

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032222\
 Data File : VL038694.D
 Acq On : 22 Mar 2022 21:44
 Operator : SY/AP
 Sample : N1961-14
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P77

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

03/24/2022
 Supervised By : Mahesh
 Dadoda

Quant Time: Mar 23 04:17:00 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 23 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.652	49	815500	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.160	114	2221490	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.066	117	2020720	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.391 95 1541668 9.951 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.044	85	21875	0.200	ppbv	90
3) Chlorodifluoromethane	2.983	51	90854	1.055	ppbv #	91
4) Chloromethane	3.137	50	26340	0.557	ppbv	89
7) Chloroethane	3.549	64	8400	0.528	ppbv	96
9) Propene	3.018	41	135936m	3.269	ppbv	
10) Heptane	8.102	43	9802	0.099	ppbv	97
11) Trichlorofluoromethane	3.944	101	21743	0.225	ppbv	91
13) Ethanol	3.594	45	330903	72.140	ppbv	99
15) Acetone	3.842	43	332468	4.725	ppbv #	52
19) Isopropyl Alcohol	3.957	45	204087m	5.231	ppbv	
20) Methylene Chloride	4.330	84	1240353	41.849	ppbv	96
26) Hexane	5.674	57	1612750	20.337	ppbv #	59
27) Carbon Disulfide	4.536	76	42107	0.541	ppbv #	83
30) Cyclohexane	7.112	84	1203960	17.460	ppbv	98
34) 2-Butanone	5.231	43	176462	2.007	ppbv	95
35) Carbon Tetrachloride	6.999	117	8154m	0.063	ppbv	
36) Benzene	6.874	78	62114	0.362	ppbv	96
37) 1,2-Dichloroethane	6.292	62	9736m	0.112	ppbv	
44) 2,2,4-Trimethylpentane	7.851	57	56820	0.197	ppbv #	68
53) Toluene	9.803	91	20038673	108.773	ppbv #	83
58) Ethyl Benzene	12.690	91	98553	0.417	ppbv	99
59) m/p-Xylene	12.944	91	137972m	0.668	ppbv	
60) o-Xylene	13.668	91	52625	0.268	ppbv	96
61) Styrene	13.510	104	34716m	0.326	ppbv	
69) p-Isopropyltoluene	17.629	119	73655	0.238	ppbv #	93
74) 1,2,4-Trimethylbenzene	16.732	105	37061m	0.161	ppbv	

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

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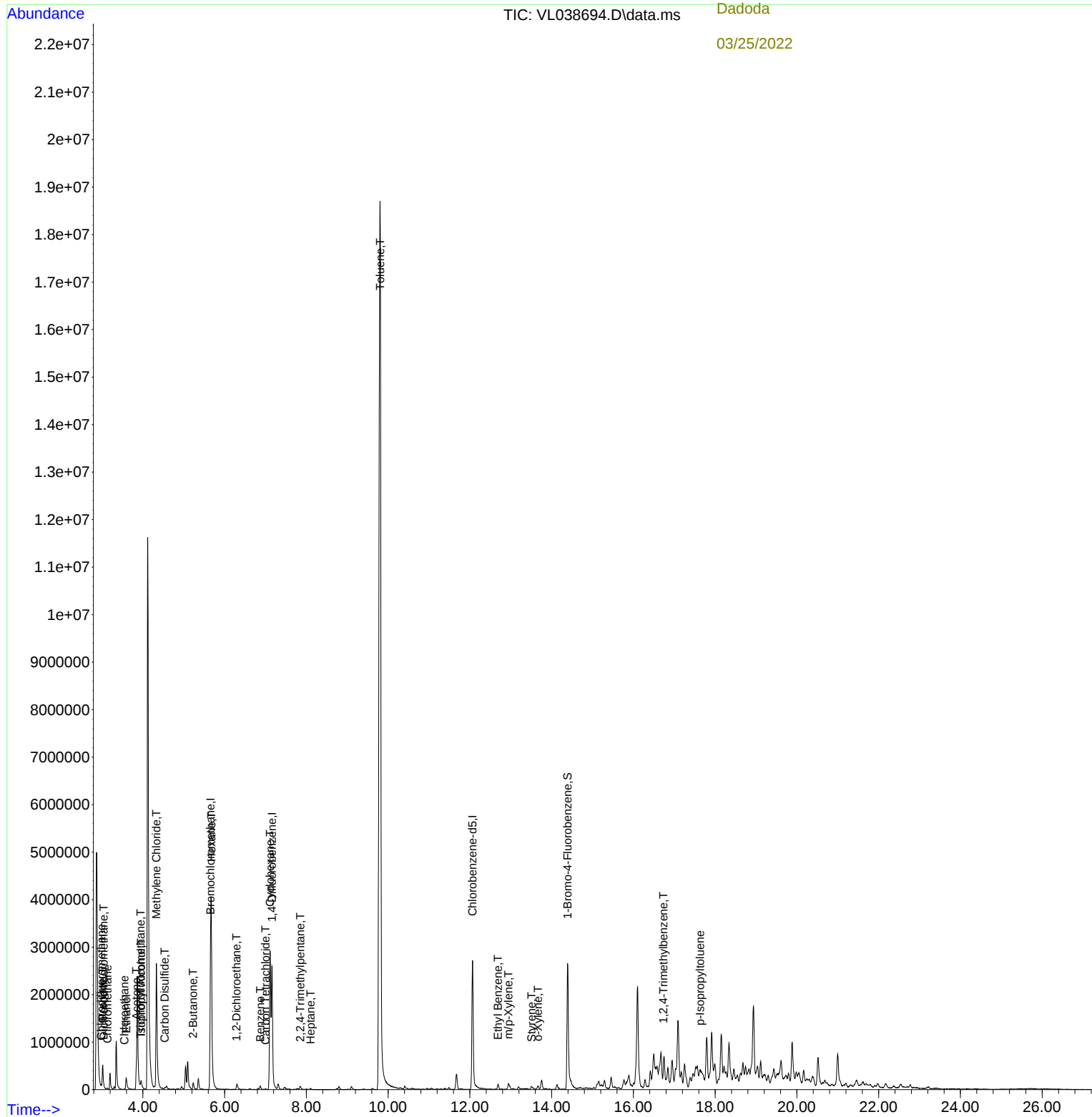
Manual Integrations
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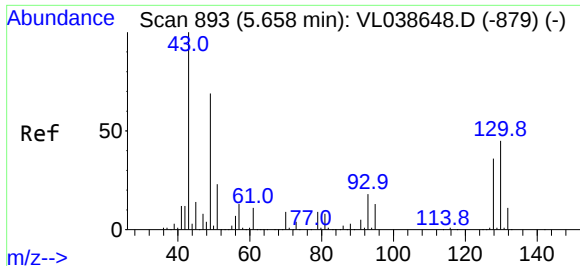
Reviewed By :Semsettin
Yesilyurt

03/24/2022
Supervised By :Mahesh
Dadoda

03/25/2022

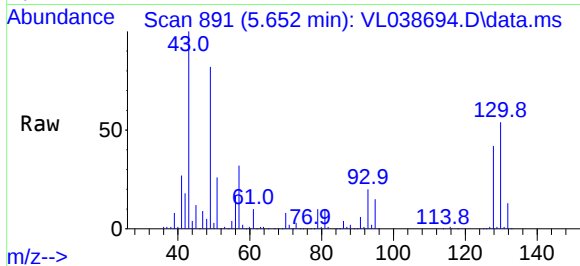
Quant Time: Mar 23 04:17:00 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.652 min Scan# 893
Delta R.T. -0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



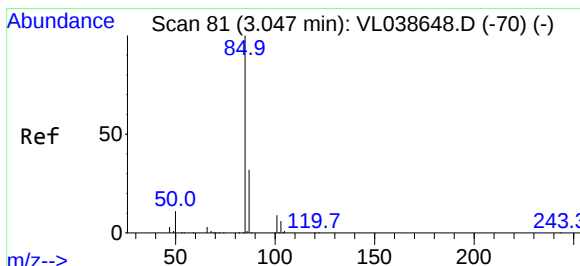
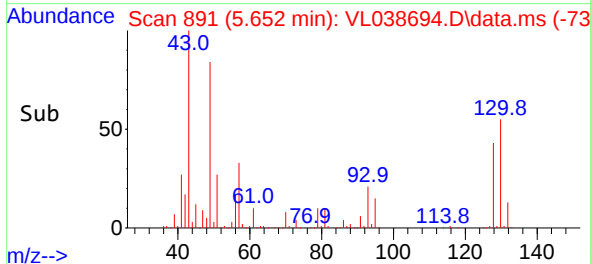
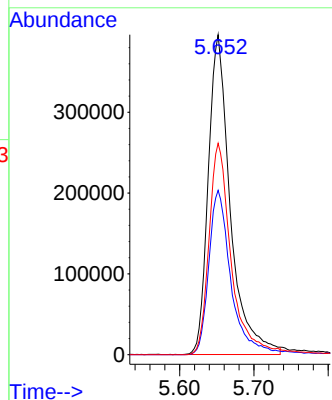
Tgt Ion: 49 Resp: 815500
Ion Ratio Lower Upper
49 100
128 52.9 26.2 78.6
130 67.7 33.7 101.1

