

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052322\
 Data File : VL039094.D
 Acq On : 23 May 2022 21:44
 Operator : SY/AP
 Sample : N2957-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/08/2022
 Supervised By :Mahesh Dadoda 06/08/2022

Quant Time: May 24 06:03:30 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

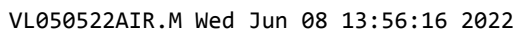
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

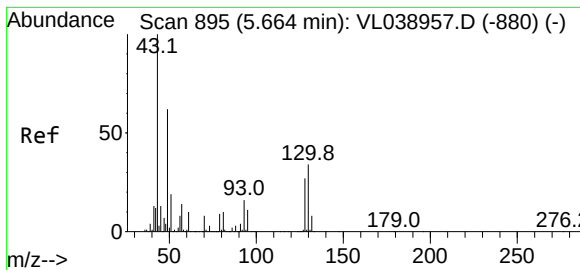
Internal Standards						
1) Bromochloromethane	5.652	49	1022185	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	7.156	114	2257367	10.000	ppbv	-0.02
55) Chlorobenzene-d5	12.060	117	1906570	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.391	95	1604760	10.628	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	3.044	85	41776	0.261	ppbv	91
3) Chlorodifluoromethane	2.986	51	69286m	0.546	ppbv	
4) Chloromethane	3.134	50	35647	0.561	ppbv	95
9) Propene	3.018	41	45029	0.813	ppbv #	79
10) Heptane	8.102	43	26034m	0.192	ppbv	
11) Trichlorofluoromethane	3.938	101	34002	0.247	ppbv	96
13) Ethanol	3.594	45	7311968	1865.314	ppbv	89
15) Acetone	3.838	43	785490	8.146	ppbv	92
17) tert-Butyl alcohol	4.285	59	20890m	0.282	ppbv	
19) Isopropyl Alcohol	3.960	45	336638	7.343	ppbv #	97
20) Methylene Chloride	4.333	84	1003961	27.626	ppbv	97
26) Hexane	5.668	57	747692	7.292	ppbv #	42
29) Chloroform	5.735	83	374039	2.255	ppbv	92
34) 2-Butanone	5.230	43	79591	0.691	ppbv	92
35) Carbon Tetrachloride	6.989	117	10609m	0.071	ppbv	
36) Benzene	6.867	78	26803m	0.139	ppbv	
52) Tetrachloroethene	11.201	164	2324m	0.034	ppbv	
53) Toluene	9.777	91	68141m	0.315	ppbv	
58) Ethyl Benzene	12.680	91	31399m	0.114	ppbv	
59) m/p-Xylene	12.950	91	75749m	0.323	ppbv	
60) o-Xylene	13.664	91	29746m	0.135	ppbv	
61) Styrene	13.491	104	14184m	0.121	ppbv	
74) 1,2,4-Trimethylbenzene	16.735	105	47823m	0.193	ppbv	

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

Manual Integrations

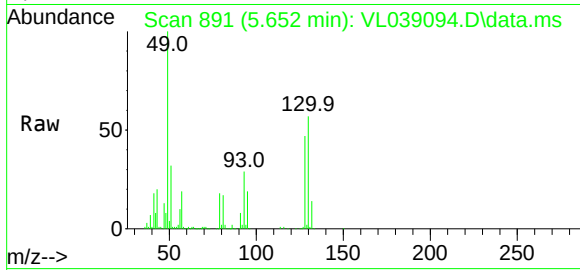
Quant Time: May 24 06:03:30 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.652 min Scan# 891
Delta R.T. -0.013 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

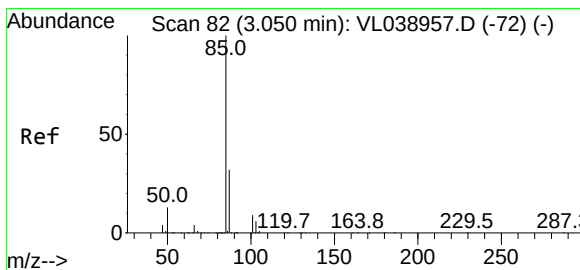
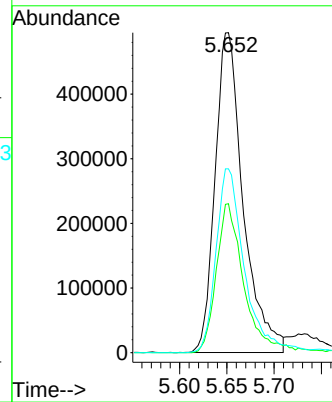
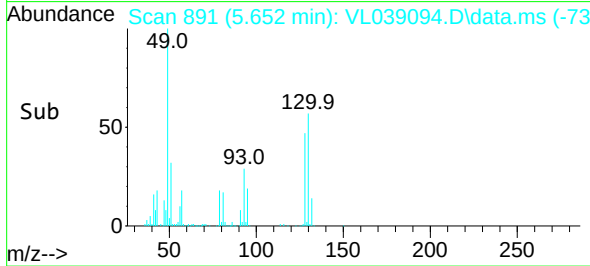
Instrument :
MSVOA_L
ClientSampleId :
AP-2



Tgt Ion: 49 Resp: 102218
Ion Ratio Lower Upper
49 100
128 47.1 23.3 69.8
130 59.4 29.8 89.3

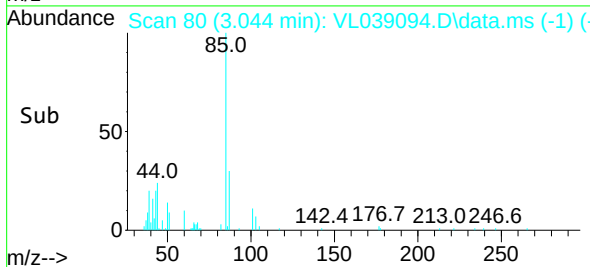
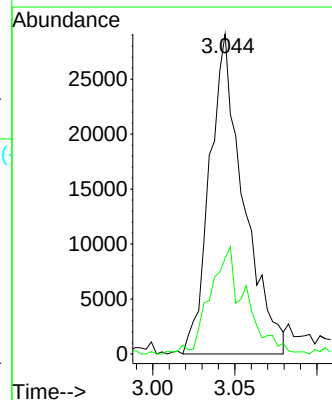
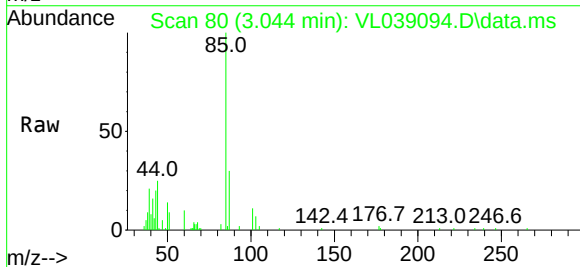
Manual Integrations
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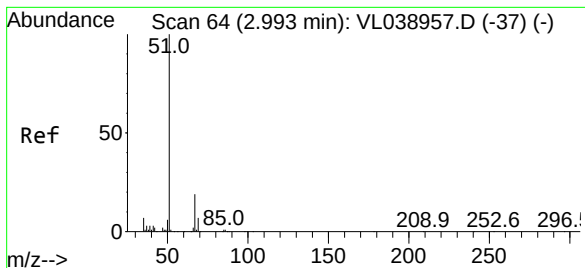
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 3.044 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

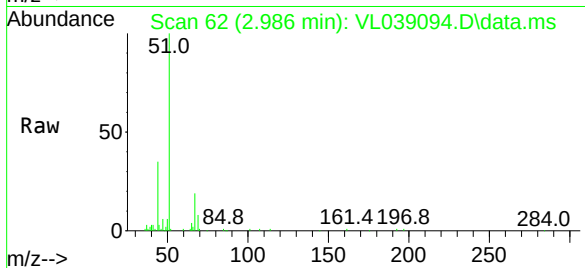
Tgt Ion: 85 Resp: 41776
Ion Ratio Lower Upper
85 100
87 27.1 25.7 38.5





#3
Chlorodifluoromethane
Concen: 0.546 ppbv m
RT: 2.986 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

