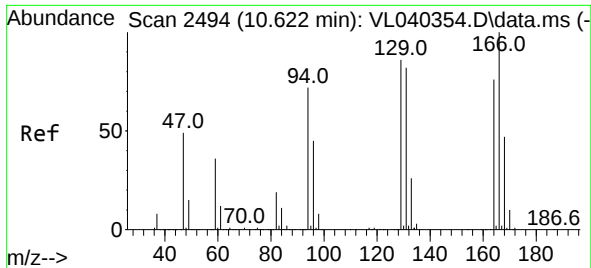


#44
2,2,4-Trimethylpentane
Concen: 0.193 ppbv
RT: 7.320 min Scan# 1467
Delta R.T. -0.010 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34



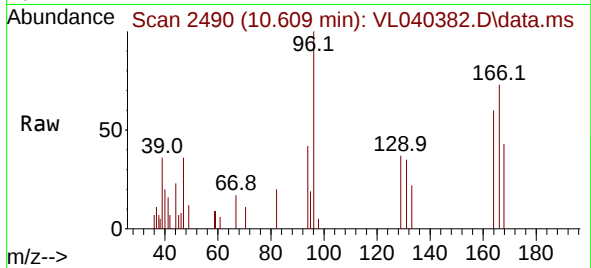
Tgt Ion: 57 Resp: 69694
Ion Ratio Lower Upper
57 100
41 49.6 26.9 40.3#
56 41.1 25.1 37.7#





#52
Tetrachloroethene
Concen: 0.056 ppbv m
RT: 10.609 min Scan# 2494
Delta R.T. -0.013 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

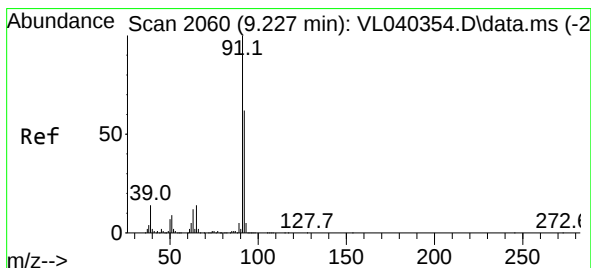
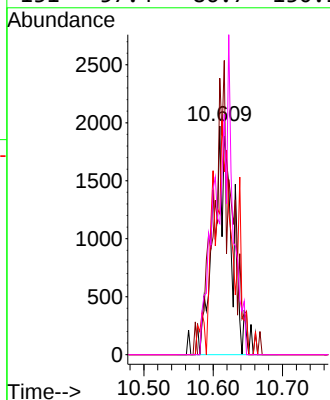
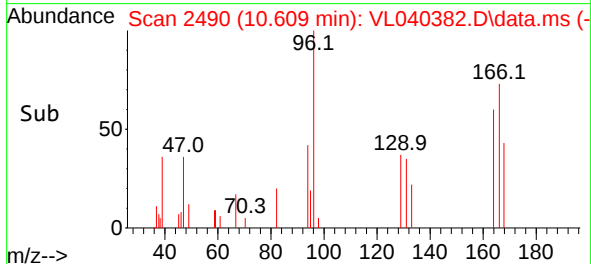
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion:164 Resp: 3790
Ion Ratio Lower Upper
164 100
166 120.9 105.2 157.8
129 61.6 90.3 135.5
131 57.4 86.7 130.1#

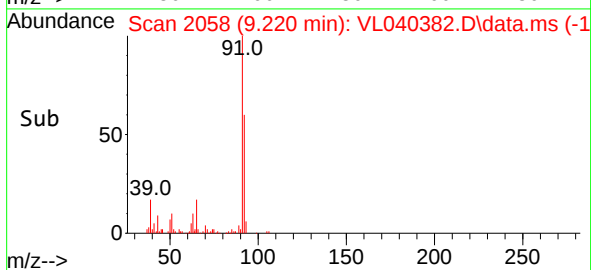
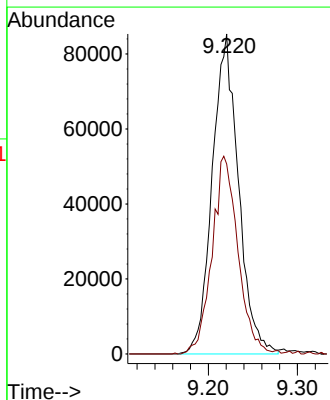
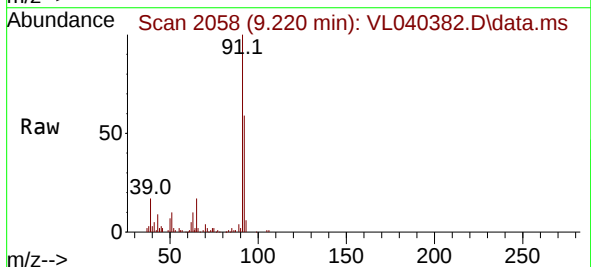
Manual Integrations
APPROVED