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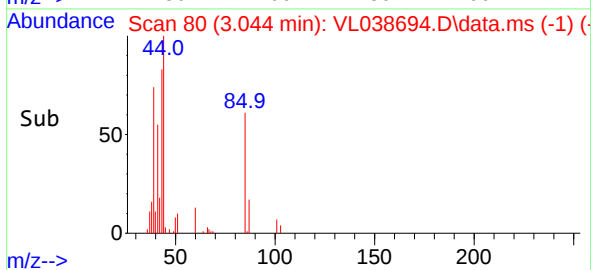
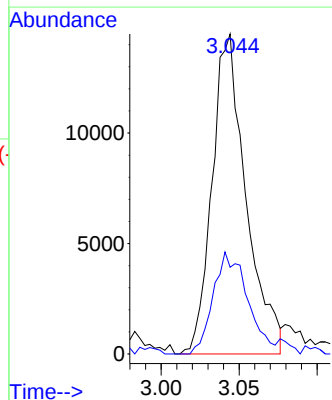
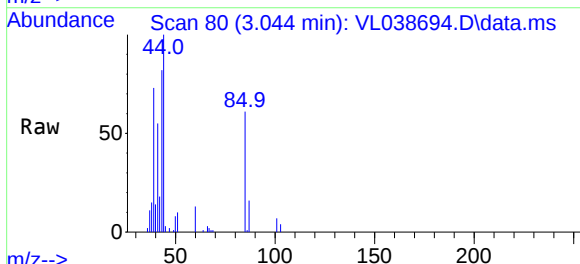
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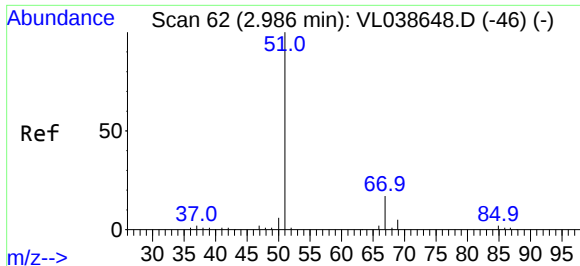
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#2
Dichlorodifluoromethane
Concen: 0.200 ppbv
RT: 3.044 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

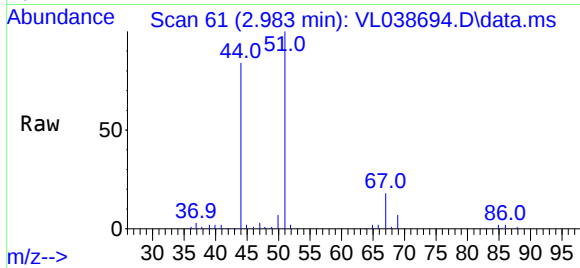
Tgt Ion: 85 Resp: 21875
Ion Ratio Lower Upper
85 100
87 27.1 26.0 39.0





#3
Chlorodifluoromethane
Concen: 1.055 ppbv
RT: 2.983 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
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ClientSampleId :
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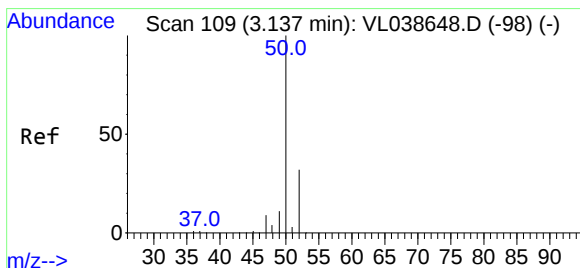
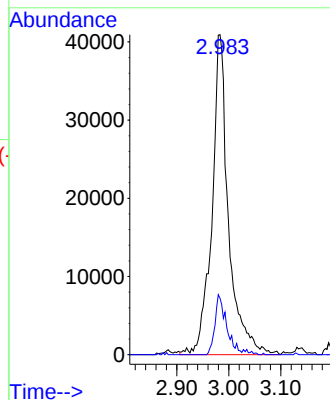
Tgt Ion: 51 Resp: 90854
Ion Ratio Lower Upper
51 100
67 13.8 14.1 21.1

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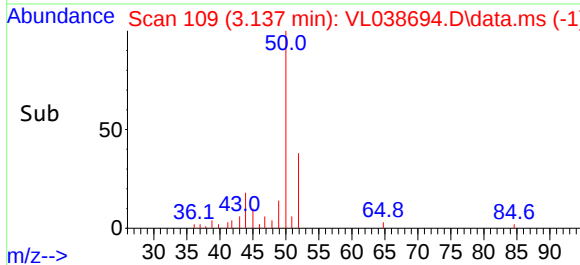
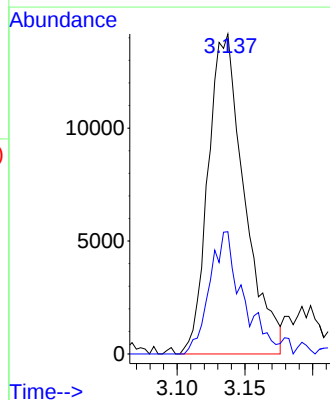
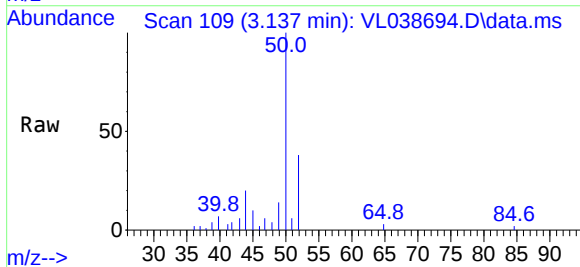
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Supervised By :Mahesh
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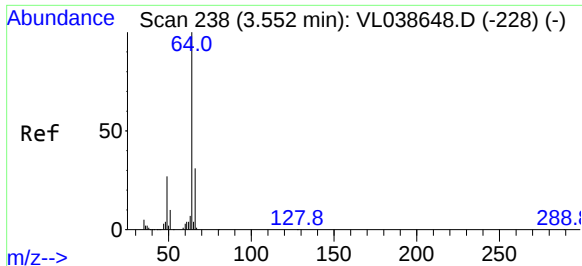
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#4
Chloromethane
Concen: 0.557 ppbv
RT: 3.137 min Scan# 109
Delta R.T. 0.000 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

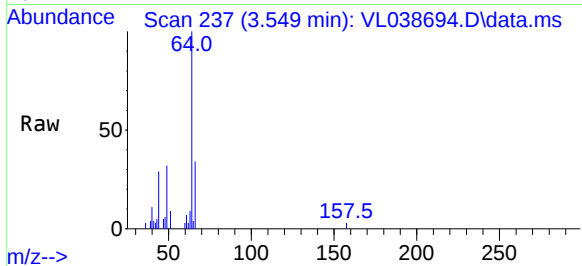
Tgt Ion: 50 Resp: 26340
Ion Ratio Lower Upper
50 100
52 38.2 25.5 38.3





#7
Chloroethane
Concen: 0.528 ppbv
RT: 3.549 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



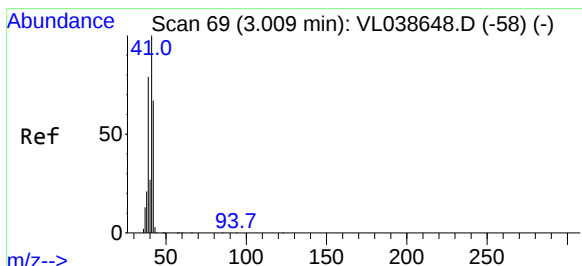
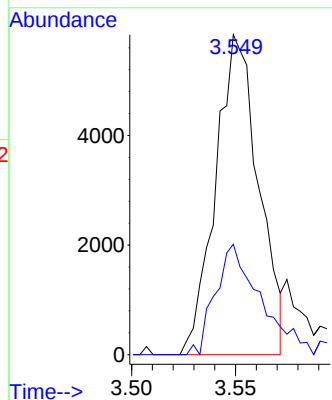
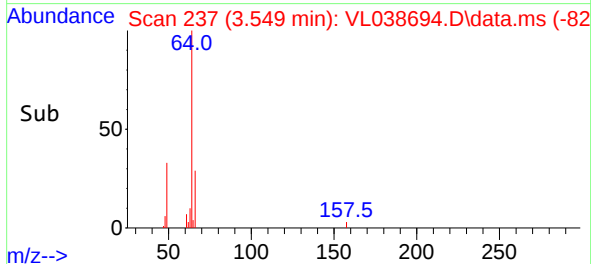
Tgt Ion: 64 Resp: 8400
Ion Ratio Lower Upper
64 100
66 33.2 25.0 37.6