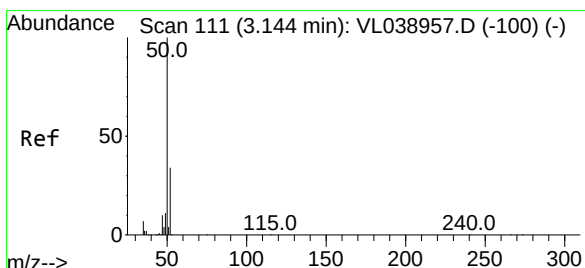
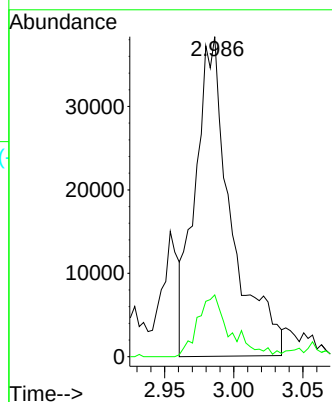
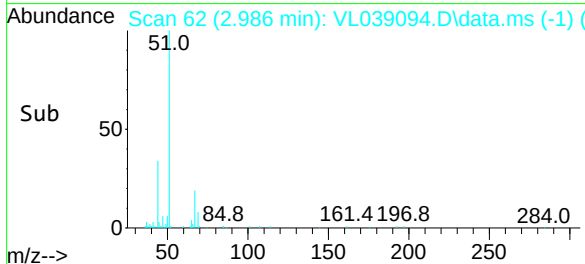
Instrument :
MSVOA_L
ClientSampleId :
AP-2



Tgt Ion: 51 Resp: 69280
Ion Ratio Lower Upper
51 100
67 20.3 15.8 23.8

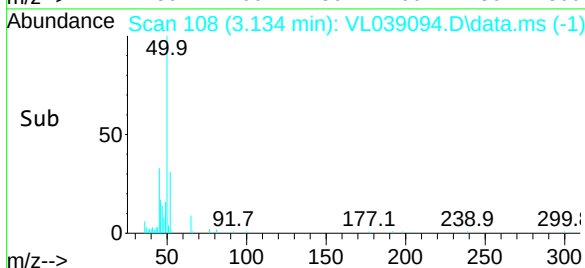
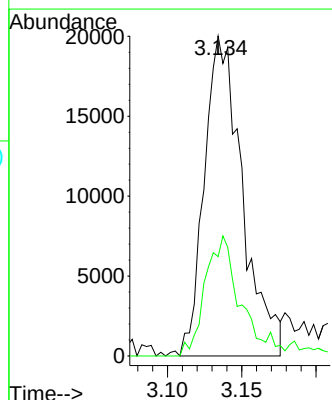
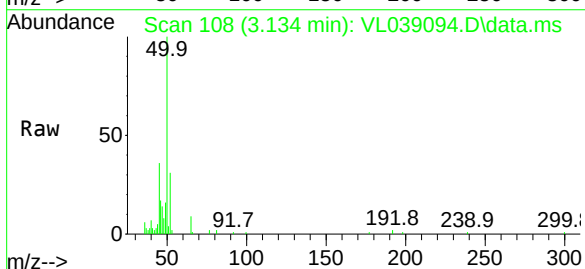
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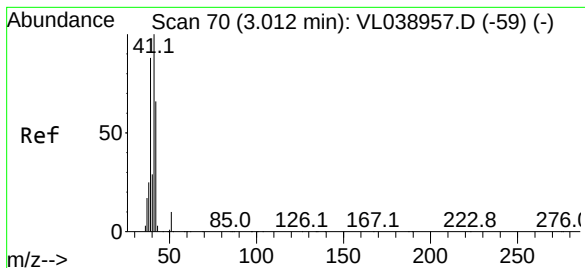
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#4
Chloromethane
Concen: 0.561 ppbv
RT: 3.134 min Scan# 108
Delta R.T. -0.010 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

Tgt Ion: 50 Resp: 35647
Ion Ratio Lower Upper
50 100
52 31.0 27.3 40.9





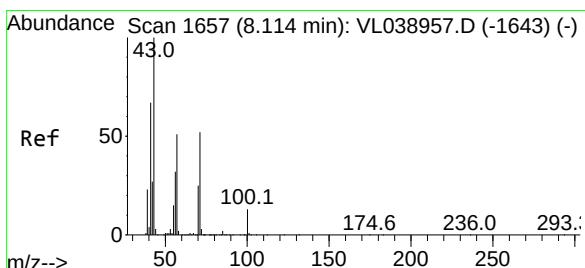
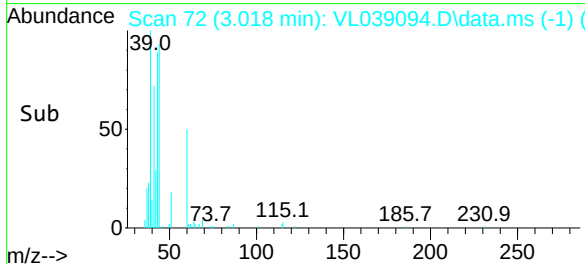
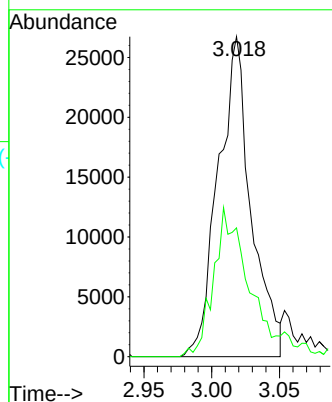
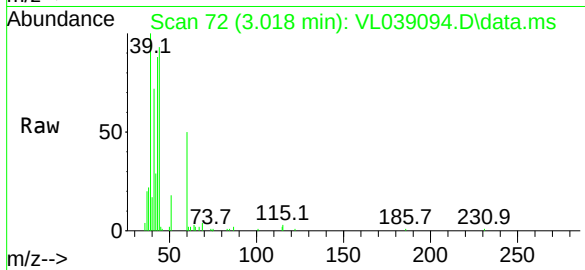
#9
 Propene
 Concen: 0.813 ppbv
 RT: 3.018 min Scan# 70
 Delta R.T. 0.007 min
 Lab File: VL039094.D
 Acq: 23 May 2022 21:44

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2

Tgt Ion: 41 Resp: 45029
 Ion Ratio Lower Upper
 41 100
 42 55.0 58.3 87.5

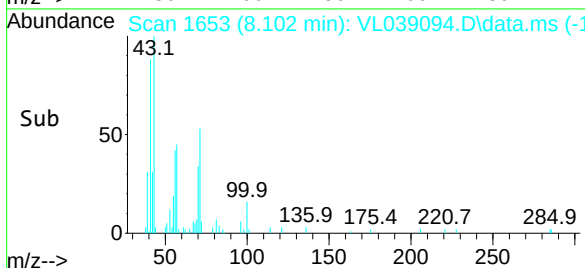
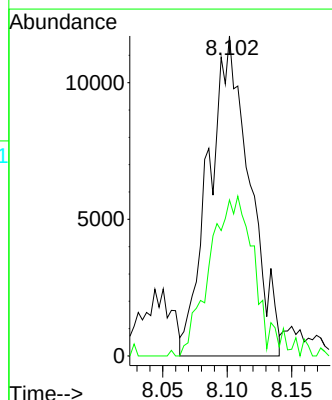
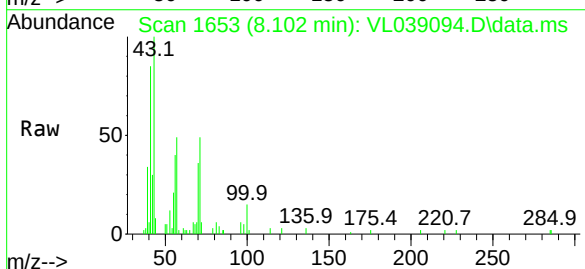
Manual Integrations
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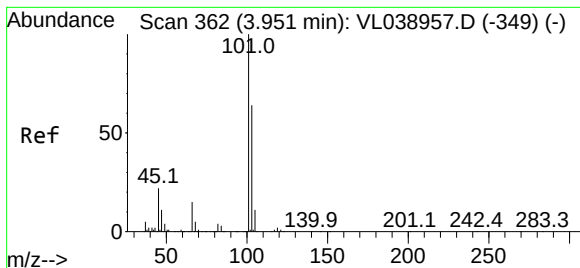
Reviewed By :Semsettin Yesilyurt 06/08/2022
 Supervised By :Mahesh Dadoda 06/08/2022