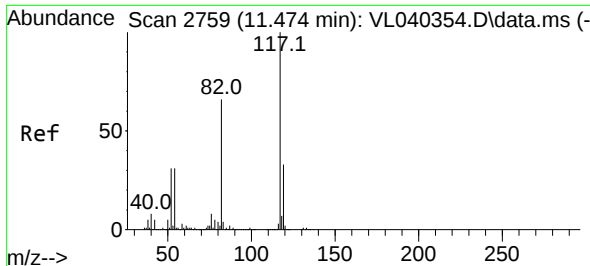
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#53
Toluene
Concen: 0.759 ppbv
RT: 9.220 min Scan# 2058
Delta R.T. -0.007 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

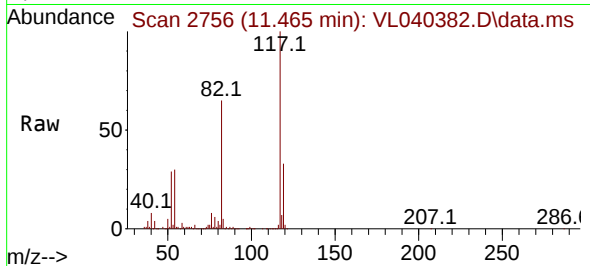
Tgt Ion: 91 Resp: 173984
Ion Ratio Lower Upper
91 100
92 61.3 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. -0.009 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

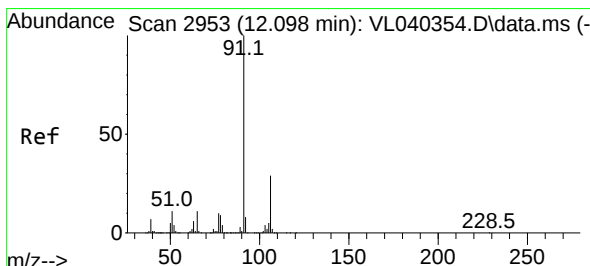
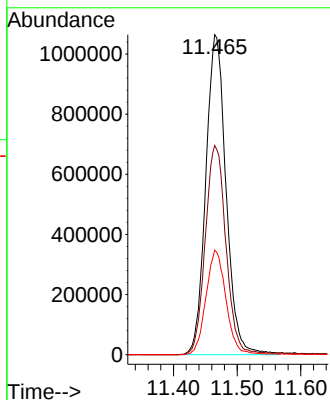
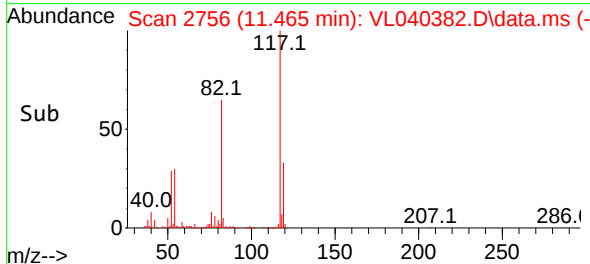
Instrument :
MSVOA_L
ClientSampleId :
AP-2A



Tgt Ion:117 Resp: 235614
Ion Ratio Lower Upper
117 100
82 67.7 52.5 78.7
119 32.5 24.3 36.5