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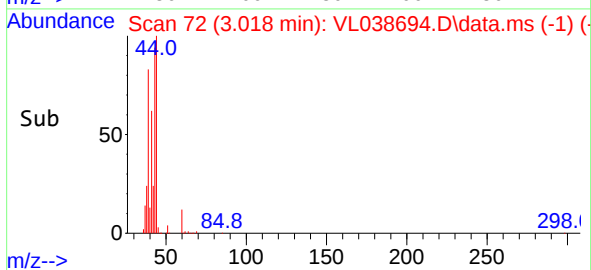
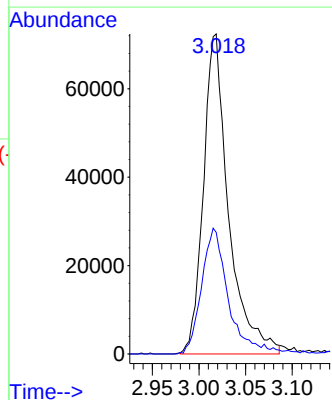
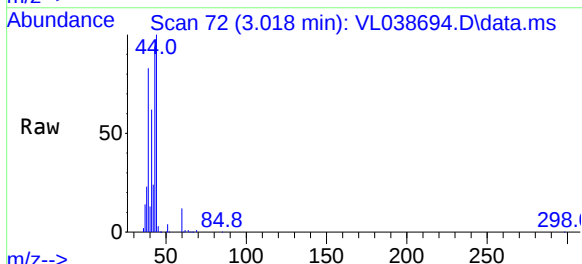
03/24/2022
Supervised By :Mahesh
Dadoda

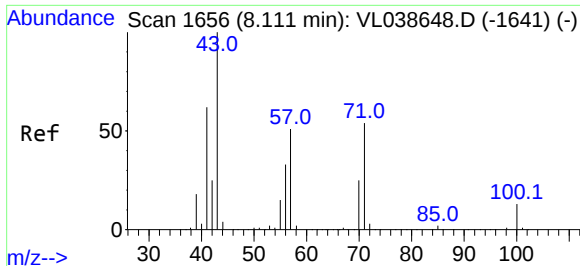
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#9
Propene
Concen: 3.269 ppbv m
RT: 3.018 min Scan# 72
Delta R.T. 0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Tgt Ion: 41 Resp: 135936
Ion Ratio Lower Upper
41 100
42 59.6 56.2 84.4





#10

Heptane

Concen: 0.099 ppbv

RT: 8.102 min Scan# 1

Delta R.T. -0.010 min

Lab File: VL038694.D

Acq: 22 Mar 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

C0P77

Tgt Ion: 43 Resp: 980

Ion Ratio Lower Upper

43 100

57 53.9 41.4 62.2

Manual Integrations

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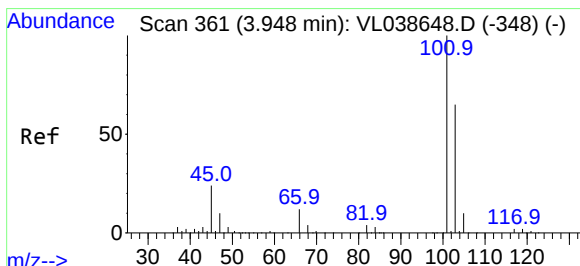
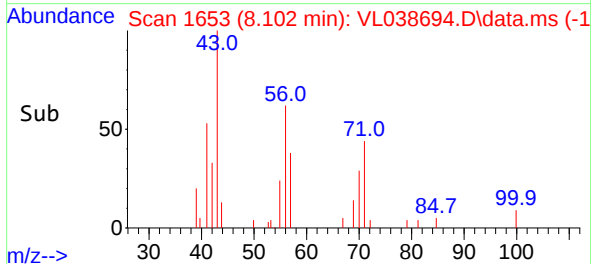
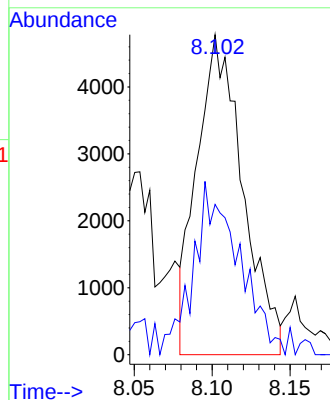
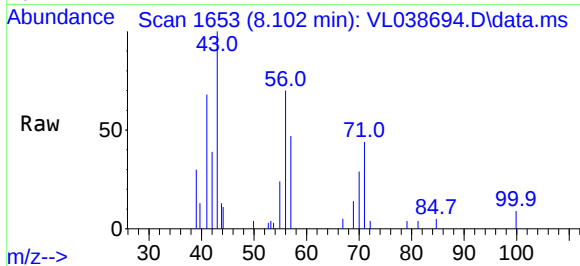
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#11

Trichlorofluoromethane

Concen: 0.225 ppbv

RT: 3.944 min Scan# 360

Delta R.T. -0.003 min

Lab File: VL038694.D

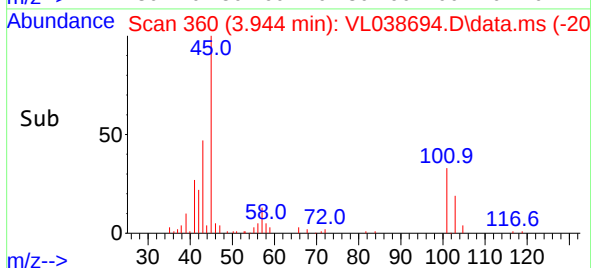
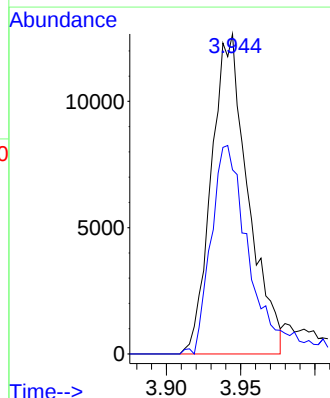
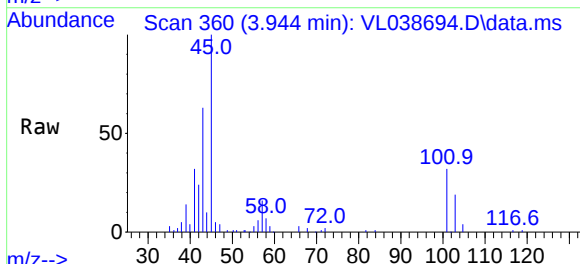
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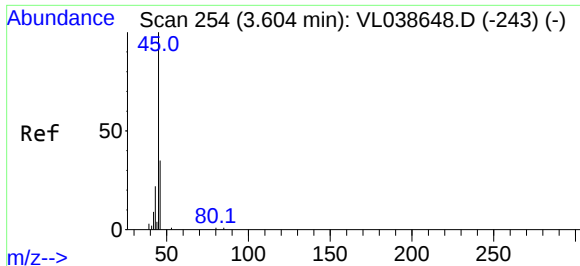
Tgt Ion:101 Resp: 21743

Ion Ratio Lower Upper

101 100

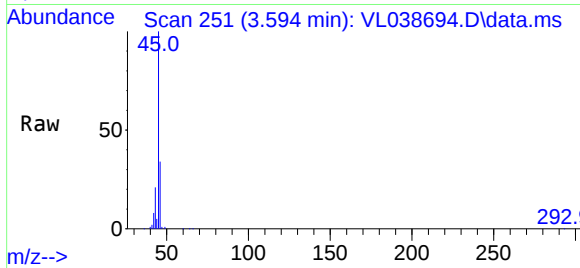
103 57.6 51.9 77.9





#13
Ethanol
Concen: 72.140 ppbv
RT: 3.594 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



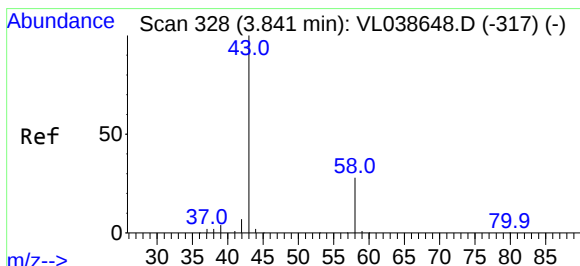
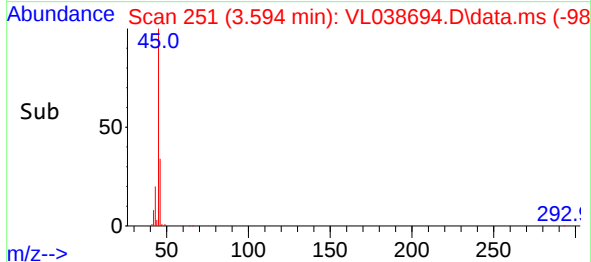
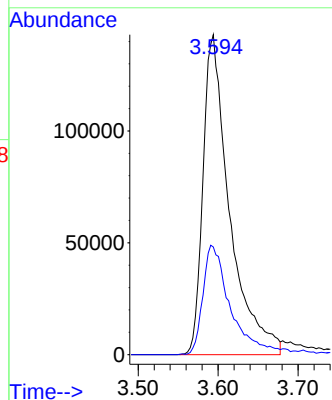
Tgt Ion: 45 Resp: 33090
Ion Ratio Lower Upper
45 100
46 37.0 15.1 60.5