#10
 Heptane
 Concen: 0.192 ppbv m
 RT: 8.102 min Scan# 1653
 Delta R.T. -0.013 min
 Lab File: VL039094.D
 Acq: 23 May 2022 21:44

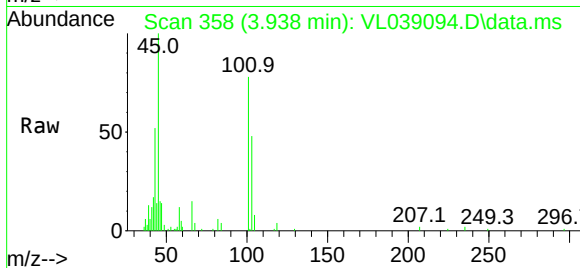
Tgt Ion: 43 Resp: 26034
 Ion Ratio Lower Upper
 43 100
 57 55.6 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 3.938 min Scan# 310
Delta R.T. -0.013 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

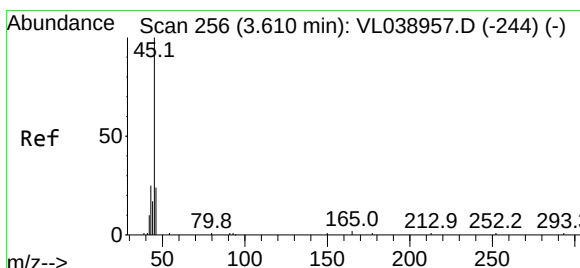
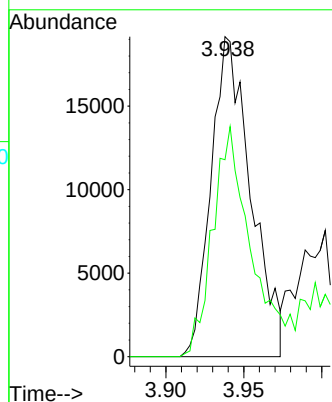
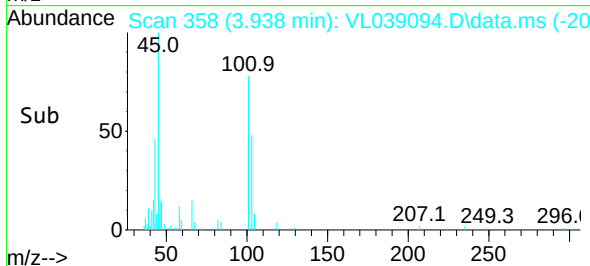
Instrument :
MSVOA_L
ClientSampleId :
AP-2



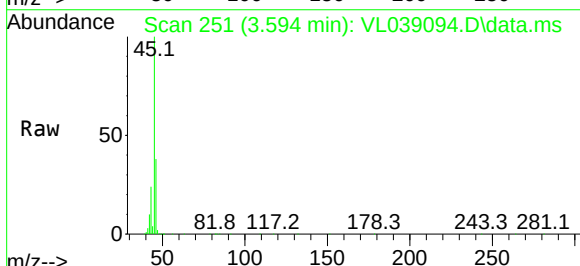
Tgt Ion:101 Resp: 3400
Ion Ratio Lower Upper
101 100
103 61.6 51.5 77.3

Manual Integrations
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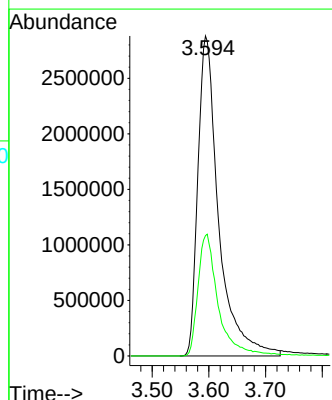
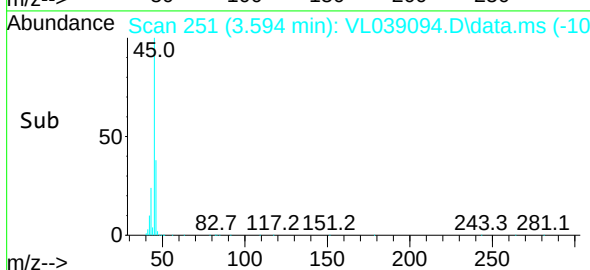
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022

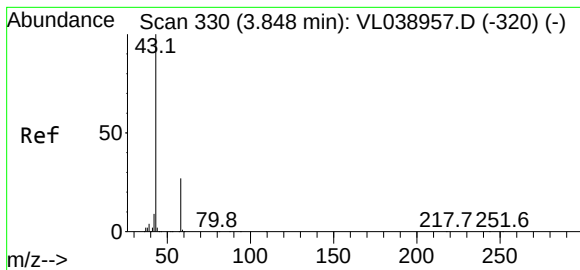


#13
Ethanol
Concen: 1865.314 ppbv
RT: 3.594 min Scan# 251
Delta R.T. -0.016 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44



Tgt Ion: 45 Resp: 7311968
Ion Ratio Lower Upper
45 100
46 37.7 18.0 72.2





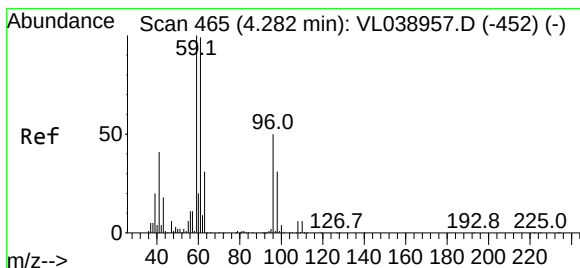
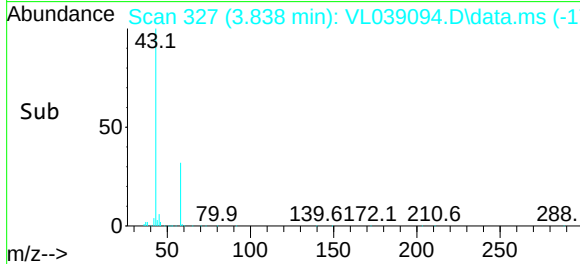
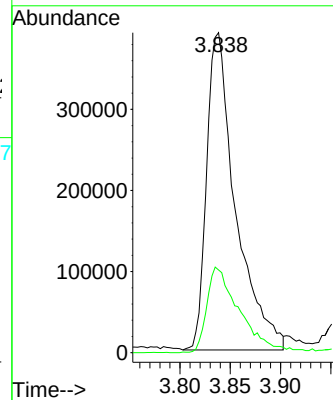
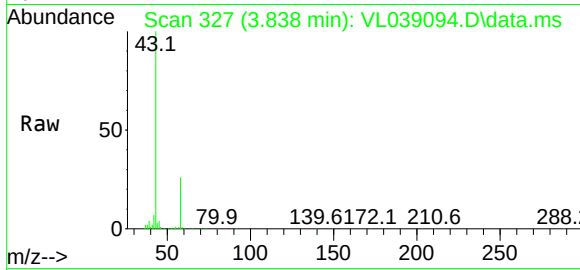
#15
Acetone
Concen: 8.146 ppbv
RT: 3.838 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
AP-2