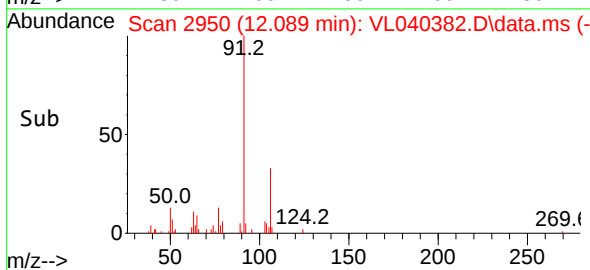
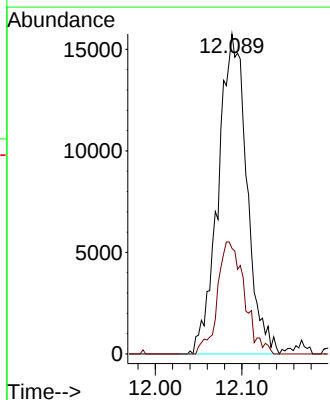
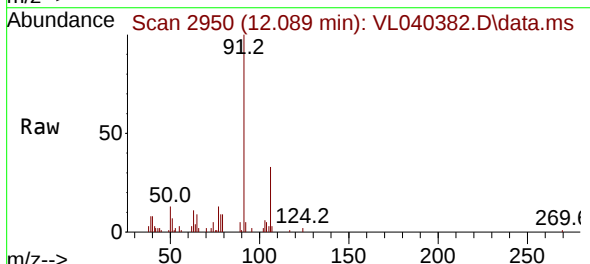
Manual Integrations
APPROVED

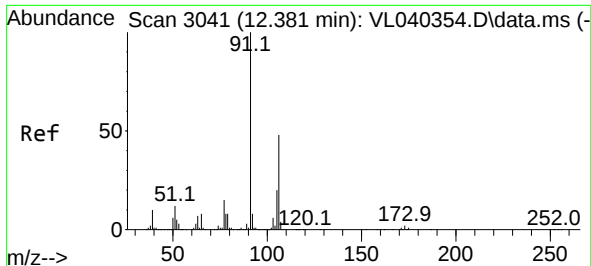
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#58
Ethyl Benzene
Concen: 0.125 ppbv m
RT: 12.089 min Scan# 2950
Delta R.T. -0.009 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

Tgt Ion: 91 Resp: 36240
Ion Ratio Lower Upper
91 100
106 33.0 23.5 35.3





#59

m/p-Xylene

Concen: 0.438 ppbv m

RT: 12.346 min Scan# 3041

Delta R.T. -0.035 min

Lab File: VL040382.D

Acq: 19 Apr 2023 16:34

Instrument :

MSVOA_L

ClientSampleId :

AP-2A

Tgt Ion: 91 Resp: 116780

Ion Ratio Lower Upper

91 100

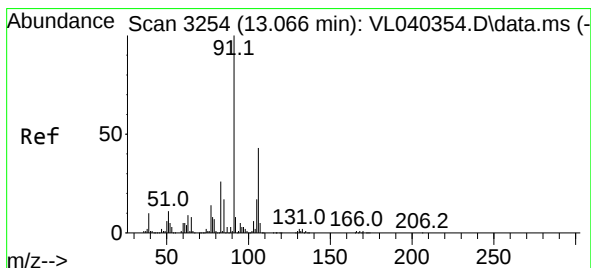
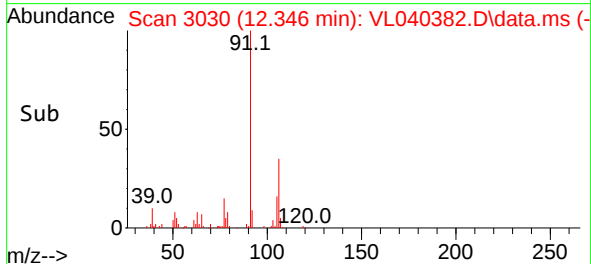
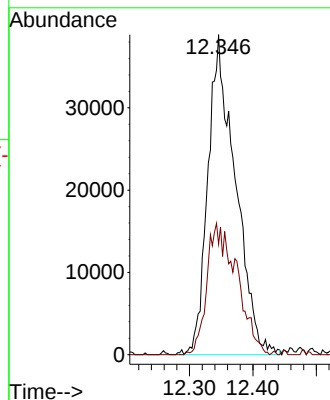
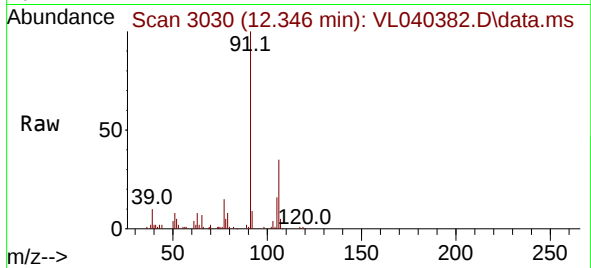
106 0.0 34.7 52.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#60