Manual Integrations
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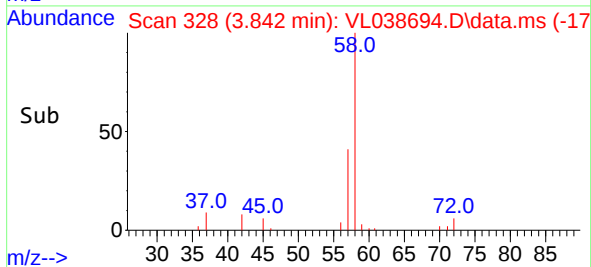
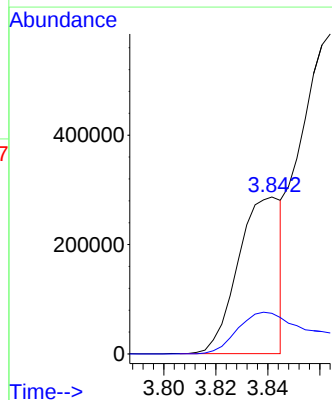
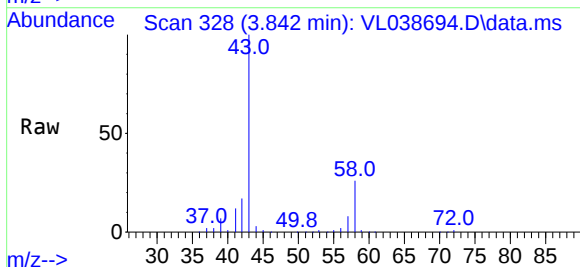
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Dadoda

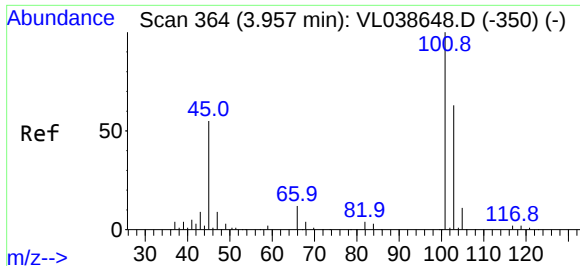
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#15
Acetone
Concen: 4.725 ppbv
RT: 3.842 min Scan# 328
Delta R.T. 0.000 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

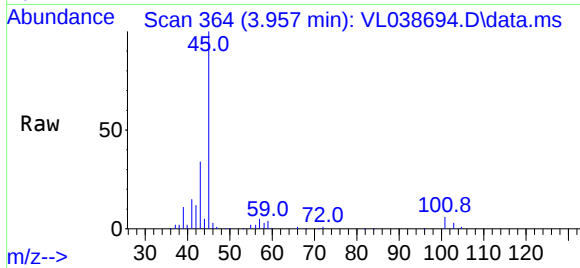
Tgt Ion: 43 Resp: 332468
Ion Ratio Lower Upper
43 100
58 54.9 23.3 34.9





#19
Isopropyl Alcohol
Concen: 5.231 ppbv m
RT: 3.957 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



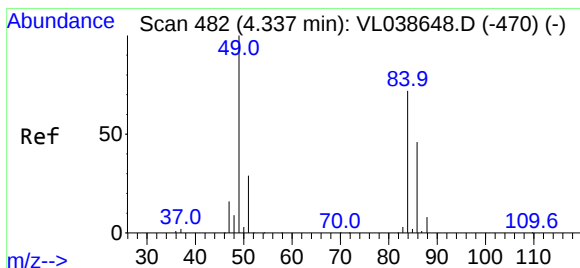
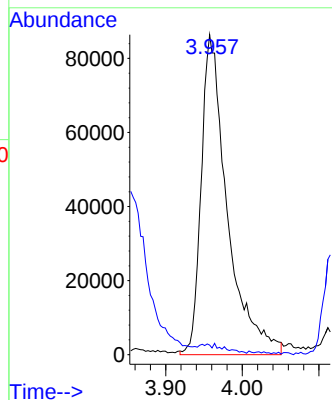
Tgt Ion: 45 Resp: 204085
Ion Ratio Lower Upper
45 100
58 4.4 2.3 3.5

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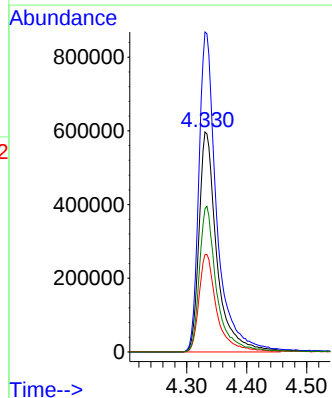
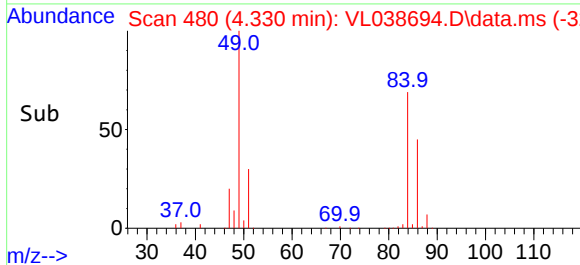
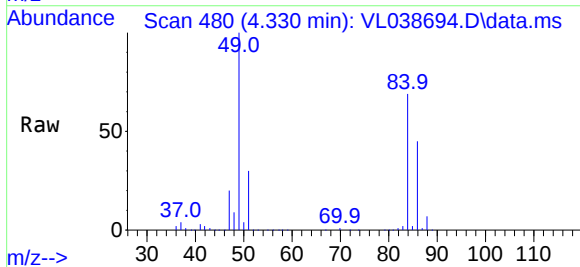
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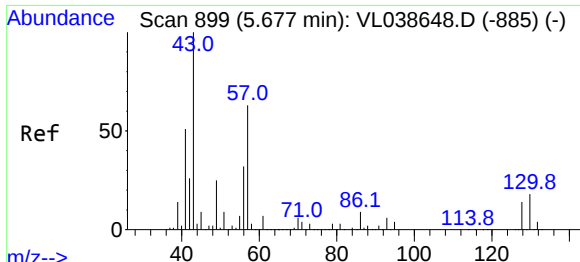
03/25/2022



#20
Methylene Chloride
Concen: 41.849 ppbv
RT: 4.330 min Scan# 480
Delta R.T. -0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

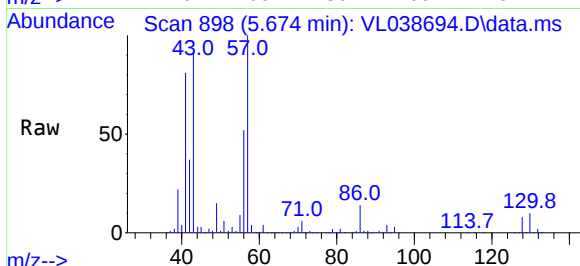
Tgt Ion: 84 Resp: 1240353
Ion Ratio Lower Upper
84 100
49 145.4 111.2 166.8
51 44.3 32.8 49.2
86 65.0 51.4 77.0





#26
Hexane
Concen: 20.337 ppbv
RT: 5.674 min Scan# 899
Delta R.T. -0.003 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument : MSVOA_L
ClientSampleId : C0P77



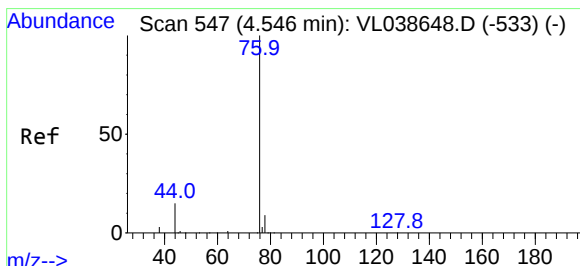
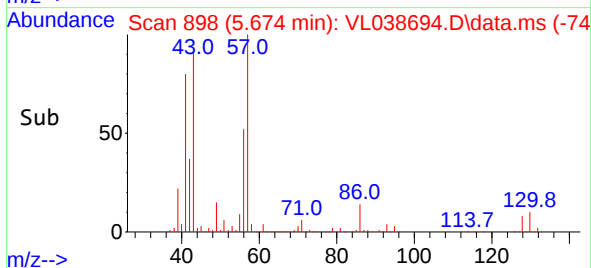
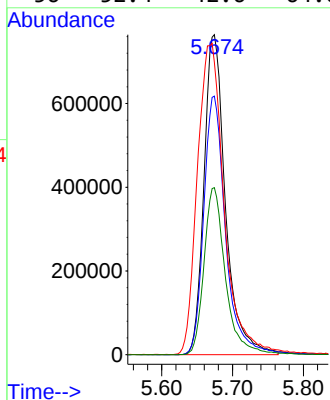
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Ion Ratio Lower Upper
57 100
41 82.5 67.0 100.4
43 122.2 184.2 276.2
56 52.4 42.6 64.0