Tgt Ion: 43 Resp: 785490
Ion Ratio Lower Upper
43 100
58 30.6 21.3 31.9

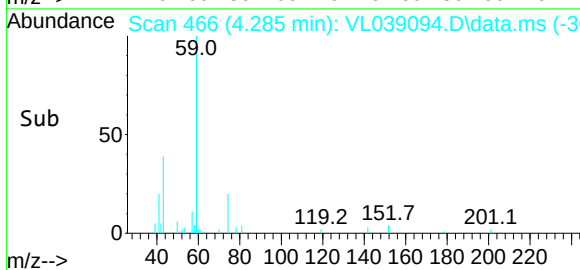
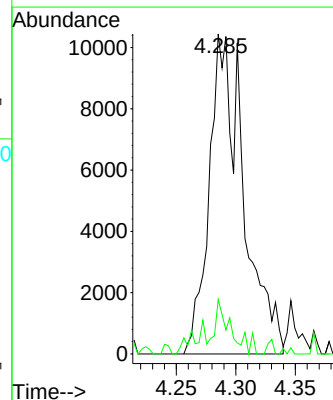
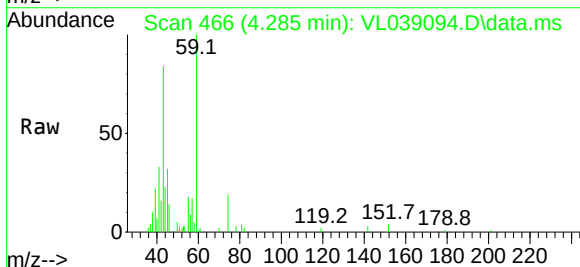
Manual Integrations
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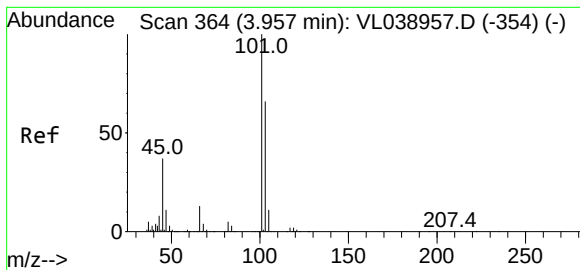
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#17
tert-Butyl alcohol
Concen: 0.282 ppbv m
RT: 4.285 min Scan# 466
Delta R.T. 0.003 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

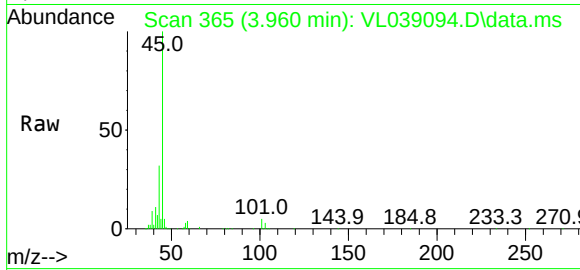
Tgt Ion: 59 Resp: 20890
Ion Ratio Lower Upper
59 100
57 12.9 9.2 13.8





#19
Isopropyl Alcohol
Concen: 7.343 ppbv
RT: 3.960 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

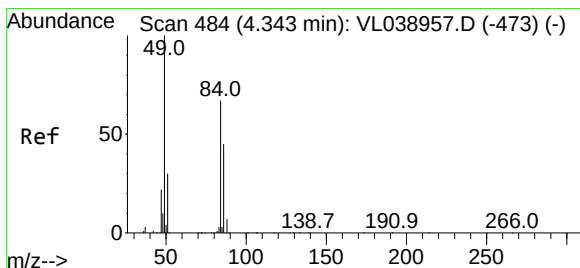
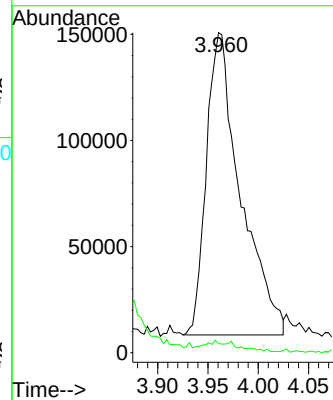
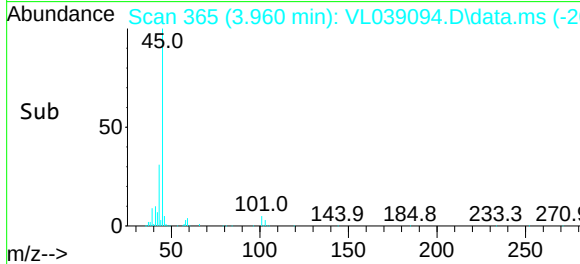
Instrument :
MSVOA_L
ClientSampleId :
AP-2



Tgt Ion: 45 Resp: 336638
Ion Ratio Lower Upper
45 100
58 3.0 1.4 2.2

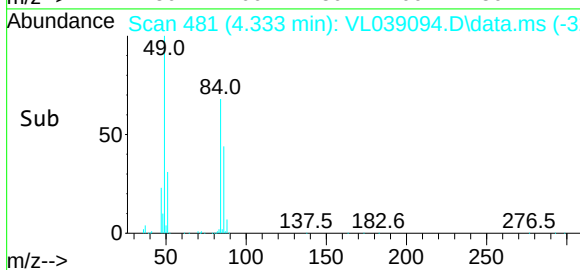
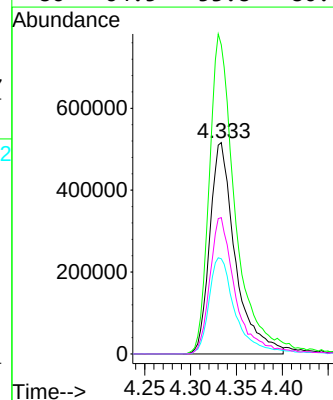
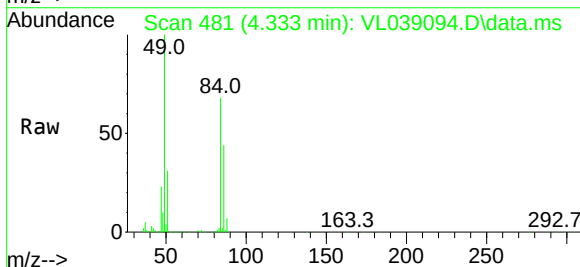
Manual Integrations
APPROVED

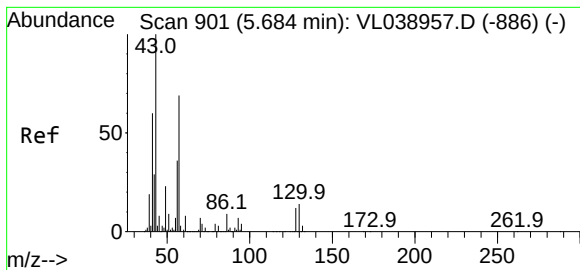
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#20
Methylene Chloride
Concen: 27.626 ppbv
RT: 4.333 min Scan# 481
Delta R.T. -0.010 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

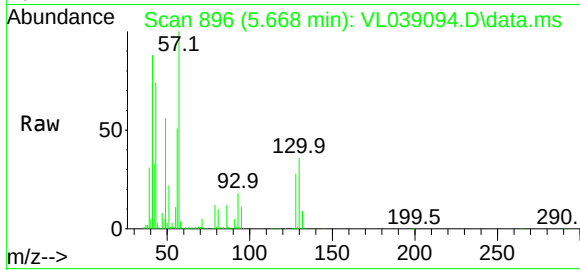
Tgt Ion: 84 Resp: 1003961
Ion Ratio Lower Upper
84 100
49 146.2 119.9 179.9
51 44.9 35.7 53.5
86 64.5 53.8 80.6





#26
Hexane
Concen: 7.292 ppbv
RT: 5.668 min Scan# 896
Delta R.T. -0.016 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

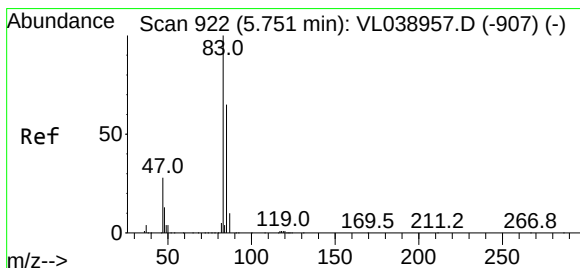
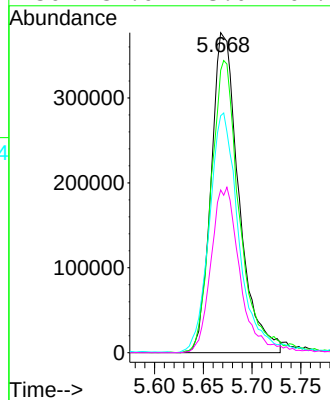
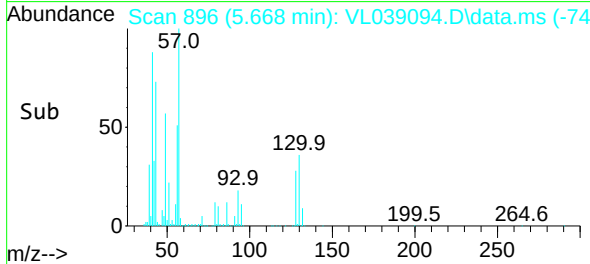
Instrument : MSVOA_L
ClientSampleId : AP-2