o-Xylene

Concen: 0.190 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. -0.006 min

Lab File: VL040382.D

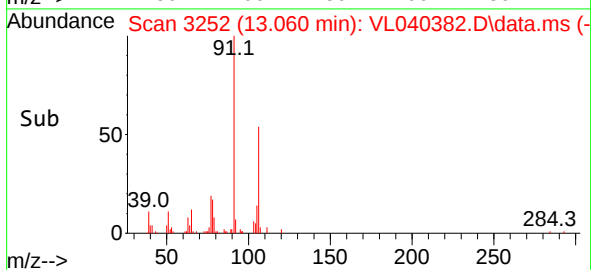
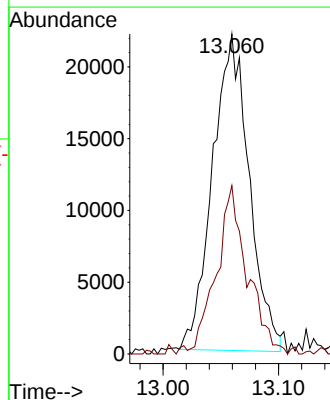
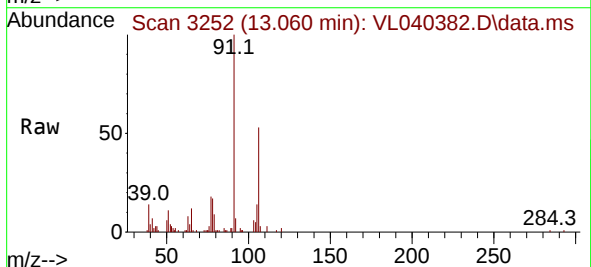
Acq: 19 Apr 2023 16:34

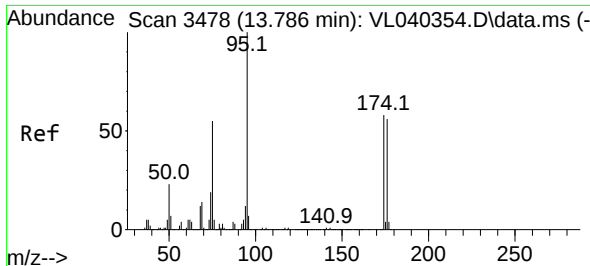
Tgt Ion: 91 Resp: 48677

Ion Ratio Lower Upper

91 100

106 46.8 21.9 65.8





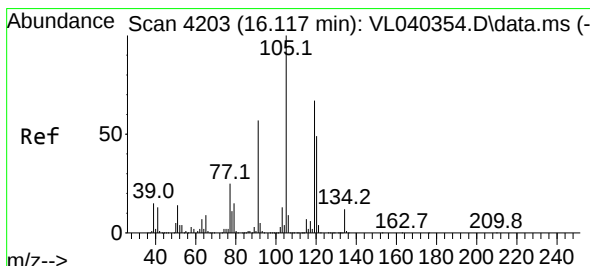
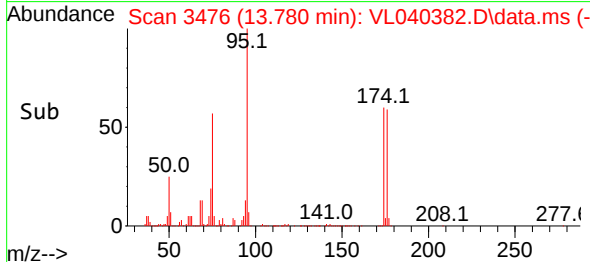
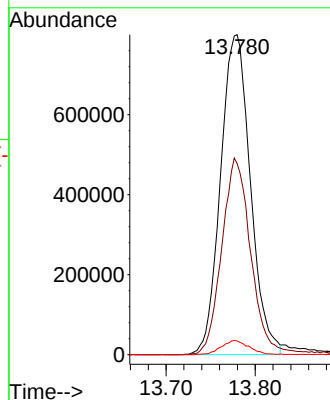
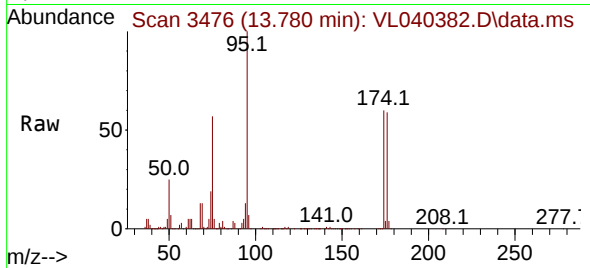
#68
1-Bromo-4-Fluorobenzene
Concen: 9.565 ppbv
RT: 13.780 min Scan# 3478
Delta R.T. -0.006 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