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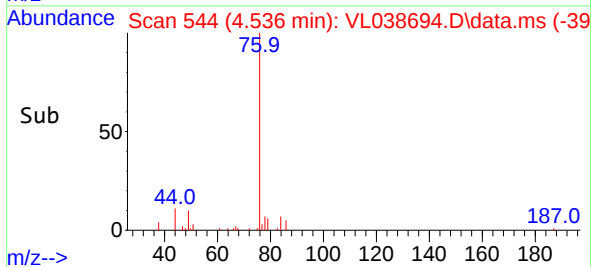
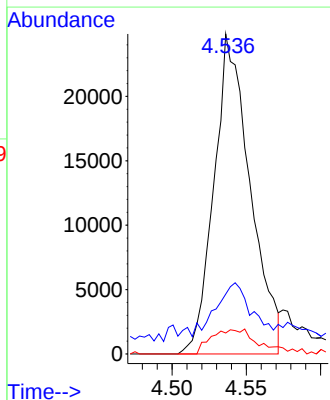
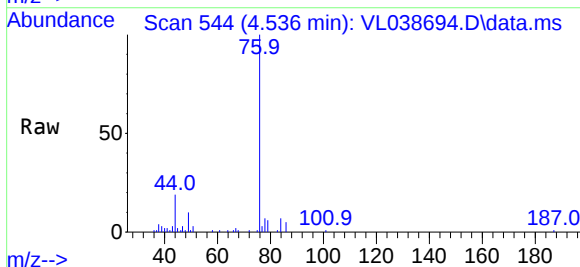
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Supervised By :Mahesh
Dadoda

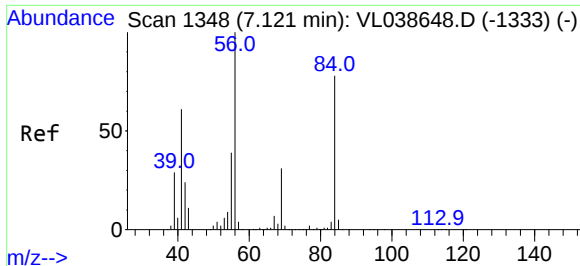
03/25/2022



#27
Carbon Disulfide
Concen: 0.541 ppbv
RT: 4.536 min Scan# 544
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Tgt Ion: 76 Resp: 42107
Ion Ratio Lower Upper
76 100
44 26.8 12.4 18.6
78 10.6 7.8 11.8





#30
Cyclohexane
Concen: 17.460 ppbv
RT: 7.112 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77

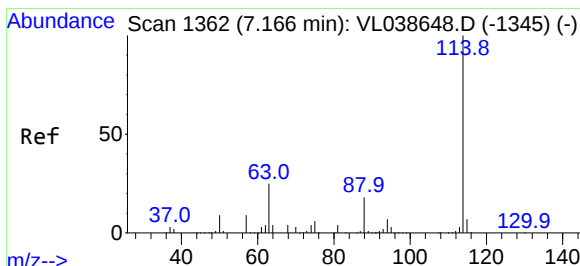
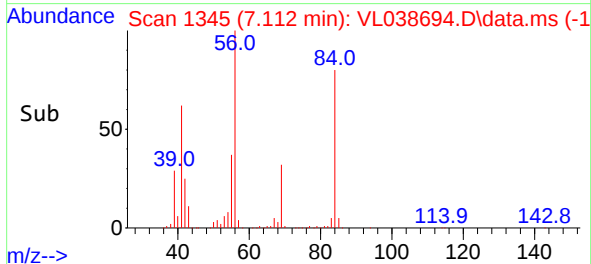
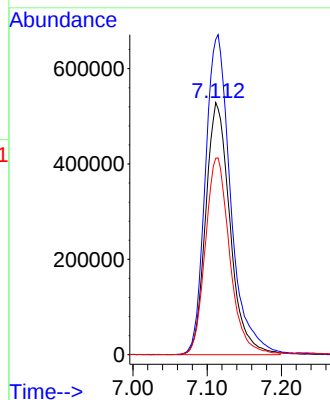
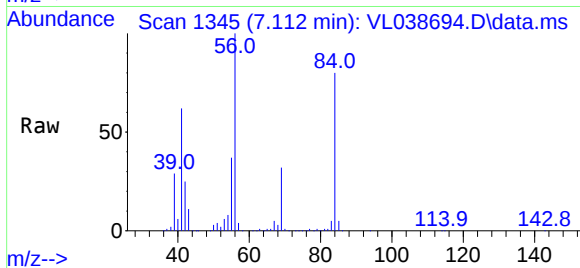
Tgt Ion: 84 Resp: 1203960
Ion Ratio Lower Upper
84 100
56 132.7 108.2 162.4
41 78.4 61.8 92.6

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Reviewed By :Semsettin
Yesilyurt

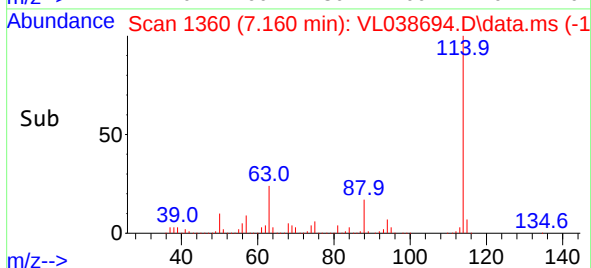
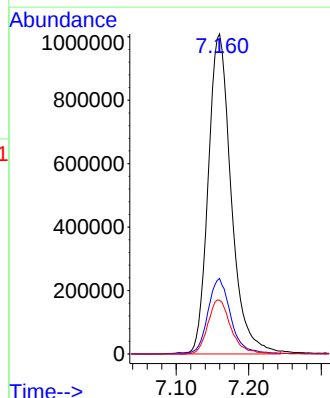
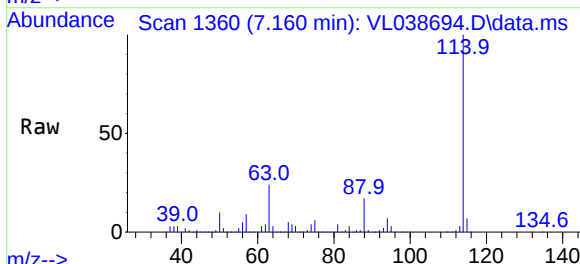
03/24/2022
Supervised By :Mahesh
Dadoda

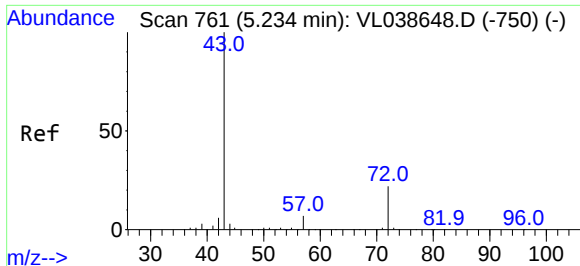
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.160 min Scan# 1360
Delta R.T. -0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

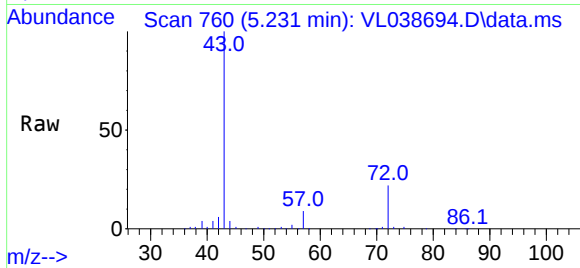
Tgt Ion:114 Resp: 2221490
Ion Ratio Lower Upper
114 100
63 24.0 19.4 29.0
88 17.0 13.9 20.9





#34
2-Butanone
Concen: 2.007 ppbv
RT: 5.231 min Scan# 70
Delta R.T. -0.003 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



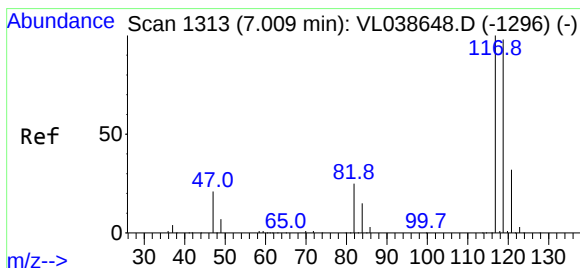
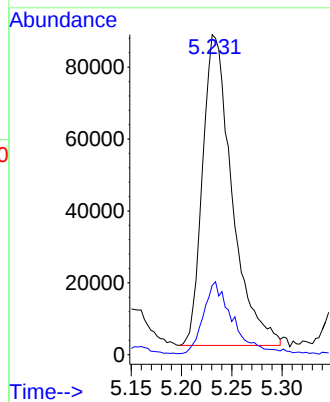
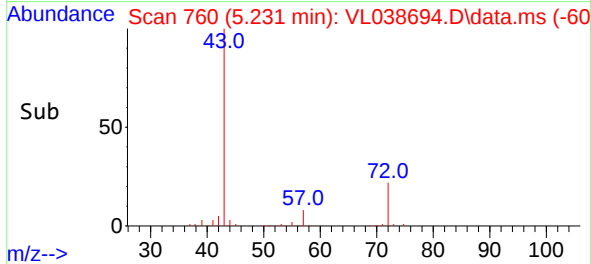
Tgt Ion: 43 Resp: 176462
Ion Ratio Lower Upper
43 100
72 24.7 17.8 26.8