Tgt Ion: 57 Resp: 747692
Ion Ratio Lower Upper
57 100
41 94.9 75.2 112.8
43 80.5 190.8 286.2
56 54.6 43.0 64.6

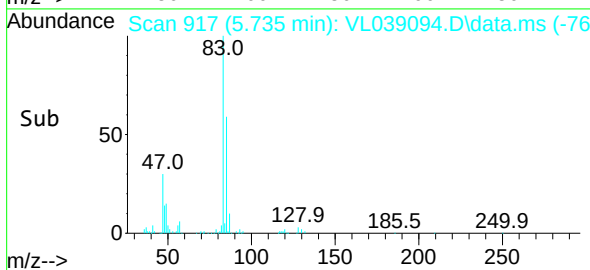
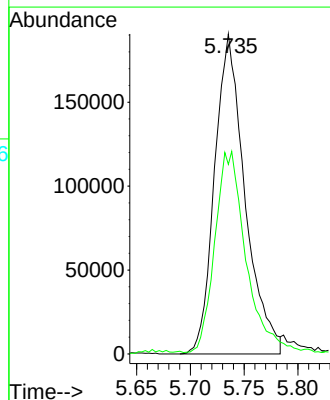
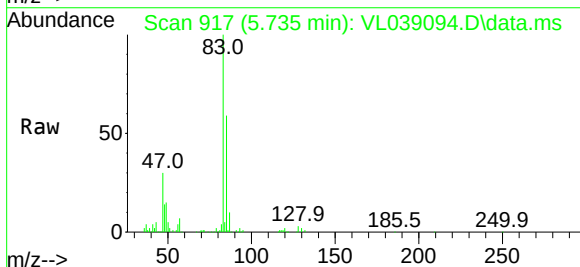
Manual Integrations
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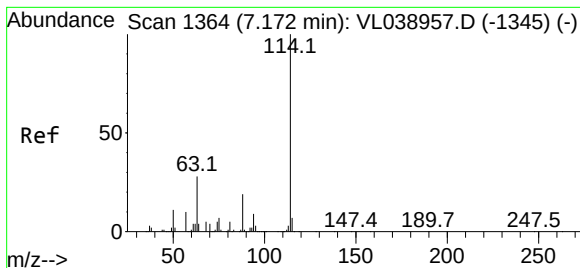
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#29
Chloroform
Concen: 2.255 ppbv
RT: 5.735 min Scan# 917
Delta R.T. -0.016 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

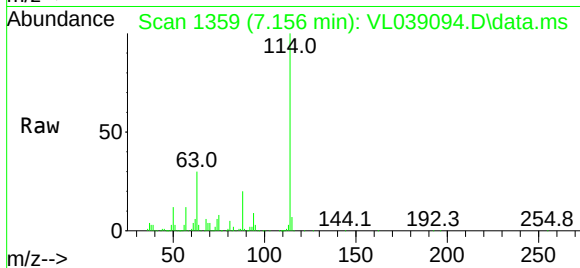
Tgt Ion: 83 Resp: 374039
Ion Ratio Lower Upper
83 100
85 58.4 51.8 77.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.156 min Scan# 114
Delta R.T. -0.016 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

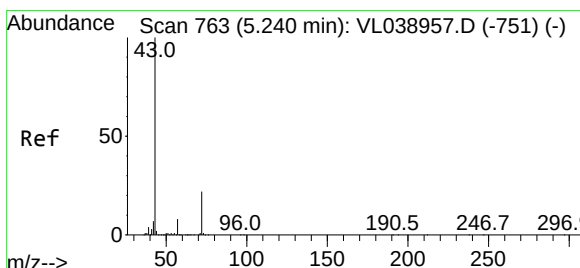
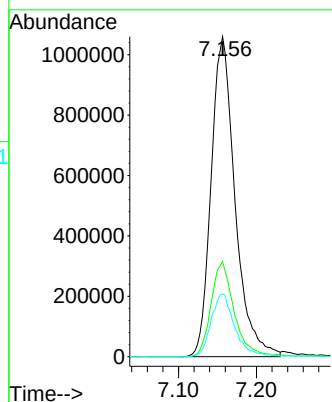
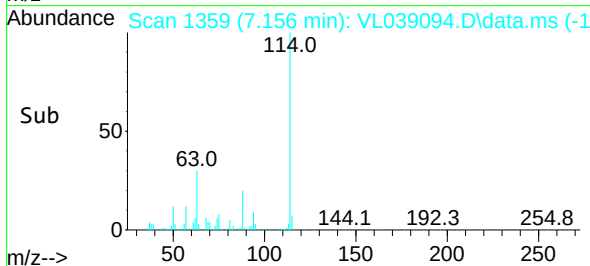
Instrument :
MSVOA_L
ClientSampleId :
AP-2



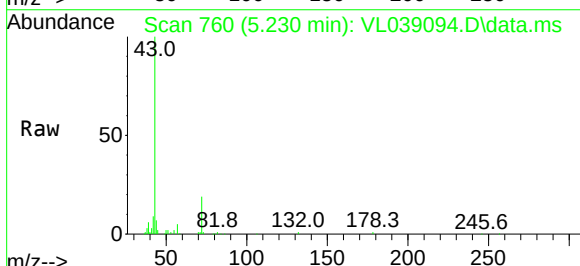
Tgt Ion:114 Resp: 225736
Ion Ratio Lower Upper
114 100
63 29.1 22.6 33.8
88 19.3 15.4 23.0

Manual Integrations
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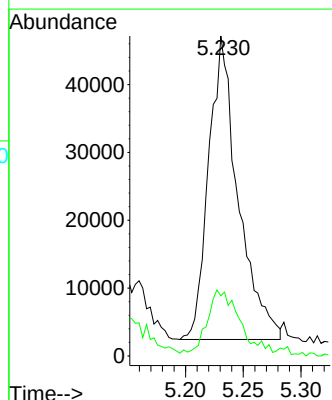
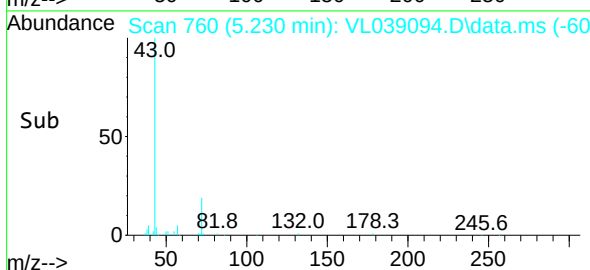
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022

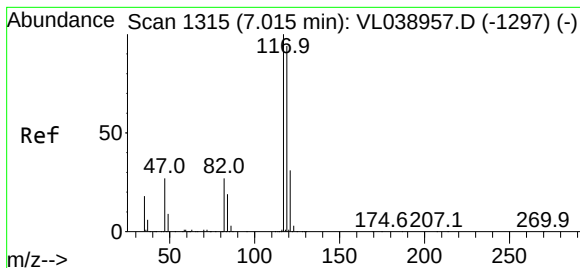


#34
2-Butanone
Concen: 0.691 ppbv
RT: 5.230 min Scan# 760
Delta R.T. -0.010 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44



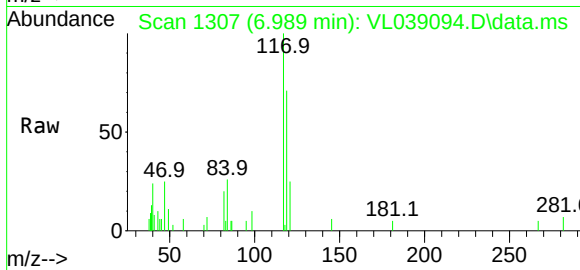
Tgt Ion: 43 Resp: 79591
Ion Ratio Lower Upper
43 100
72 25.8 17.8 26.6





#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 6.989 min Scan# 117
Delta R.T. -0.026 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