Instrument : MSVOA_L
ClientSampleId : AP-2A

Tgt Ion: 95 Resp: 186358
Ion Ratio Lower Upper
95 100
174 60.9 47.2 70.8
175 4.2 3.5 5.3

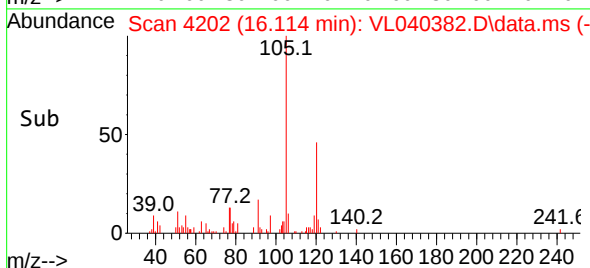
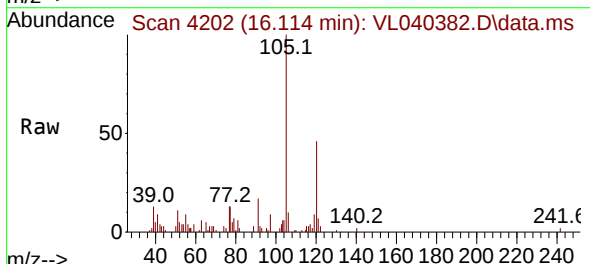
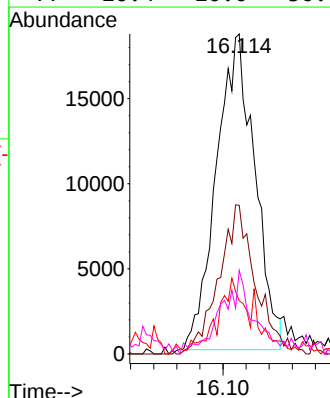
Manual Integrations
APPROVED

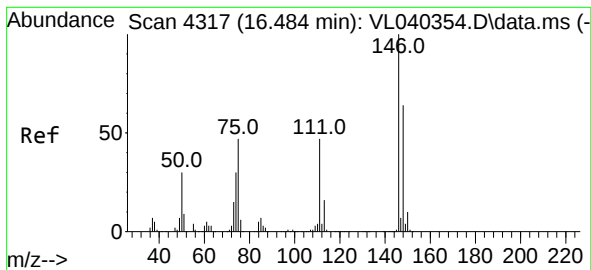
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. -0.003 min
Lab File: VL040382.D
Acq: 19 Apr 2023 16:34

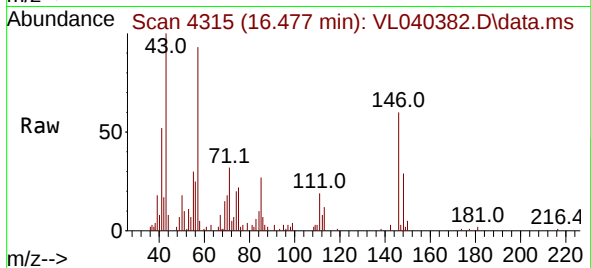
Tgt Ion:105 Resp: 42716
Ion Ratio Lower Upper
105 100
120 47.1 38.9 58.3
91 15.1 46.0 69.0#
77 26.4 20.0 30.0





#76
 1,4-Dichlorobenzene
 Concen: 0.145 ppbv m
 RT: 16.477 min Scan# 41
 Delta R.T. -0.007 min
 Lab File: VL040382.D
 Acq: 19 Apr 2023 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2A



Tgt Ion:	146	Resp:	2337
Ion Ratio	Lower	Upper	
146	100		
111	55.6	23.8	71.4
148	0.0	32.4	97.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023