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Yesilyurt

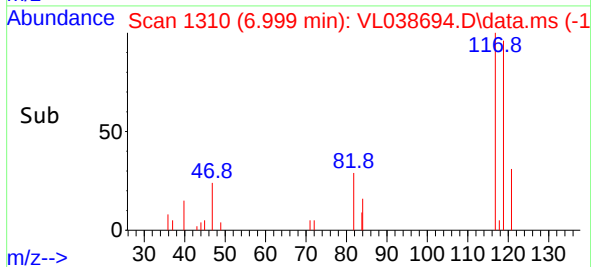
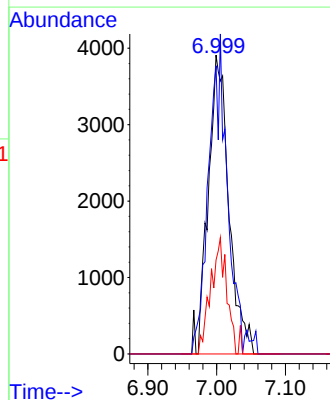
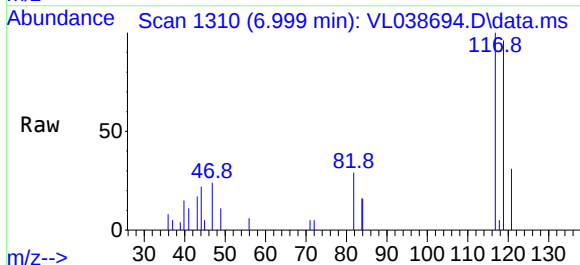
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Supervised By :Mahesh
Dadoda

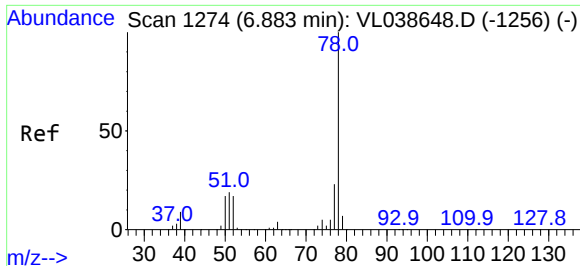
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#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 6.999 min Scan# 1310
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

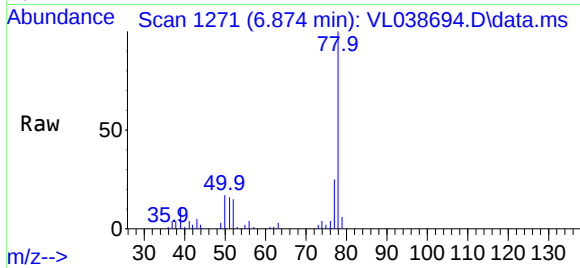
Tgt Ion:117 Resp: 8154
Ion Ratio Lower Upper
117 100
119 96.5 78.1 117.1
121 31.4 25.8 38.6





#36
Benzene
Concen: 0.362 ppbv
RT: 6.874 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



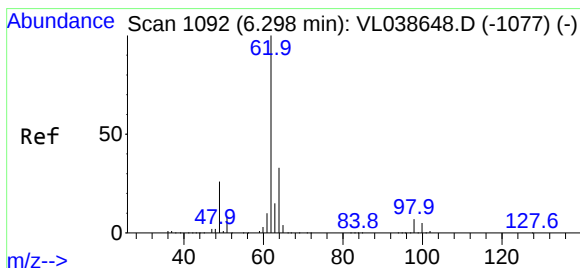
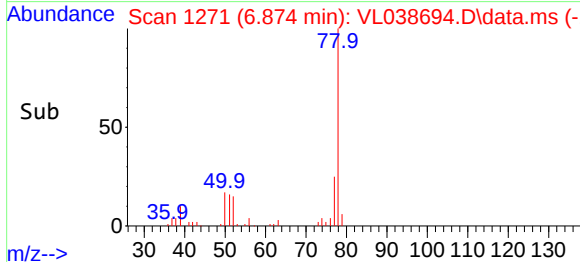
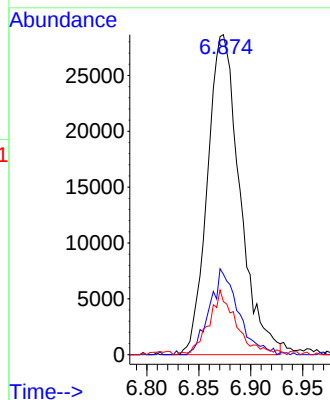
Tgt Ion: 78 Resp: 62114
Ion Ratio Lower Upper
78 100
77 25.3 18.1 27.1
50 16.1 13.6 20.4

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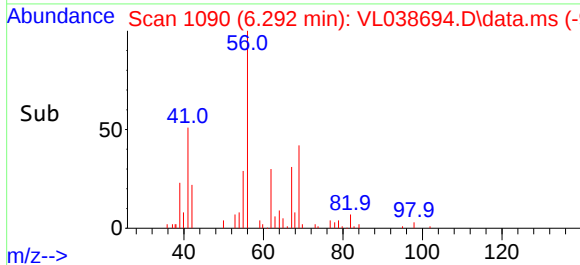
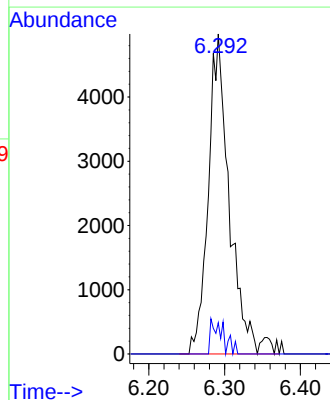
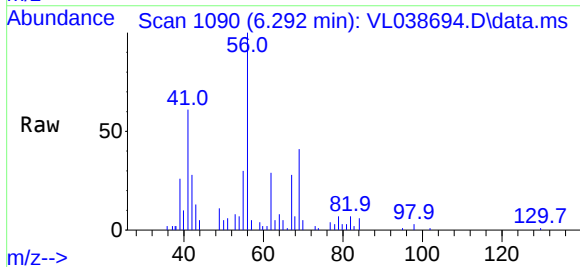
03/24/2022
Supervised By :Mahesh
Dadoda

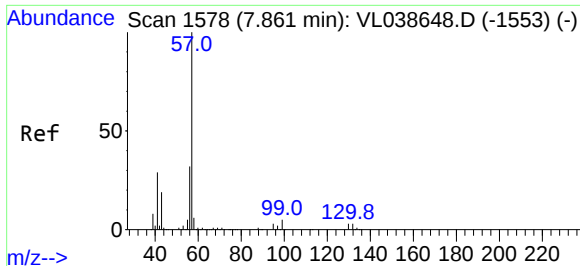
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#37
1,2-Dichloroethane
Concen: 0.112 ppbv m
RT: 6.292 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

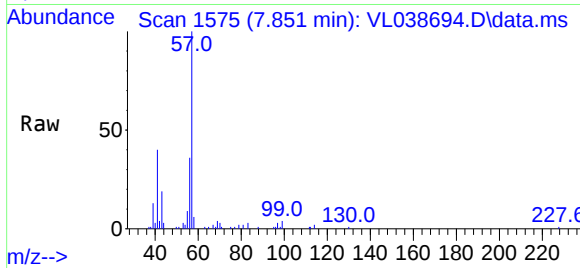
Tgt Ion: 62 Resp: 9736
Ion Ratio Lower Upper
62 100
98 0.0 5.6 8.4#





#44
2,2,4-Trimethylpentane
Concen: 0.197 ppbv
RT: 7.851 min Scan# 1578
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



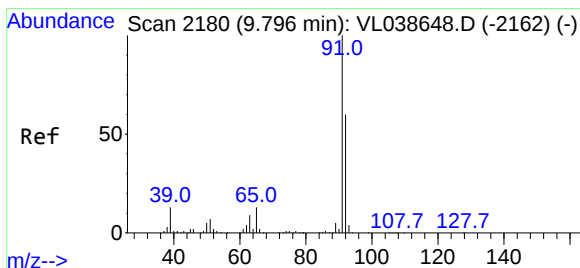
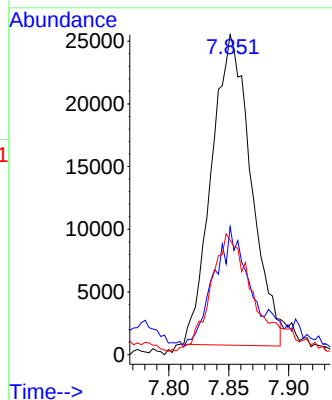
Tgt Ion: 57 Resp: 56820
Ion Ratio Lower Upper
57 100
41 48.5 23.0 34.4
56 46.4 25.3 37.9

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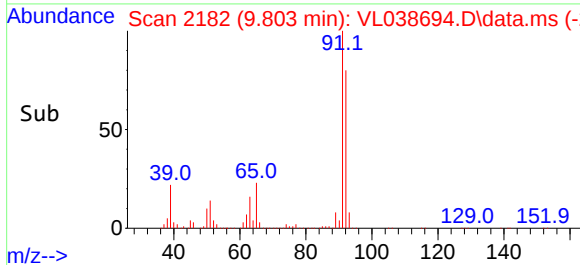
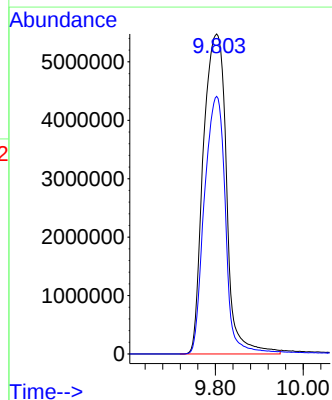
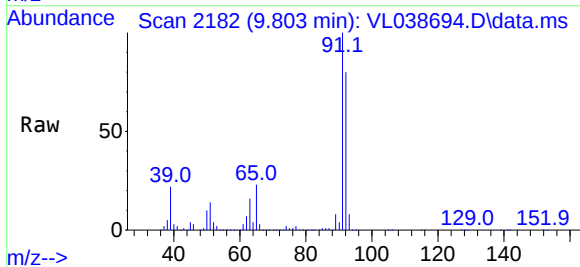
03/24/2022
Supervised By :Mahesh
Dadoda