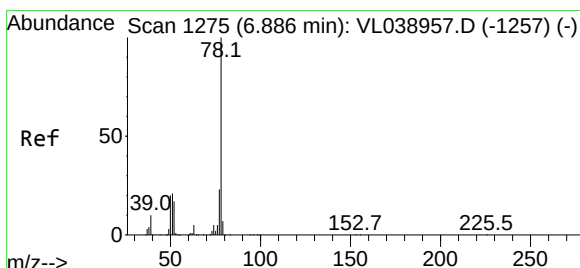
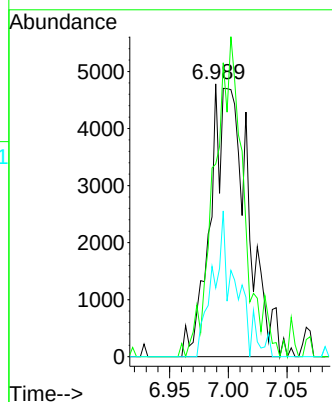
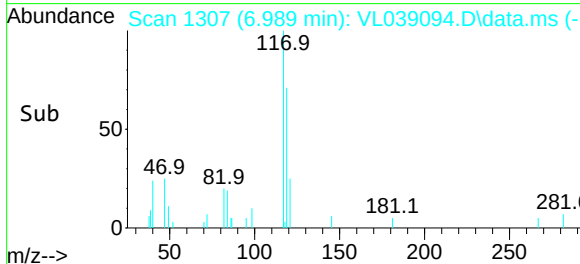
Instrument :
MSVOA_L
ClientSampleId :
AP-2



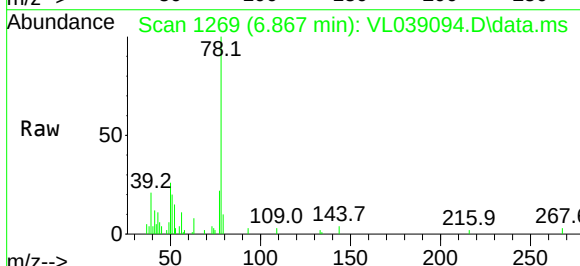
Tgt Ion: 117 Resp: 10609
Ion Ratio Lower Upper
117 100
119 70.6 75.2 112.8
121 25.2 24.6 37.0

Manual Integrations
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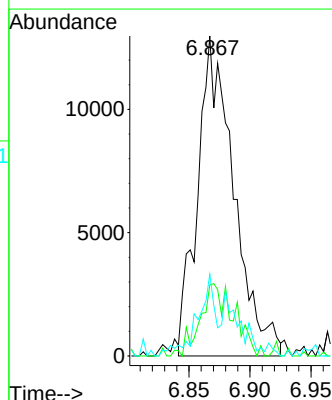
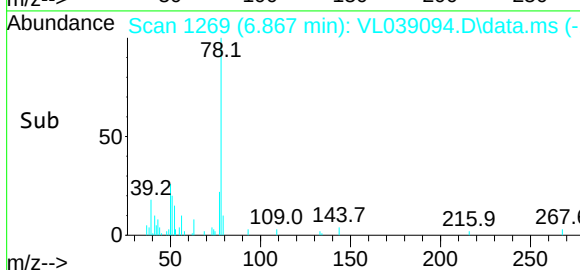
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022

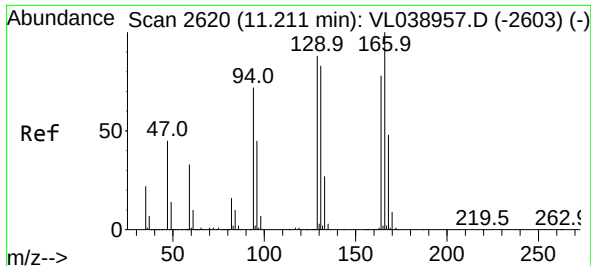


#36
Benzene
Concen: 0.139 ppbv m
RT: 6.867 min Scan# 1269
Delta R.T. -0.019 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44



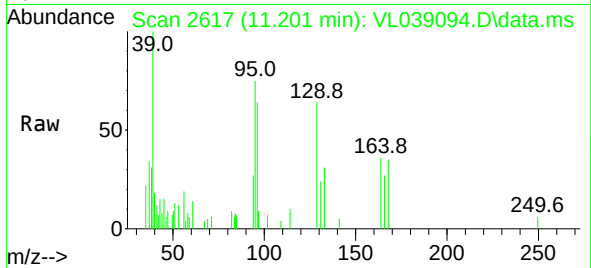
Tgt Ion: 78 Resp: 26803
Ion Ratio Lower Upper
78 100
77 22.2 18.6 28.0
50 25.6 15.6 23.4





#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 11.201 min Scan# 2174
Delta R.T. -0.010 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

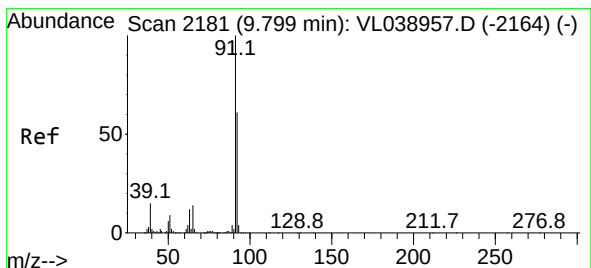
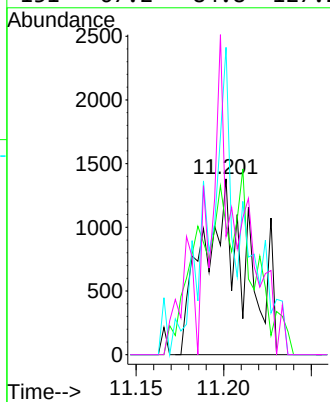
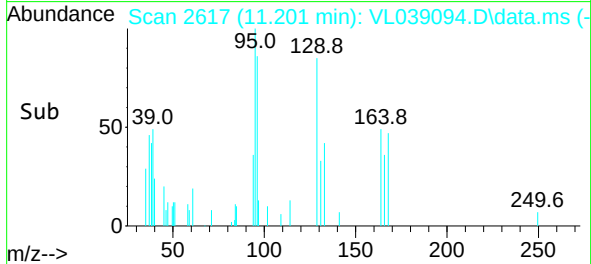
Instrument :
MSVOA_L
ClientSampleId :
AP-2



Tgt Ion:164 Resp: 2324
Ion Ratio Lower Upper
164 100
166 73.1 102.5 153.7
129 174.7 90.1 135.1
131 67.2 84.8 127.2

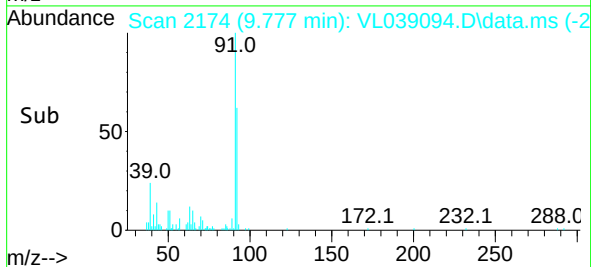
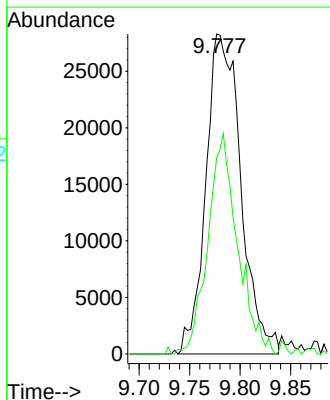
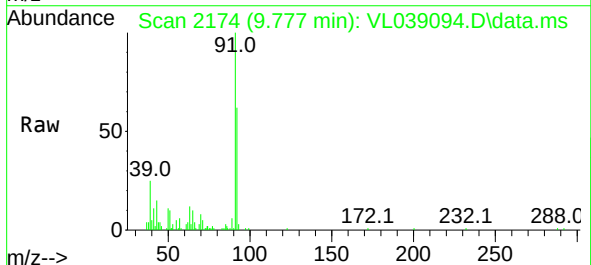
Manual Integrations
APPROVED