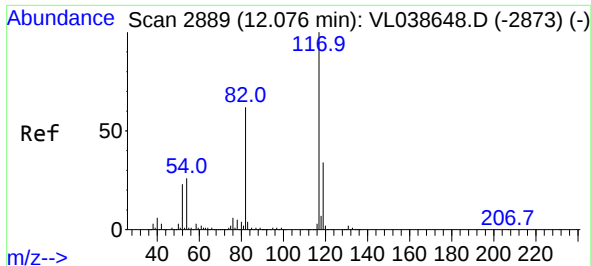
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#53
Toluene
Concen: 108.773 ppbv
RT: 9.803 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

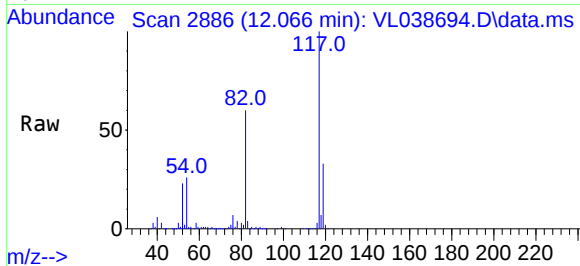
Tgt Ion: 91 Resp:20038673
Ion Ratio Lower Upper
91 100
92 74.1 48.7 73.1#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.066 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



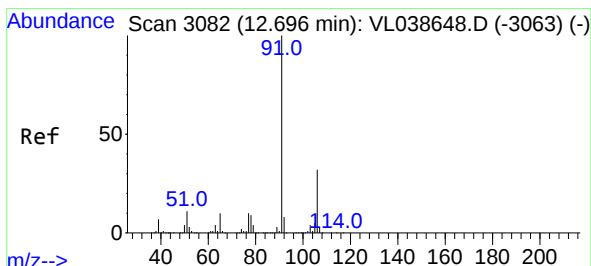
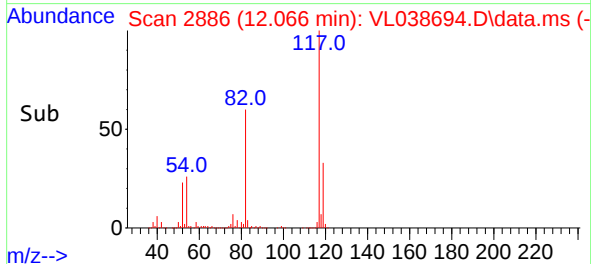
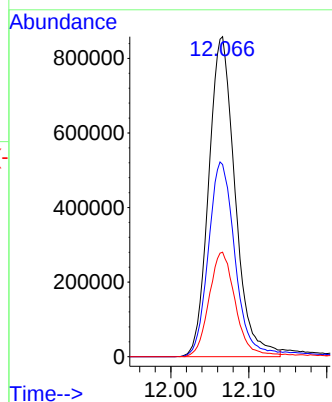
Tgt Ion: 117 Resp: 2020720
Ion Ratio Lower Upper
117 100
82 63.7 51.6 77.4
119 33.8 26.9 40.3

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Yesilyurt

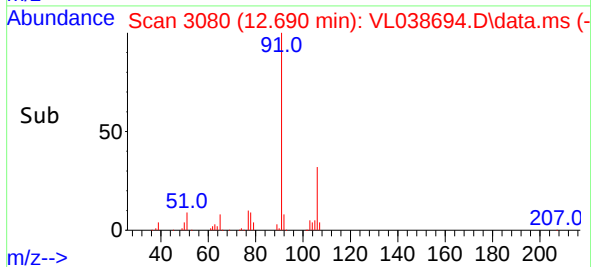
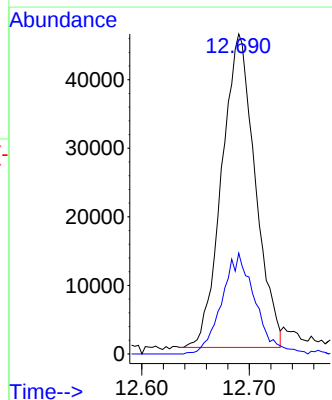
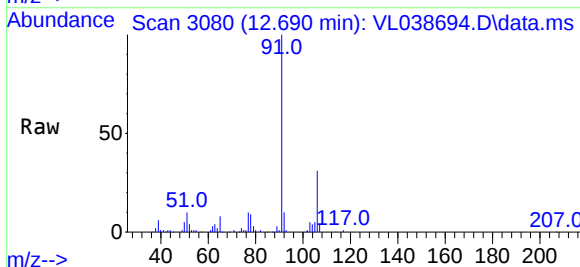
03/24/2022
Supervised By :Mahesh
Dadoda

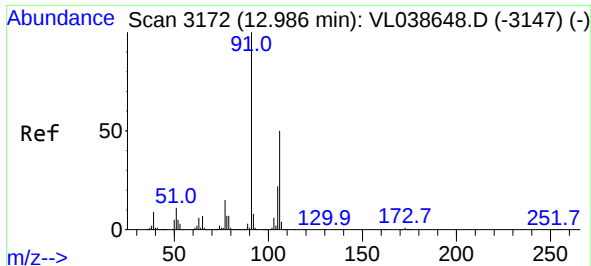
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#58
Ethyl Benzene
Concen: 0.417 ppbv
RT: 12.690 min Scan# 3080
Delta R.T. -0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Tgt Ion: 91 Resp: 98553
Ion Ratio Lower Upper
91 100
106 32.1 25.4 38.0





#59

m/p-Xylene

Concen: 0.668 ppbv m

RT: 12.944 min Scan# 3172

Delta R.T. -0.042 min

Lab File: VL038694.D

Acq: 22 Mar 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

COP77

Tgt Ion: 91 Resp: 137972

Ion Ratio Lower Upper

91 100

106 0.0 37.2 55.8

Manual Integrations

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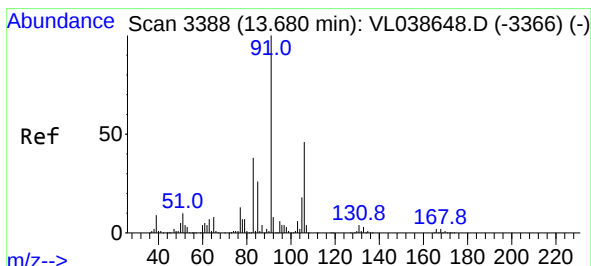
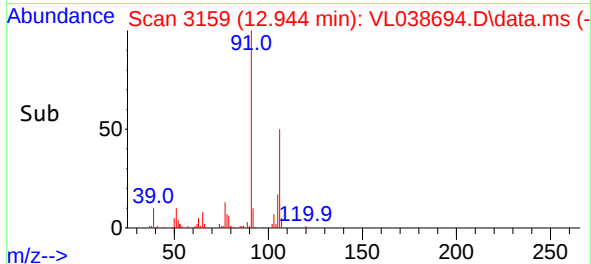
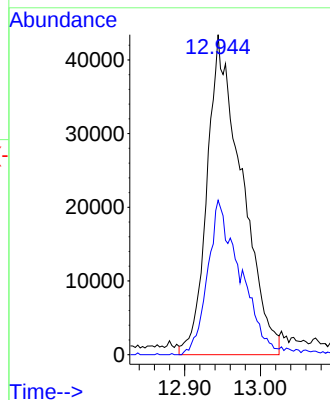
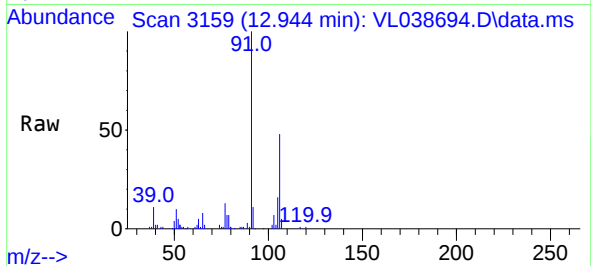
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#60

o-Xylene

Concen: 0.268 ppbv

RT: 13.668 min Scan# 3384

Delta R.T. -0.013 min

Lab File: VL038694.D

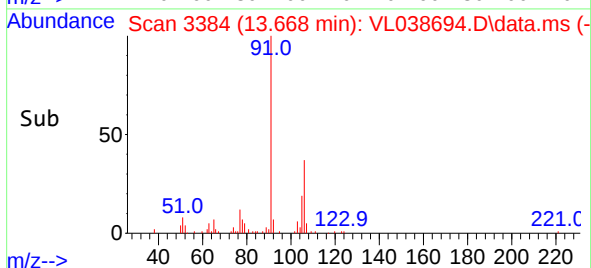
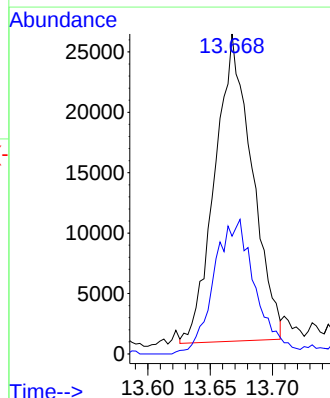
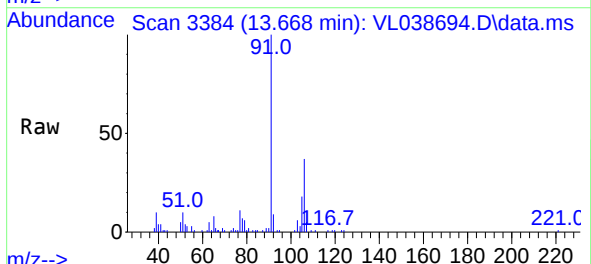
Acq: 22 Mar 2022 21:44