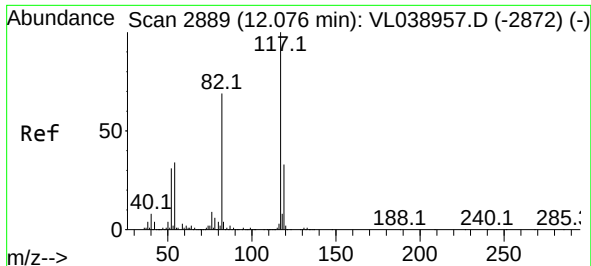
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#53
Toluene
Concen: 0.315 ppbv m
RT: 9.777 min Scan# 2174
Delta R.T. -0.022 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

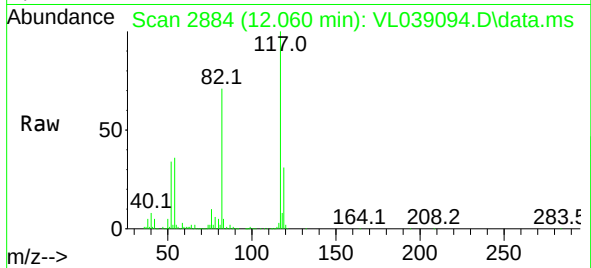
Tgt Ion: 91 Resp: 68141
Ion Ratio Lower Upper
91 100
92 59.4 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.060 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

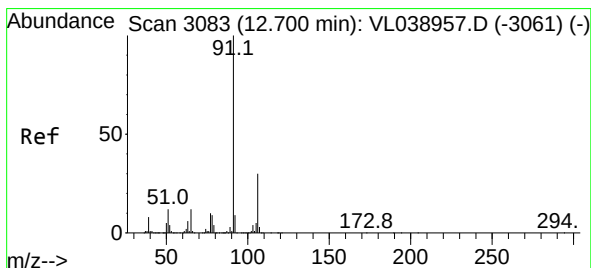
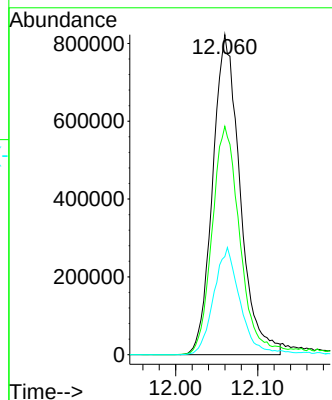
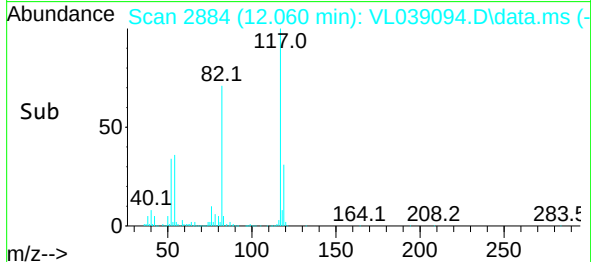
Instrument :
MSVOA_L
ClientSampleId :
AP-2



Tgt Ion: 117 Resp: 1906570
Ion Ratio Lower Upper
117 100
82 75.3 57.0 85.6
119 33.2 27.2 40.8

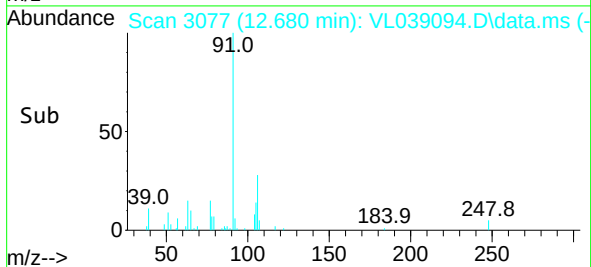
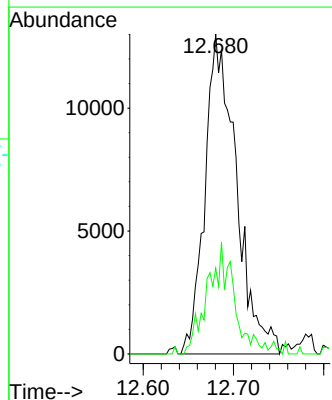
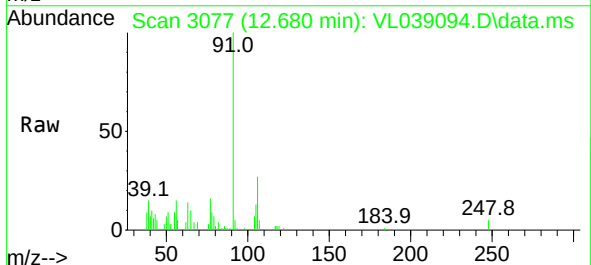
Manual Integrations
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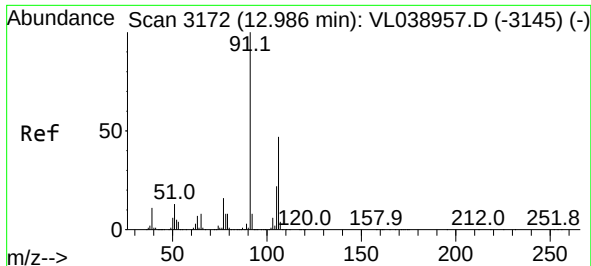
Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#58
Ethyl Benzene
Concen: 0.114 ppbv m
RT: 12.680 min Scan# 3077
Delta R.T. -0.019 min
Lab File: VL039094.D
Acq: 23 May 2022 21:44

Tgt Ion: 91 Resp: 31399
Ion Ratio Lower Upper
91 100
106 26.8 24.2 36.4





#59

m/p-Xylene

Concen: 0.323 ppbv m

RT: 12.950 min Scan# 3172

Delta R.T. -0.035 min

Lab File: VL039094.D

Acq: 23 May 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

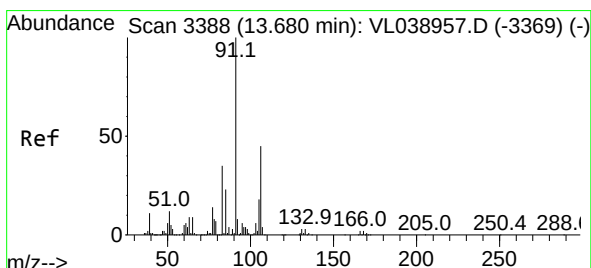
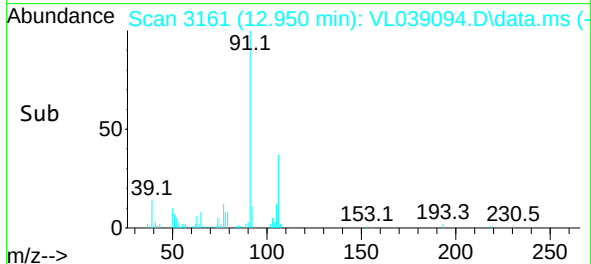
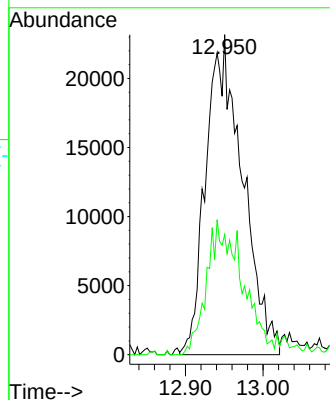
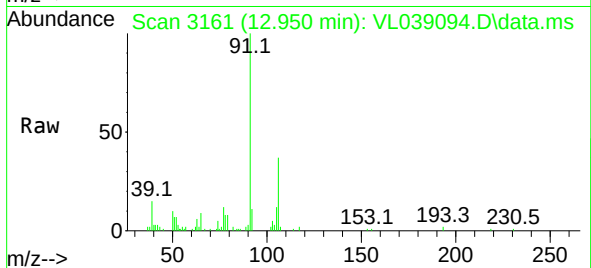
AP-2

Tgt Ion: 91 Resp: 75749
 Ion Ratio Lower Upper
 91 100
 106 0.0 34.6 52.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/08/2022
 Supervised By :Mahesh Dadoda 06/08/2022