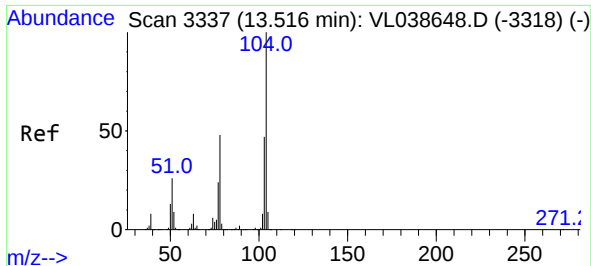
Tgt Ion: 91 Resp: 52625

Ion Ratio Lower Upper

91 100

106 49.6 23.5 70.5





#61
Styrene
Concen: 0.326 ppbv m
RT: 13.510 min Scan# 310
Delta R.T. -0.006 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77

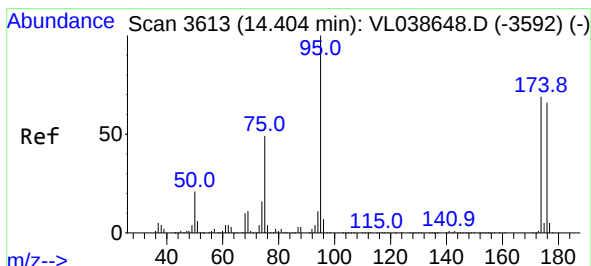
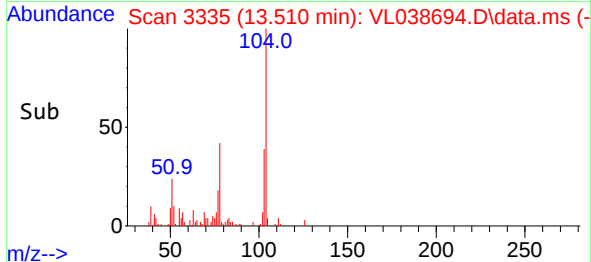
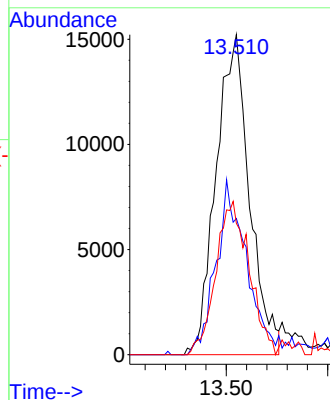
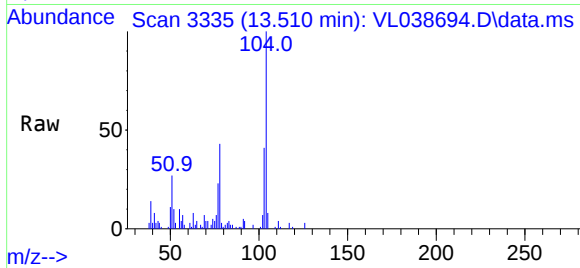
Tgt Ion:104 Resp: 34710
Ion Ratio Lower Upper
104 100
78 50.0 39.0 58.4
103 50.0 37.8 56.8

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Yesilyurt

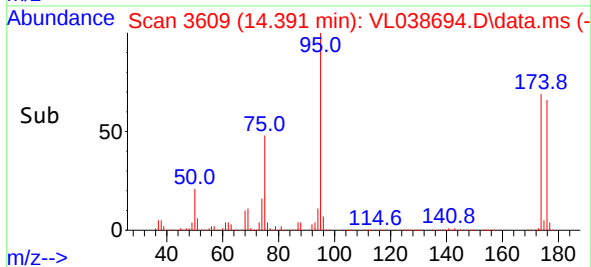
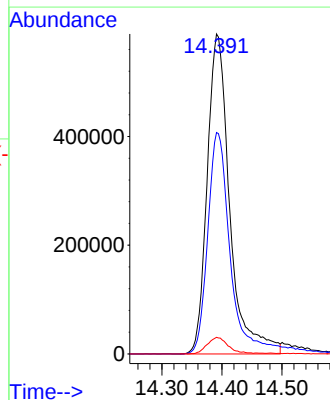
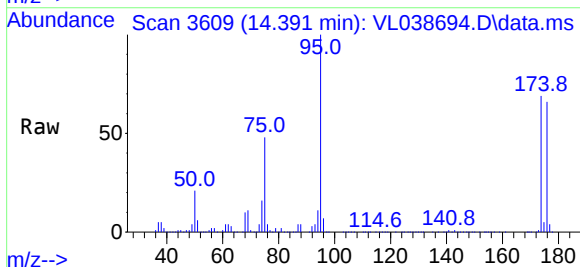
03/24/2022
Supervised By :Mahesh
Dadoda

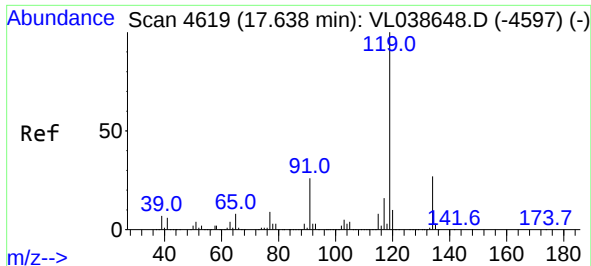
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 14.391 min Scan# 3609
Delta R.T. -0.013 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

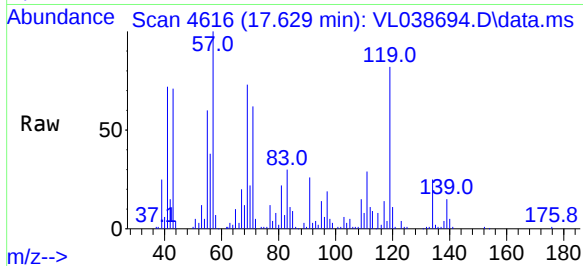
Tgt Ion: 95 Resp: 1541668
Ion Ratio Lower Upper
95 100
174 71.4 56.1 84.1
175 5.1 4.2 6.2





#69
p-Isopropyltoluene
Concen: 0.238 ppbv
RT: 17.629 min Scan# 4616
Delta R.T. -0.010 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
COP77



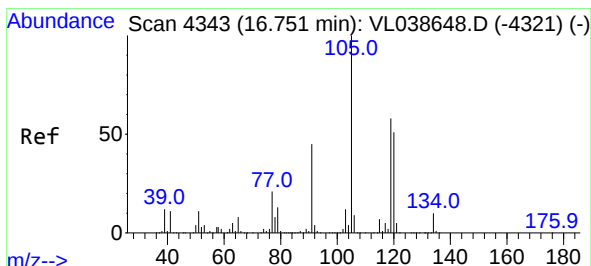
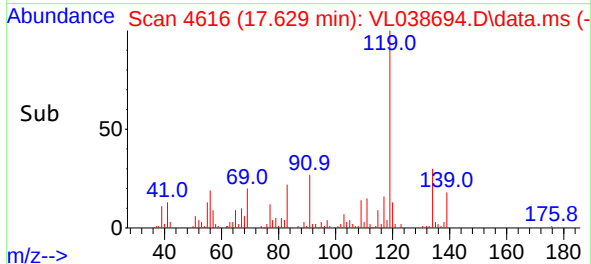
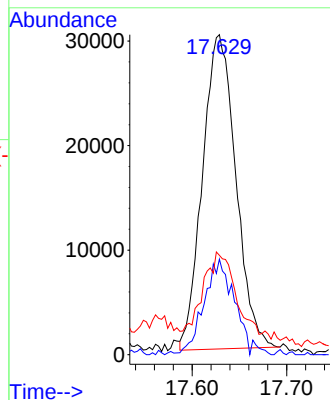
Tgt Ion:119 Resp: 7365
Ion Ratio Lower Upper
119 100
134 28.3 21.2 31.8
91 32.5 21.4 32.2

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Yesilyurt

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Supervised By :Mahesh
Dadoda

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#74
1,2,4-Trimethylbenzene
Concen: 0.161 ppbv m
RT: 16.732 min Scan# 4337
Delta R.T. -0.019 min
Lab File: VL038694.D
Acq: 22 Mar 2022 21:44

Tgt Ion:105 Resp: 37061
Ion Ratio Lower Upper
105 100
120 38.9 40.5 60.7#
91 22.4 35.9 53.9#
77 31.3 16.6 25.0#