#60

o-Xylene

Concen: 0.135 ppbv m

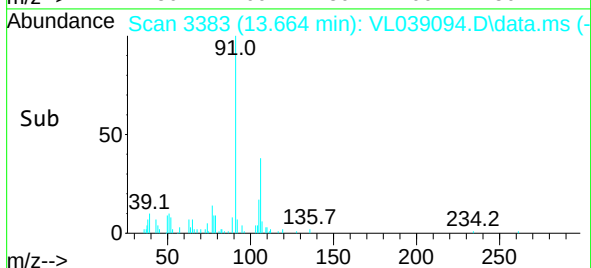
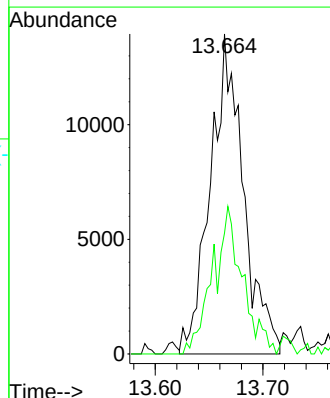
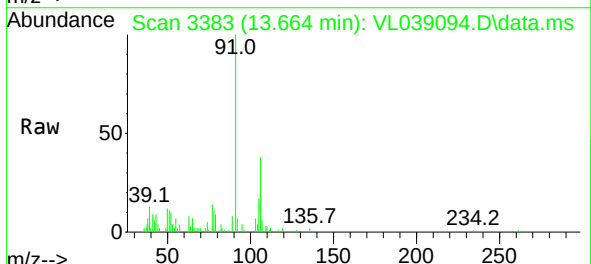
RT: 13.664 min Scan# 3383

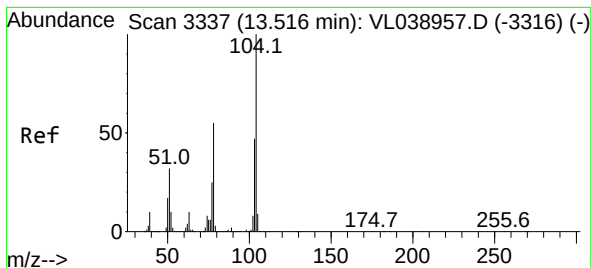
Delta R.T. -0.016 min

Lab File: VL039094.D

Acq: 23 May 2022 21:44

Tgt Ion: 91 Resp: 29746
 Ion Ratio Lower Upper
 91 100
 106 43.3 22.2 66.6





#61

Styrene

Concen: 0.121 ppbv

RT: 13.491 min Scan# 31

Delta R.T. -0.026 min

Lab File: VL039094.D

Acq: 23 May 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

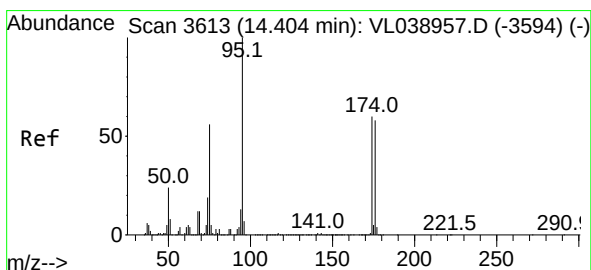
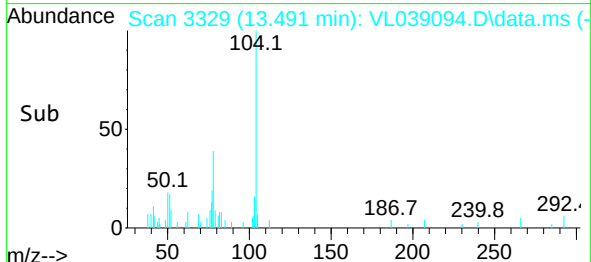
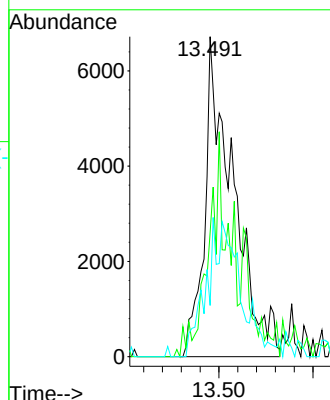
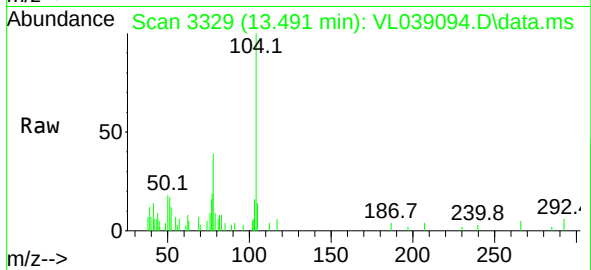
AP-2

Tgt Ion:104	Resp:	14184
Ion Ratio	Lower	Upper
104	100	
78	63.0	46.4 69.6
103	0.0	39.3 58.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/08/2022
Supervised By :Mahesh Dadoda 06/08/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.628 ppbv

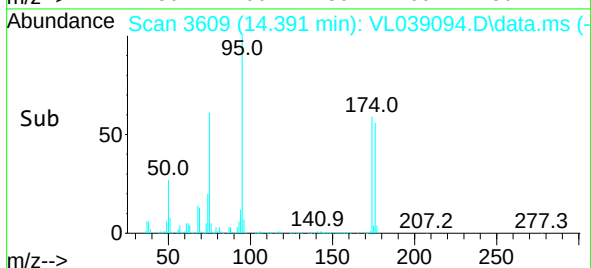
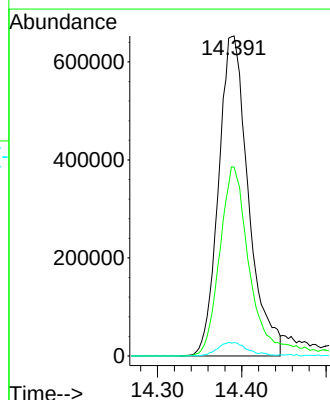
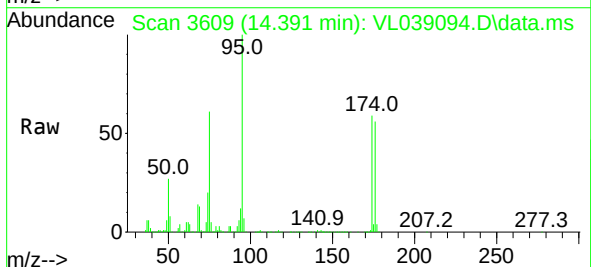
RT: 14.391 min Scan# 3609

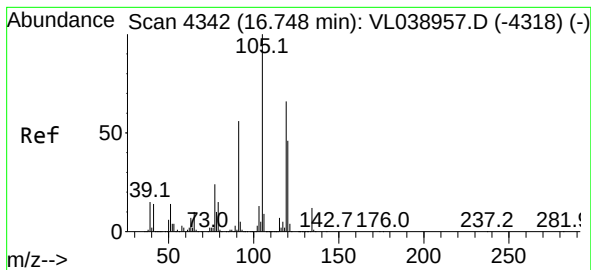
Delta R.T. -0.013 min

Lab File: VL039094.D

Acq: 23 May 2022 21:44

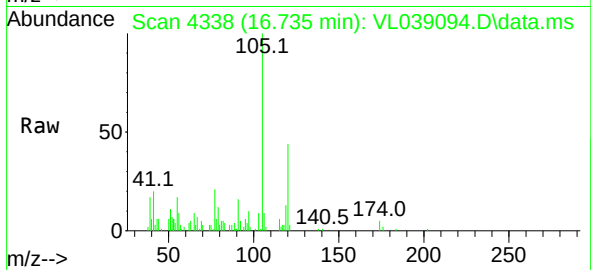
Tgt Ion: 95	Resp:	1604760
Ion Ratio	Lower	Upper
95	100	
174	62.7	50.8 76.2
175	4.4	3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.193 ppbv m
 RT: 16.735 min Scan# 41
 Delta R.T. -0.013 min
 Lab File: VL039094.D
 Acq: 23 May 2022 21:44

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2



Tgt Ion:	105	Resp:	4782
Ion	Ratio	Lower	Upper
105	100		
120	44.1	36.9	55.3
91	15.8	45.0	67.4
77	20.9	19.2	28.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/08/2022
 Supervised By :Mahesh Dadoda 06/08/2022

